

MPDS-UN5043-12
August 18, 1997

Tosco Marketing Company
Environmental Compliance Department
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

Attention: Ms. Tina R. Berry

RE: Quarterly Data Report
Unocal Service Station #5043
449 Hegenberger Road
Oakland, 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 July 15, 1997. Prior to sampling, the wells were purged of between 4.5 and 6 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. MPDS Services, Inc. transported the purged ground water to the Tosco 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 2. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, and benzene 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.

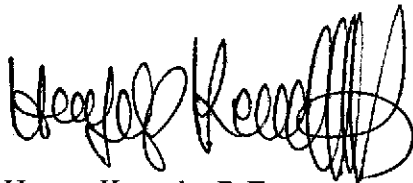
If you have any questions regarding this report, please do not hesitate to call Mr. Nubar Srabian at (510) 602-5120.

Sincerely,

MPDS Services, Inc.



Haig (Gary) Tejirian
Senior Staff Geologist



Hagop Kevork, P.E.
Senior Staff Engineer



License No. C55734
Exp. Date December 31, 2000

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

cc: Mr. Sarkis A. Soghomonian, Kaprealian Engineering, Inc.

Table 1
 Summary of Monitoring Data

Well #	Ground Water Elevation (feet)	Depth to Water (feet)*	Total Well Depth (feet)*	Product Thickness (feet)	Seen	Water Purged (gallons)
(Monitored and Sampled on July 15, 1997)						
MW3	4.33	3.71	14.09	0	No	5.5
MW6*	4.56†	4.63	12.84	0.42	N/A	0[26 oz.]
MW7‡‡	4.13	4.70	13.19	0	No	4.5
MW8‡‡	5.03	3.49	14.87	0	No	6
MW9	6.39	1.90	11.95	0	No	5.5
MW10	4.43	4.19	12.81	0	No	4.5
(Monitored and Purged on July 9, 1997)						
MW6	4.53†	4.80	★	0.60	N/A	0[32 oz.]
(Monitored and Purged on June 24, 1997)						
MW6	4.56†	4.50	★	0.25	N/A	0[32 oz.]
(Monitored and Purged on June 9, 1997)						
MW6	4.42†	4.60	★	0.20	N/A	0[30 oz.]
(Monitored and Sampled on June 1, 1997)**						
MW3	4.54	3.50	14.20	0	No	6
MW7‡‡	4.29	4.54	13.20	0	No	4.5
MW8‡‡	5.06	3.46	13.90	0	No	6
(Monitored and Sampled on May 27, 1997)**						
MW3	4.59	3.45	14.20	0	No	6
MW6*	4.56†	4.50	12.90	0.25	N/A	0[zero oz.]
MW7‡‡	4.33	4.50	13.20	0	No	4.5
MW8‡‡	5.10	3.42	13.90	0	No	6
MW9*	7.24	1.05	13.00	0	No	0
MW10*	4.22	4.40	12.90	0	No	0
(Monitored and Purged on May 15, 1997)						
MW6	4.46†	4.60	★	0.25	N/A	0[25 oz.]
(Monitored and Purged on April 28, 1997)						
MW6	4.61†	4.78	★	0.03	N/A	0[25 oz.]

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 April 15, 1997)

MW3	WELL WAS INACCESSIBLE - OBSTRUCTED WITH DEBRIS AT A DEPTH OF 1.61 FEET					
MW6*	4.76†	4.90	12.74	1.03	N/A	0.5[65 oz.]
MW9	6.41	1.88	11.98	0	No	6
MW10	4.55	4.07	12.80	0	No	6

(Monitored and Sampled on January 29, 1997)

MW3	WELL WAS INACCESSIBLE - OBSTRUCTED WITH DEBRIS AT A DEPTH OF 1.65 FEET					
MW6*	5.87†	3.24	12.75	0.31	N/A	0.25[17.5]
MW9	7.24	1.05	11.96	0	No	6.5
MW10	5.68	2.94	12.80	0	No	7

(Monitored and Sampled on October 28, 1996)

