MONITORING
PURGING
DISPOSING
SAMPLING

MPDS SERVICES, INCORPORATED

December 10, 1997

Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, CA 94502

Attention: Mr. Scott Seery

RE: Unocal Service Station #7376
4191 First Street
Pleasanton, California

Dear Mr. Seery:

Per the request of the Tosco Marketing Company Project Manager, Ms. Tina R. Berry, enclosed please find our data report (MPDS-UN7376-11) dated October 30, 1997, 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

97 DEC 15 AM 8:49

ENVIRONMENTAL PROTECTION

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

MONITORING
PURGING
DISPOSING
SAMPLING

MPDS SERVICES, INCORPORATED

MPDS-UN7376-11
October 30, 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 #7376
4191 First Street
Pleasanton, 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 September 29, 1997. Prior to sampling, the wells were each purged of between 1 and 4 gallons of water. During purging operations, the field parameters pH, temperature, and electrical conductivity were recorded on the purging/sampling data sheets which are attached to this report. Once the field parameters were observed to stabilize, and where possible, a minimum of approximately three 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 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 Mr. Scott Seery of 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

REGISTERED PROFESSIONAL ENGINEER
HAGOP KEVORK
No. C 55734
Exp. 12/31/00
CIVIL
STATE OF CALIFORNIA

Attachments: Tables 1 & 2
Location Map
Figures 1 & 2
Laboratory Analyses
Chain of Custody documentation
Purging/Sampling Data Sheets

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)	Sheen	Water Purged (gallons)
(Monitored and Sampled on September 29, 1997)						
MW1	286.95	80.04	86.41	0	No	3.5
MW2B	282.33	82.72	85.20	0	No	1.5
MW3	283.68	83.33	94.11	0	No	3.5
MW4	283.20	85.83	93.01	0	No	4
MW5	294.02†	69.47	72.65	0.35	N/A	0
MW6	277.10	86.02	88.00	0	No	1
(Monitored and Sampled on June 27, 1997)						
MW1	286.94	80.05	86.42	0	No	3.5
MW2B	282.65	82.40	85.26	0	No	1.5
MW3	283.74	83.27	94.12	0	No	6
MW4	289.97	79.06	93.06	0	No	7.5
MW5	295.03†	68.88	72.52	0.90	N/A	0 (18)
MW6	282.67	80.45	88.00	0	No	4
(Monitored and Sampled on March 7, 1997)						
MW1	295.50	71.49	86.40	0	No	8
MW2B	295.38	69.67	85.25	0	Yes	8
MW3	295.43	71.58	94.09	0	No	12
MW4	300.99	68.04	94.95	0	No	13.5
MW5	306.93	56.30	72.59	0	Yes	9
MW6	295.51	67.61	88.09	0	No	11
(Monitored and Sampled on December 21, 1996)						
MW1	288.03	78.96	86.43	0	No	4
MW2B	287.70	77.35	85.29	0	No	4.5
MW3	287.72	79.29	94.15	0	No	8
MW4	291.34	77.69	93.10	0	No	8
MW5	301.46	61.77	72.55	0	Yes	5.5
MW6	287.72	75.40	88.02	0	No	6.5

Table 1

Summary of Monitoring Data

Well #	Well Casing Elevation (feet)*
MW1	366.99
MW2B	365.05
MW3	367.01
MW4	369.03
MW5	363.23
MW6	363.12

(#) Product purged in ounces.

† Ground water elevation corrected for the presence of free product (correction factor = 0.75).

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

* The elevations of the top of the well casings were surveyed relative to City of Pleasanton Benchmark V1, a brass disk on the north curb of Ray Street, approximately 200 feet northwest of the centerline of First Street (elevation = 367.17 feet Mean Sea Level).

