KAPREALIAN ENGINEERING
INCORPORATED

Eva

KEI-P89-0801.QR12
May 13, 1993

7/12/93 Per Tim Ross, dry in MW6 means roots in well - unable to collect water sample. Told him they need to make well accessible for next Qtr. Also should consider some remediation at "hot" MW-2

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

Attention: Mr. Edward C. Ralston

RE: Quarterly Report
Unocal Service Station #6034
4700 First Street
Livermore, California

Dear Mr. Ralston:

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-P89-0801.P3) dated January 31, 1991, and as modified in KEI's quarterly reports (KEI-P89-0801.QR5) dated August 7, 1991, and (KEI-P89-0801.QR8) May 4, 1992. The wells are currently monitored and sampled on a quarterly basis, except for well MW1, which is no longer sampled. This report covers the work performed by KEI from February through April of 1993.

BACKGROUND

The subject site contains a Unocal service station facility. Two underground gasoline storage tanks, one waste oil tank, and the product piping were removed from the site in August of 1989 during tank replacement activities. The fuel tank pit was subsequently overexcavated to a depth of 17.5 feet below grade (the ground water depth at that time) in order to remove contaminated soil. Seven 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 quarterly report (KEI-P89-0801.QR8) dated May 4, 1992.

RECENT FIELD ACTIVITIES

The seven Unocal monitoring wells (MW1 through MW7) were monitored and sampled once during the quarter, except for well MW1, which is no longer sampled, and well MW6, which was not sampled this quarter since the well was dry on the sampling date. Prior to sampling,

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

the Unocal wells were checked for depth to water and the presence of free product or sheen. No free product or sheen was noted in any of the Unocal wells during the quarter. The monitoring data collected by KEI this quarter for the Unocal wells are summarized in Table 1.

A joint monitoring and sampling event was conducted with the nearby Chevron service station on April 22, 1993. The monitoring data collected by Groundwater Technology, Inc. (GTI) for the Chevron monitoring wells are summarized in Table 2, and the ground water sample analytical results for the Chevron wells are summarized in Table 4.

Water samples were collected by KEI from all of the Unocal wells (except MW1 and MW6) on April 22, 1993. Prior to sampling, the wells were each purged of 10 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 that 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 Unocal site on April 22, 1993, ranged between 14.25 to 15.47 feet below grade. The water levels in all of the Unocal wells have shown net decreases ranging from 0.22 to 0.27 feet since January 14, 1993. Based on the joint monitoring ground water level data gathered on April 22, 1993, the ground water flow direction in the vicinity of the Unocal and Chevron sites appeared to be predominantly to the west-northwest, as shown on the attached Potentiometric Surface Map, Figure 1. The flow direction reported this quarter is relatively similar to the predominantly northwesterly flow direction reported in the previous 13 quarters. The average hydraulic gradient across the Unocal site on April 22, 1993, was approximately 0.007.

ANALYTICAL RESULTS

The ground water samples collected from the Unocal wells 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, and benzene, toluene, xylenes, and ethylbenzene by EPA method 8020. The ground water sample collected from well MW5 was also analyzed for methyl tert butyl ether (MTBE) by EPA method 8020/modified.

The analytical results of all of the ground water samples collected from the Unocal wells to date are summarized in Table 3, and the ground water sample analytical results for the Chevron wells are summarized in Table 4. The concentrations of TPH as gasoline and benzene detected in the ground water samples collected this quarter from the Unocal and Chevron wells are shown on the attached Figure 2. Copies of the laboratory analytical results and the Chain of Custody documentation for the Unocal samples are attached to this report.

DISCUSSION AND RECOMMENDATIONS

Based on the analytical results for the ground water samples collected and evaluated to date from the Unocal site, and no evidence of free product or sheen in any of the Unocal wells, KEI recommends the continuation of the current quarterly ground water monitoring and sampling program, per KEI's proposal (KEI-P89-0801.P3) dated January 31, 1991, and as modified in KEI's quarterly reports (KEI-P89-0801.QR8) dated May 4, 1992, and (KEI-P89-0801.QR5) dated August 7, 1991. In addition, KEI recommends the continuation of the joint monitoring and sampling program with the nearby Chevron site.