MW3	WELL WAS INACCESSIBLE (OBSTRUCTED WITH DEBRIS)§					
MW6*	4.93†	4.10	12.85	0.21	N/A	0[17.5 oz.]
MW9	7.14	1.15	11.97	0	No	6
MW10	4.53	4.09	12.79	0	No	5

Well #	Well Casing Elevation (feet)***
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MW3‡	8.04
MW6	8.87
MW7‡‡	8.83
MW8‡‡	8.52
MW9	8.29
MW10	8.62

Table 1
Summary of Monitoring Data

-
- ◆ The depth to water level and total well depth measurements were taken from the top of the well casings.
 - * Monitored only.
 - ** Data provided by Kaprealian Engineering, Inc.
 - *** The elevations of the top of the well casings are relative to Mean Sea Level (MSL), per the City of Oakland Benchmark #3880 (elevation = 20.37 feet MSL).
 - § The well was obstructed with debris at 0.55 feet. A water sample was collected but was not analyzed, as it was considered not representative of ground water in this well.
 - † The ground water elevation was corrected for the presence of free product (correction factor = 0.77).
 - ★ Total well depth was not measured.
 - ‡ Well MW3 was reconstructed in April 1997, and was resurveyed in May 1997. Prior to the May 27, 1997, monitoring and sampling event the surveyed well casing elevation of MW3 was 7.42 feet MSL.
 - ‡‡ Wells MW7 and MW8 were installed in April 1997.
 - [x] Amount of product purged.
 - Sheen determination was not performed.

N/A = Not applicable.

Table 2
 Summary of Laboratory Analyses
 Water

Well #	Date	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE
MW1	2/18/92	13,000	150,000	17,000	26,000	5,200	26,000	--
	5/20/92	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	8/31/92	8,900†	64,000	13,000	12,000	2,500	22,000	--
	11/30/92	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	2/4/93	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	5/4/93	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	8/4/93	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	11/3/93	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	2/7/94	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	5/19/94	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	8/15/94	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	11/14/94	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	2/21/95	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	5/18/95	WELL DESTROYED IN MARCH 1995						
	MW2	2/18/92	4,300	29,000	1,000	5,300	260	7,900
5/20/92		4,300†	24,000	2,200	7,600	630	11,000	--
8/31/92		1,600†	9,000	1,800	640	140	2,000	--
11/30/92		5,700†	29,000	2,000	3,400	1,200	6,900	--
2/4/93		6,100†	18,000	1,600	3,000	ND	6,900	--
5/4/93		7,100†	63,000	3,200	17,000	470	17,000	--
8/4/93		1,800††	45,000	2,100	6,600	1,400	12,000	--
11/3/93		2,600††	72,000	3,700	16,000	3,700	20,000	--
2/7/94		NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
5/19/94		3,000††	42,000	2,500	1,300	2,300	13,000	--
8/15/94		2,800††	35,000	2,400	850	1,700	15,000	--
11/14/94		10,000†	43,000	2,200	6,500	1,800	14,000	--
2/21/95		2,000††	44,000	2,200	3,200	1,300	1,500	--
5/18/95		WELL DESTROYED IN MARCH 1995						
MW3		2/18/92	ND	230	4.8	22	1.8	33
	5/20/92	WELL WAS INACCESSIBLE						
	8/31/92	92††	210**	1	ND	ND	ND	--
	11/30/92	94	790**	ND	ND	ND	ND	--
	2/4/93	550††	3,300	320	ND	96	6.1	--
	5/4/93	250††	1,800*	95	ND	ND	ND	--
	8/4/93	100	210**	ND	ND	ND	ND	--
	11/3/93	160	640**	ND	ND	ND	ND	--
	2/7/94	620††	2,700	110	ND	17	ND	--
	5/19/94	480††	1,800	83	ND	6.2	9.1	--
	8/15/94	110††	130	1.1	0.54	ND	0.97	--
	11/14/94	150††	1,600**	ND	ND	ND	ND	--
	2/21/95	850††	3,800	350	ND	130	22	--

