



July 15, 1996

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

Alton Project 41-0063-25

RE: FORMER MOBIL STATION 04-FGN
14994 EAST 14th STREET
SAN LEANDRO, CALIFORNIA

Dear Mr. Seery:

Please find enclosed the Second Quarter 1996 Progress Report for the subject location prepared for Mobil Oil Corporation by Alton Geoscience. The contents of this report include:

Quarterly Progress Report Summary Sheet

- Exhibit 1: Sampling Schedule
- Exhibit 2: Groundwater Levels and Chemical Analysis Tables
- Exhibit 3: Figures 1 through 3 (Vicinity Map, Groundwater Elevation Contour Map, Dissolved-Phase Benzene Concentrations)
- Exhibit 4: Benzene versus Groundwater Elevation Graphs
- Exhibit 5: Well Purging and Groundwater Sampling Protocol
- Exhibit 6: Monitoring Well Sampling Forms
- Exhibit 7: Analytical Laboratory Data Sheets
- Exhibit 8: Manifests

If you have any questions regarding this report, please call Ms. Cherine Foutch, Mobil Engineer, at (510) 625-1173, or Ms. Alysa Keller, Alton Geoscience Geologist, at (510) 606-9150.

Sincerely,

ALTON GEOSCIENCE

Alysa M. Keller
Geologist

cc: Ms. Cherine Foutch, Mobil Oil Corporation
Mr. Steven Ritchie, California Regional Water Quality Control Board, San Francisco Bay Region
Mr. Bertram Kubo
Mr. Fuk K. Sit and Ms. Ying C. Sit
Mr. Brady Nagle, Alisto Engineering Group

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ALTON GEOSCIENCE

Quarterly Progress Report Summary Sheet Second Quarter 1996

Mobil Service Station 04-FGN
14994 East 14th Street
San Leandro, California

Number of water zones:	1	This Page	1
FIELD ACTIVITY:		Date Sampled:	8-May-96
Number of ground water wells on-site:	5	Ground Water Wells monitored:	7
Number of ground water wells off-site:	2	Ground Water Wells sampled:	7
Phase of Investigation: Vadose Zone	N/A	Ground Water Wells with Free Product:	0
		Ground Water Phase:	Monitor & Sample
SITE HYDROGEOLOGY:			
Approximate depth to ground water below ground surface:			8.31 feet
Approximate elevation of potentiometric surface above Mean Sea Level:			28.49 feet
Average Increase/Decrease in ground water elevations since last sampling episode:			.51 foot decrease
Approximate flow direction and hydraulic gradient:			South at 0.008 foot/foot
GROUND WATER CONTAMINATION (BENZENE MCL=1.0 ppb):			
Wells containing free product:	0	Range in Thickness of Free Product:	N/A
Number of wells with concentrations below MCL:	3	Volume of Free Product Recovered This Period:	N/A
Number of wells with concentrations at or above MCL:	4	Volume of Free Product Recovered To Date:	N/A
Nature of contamination:	Gasoline	Range in Concentrations:	Benzene: ND to 13 ppb TPH-G: ND to 9,200 ppb
ADDITIONAL INFORMATION:			
A request to discontinue analyzing groundwater samples for TPH-D and TOG and sample MW-5A and MW-6A on a semi-annual basis was approved by Mr. Seery of the Alameda County Health Care Services Agency in a letter dated February 23, 1996.			

Prepared by: Alysa M. Keller Alysa M. Keller Geologist Alton Project No: 41-0063-25

Approved by: Matthew W. Katen Matthew W. Katen, RG Senior Geologist Submittal Date: 15-July-96
 California RG 5167



EXHIBIT 1
SAMPLING SCHEDULE

MONITORING WELL SAMPLING SCHEDULE 1996
Former Mobil Station 04-FGN

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MW-1A	X	X	X	X
MW-2A	X	X	X	X
MW-3A	X	X	X	X
MW-4A	X	X	X	X
MW-5A	X	X	X	
MW-6A	X	X	X	
MW-7A	X	X	X	X
NOTES: X = well scheduled for sampling				