DISTRIBUTION

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

for Thomas J. Berkins

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

Timothy R. Ross
Project Manager

/bp

Attachments: Tables 1 through 4
Location Map
Potentiometric Surface Map - Figure 1
Concentrations of Petroleum Hydrocarbons - Figure 2
Laboratory Analyses
Chain of Custody documentation

KEI-P89-0801.QR12
May 13, 1993

TABLE 1

SUMMARY OF GROUND WATER MONITORING
AND PURGING DATA

Well No.	Ground Water Elevation (feet)	Depth to Water (feet)	Product Thickness (feet)	Sheen	Water Purged (gallons)
(Monitored and Sampled on April 22, 1993)					
MW1*	505.41	15.47	0	--	0
MW2	505.19	14.98	0	No	10
MW3	505.58	14.33	0	No	10
MW4	505.82	14.30	0	No	10
MW5	505.34	15.24	0	No	10
MW6	NOT SAMPLED - WELL DRY				
MW7	505.12	14.25	0	No	10

Well #	Surface Elevation** (feet)
MW1	520.88
MW2	520.17
MW3	519.91
MW4	520.12
MW5	520.58
MW6	519.34
MW7	519.37

* Monitored only.

** The elevations of the tops of the well covers have been surveyed relative to Mean Sea Level (MSL), per the City of Livermore Benchmark No. C-18-5 (elevation = 551.77 MSL).

-- Sheen determination was not performed.

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TABLE 2

SUMMARY OF MONITORING DATA
CHEVRON WELLS

Date	Well	Well Case Elevation (feet above MSL)	Ground Water Elevation (feet)	Depth to Water (feet)
4/22/93	C1	520.39	504.14	16.25
	C2	520.76	507.83	12.93
	C3	521.31	508.70	12.61
	C5	520.82	508.70	12.12
	C6	519.62	508.30	11.32
	C7	520.30	508.46	11.84
	C8	519.74	507.67	12.07
	C9	519.72	508.29	11.43
	C10	520.41	506.67	13.74
	C11	520.04	507.10	12.94
	C12	519.82	506.61	13.21
	C13	522.24	509.08	13.16
	C14	520.08	507.98	12.10
	C15	522.41	508.81	13.60
	C16	519.68	507.38	12.30
	C17	520.82	507.52	13.30
	C18	518.96	506.38	12.58
	C19	520.99	506.81	14.18

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TABLE 3

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Sample Well #	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Xylenes	Ethyl-benzene	MTBE
4/22/93	MW2 DTW N.M.	--	49,000	150	1,000	18,000	3,000	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4 14.30	--	1,100	8.8	1.0	6.0	7.2	--
	MW5 15.24	--	94	1.2	ND	1.3	ND	0.82
	MW6	WELL WAS DRY						
	MW7	--	ND	ND	ND	ND	ND	--
1/14/93	MW2 14.71	--	19,000	75	430	8,400	900	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4 14.05	--	920	ND	6.3	3.9	12	--
	MW5 15.00	--	91	ND	0.53	11	1.2	1.2
	MW6	WELL WAS DRY						
	MW7	--	ND	ND	ND	ND	ND	--
10/16/92	MW2 16.44	--	290	2.3	ND	15	5.1	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4 15.78	--	300	2.1	ND	13	4.8	--
	MW5 16.70	--	180	7.8	1.1	6.4	17	2.0
	MW6	WELL WAS DRY						
	MW7	--	ND	ND	ND	ND	ND	--
7/07/92	MW2 15.67	--	44,000	160	1,100	17,000	1,000	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4 15.07	--	340	ND	2.2	2.4	2.4	--
	MW5 16.17	--	76	0.48	1.1	1.3	0.32	1.5
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	--	ND	ND	ND	ND	ND	--
4/06/92	MW2 15.50	--	760	6.3	2.1	130	ND	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4 14.63	--	660	1.3	3.8	4.1	2.9	--
	MW5 15.62	--	240♦	ND	ND	ND	0.35	--
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	--	ND	ND	ND	ND	ND	--
1/14/92	MW2 15.55	--	5,600	36	120	2,600	450	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4 14.65	--	1,500	4.2	7.1	9.2	18	--
	MW5 15.60	--	99	1.0	1.2	0.32	ND	--
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	--	ND	ND	ND	ND	ND	--