Table 2

Summary of Laboratory Analyses
Water

Well #	Date	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE
MW1	12/8/87*	2,100**	50♦	58	8	ND	10	--
	12/7/94	--	ND	ND	ND	ND	ND	--
	3/1/95	120	ND	ND	1.1	ND	1.3	--
	6/1/95	54††	130	1.0	2.9	0.79	4.5	--
	9/6/95	690	ND	ND	ND	ND	ND	§
	12/12/95	190††	ND	ND	ND	ND	ND	--
	3/1/96	56	ND	ND	ND	ND	ND	370
	6/15/96	ND	ND	ND	ND	ND	ND	270
	9/18/96	130††	ND	ND	ND	ND	ND	590
	12/21/96	ND	ND	ND	ND	ND	ND	150
	3/7/97	ND	ND	ND	ND	ND	ND	220
	6/27/97	ND	ND	ND	ND	ND	ND	17
	9/29/97	ND	ND	ND	ND	ND	ND	24
MW2	12/8/87	620**	1,800♦	910	800	260	1,200	--
	12/7/94	WELL WAS DAMAGED						
	2/7/95	WELL WAS DESTROYED						
MW2B	3/1/95	320	ND	ND	ND	ND	ND	--
	6/1/95	280	350	19	5.8	ND	7.7	--
	9/6/95	ND	ND	90	ND	ND	ND	§
	12/12/95	850†	1,200	630	ND	15	57	§§
	3/1/96	870†	1,000	620	ND	ND	5.3	4,300
	6/15/96	420	910	350	ND	ND	ND	3,700
	9/18/96	600	1,200	95	ND	ND	ND	5,200
	12/21/96	470	330‡	57	ND	ND	ND	2,900
	3/7/97	870†	190	28	0.64	ND	1.5	4,300
	6/27/97	680†	98	3.4	1.0	0.53	ND	3,100
	9/29/97	430	ND	ND	ND	ND	ND	3,000
MW3	12/8/87	2300**	24,000♦	2,600	1,300	160	660	--
	12/7/94	--	ND	ND	ND	ND	ND	--
	3/1/95	140†	ND	ND	1.1	ND	1.1	--
	6/1/95	140††	62	7.8	0.90	ND	1.6	--
	9/6/95	880††	4,100	380	490	130	710	§
	12/12/95	3,100†	19,000	600	380	2,100	5,300	§§
	3/1/96	1,500††	3,400	950	3.2	1,900	290	59
	6/15/96	400†	780	190	8.8	3.8	4.0	630
	9/18/96	170	2,800	340	12	11	110	2,500
	12/21/96	64†	51	1.3	ND	ND	0.53	20
	3/7/97	570†	1,400	53	14	29	68	220
	6/27/97	ND	ND	ND	ND	ND	ND	27
	9/29/97	ND	ND	ND	ND	ND	ND	11

Table 2

Summary of Laboratory Analyses
Water

Well #	Date	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE
MW4	9/18/96	200	160	14	ND	ND	1.6	ND
	12/21/96	ND	ND	ND	ND	ND	ND	ND
	3/7/97	ND	ND	1.9	0.99	ND	1.5	ND
	6/27/97	ND	ND	ND	ND	ND	ND	ND
	9/29/97	ND	ND	ND	ND	ND	ND	ND
MW5	9/18/96	4,700††	36,000	6,700	410	730	6,500	4,100
	12/21/96	4,700†	25,000	3,200	300	780	3,600	2,600
	3/7/97	2,100†	14,000	1,300	120	410	1,200	1,700
	6/27/97	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
	9/29/97	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						
MW6	9/18/96	ND	160	5.4	ND	ND	ND	ND
	12/21/96	ND	300‡	96	1.3	ND	1.7	21
	3/7/97	190†	1,800‡	920	18	ND	31	290
	6/27/97	73††	ND	0.73	ND	ND	38	38
	9/29/97	ND	62‡‡	ND	ND	ND	ND	43

* 1,2 - Dichloroethene was detected at a concentration of 18 µg/L.

** Reported as Total Extractable Hydrocarbons (TEH).

♦ Reported as Total Petroleum Hydrocarbons (TPH).

† 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 diesel.

‡ 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.

§ Sequoia Analytical Laboratory has potentially identified the presence of MTBE at reportable levels in the ground water sample collected from this well.

§§ Sequoia Analytical Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 µg/L in the sample collected from this well.

MTBE = Methyl tert butyl ether.

Table 2

Summary of Laboratory Analyses
Water

ND = Non-detectable.