Table 2
 Summary of Laboratory Analyses
 Water

Well #	Date	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE
MW3	5/18/95	150†	1,300*	42	ND	ND	ND	--
(Cont.)	8/17/95	WELL WAS INACCESSIBLE (FILLED WITH DIRT)						
	7/26/96	WELL WAS INACCESSIBLE (FILLED WITH DIRT)						
	10/28/96	WELL WAS INACCESSIBLE (FILLED WITH DIRT)§						
	1/29/97	WELL WAS INACCESSIBLE - OBSTRUCTED WITH DEBRIS AT A DEPTH OF 1.65 FEET						
	4/15/97	WELL WAS INACCESSIBLE - OBSTRUCTED WITH DEBRIS AT A DEPTH OF 1.61 FEET						
	5/27/97★	--	670	6.5	ND	ND	ND	250
	6/1/97★	610††	--	--	--	--	--	--
	7/15/97	240††	240	ND	ND	ND	ND	490
MW4	8/31/92	90††	240**	ND	ND	ND	0.54	--
	11/30/92	61	420**	ND	ND	ND	ND	--
	2/4/93	ND	ND	ND	ND	ND	ND	--
	5/4/93	ND	110*	0.95	ND	ND	ND	--
	8/4/93	81	250**	ND	3.5	ND	4.1	--
	11/3/93	68	130**	ND	ND	ND	ND	--
	2/7/94	ND	56**	ND	ND	ND	ND	--
	5/19/94	90††	140**	ND	ND	ND	ND	--
	8/15/94	72††	59**	ND	0.6	ND	ND	--
	11/14/94	ND	130**	ND	ND	ND	ND	--
	2/21/95	WELL DESTROYED IN JANUARY 1995						
MW5	8/31/92	690†	78	0.89	ND	ND	13	--
	11/30/92‡	470††	930	70	290	0.79	14	--
	2/4/93‡	5,500††	5,700	38	ND	620	170	--
	5/4/93‡	4,600†	7,400	41	ND	1,000	35	--
	8/4/93‡	970††	1,500	130	1	460	11	--
	11/3/93	2,100††	13,000	350	ND	3,500	530	--
	2/7/94	830††	2,000	87	ND	370	110	--
	5/19/94	600††	260	44	ND	32	4.1	--
	8/15/94	860††	1,600	110	ND	340	72	--
	11/14/94	290†	250	40	ND	ND	5	--
	2/21/95	WELL DESTROYED IN JANUARY 1995						
MW6	8/31/92	750††	ND	ND	ND	ND	ND	--
	11/30/92	1,400†	9,200	550	ND	740	1,600	--
	2/4/93	890††	3,600	340	ND	290	550	--
	5/4/93	1,800†	4,900	360	18	450	430	--
	8/4/93	1,100††	3,400	390	ND	440	190	--
	11/3/93	390††	1,400	320	ND	200	7.7	--
	2/7/94	970††	4,900	650	ND	250	35	--
	5/19/94	1,400††	3,600	300	1.7	210	41	--
	8/15/94	790††	1,300	130	6.7	54	57	--

Table 2
Summary of Laboratory Analyses
Water

Well #	Date	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE
MW6	11/14/94	800††	730	50	ND	ND	39	--
(Cont.)	2/21/95	730††	2,000	250	4.6	25	30	--
	5/18/95	WELL WAS INACCESSIBLE						
	8/17/95	WELL WAS INACCESSIBLE (PAVED OVER)						
	7/26/96	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	10/28/96	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	1/29/97	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	4/15/97	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	7/15/97	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
MW7	5/27/97★	--	68	ND	ND	ND	ND	ND
	6/1/97★	69††	--	--	--	--	--	--
	7/15/97	ND	ND	ND	ND	ND	ND	ND
MW8	5/27/97★	--	310	0.88	0.67	15	70	ND
	6/1/97★	320††	--	--	--	--	--	--
	7/15/97	ND	ND	ND	ND	2.7	3.8	ND
MW9	2/21/95	71††	70**	ND	ND	ND	ND	--
	5/18/95	ND	52	ND	1.1	ND	1.9	--
	8/17/95	ND	ND	ND	ND	ND	ND	--
	7/26/96	98	ND	ND	ND	ND	ND	ND
	10/28/96	99†	ND	ND	ND	ND	ND	7.6
	1/29/97	54	ND	ND	ND	ND	ND	5.4
	4/15/97	94†	ND	ND	ND	ND	ND	5.4
	7/15/97	ND	ND	ND	ND	ND	ND	ND
MW10	2/21/95	270††	1,500	250	26	9.1	160	--
	5/18/95	75†	810	520	ND	18	23	--
	8/17/95	ND	67	25	ND	2.4	ND	--
	7/26/96	ND	ND	3.7	ND	ND	ND	ND
	10/28/96	ND	ND	1.1	ND	ND	ND	ND
	1/29/97	ND	210	41	0.67	7.2	4.8	11
	4/15/97	ND	110	12	ND	0.77	ND	9.7
	7/15/97	ND	ND	2.1	ND	0.67	0.73	ND