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TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Sample Well #	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Xylenes	Ethyl-benzene	MTBE
10/14/91	MW2	--	11,000	79	130	4,700	660	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4	--	880	3.8	2.2	5.8	8.6	--
	MW5	--	660	55	4.4	66	50	--
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	--	ND	ND	ND	ND	ND	--
7/10/91	MW1*	ND	ND	ND	ND	ND	ND	--
	MW2	--	14,000	70	160	5,400	570	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4	--	830	8.4	19	7.2	7.7	--
	MW5	--	220	5.1	8.7	9.7	9.1	--
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	--	ND	ND	ND	ND	ND	--
4/10/91	MW1*	ND	ND	ND	ND	ND	ND	--
	MW2	--	22,000	170	190	6,200	490	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4	--	950	0.84	4.3	5.0	9.6	--
	MW5	--	630	35	14	30	47	--
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	--	ND	ND	ND	ND	ND	--
12/24/90	MW1*	ND	ND	ND	ND	0.40	ND	--
	MW2	--	32,000	440	340	13,000	460	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4	--	1,400	ND	8.7	10	15	--
9/07/90	MW1*	ND	ND	ND	1.2	ND	ND	--
	MW2	--	ND	ND	1.5	ND	ND	--
	MW3	--	1,100	11	ND	16	6.6	--
	MW4	--	15,000	100	140	4,600	210	--
6/05/90	MW1*	ND	ND	ND	ND	ND	ND	--
	MW2	--	31,000	250	460	9,200	950	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4	--	1,400	1.2	4.7	12	24	--
3/08/90	MW1**	ND	ND	ND	ND	ND	ND	--
	MW2	--	26,000	230	410	2,100	1,300	--
	MW3	--	ND	ND	ND	ND	ND	--
	MW4	--	1,200	18	8.4	28	37	--

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TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Sample Well #	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Xylenes	Ethyl-benzene	MTBE
11/18/89	MW1***	400	ND	ND	ND	ND	ND	--
	MW2	--	53,000	540	500	22,000	130	--
	MW3	--	ND	0.35	ND	ND	ND	--
	MW4	--	990	9.8	10	4.7	7.1	--

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

* TOG and all EPA method 8010 constituents were non-detectable.

** TOG showed 4.7 ppm. All EPA method 8010 compounds were non-detectable.

*** TOG showed 3.1 ppm. All EPA method 8010 compounds were non-detectable, except for trichloroethene at 0.55 ppb.

ND = Non-detectable.

-- Indicates analysis was not performed.

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

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TABLE 4

SUMMARY OF LABORATORY ANALYSES
CHEVRON WELLS

Well #	TPH as Gasoline	Benzene	Toluene	Xylenes	Ethylbenzene
		(Sampled on April 22, 1993, by GTI)			
C-1	18,000	26	44	330	580
C-2	2,000	12	12	29	28
C-3	ND	ND	ND	ND	ND
C-4	WELL DESTROYED				
C-5	2,300	220	18	65	120
C-6	20,000	29	170	2,400	640
C-7	3,800	130	18	36	43
C-8	68	ND	0.6	0.8	0.6
C-9	7,300	60	40	98	68
C-10	ND	ND	ND	ND	ND
C-11	ND	0.8	ND	ND	ND
C-12	ND	ND	ND	ND	ND
C-13	ND	ND	ND	ND	ND
C-14	17,000	840	2,300	3,500	130
C-15	ND	ND	ND	ND	ND
C-16	850	46	ND	6	24
C-17	8,900	16	68	97	44
C-18	ND	ND	ND	ND	ND
C-19	250	0.6	1	1	1
		(Sampled on January 14, 1993, by GTI)			
C-1	2,000	24	ND	62	98
C-2	1,800	49	50	29	31
C-3	120	ND	ND	1.3	ND
C-4	WELL DESTROYED				
C-5	2,300	13	ND	10	110
C-6	19,000	ND	25	980	460
C-7	7,800	160	33	210	380
C-8	120	ND	1.6	3.5	1.0
C-9	2,200	ND	ND	77	27
C-10	88	4.7	ND	1.6	2.3
C-11	94	ND	1.3	6.0	0.7
C-12	65	ND	ND	1.7	ND
C-13	100	ND	ND	1.3	ND
C-14	27,000	220	790	2,700	220
C-15	61	ND	1.9	5.1	0.8
C-16	740	24	ND	21	36
C-17	3,500	9.3	9.1	34	23
C-18	56	ND	ND	1.8	ND
C-19	100	1.1	ND	0.9	0.9