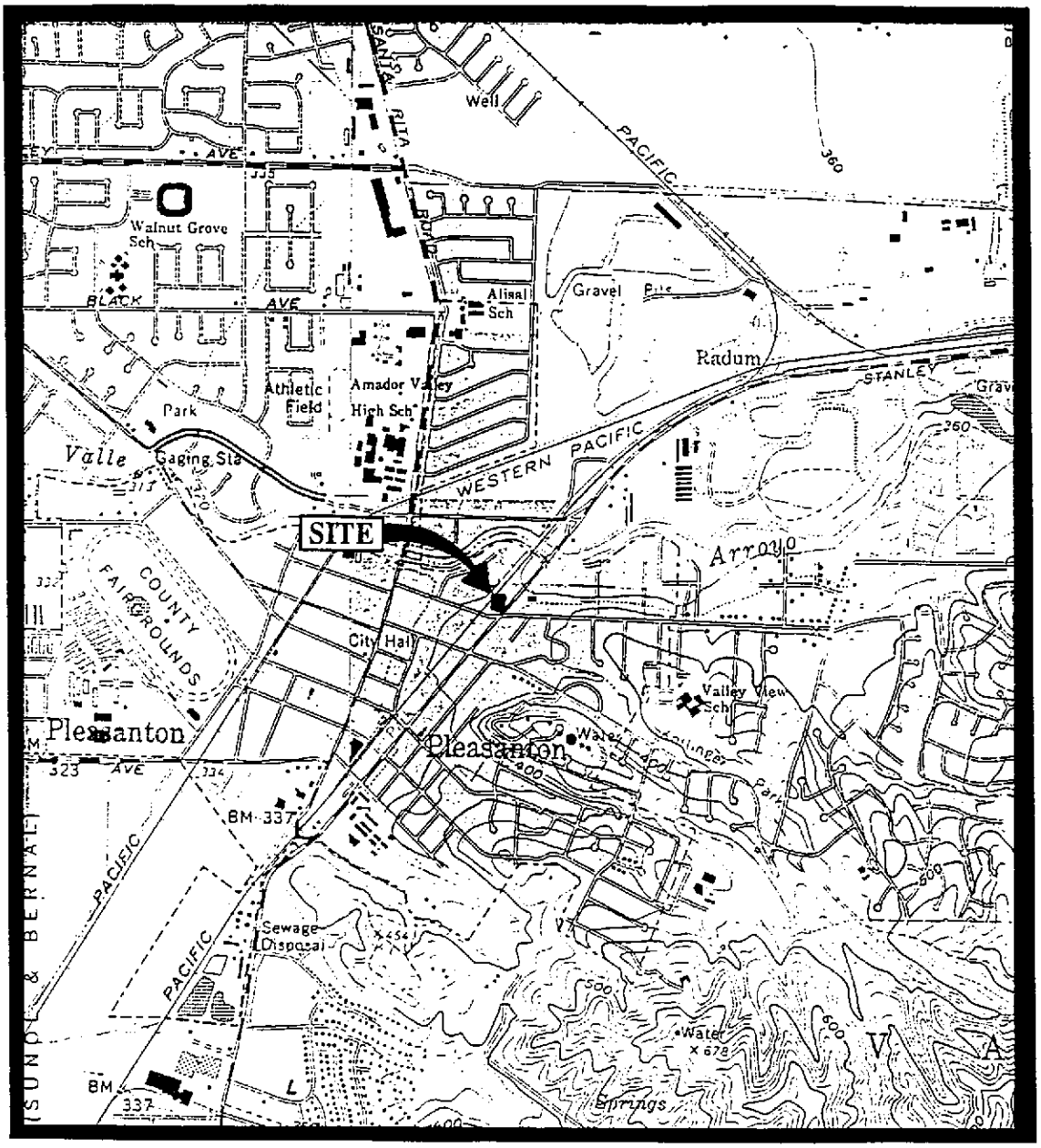
-- Indicates analysis was not performed.

Results are in micrograms per liter (µg/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 March 1, 1995 were provided by Kaprealian Engineering, Inc.