EXHIBIT 2

GROUNDWATER LEVELS AND CHEMICAL ANALYSES

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	TOG (ppb)	TRPO (ppm)
MOBIL wells												
MW-1A	3/31/88	36.35	—	—	29,000	ND	ND	ND	550	640	ND	—
	1/31/89		—	—	11,200	—	260	ND	500	500	—	—
	2/24/94		9.42	26.93	11,000	2,500	70	ND	260	180	ND	—
	8/3/94		12.00	24.35	13,000	7,100	61	50	280	230	ND	—
	11/23/94		11.18	25.17	12,000	2,500	49	ND	300	190	10,000	—
	2/28/95		9.08	27.27	10,000	3,200	25	ND	110	67	8,400	—
	5/10/95		8.33	28.02	10,000	3,600	31	ND	140	81	7,200	—
	8/2/95	36.63	9.49	27.14	10,000	3,800	24	18	130	80	—	—
	11/2/95		11.05	25.58	12,000	3400*	ND	ND	190	150	—	ND
	2/8/96		7.55	29.08	8,000	3,600*	100	21	87	58	—	—
	5/8/96		7.52	29.11	9,200	—	11	ND	120	64	—	—
MW-2A	2/24/94	36.61	9.52	27.09	6,400	4,500	31	ND	58	42	ND	—
	8/23/94		12.05	24.56	7,500	7,100	42	21	71	53	ND	—
	11/23/94		11.25	25.36	7,000	1,800	33	11	39	ND	7,300	—
	2/28/95		9.10	27.51	9,000	1,600	29	36	96	45	6,900	—
	5/10/95		8.42	28.19	5,100	1,600	20	27	32	35	3,400	—
	8/2/95	36.62	9.54	27.08	4,300	1,800	36	ND	11	16	—	—
	11/2/95		11.08	25.54	4,300	3000*	22	ND	10	11	—	ND
	2/8/96		7.68	28.94	2,900	940*	32	13	13	ND	—	—
	5/8/96		8.64	27.98	2,500	—	13	12	19	26	—	—
MW-3A	2/24/94	36.92	9.85	27.07	19,000	10,000	52	30	690	290	ND	—
	8/23/94		12.33	24.59	14,000	11,000	44	24	1,000	100	ND	—
	11/23/94		11.56	25.36	13,000	2,600	30	18	690	52	8,500	—
	2/28/95		9.35	27.57	8,500	—	11	ND	340	24	5,500	—
	5/10/95		8.55	28.37	7,600	3,800	ND	ND	400	45	3,900	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	TOG (ppb)	TRPO (ppm)
MW-3A (cont)	8/2/95	36.93	9.75	27.18	9,200	3,800	17	13	340	34	—	—
	11/2/95		11.29	25.64	9,200	4400*	31	ND	360	72	—	ND
	2/8/96		7.97	28.96	6,900	3,800*	38	ND	230	43	—	—
	5/8/96		8.82	28.11	7,700	—	ND	ND	270	38	—	—
MW-4A	8/2/95	37.18	9.63	27.55	ND	ND	ND	ND	ND	ND	—	—
	11/2/95		11.48	25.70	ND	ND	ND	ND	ND	ND	—	ND
	2/8/96		8.18	29.00	ND	ND	ND	1.1	ND	0.92	—	—
	5/8/96		8.49	28.69	ND	—	ND	ND	ND	ND	—	—
MW-5A	8/2/95	35.91	8.74	27.17	1,300	220	16	0.68	1.3	4.3	—	—
	11/2/95		10.34	25.57	180	ND	1.9	1.2	ND	ND	—	ND
	2/8/96		6.67	29.24	160	150	1.9	2.2	ND	0.89	—	—
	5/8/96		7.35	28.56	260	—	2.4	6.7	2.0	9.6	—	—
MW-6A	8/2/95	37.10	9.68	27.42	ND	ND	ND	ND	ND	ND	—	—
	11/2/95		11.26	25.84	ND	ND	ND	ND	ND	ND	—	ND
	2/8/96		7.79	29.31	ND	ND	ND	1.3	ND	1.3	—	—
	5/8/96		8.38	28.72	ND	—	ND	1.6	ND	1.2	—	—
MW-7A	11/2/95	37.39	11.77	25.62	ND	ND	ND	ND	ND	ND	—	ND
	2/8/96		8.68	28.71	ND	75	ND	1.4	ND	1.5	—	—
	5/8/96		9.00	28.39	ND	—	2.2	6.3	1.4	7.9	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	TOG (ppb)	TRPO (ppm)
UNOCAL wells												
MW-1	8/23/93	—	—	—	24,000	—	160	110	840	810	—	—
	11/23/93		—	—	18,000	—	210	63	900	620	—	—
	2/24/94	36.37	9.45	26.92	18,000	—	74	30	940	480	—	—
	8/23/94		11.98	24.39	24,000	—	130	57	970	320	—	—
	11/23/94		11.17	25.20	—	—	—	—	—	—	—	—
	2/3/95		8.01	28.36	—	—	—	—	—	—	—	—
	5/10/95		8.51	27.86	—	—	—	—	—	—	—	—
	8/2/95		10.00	26.37	—	—	—	—	—	—	—	—
	11/2/95		11.11	25.26	—	—	—	—	—	—	—	—
	2/8/96		7.74	28.63	—	—	—	—	—	—	—	—
	5/8/96		8.50	27.87	—	—	—	—	—	—	—	—
MW-2	8/23/93	—	—	—	15,000	—	110	ND	590	64	—	—
	11/23/93		—	—	11,000	—	80	10	480	20	—	—
	2/24/94	36.34	9.27	27.07	11,000	—	44	ND	580	32	—	—
	8/23/94		11.82	24.52	12,000	—	45	10	360	20	—	—
	11/23/94		10.97	25.37	—	—	—	—	—	—	—	—
	2/3/95		7.87	28.47	—	—	—	—	—	—	—	—
	5/10/95		8.38	27.96	—	—	—	—	—	—	—	—
	8/2/95		9.36	26.98	—	—	—	—	—	—	—	—
	11/2/95		10.95	25.39	—	—	—	—	—	—	—	—
	2/8/96		7.52	28.82	—	—	—	—	—	—	—	—
	5/8/96		8.21	28.13	—	—	—	—	—	—	—	—
MW-3	8/23/93	—	—	—	—	—	—	—	—	—	—	—
	11/23/93		—	—	2,900	—	25	ND	50	18	—	—
	2/24/94	36.42	9.21	27.21	2,300	—	34	ND	24	5.6	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	TOG (ppb)	TRPO (ppm)
MW-3 (con't)	8/23/94		11.88	24.54	3,400	—	46	ND	53	11	—	—
	11/23/94		10.98	25.44	2,900	—	37	49	14	2.9	—	—
	2/3/95		7.89	28.53	—	—	—	—	—	—	—	—
	5/10/95		8.38	28.04	—	—	—	—	—	—	—	—
	8/2/95		9.49	26.93	—	—	—	—	—	—	—	—
	11/2/95		11.00	25.42	—	—	—	—	—	—	—	—
	2/8/96		7.41	29.01	—	—	—	—	—	—	—	—
	5/8/96		8.20	28.22	—	—	—	—	—	—	—	—
MW-4	8/23/93	—	—	—	1,200	—	5	ND	16	ND	—	—
	11/23/93		—	—	720	—	10	ND	8.7	ND	—	—
	2/24/94	37.04	9.89	27.15	1,300	—	8.9	ND	20	ND	—	—
	8/23/94		12.57	24.47	690	—	9.2	1.3	7.1	1.9	—	—
	11/23/94		11.65	25.39	—	—	—	—	—	—	—	—
	2/3/95		8.52	28.52	—	—	—	—	—	—	—	—
	5/10/95		9.97	27.07	—	—	—	—	—	—	—	—
	8/2/95		10.18	26.86	—	—	—	—	—	—	—	—
	11/2/95		11.67	25.37	—	—	—	—	—	—	—	—
	2/8/96		8.15	28.89	—	—	—	—	—	—	—	—
#	5/8/96		—	—	—	—	—	—	—	—	—	—
MW-5	8/23/93	—	—	—	61,000	—	340	380	3,600	14,000	—	—
	11/23/93		—	—	46,000	—	290	310	4,100	15,000	—	—
	2/24/94	35.94	9.02	26.92	57,000	—	140	400	4,400	16,000	—	—
	8/23/94		11.57	24.37	61,000	—	360	380	4,800	17,000	—	—
	11/23/94		10.71	25.23	—	—	—	—	—	—	—	—
	2/3/95		7.69	28.25	—	—	—	—	—	—	—	—
	5/10/95		8.2	27.74	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	TOG (ppb)	TRPO (ppm)
MW-5 (con't)	8/2/95		9.23	26.71	—	—	—	—	—	—	—	—
	11/2/95		10.70	25.24	—	—	—	—	—	—	—	—
	2/8/96		7.36	28.58	—	—	—	—	—	—	—	—
	5/8/96		8.25	27.69	—	—	—	—	—	—	—	—
MW-6	8/23/93	—	—	—	1,000	—	9.4	2.3	5	2.3	—	—
	11/23/93		—	—	520	—	ND	1.7	1.9	0.82	—	—
	2/24/94	35.67	8.39	27.28	810	—	12	ND	2.6	0.77	—	—
	8/23/94		10.97	24.70	570	—	6.8	2.5	3.2	2.6	—	—
	11/23/94		10.21	25.46	—	—	—	—	—	—	—	—
	2/3/95		6.99	28.68	—	—	—	—	—	—	—	—
	5/10/95		7.53	28.14	—	—	—	—	—	—	—	—
	8/2/95		8.68	26.99	—	—	—	—	—	—	—	—
	11/2/95		10.20	25.47	—	—	—	—	—	—	—	—
	2/8/96		6.66	29.01	—	—	—	—	—	—	—	—
5/8/96		7.40	28.27	—	—	—	—	—	—	—	—	
MW-7	8/23/93	—	—	—	33,000	—	360	ND	2,500	4,300	—	—
	11/23/93		—	—	19,000	—	310	30	2,500	2,300	—	—
	2/24/94	36.09	8.95	27.14	16,000	—	220	19	2,400	3,200	—	—
	8/23/94		11.43	24.66	19,000	—	210	50	2,000	2,800	—	—
	11/23/94		10.69	25.40	—	—	—	—	—	—	—	—
	2/3/95		7.49	28.60	—	—	—	—	—	—	—	—
	5/10/95		7.88	28.21	—	—	—	—	—	—	—	—
	8/2/95		9.02	27.07	—	—	—	—	—	—	—	—
	11/2/95		10.55	25.54	—	—	—	—	—	—	—	—
	2/8/96		7.13	28.96	—	—	—	—	—	—	—	—
5/8/96		7.11	28.98	—	—	—	—	—	—	—	—	