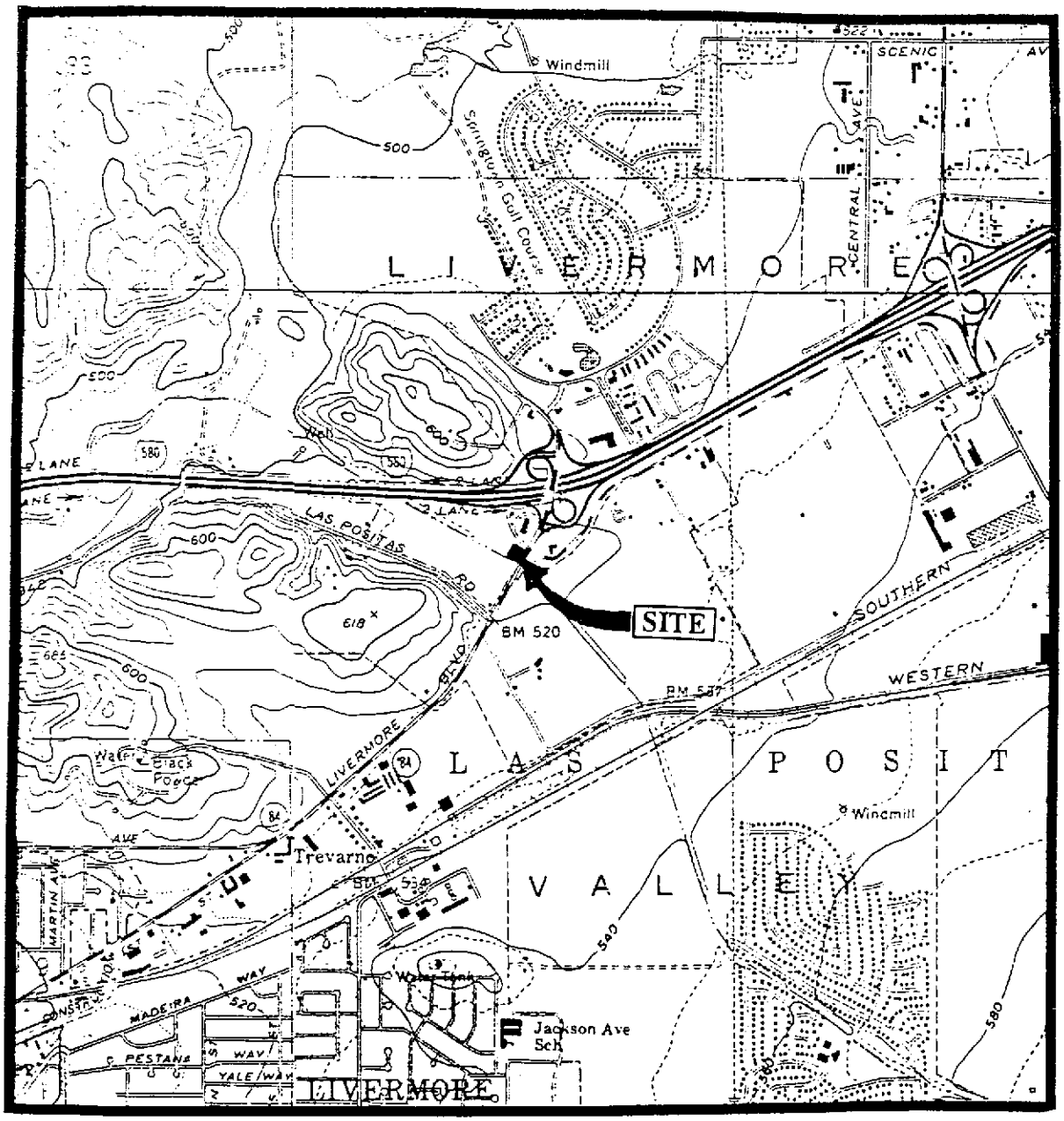
KEI-P89-0801.QR12
May 13, 1993

TABLE 4 (Continued)

SUMMARY OF LABORATORY ANALYSES
CHEVRON WELLS

ND = Non-detectable.