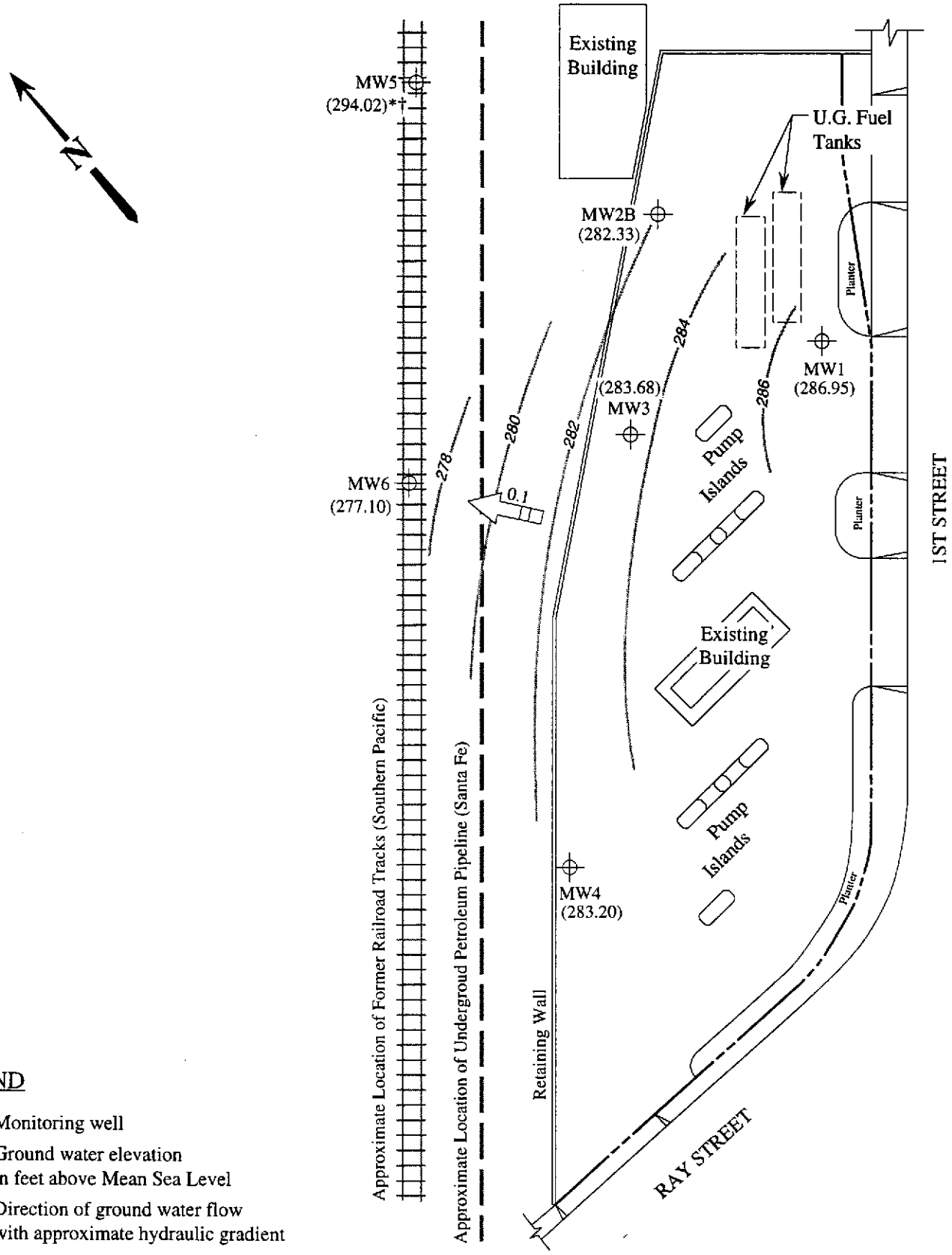


Base modified from 7.5 minute U.S.G.S. Dublin and Livermore Quadrangles
(both photorevised 1980)

0 2000 4000

Approx. scale feet

mpds SERVICES, INCORPORATED	**UNOCAL SERVICE STATION #7376** **4191 1ST STREET** **PLEASANTON, CALIFORNIA**	**LOCATION MAP**