† 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.

Table 2
Summary of Laboratory Analyses
Water

- * 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.
- ‡ Total Oil & Grease was non-detectable.
- § The well was obstructed with debris at 0.55 feet. A water sample was collected but was not analyzed as it was considered not representative of ground water in this well.
- ★ Analytical data provided by Kaprealian Engineering, Inc.

MTBE = Methyl tert butyl ether.

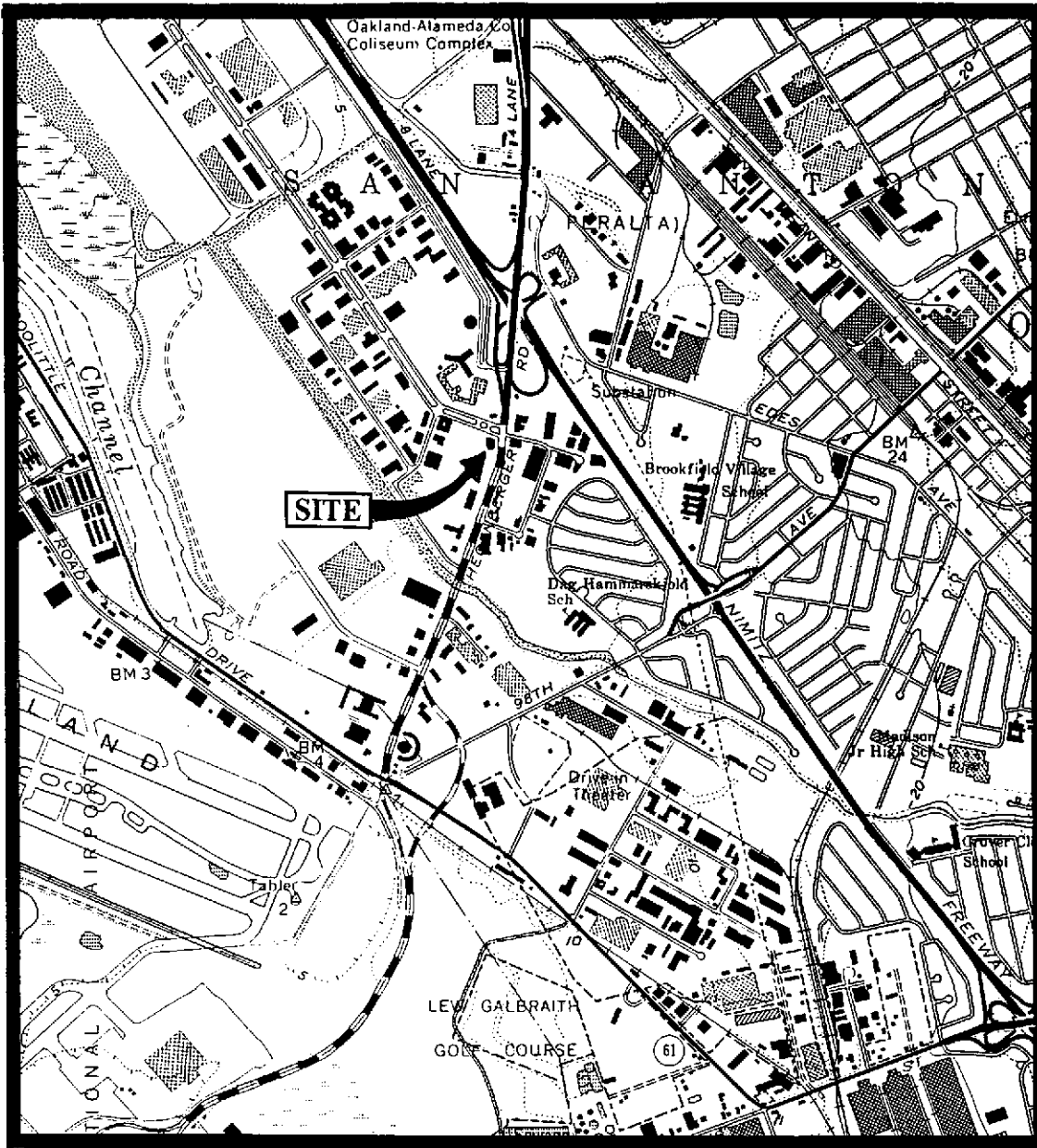
ND = Non-detectable.