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	TOG (ppb)	TRPO (ppm)
MW-8	8/23/93	—	—	—	280	—	49	4.5	ND	ND	—	—
	11/23/93	—	—	—	1,800	—	ND	3.4	ND	ND	—	—
	2/24/94	36.89	10.44	26.45	1,200	—	10	2.3	ND	3.2	—	—
	8/23/94	—	12.61	24.28	3,200	—	45	18	2	7.2	—	—
	11/23/94	—	11.98	24.91	—	—	—	—	—	—	—	—
	2/3/95	—	9.16	27.73	—	—	—	—	—	—	—	—
	5/10/95	—	9.35	27.54	—	—	—	—	—	—	—	—
	8/2/95	—	10.40	26.49	—	—	—	—	—	—	—	—
	11/2/95	—	11.80	25.09	—	—	—	—	—	—	—	—
	2/8/96	—	8.98	27.91	—	—	—	—	—	—	—	—
	5/8/96	—	9.46	27.43	—	—	—	—	—	—	—	—
	MW-9	8/23/93	—	—	—	3,000	—	29	ND	ND	ND	—
11/23/93		—	—	—	2,500	—	23	2.1	ND	ND	—	—
2/24/94		36.29	9.74	26.55	2,900	—	35	ND	ND	ND	—	—
8/23/94		—	11.99	24.30	2,800	—	28	32	ND	ND	—	—
11/23/94		—	11.31	24.98	—	—	—	—	—	—	—	—
2/3/95		—	8.45	27.84	—	—	—	—	—	—	—	—
5/10/95		—	—	—	—	—	—	—	—	—	—	—
8/2/95		—	7.95	28.34	—	—	—	—	—	—	—	—
11/2/95		—	11.16	25.13	—	—	—	—	—	—	—	—
2/8/96		—	8.15	28.14	—	—	—	—	—	—	—	—
5/8/96		—	8.75	27.54	—	—	—	—	—	—	—	—
MW-10	8/23/93	—	—	—	20,000	—	230	13	3,200	140	—	—
	11/23/93	—	—	—	18,000	—	300	10	2,800	110	—	—
	2/24/94	36.04	9.57	26.47	15,000	—	330	19	2,000	83	—	—