LEGEND

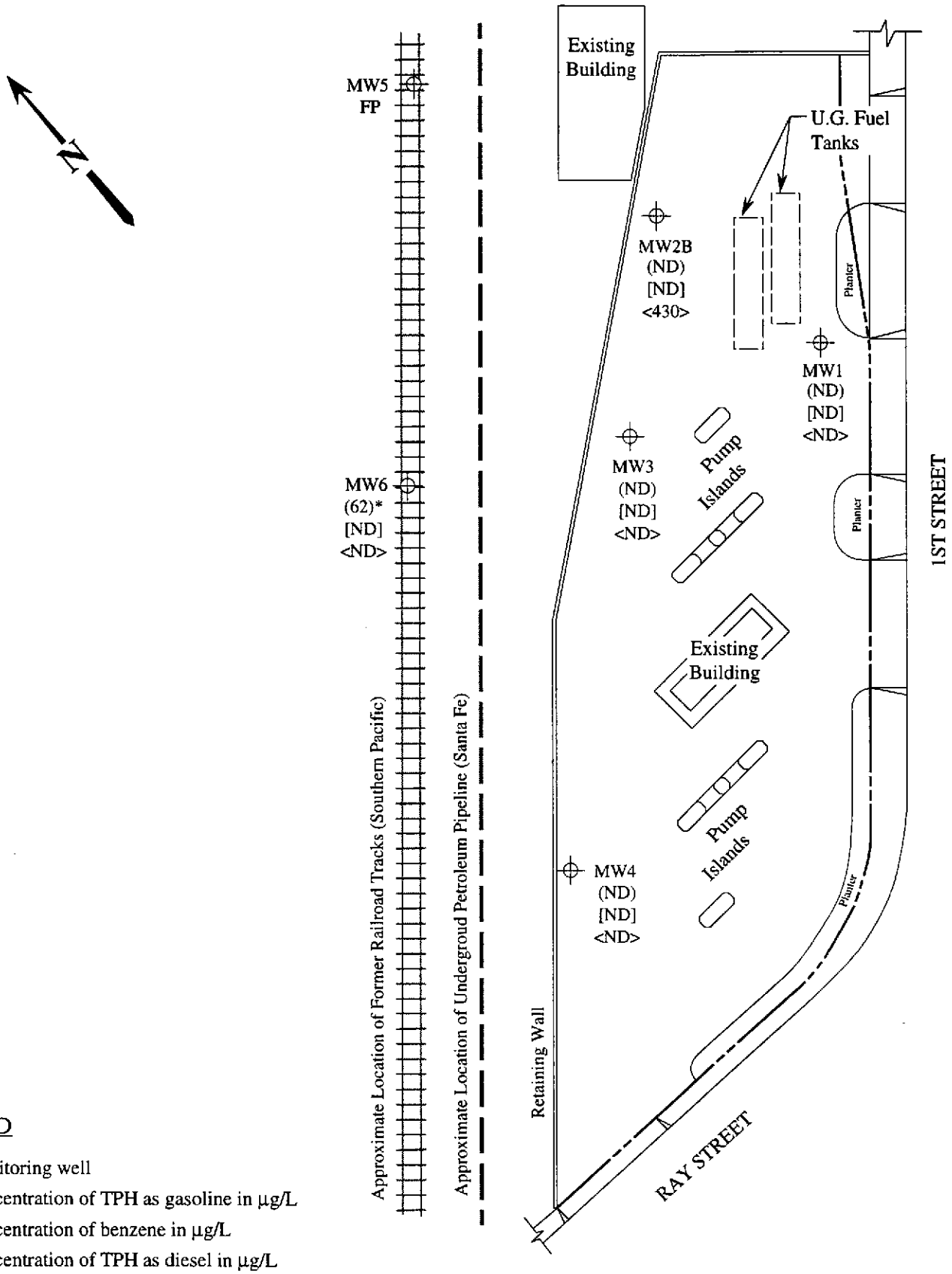
- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- #.## Direction of ground water flow with approximate hydraulic gradient
- Contours of ground water elevation

* Groundwater elevation corrected due to the presence of free product.

† Elevation was not used to calculate contours.

POTENTIOMETRIC SURFACE MAP FOR THE SEPTEMBER 29, 1997 MONITORING EVENT

mpds SERVICES, INC.	**UNOCAL SERVICE STATION #7376** **4191 1ST STREET** **PLEASANTON, CALIFORNIA**	0 40 80 Approx. scale feet	FIGURE **1**



LEGEND

- ⊕ Monitoring well
- ( ) 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, FP Free product
- * The lab reported that the hydrocarbons detected did not appear to be gasoline.

PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON SEPTEMBER 29, 1997

MPDS SERVICES, INC.	**UNOCAL SERVICE STATION #7376** **4191 1ST STREET** **PLEASANTON, CALIFORNIA**	0 40 80 Approx. scale feet	FIGURE **2**

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

MPDS Services	Client Project ID:	Unocal #7376, 4191 First St., Pleasanton	Sampled: Sep 29, 1997
2401 Stanwell Dr., Ste. 300	Matrix Descript:	Water	Received: Sep 30, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Oct 21, 1997
Attention: Jarrel Crider	First Sample #:	710-0011	

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
710-0011	MW-1	ND	ND	ND	ND	ND
710-0012	MW-2B	ND	ND	ND	ND	ND
710-0013	MW-3	ND	ND	ND	ND	ND
710-0014	MW-4	ND	ND	ND	ND	ND
710-0015	MW-6	62 *	ND	ND	ND	ND

* 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

7100011.MPD <1>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

MPDS Services	Client Project ID:	Unocal #7376, 4191 First St., Pleasanton	Sampled: Sep 29, 1997
2401 Stanwell Dr., Ste. 300	Matrix Descript:	Water	Received: Sep 30, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Oct 21, 1997
Attention: Jarrel Crider	First Sample #:	710-0011	

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
710-0011	MW-1	--	1.0	10/17/97	HP-5	125
710-0012	MW-2B	--	10	10/13/97	HP-2	113
710-0013	MW-3	--	1.0	10/13/97	HP-2	107
710-0014	MW-4	--	1.0	10/13/97	HP-2	102
710-0015	MW-6	Discrete Peaks <C6 *	1.0	10/13/97	HP-2	102

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

Please Note:
*"Discrete Peaks" refers to unidentified peaks in the EPA 8010 range.

7100011.MPD <2>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

MPDS Services	Client Project ID:	Unocal #7376, 4191 First St., Pleasanton	Sampled:	Sep 29, 1997
2401 Stanwell Dr., Ste. 300	Sample Descript:	Water	Received:	Sep 30, 1997
Concord, CA 94520	Analysis for:	MTBE (Modified EPA 8020)		
Attention: Jarrel Crider	First Sample #:	710-0011	Analyzed:	Oct 13 - 17, 97
			Reported:	Oct 21, 1997

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L
710-0011	MW-1	5.0	24
710-0012	MW-2B	25	3,000
710-0013	MW-3	5.0	11
710-0014	MW-4	5.0	N.D.
710-0015	MW-6	5.0	43

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

7100011.MPD <3>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

MPDS Services	Client Project ID:	Unocal #7376, 4191 First St., Pleasanton	Sampled: Sep 29, 1997
2401 Stanwell Dr., Ste. 300	Sample Matrix:	Water	Received: Sep 30, 1997
Concord, CA 94520	Analysis Method:	EPA 3510/8015 Mod.	Reported: Oct 21, 1997
Attention: Jarrel Crider	First Sample #:	710-0011	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 710-0011 MW-1	Sample I.D. 710-0012 MW-2B	Sample I.D. 710-0013 MW-3	Sample I.D. 710-0014 MW-4	Sample I.D. 710-0015 MW-6
Extractable Hydrocarbons	50	N.D.	430	N.D.	N.D.	N.D.
Chromatogram Pattern:		--	Diesel	--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Extracted:	10/6/97	10/6/97	10/6/97	10/6/97	10/6/97
Date Analyzed:	10/9/97	10/8/97	10/9/97	10/10/97	10/10/97
Instrument Identification:	HP-3A	HP-3B	HP-3A	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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

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

Client Project ID: Unocal #7376, 4191 First St., Pleasanton
Matrix: Liquid
QC Sample Group: 7100011-015

Reported: Oct 21, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Diesel
Method:	EPA 8015M
Analyst:	A. Kemp
MS/MSD Batch#:	-
Date Prepared:	-
Date Analyzed:	-
Instrument I.D.#:	-
Conc. Spiked:	-
Matrix Spike % Recovery:	-
Matrix Spike Duplicate % Recovery:	-
Relative % Difference:	6.9
LCS Batch#:	LCS100697
Date Prepared:	10/6/97
Date Analyzed:	10/6/97
Instrument I.D.#:	HP-3A
LCS % Recovery:	91
% Recovery Control Limits:	60-140

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
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

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

Client Project ID: Unocal #7376, 4191 First St., Pleasanton
Matrix: Liquid
QC Sample Group: 7100011-015