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

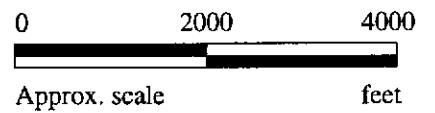
Note: The detection limit for results reported as ND by Sequoia Analytical Laboratory is equal to the stated detection limit times the dilution factor indicated on the laboratory analytical sheets.

Prior to August 1, 1995, the total purgeable petroleum hydrocarbon (TPH as gasoline) quantification range used by Sequoia Analytical Laboratory was C4 - C12. Since August 1, 1995, the quantification range used by Sequoia Analytical Laboratory is C6 - C12.

Laboratory analyses data prior to February 7, 1994, were provided by Kaprealian Engineering, Inc.



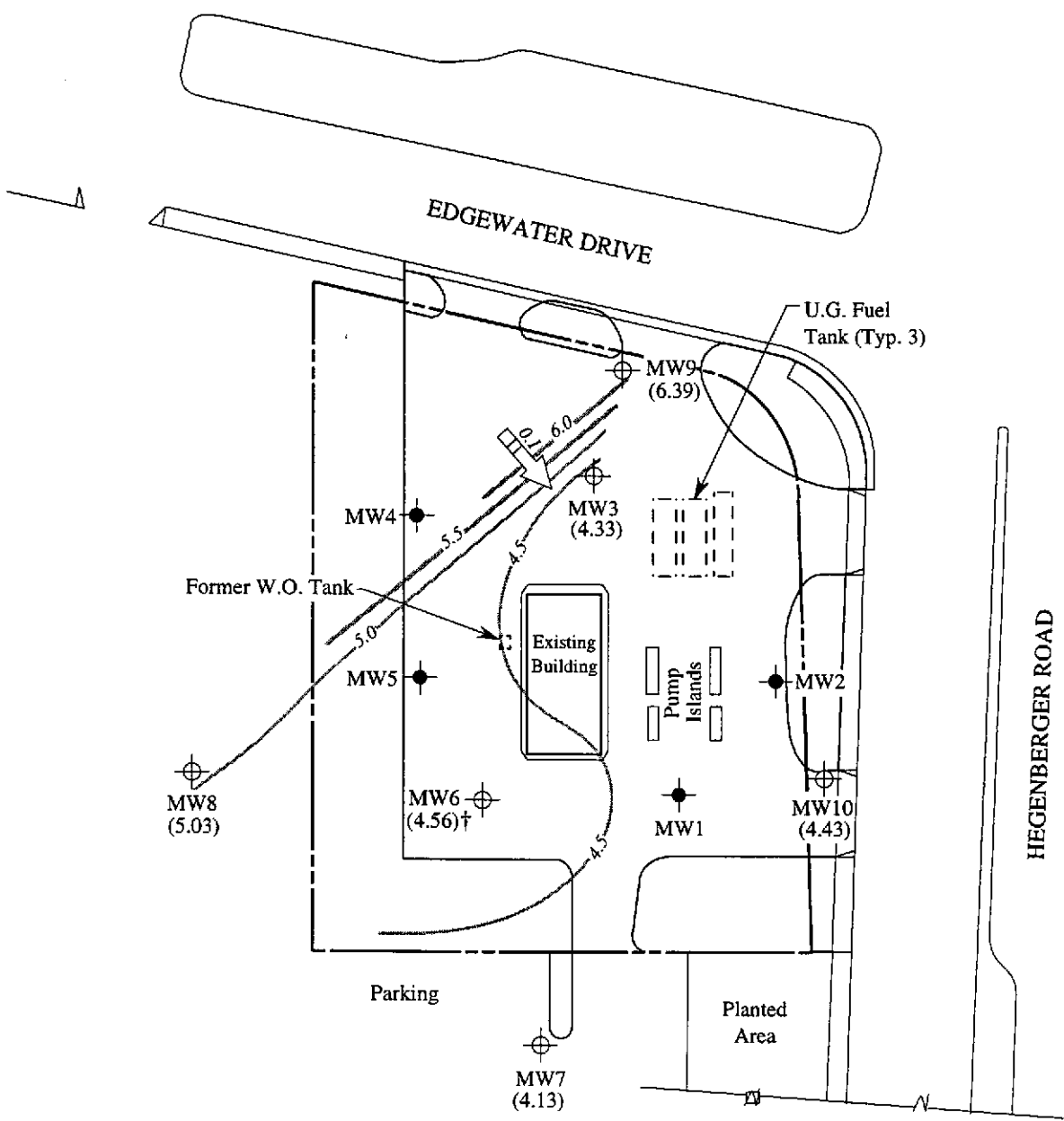
Base modified from 7.5 minute U.S.G.S. San Leandro Quadrangle
(photorevised 1980)