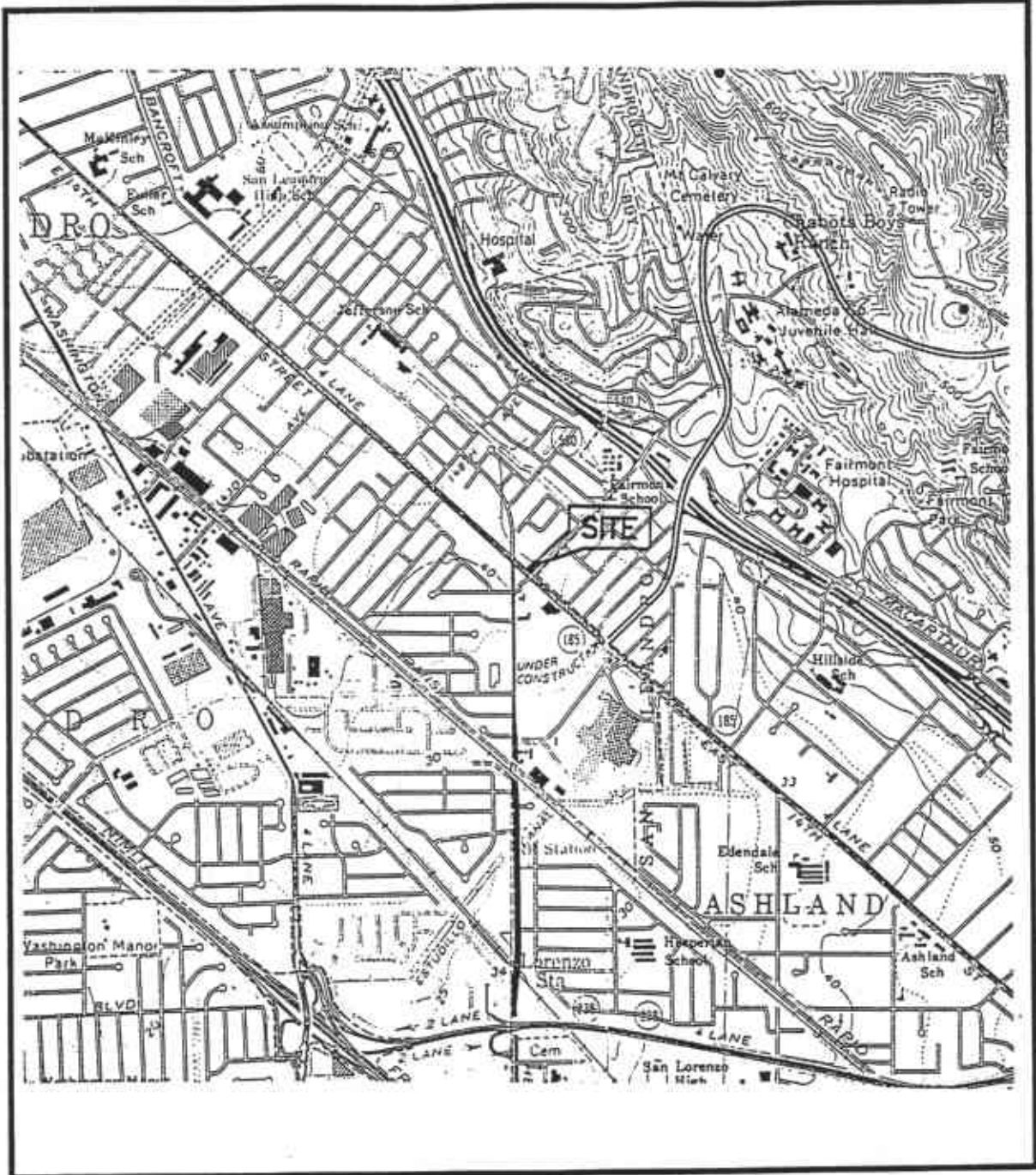
Groundwater Levels and Chemical Analysis