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

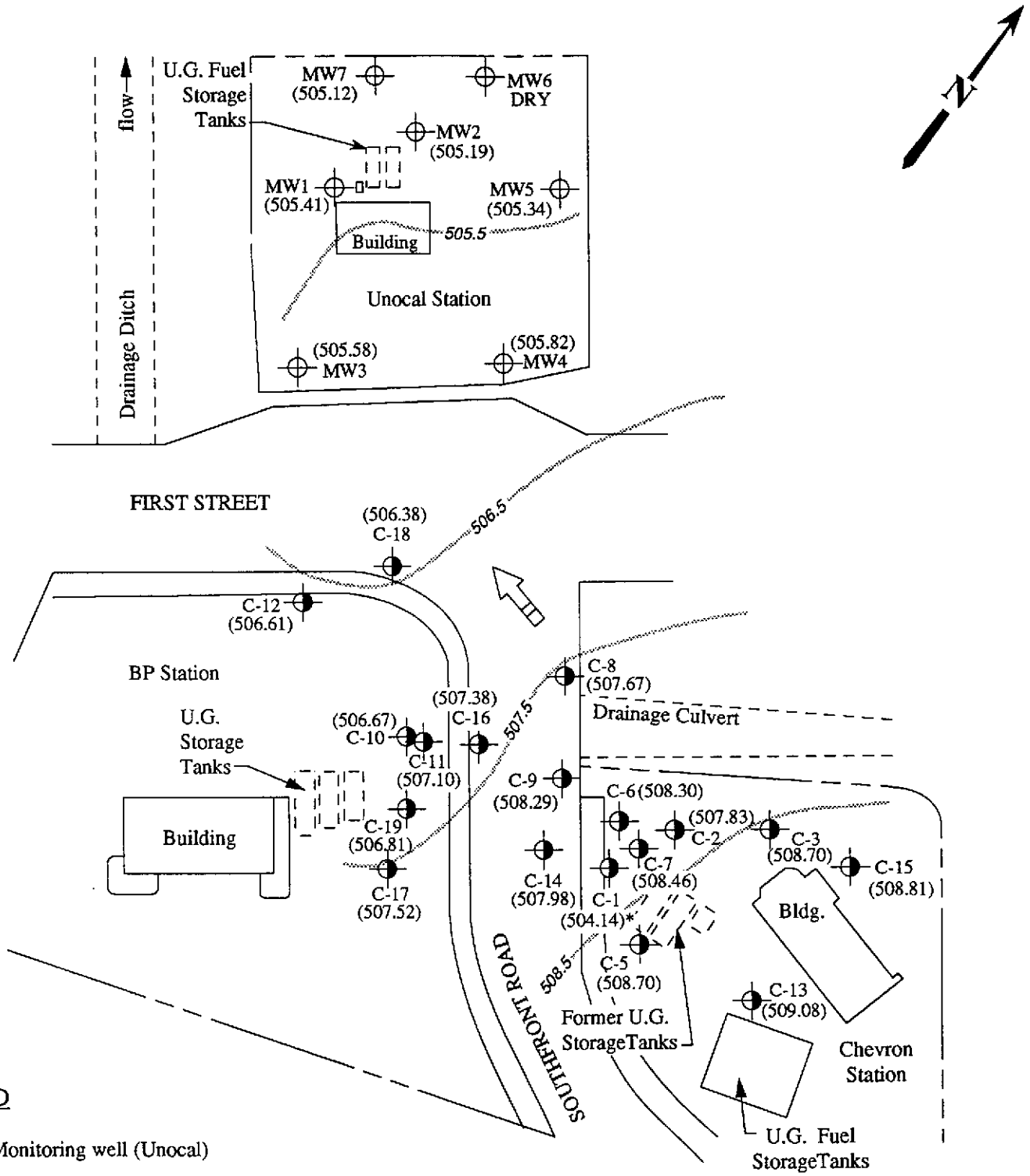


Base modified from 7.5 minute U.S.G.S. Livermore and Altamont Quadrangles (photorevised 1980 and 1981, respectively)

0 2000 4000

Approx. scale feet

KAPREALIAN ENGINEERING INCORPORATED	**UNOCAL SERVICE STATION # 6034** **4700 FIRST STREET** **LIVERMORE, CA**	**LOCATION MAP**



LEGEND

- Monitoring well (Unocal)
- Monitoring well (Chevron)
- ( ) Ground water elevation in feet above Mean Sea Level
- Direction of ground water flow
- Contours of ground water elevation
- * Ground water elevation not used for contours.