Reported: Oct 21, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD Batch#:	7092396	7092396	7092396	7092396
Date Prepared:	10/13/97	10/13/97	10/13/97	10/13/97
Date Analyzed:	10/13/97	10/13/97	10/13/97	10/13/97
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:	100	105	105	110
Matrix Spike Duplicate % Recovery:	100	105	105	112
Relative % Difference:	0.0	0.0	0.0	1.5
LCS Batch#:	2LCS101397	2LCS101397	2LCS101397	2LCS101397
Date Prepared:	10/13/97	10/13/97	10/13/97	10/13/97
Date Analyzed:	10/13/97	10/13/97	10/13/97	10/13/97
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	95	95	95	102
% Recovery Control Limits:	70-130	70-130	70-130	70-130

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
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

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

Client Project ID: Unocal #7376, 4191 First St., Pleasanton
Matrix: Liquid
QC Sample Group: 7100011-015

Reported: Oct 21, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD Batch#:	7100581	7100581	7100581	7100581
Date Prepared:	10/17/97	10/17/97	10/17/97	10/17/97
Date Analyzed:	10/17/97	10/17/97	10/17/97	10/17/97
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:	90	95	95	98
Matrix Spike Duplicate % Recovery:	90	95	95	98
Relative % Difference:	0.0	0.0	0.0	0.0
LCS Batch#:	4LCS101797	4LCS101797	4LCS101797	4LCS101797
Date Prepared:	10/17/97	10/17/97	10/17/97	10/17/97
Date Analyzed:	10/17/97	10/17/97	10/17/97	10/17/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
LCS % Recovery:	90	95	95	98
% Recovery Control Limits:	70-130	70-130	70-130	70-130

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.

CHAIN OF CUSTODY

SAMPLER	TOSCO S/S # 7376 CITY: Pleasanton	ANALYSES REQUESTED	TURN AROUND TIME:
VARTKES TASHJIAN	ADDRESS: 4191 First st.		Regular
WITNESSING AGENCY			

SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPHG + BTEX	MTBE	TPHD						REMARKS
MW 1	9/29/97	1:20 PM	X	X		2 VOAs 1 Amber	well	X	X	X	7100011					MTBE: 5ppb.
MW 2 R	"	3:05 PM	X	X		"	"	X	X	X	7100012					
MW 3	"	2:03 PM	X	X		"	"	X	X	X	7100013					
MW 4	"	12:58 PM	X	X		"	"	X	X	X	7100014					
MW 6	"	2:55 PM	X	X		"	"	X	X	X	7100015					

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
(SIGNATURE)	9/29/97 4:20PM	(SIGNATURE)	9/29/97 1620
(SIGNATURE)		(SIGNATURE)	(330 9-30
(SIGNATURE)	9-30	(SIGNATURE)	9/30/97 1450
(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: 9/29/97

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.

MPDS Services Inc.
2401 Stanwell Drive
Concord, California 94520

Tel: (510) 602-5120
Fax: (510) 689-1918

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: #7376 Pleasanton
4141 First St.

DATE & TIME SAMPLED 9/29/97 1120 A.M. (P.M.)

FIELD TECHNICIAN Matthew

PURGE METHOD Pump

DATE(S) PURGED 9/29/97

WELL NUMBER MW 1

WATER LEVEL-**INITIAL** 80.04

SAMPLING METHOD Bail

WATER LEVEL-**FINAL** 80.11

CONTAINERS 3

WELL DEPTH 86.41

PRESERVATIVES VOA' HCl

WELL CASING VOLUME 1.08

†CASING DIAMETER 2"

TIME	GALLONS PURGED	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (µmhos/cmx100) or µS/cm	pH
12:56	0	74.3	5.03	7.88
	1	70.8	4.95	7.69
	2	70.5	4.90	7.58
1:01	3.5	70.3	4.83	7.53

† Conversion Factors:

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.60
12"	5.87

S = Siemens = mhos

Stabilization Criteria:
Temperature = ± 1 °F
Conductivity = ± 10% of total
pH = ± 0.2

R&S

MPDS Services Inc.
2401 Stanwell Drive
Concord, California 94520

Tel: (510) 602-5120
Fax: (510) 689-1918

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: #7376 - Pleasanton
4191 First st.

DATE & TIME SAMPLED 9/29/92 3:05 A.M. (P.M.)