mpds SERVICES, INCORPORATED

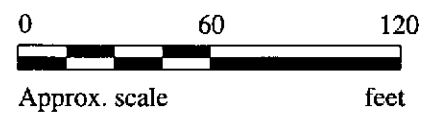
**UNOCAL SERVICE STATION #5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

**LOCATION
MAP**



LEGEND

- Monitoring well (existing)
- Monitoring well (destroyed)
- () Ground water elevation in feet above Mean Sea Level
- Direction of ground water flow with approximate hydraulic gradient
- Contours of ground water elevation
- † Ground water elevation was corrected due to the presence of free product.

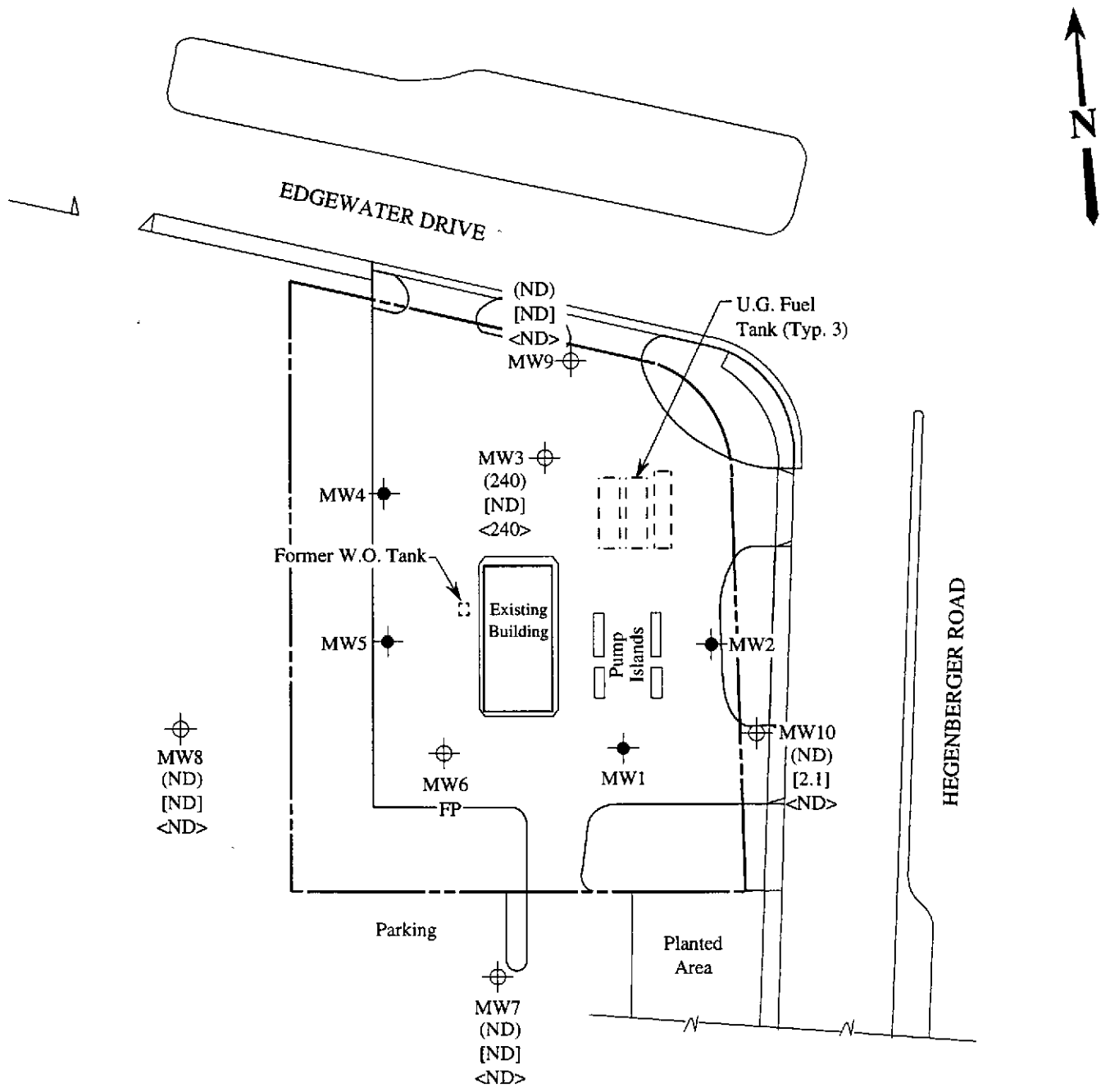


POTENTIOMETRIC SURFACE MAP FOR THE JULY 15, 1997 MONITORING EVENT



**UNOCAL SERVICE STATION #5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

**FIGURE
1**



LEGEND

- ⊕ Monitoring well (existing)
- Monitoring well (destroyed)
- () Concentrations of TPH as gasoline in µg/L
- [] Concentrations of benzene in µg/L
- < > Concentrations of TPH as diesel in µg/L
- ND Non-detectable, FP Free product



PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON JULY 15, 1997



**UNOCAL SERVICE STATION #5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

**FIGURE
2**



MPDS Services	Client Project ID: Tosco #5043, 449 Hegenberger Rd. Oakland	Sampled: Jul 15, 1997
2401 Stanwell Dr., Ste. 300	Matrix Descript: Water	Received: Jul 15, 1997