Former Mobil Station 04-FGN

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	TOG (ppb)	TRPO (ppm)
MW-10 (con't)	8/23/94		11.81	24.23	16,000	—	250	41	1,800	74	—	—
	11/23/94		11.10	24.94	—	—	—	—	—	—	—	—
	2/3/95		8.32	27.72	—	—	—	—	—	—	—	—
	5/10/95		—	—	—	—	—	—	—	—	—	—
	8/2/95		9.55	26.49	—	—	—	—	—	—	—	—
	11/2/95		11.03	25.01	—	—	—	—	—	—	—	—
	2/8/96		8.05	27.99	—	—	—	—	—	—	—	—
	5/8/96		8.70	27.34	—	—	—	—	—	—	—	—
MW-11	8/23/93	—	—	—	5,400	—	68	ND	230	43	—	—
	11/23/93		—	—	3,400	—	105	ND	120	43	—	—
	2/24/94	35.50	9.20	26.30	4,600	—	170	ND	140	36	—	—
	8/23/94		11.39	24.11	7,300	—	250	13	150	42	—	—
	11/23/94		10.67	24.83	—	—	—	—	—	—	—	—
	2/3/95		8.02	27.48	—	—	—	—	—	—	—	—
	5/10/95		—	—	—	—	—	—	—	—	—	—
	8/2/95		9.31	26.19	—	—	—	—	—	—	—	—
	11/2/95		10.85	24.65	—	—	—	—	—	—	—	—
	2/8/96		7.76	27.74	—	—	—	—	—	—	—	—
	5/8/96		8.50	27.00	—	—	—	—	—	—	—	—

NOTES: ppb = parts per billion
 ppm = parts per million
 TPH-G = total petroleum hydrocarbons as gasoline
 TPH-D = total petroleum hydrocarbons as diesel
 * = Unidentified hydrocarbons <C10

 ND = not detected at or above method detection limit
 TRPO = total recoverable petroleum oil
 — = not analyzed or not provided
 TOG = total oil and grease
 # = well inaccessible



SCALE 1:24,000



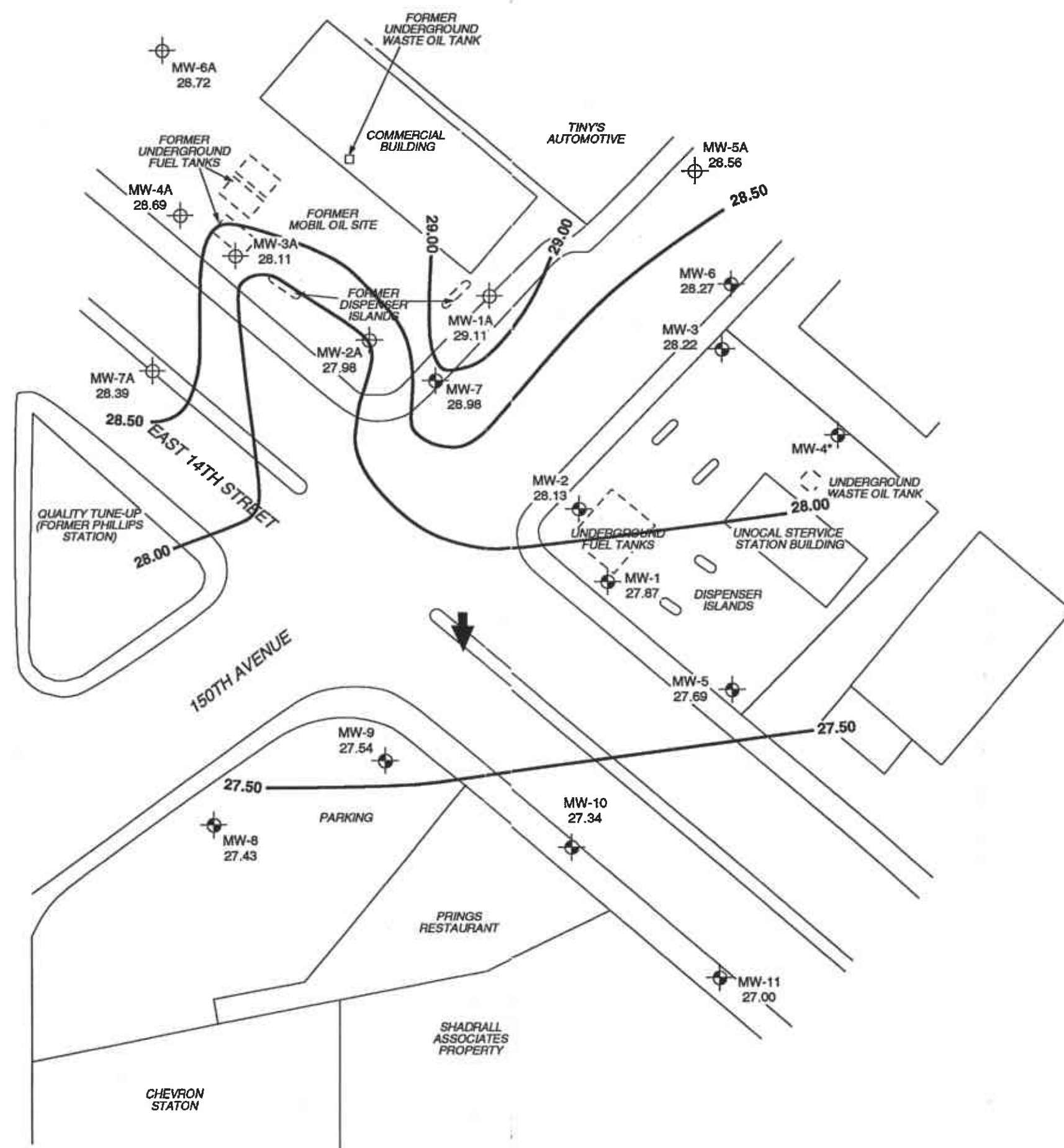
Source: U.S.G.S. Map
Hayward & San Leandro
Quadrangles
California
7.5 Minute Series