0 80 160

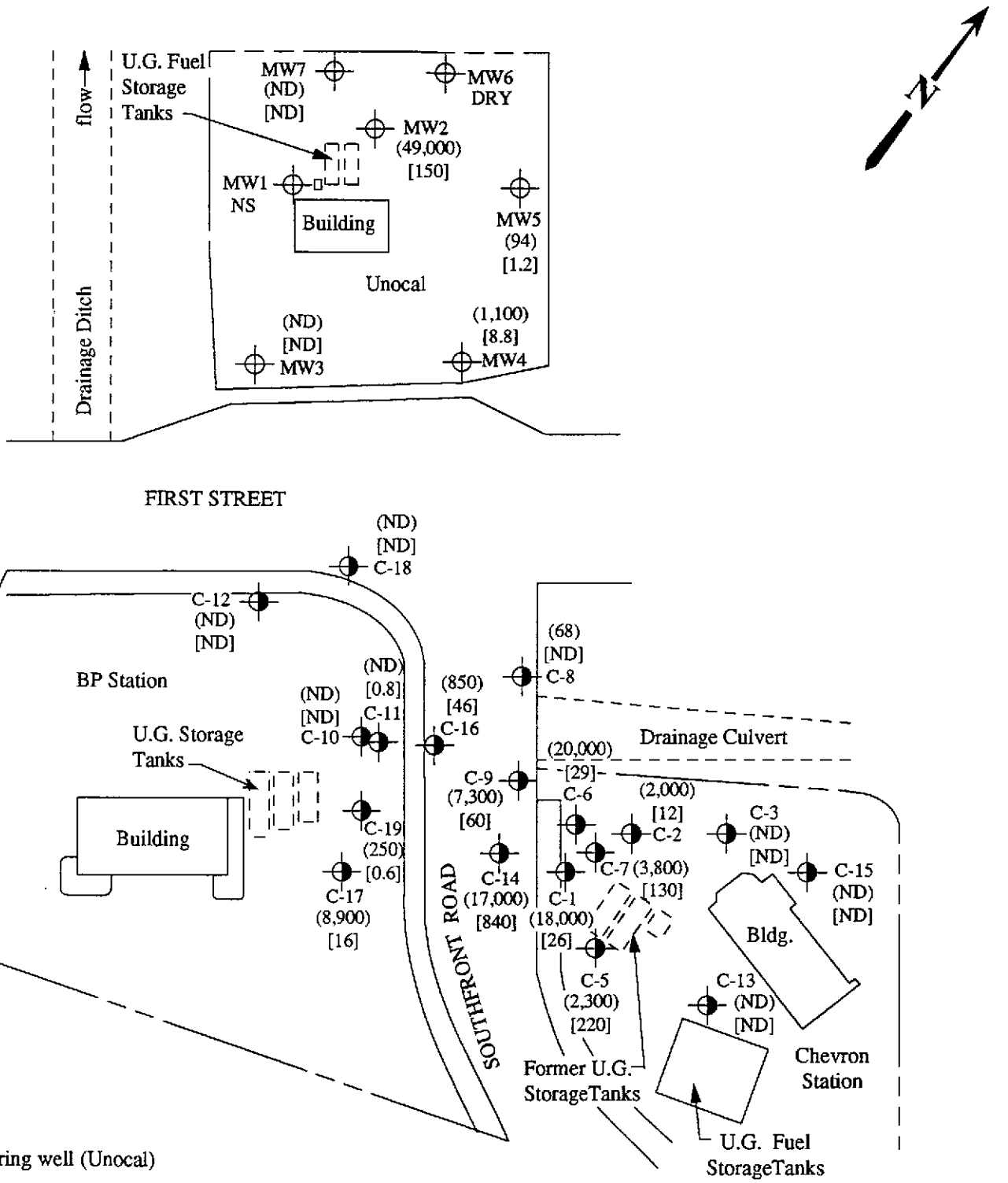
Approx. scale feet

POTENTIOMETRIC SURFACE MAP FOR THE APRIL 22, 1993 JOINT MONITORING EVENT

KAPREALIAN ENGINEERING INCORPORATED

UNOCAL SERVICE STATION # 6034
4700 FIRST STREET
LIVERMORE, CA

FIGURE **1**



PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON APRIL 22, 1993

KAPREALIAN ENGINEERING INCORPORATED

UNOCAL SERVICE STATION # 6034
4700 FIRST STREET
LIVERMORE, CA

FIGURE **2**

SEQUOIA ANALYTICAL

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

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, 4700 1st St., Livermore	Sampled:	Apr 22, 1993
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Water	Received:	Apr 22, 1993
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported:	Apr 30, 1993
Attention: Mardo Kaprealian, P.E.	First Sample #:	304-0991		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 304-0991 MW-2	Sample I.D. 304-0992 MW-3	Sample I.D. 304-0993 MW-4	Sample I.D. 304-0994 MW-5	Sample I.D. 304-0995 MW-7	Sample I.D. Matrix Blank
Purgeable Hydrocarbons	50	49,000	N.D.	1,100	94	N.D.	
Benzene	0.5	150	N.D.	8.8	1.2	N.D.	
Toluene	0.5	1,000	N.D.	1.0	N.D.	N.D.	
Ethyl Benzene	0.5	3,000	N.D.	7.2	N.D.	N.D.	
Total Xylenes	0.5	18,000	N.D.	6.0	1.3	N.D.	
Chromatogram Pattern:		Gasoline	--	Gasoline	Gasoline	--	

Quality Control Data

Report Limit Multiplication Factor:	100	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	4/28/93	4/26/93	4/26/93	4/26/93	4/26/93	4/26/93
Instrument Identification:	HP-5	HP-2	HP-2	HP-2	HP-2	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	99	101	129	106	104	121

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

SEQUOIA ANALYTICAL

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

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, 4700 1st St., Livermore	Sampled:	Apr 22, 1993
2401 Stanwell Dr., Ste. 400	Sample Descript:	Water	Received:	Apr 22, 1993
Concord, CA 94520	Analysis for:	MTBE (EPA 8020 - Modified)		
Attention: Mardo Kaprealian, P.E.	First Sample #:	304-0994	Analyzed:	Apr 26, 1993