Concord, CA 94520	Analysis Method: EPA 5030/8015 Mod./8020	Reported: Jul 31, 1997
Attention: Jarrel Crider	First Sample #: 707-0889	

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
707-0889	MW-3	240	ND	ND	ND	ND
707-0890	MW-7	ND	ND	ND	ND	ND
707-0891	MW-8	ND	ND	ND	2.7	3.8
707-0892	MW-9	ND	ND	ND	ND	ND
707-0893	MW-10	ND	2.1	ND	0.67	0.73

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	Client Project ID: Tosco #5043, 449 Hegenberger Rd. Oakland	Sampled: Jul 15, 1997
2401 Stanwell Dr., Ste. 300	Matrix Descript: Water	Received: Jul 15, 1997
Concord, CA 94520	Analysis Method: EPA 5030/8015 Mod./8020	Reported: Jul 31, 1997
Attention: Jarrel Crider	First Sample #: 707-0889	

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
707-0889	MW-3	Gasoline	4.0	7/24/97	HP-2	78
707-0890	MW-7	--	1.0	7/24/97	HP-2	81
707-0891	MW-8	--	1.0	7/24/97	HP-2	77
707-0892	MW-9	--	1.0	7/24/97	HP-2	81
707-0893	MW-10	--	1.0	7/24/97	HP-2	82

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
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FAX (510) 988-9673
FAX (916) 921-0100

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

Client Project ID: Tosco #5043, 449 Hegenberger Rd. Oakland
Sample Descript: Water
Analysis for: MTBE (Modified EPA 8020)
First Sample #: 707-0889