VICINITY MAP

Former Mobil Station 04-FGN
14994 East 14th Street
San Leandro, California



FIGURE 1



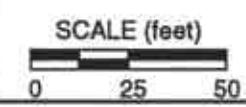
LEGEND

- MW-7A Groundwater monitoring well (Mobil)
- MW-11 Groundwater monitoring well (Unocal)
- 28.39 Groundwater elevation relative to mean sea level [NGVD-1929]
- Groundwater elevation contour line
- General direction of groundwater gradient

NOTES:
 Contour lines are interpretive based on fluid level measurements collected May 8, 1996. Contour interval = 0.50 foot. * = well inaccessible.



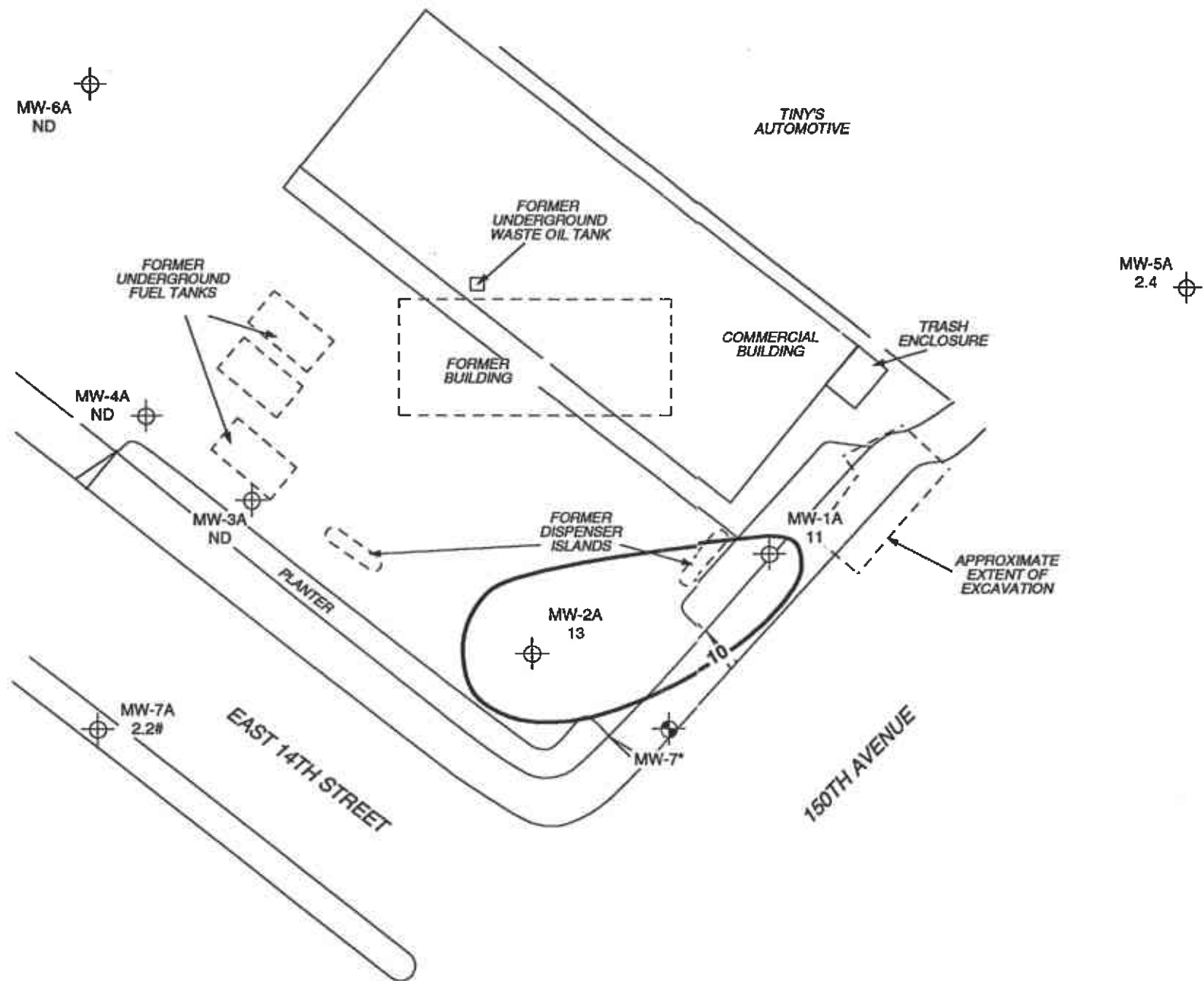
SOURCE: Allsto Engineering Group



GROUNDWATER ELEVATION CONTOUR MAP
 May 8, 1996

Former Mobil Station 04-FGN
 14994 East 14th Street
 San Leandro, California

FIGURE 2



LEGEND

MW-6A ND Groundwater monitoring well (Mobil) showing dissolved-phase benzene concentration in ppb

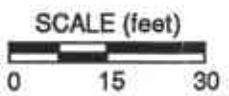
MW-7 Groundwater monitoring well (Unocal)

Dissolved-phase benzene isoconcentration line

NOTES:
 Results are based on analysis of groundwater samples collected May 8, 1996. ND = not detected at or above method detection limit; ppb = parts per billion. * = data not provided.; # = may be from separate source.