			Reported:	Apr 30, 1993

LABORATORY ANALYSIS FOR: MTBE (EPA 8020 - Modified)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L
304-0994	MW-5	0.60	0.82

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

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

SEQUOIA ANALYTICAL

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

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, 4700 1st St., Livermore
2401 Stanwell Dr., Ste. 400	Matrix:	Water
Concord, CA 94520		
Attention: Mardo Kaprealian, P.E.	QC Sample Group	3040991-995

Reported: Apr 30, 1993

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J.F.	J.F.	J.F.	J.F.
Conc. Spiked:	20	20	20	60
Units:	µg/L	µg/L	µg/L	µg/L
LCS Batch#:	1LCS042693	1LCS042693	1LCS042693	1LCS042693
Date Prepared:	4/26/93	4/26/93	4/26/93	4/26/93
Date Analyzed:	4/26/93	4/26/93	4/26/93	4/26/93
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	118	117	116	132
Control Limits:	70-130	70-130	70-130	70-130
MS/MSD Batch #:	3040993	3040993	3040993	3040993
Date Prepared:	4/26/93	4/26/93	4/26/93	4/26/93
Date Analyzed:	4/26/93	4/26/93	4/26/93	4/26/93
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Matrix Spike % Recovery:	85	100	125	105
Matrix Spike Duplicate % Recovery:	85	115	105	116
Relative % Difference:	0.0	14	9.1	10

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.

KAPREALIAN ENGINEERING
INCORPORATED

CHAIN OF CUSTODY

SAMPLER: JOE

WITNESSING AGENCY:

SITE NAME & ADDRESS: Unocal / Livermore
4700 1st st.

ANALYSES REQUESTED: TPHG BTXE; MTBE

TURN AROUND TIME: Regular

SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPHG BTXE	MTBE	REMARKS
MW-2	4/21/93	9:45		✓	✓		2	MW	✓		3040991 AB
MW-3	"			✓	✓		2	"	✓		992 AB
MW-4	"			✓	✓		2	"	✓		993 AB
MW-5	"			✓	✓		4	"	✓	✓	994 AD
MW-7	"	12:10		✓	✓		2	"	✓		995 AB

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Don Kaprealian	4/22/93 1700	[signature]
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] Signature — ES Title — 4/22/93 Date

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