Sampled: Jul 15, 1997
Received: Jul 15, 1997
Analyzed: Jul 24, 1997
Reported: Jul 31, 1997

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L
707-0889	MW-3	10	490
707-0890	MW-7	5.0	N.D.
707-0891	MW-8	5.0	N.D.
707-0892	MW-9	5.0	N.D.
707-0893	MW-10	5.0	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

7070889.MPD <3>





MPDS Services	Client Project ID: Tosco #5043, 449 Hegenberger Rd. Oakland	Sampled: Jul 15, 1997
2401 Stanwell Dr., Ste. 300	Sample Matrix: Water	Received: Jul 15, 1997
Concord, CA 94520	Analysis Method: EPA 3510/8015 Mod.	Reported: Jul 31, 1997
Attention: Jarrel Crider	First Sample #: 707-0889	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 707-0889 MW-3 ^	Sample I.D. 707-0890 MW-7	Sample I.D. 707-0891 MW-8	Sample I.D. 707-0892 MW-9	Sample I.D. 707-0893 MW-10
Extractable Hydrocarbons	50	240	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		Diesel & Unidentified Hydrocarbons >C20	--	--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Extracted:	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97
Date Analyzed:	7/25/97	7/25/97	7/25/97	7/25/97	7/25/97
Instrument Identification:	HP-3	HP-3	HP-3	HP-3	HP-3

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 appears to contain diesel and non-diesel mixtures. " Unidentified Hydrocarbons > C20", refers to unidentified peaks in the total oil & grease range.





MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider	Client Project ID: Tosco #5043, 449 Hegenberger Rd. Oakland Matrix: Liquid QC Sample Group: 7070889-893	Reported: Jul 31, 1997
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QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	K. Grubb

MS/MSD Batch#:	7070892	7070892	7070892	7070892	BLK072397
Date Prepared:	7/24/97	7/24/97	7/24/97	7/24/97	7/23/97
Date Analyzed:	7/24/97	7/24/97	7/24/97	7/24/97	7/25/97
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Matrix Spike % Recovery:	85	100	95	97	64
Matrix Spike Duplicate % Recovery:	85	105	100	98	73
Relative % Difference:	0.0	4.9	5.1	1.7	15

LCS Batch#:	2LCS072497	2LCS072497	2LCS072497	2LCS072497	LCS072297
Date Prepared:	7/24/97	7/24/97	7/24/97	7/24/97	7/22/97
Date Analyzed:	7/24/97	7/24/97	7/24/97	7/24/97	7/29/97
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A
LCS % Recovery:	80	95	90	93	53

% Recovery Control Limits:	60-140	60-140	60-140	60-140	60-140
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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



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

9707202

SAMPLER		TOSCO						ANALYSES REQUESTED						TURN AROUND TIME:	
STEVE BALIAN		S/S # <u>5043</u> CITY: <u>OAKLAND</u>						TPH-G/ BTEX	TPH-D	MTBE	80/0	TOG			REGULAR
WITNESSING AGENCY		ADDRESS: <u>449 HEGENBERGER ROAD</u>													REMARKS
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION								
MW-3A	7-15-97	12:50	X	X		3	WELL	X	X	X				MTBE	
MW-7	"	11:10	X	X		3	"	X	X	X				5 PPS	
MW-8	"	12:00	X	X		3	"	X	X	X					
MW-9	"	10:30	X	X		3	"	X	X	X				MW-8	
MW-10	"	13:30	X	X		3	"	X	X	X				RINSED (Hcl)	

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	THE FOLLOWING <u>MUST BE</u> COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:
STEVE BALIAN	14:10	<i>Alanna</i>	7/15/97 1410	1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? <u>Y</u>
(SIGNATURE)	7-15-97	(SIGNATURE)		2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? <u>Y</u>
(SIGNATURE)		(SIGNATURE)		3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? <u>N</u>
(SIGNATURE)		(SIGNATURE)		4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? <u>Y</u>
(SIGNATURE)		(SIGNATURE)		SIGNATURE: <i>Alanna</i> TITLE: <i>Analyst</i> DATE: <u>7/15/97</u>