SOURCE: Allsto Engineering Group



DISSOLVED-PHASE BENZENE CONCENTRATIONS
 May 8, 1996

Former Mobil Station 04-FGN
 14994 East 14th Street
 San Leandro, California

FIGURE 3

EXHIBIT 4

BENZENE VERSUS GROUNDWATER ELEVATION GRAPHS

Benzene vs. Groundwater Elevation Graphs

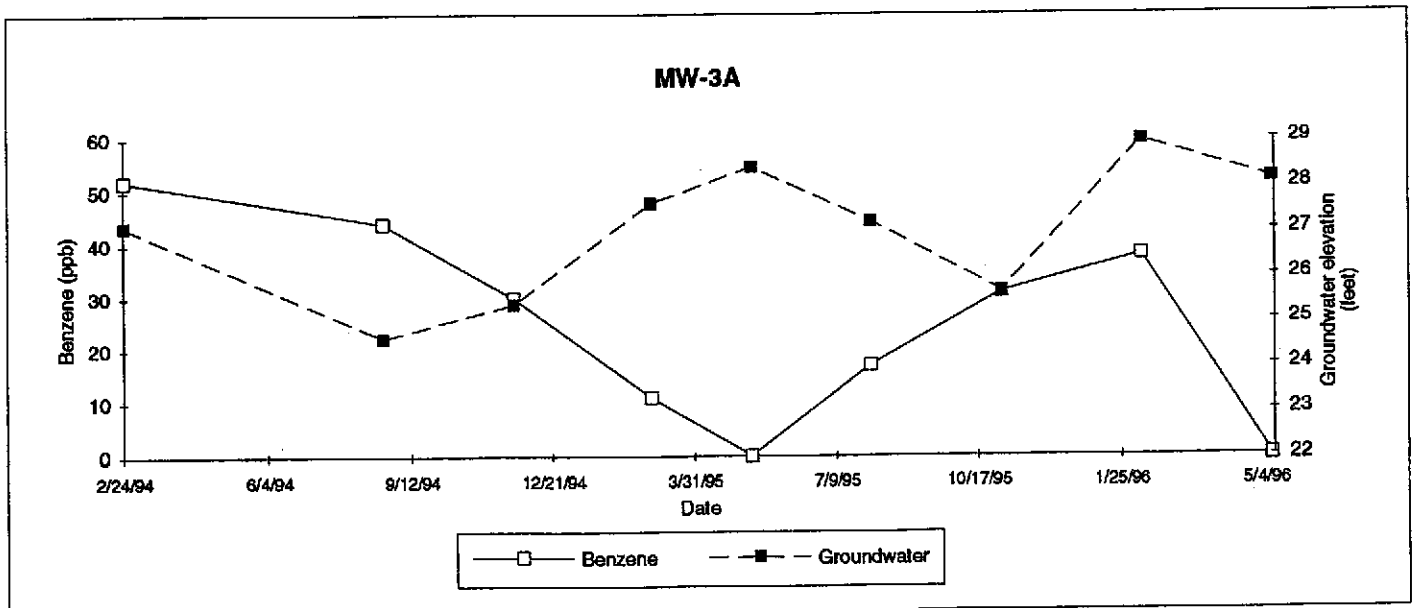
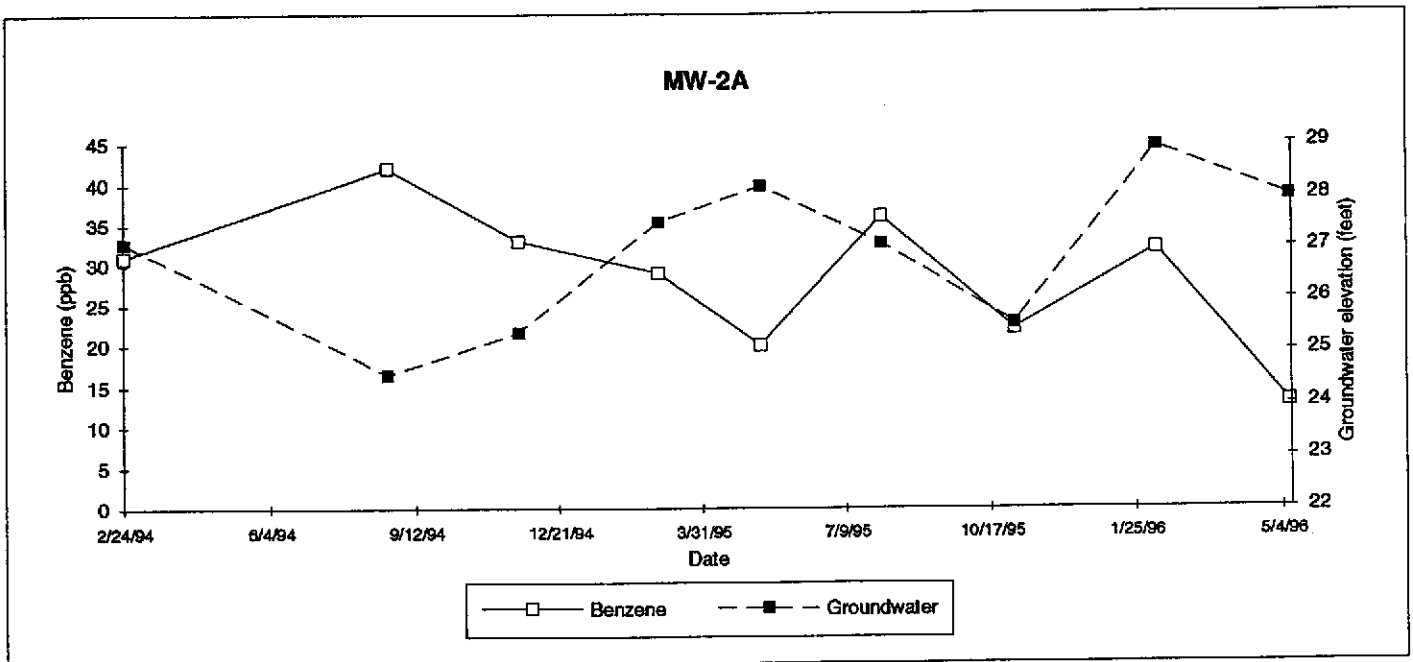
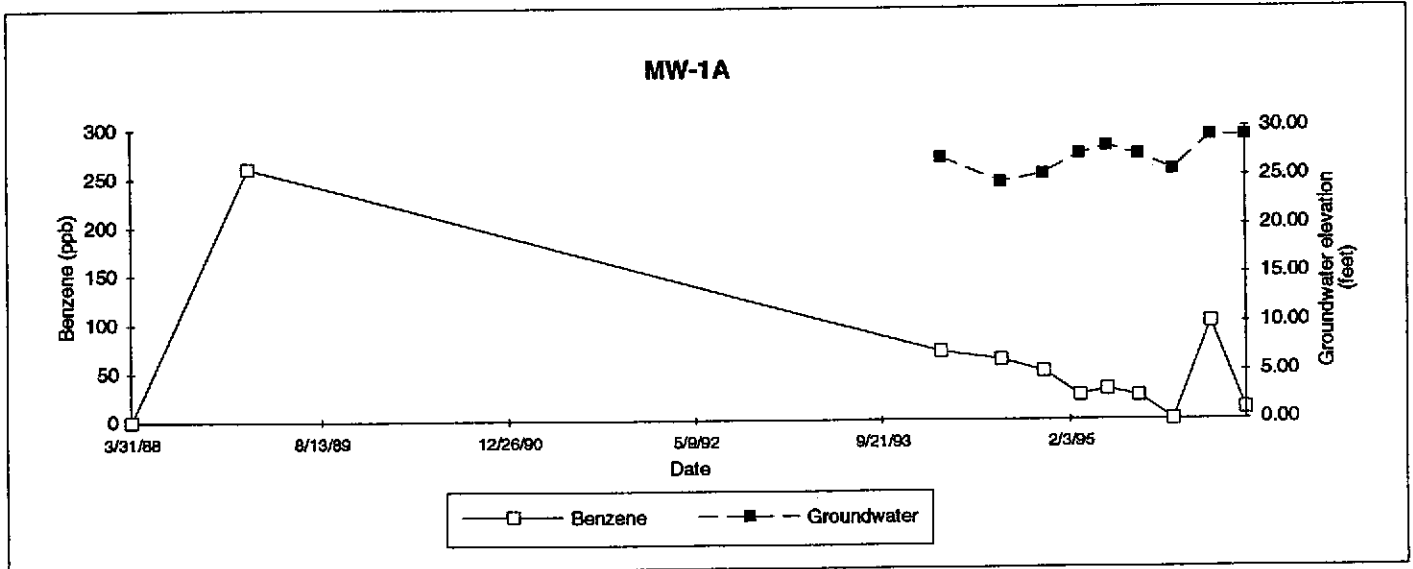