FIELD TECHNICIAN Vartkis

PURGE METHOD Bail

DATE(S) PURGED 9/29/92

WELL NUMBER MW2B

WATER LEVEL-**INITIAL** 82.72

SAMPLING METHOD Bail

WATER LEVEL-**FINAL** 82.75

CONTAINERS 3

WELL DEPTH 85.26

PRESERVATIVES VOA's HCl

WELL CASING VOLUME 0.43

†CASING DIAMETER 2"

TIME	GALLONS PURGED	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (µmhos/cmx100) or µS/cm	pH
2:45	0	71.8	4.60	7.70
	.5	70.3	4.47	7.50
	1	70.0	4.38	7.37
2:58	1.5	69.9	4.31	7.29

† Conversion Factors:

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.60
12"	5.87

S = Siemens = mhos

Stabilization Criteria:
Temperature = ± 1 °F
Conductivity = ± 10% of total
pH = ± 0.2

MPDS Services Inc.
2401 Stanwell Drive
Concord, California 94520

Tel: (510) 602-5120
Fax: (510) 689-1918

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: #7376 - Pleasanton
4191 First st.

DATE & TIME SAMPLED 9/29/97 2:03 A.M. (P.M.)

FIELD TECHNICIAN Vaithe,

PURGE METHOD Pump.

DATE(S) PURGED 9/29/97

WELL NUMBER MW 3

WATER LEVEL-**INITIAL** 83.33

SAMPLING METHOD Bail

WATER LEVEL-**FINAL** 83.39

CONTAINERS 3

WELL DEPTH 94.11

PRESERVATIVES VOA's HCl

WELL CASING VOLUME 1.83

†CASING DIAMETER 2"

TIME	GALLONS PURGED	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (µmhos/cmx100) or µS/cm	pH
1:38	0	75.2	5.35	7.83
	2	71.0	5.23	7.65
	3	70.8	5.17	7.59
1:43	3.1-	Pump	Broke.	

† Conversion Factors:

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.60
12"	5.87

S = Siemens = mhos

Stabilization Criteria:
Temperature = ± 1 °F
Conductivity = ± 10% of total
pH = ± 0.2

MPDS Services Inc.
2401 Stanwell Drive
Concord, California 94520

Tel: (510) 602-5120
Fax: (510) 689-1918

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: # 7376 - Pleasanton
4191 First St.

DATE & TIME SAMPLED 9/29/97 12:38 A.M. (P.M.)

FIELD TECHNICIAN Matthews

PURGE METHOD Pump.

DATE(S) PURGED 9/29/97

WELL NUMBER MW 4

WATER LEVEL-**INITIAL** 85.83

SAMPLING METHOD Bail

WATER LEVEL-**FINAL** 86.17

CONTAINERS 3

WELL DEPTH 93.01

PRESERVATIVES VOA's HCl

WELL CASING VOLUME 1.27

†CASING DIAMETER 2"

TIME	GALLONS PURGED	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (µmhos/cmx100) or µS/cm	pH
12:15	0	67.0	5.14	7.90
	1	67.8	5.39	7.73
	2.5	68.3	5.50	7.60
12:20	4	68.5	5.63	7.51

† Conversion Factors:

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.60
12"	5.87

S = Siemens = mhos

Stabilization Criteria:
Temperature = ± 1 °F
Conductivity = ± 10% of total
pH = ± 0.2

P&S

MPDS Services Inc.
2401 Stanwell Drive
Concord, California 94520

Tel: (510) 602-5120
Fax: (510) 689-1918

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: #7376 - Pleasanton
4191 First st.

DATE & TIME SAMPLED 9/29/92 2135 A.M. (P.M.)

FIELD TECHNICIAN Vaithes

PURGE METHOD Bail

DATE(S) PURGED 9/29/92

WELL NUMBER MW 6

WATER LEVEL-**INITIAL** 86.02

SAMPLING METHOD Bail

WATER LEVEL-**FINAL** 86.13

CONTAINERS 3

WELL DEPTH 88.00

PRESERVATIVES VOA's HCl

WELL CASING VOLUME 0.34

†CASING DIAMETER 2"

TIME	GALLONS PURGED	TEMPERATURE (°F)	ELECTRICAL CONDUCTIVITY (µmhos/cmx100) or µS/cm	pH
2:20	0	72.1	4.73	7.79
	.5	70.3	4.60	7.60
2:29	1	70.1	4.52	7.47

† Conversion Factors:

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.60
12"	5.87

S = Siemens = mhos

Stabilization Criteria:
Temperature = ± 1 °F
Conductivity = ± 10% of total
pH = ± 0.2

P&S