EXHIBIT 5

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

FLUID-LEVEL MONITORING

Fluid-levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city bench mark.

GROUNDWATER SAMPLING

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of groundwater prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is either pumped directly into a licensed vacuum truck or temporarily stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

EXHIBIT 6

MONITORING WELL SAMPLING FORMS

GROUND WATER SAMPLING FIELD NOTES

Site: 04-FGN Project No.: 41-0063 Sampled By: JM Date: 5-8-91

Well No. MW-6A Purge Method: sub
 Total Depth (feet) 74.0 Depth to Product (feet): 0
 Depth to Water (feet): 8.38 Product Recovered (gallons): 0
 Water Column (feet): 15.62 Casing Diameter (Inches): 4"
 80% Recharge Depth (feet): 11.5 1 Well Volume (gallons): 10.3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
8:45			10	1.14	68.1	6.82
			20	1.12	69.4	6.76
	9:00	8.81	30	1.14	70.8	6.71
Total Purged			30	Time Sampled		9:15

Comments:
 Turbidity =

Well No. MW-4A Purge Method: sub
 Total Depth (feet) 23.50 Depth to Product (feet): 0
 Depth to Water (feet): 8.49 Product Recovered (gallons): 0
 Water Column (feet): 15.01 Casing Diameter (Inches): 4"
 80% Recharge Depth (feet): 11.49 1 Well Volume (gallons): 9.9

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
10:05			10	.88	64.7	6.80
			20	.83	65.9	6.71
	10:45	8.97	30	.87	67.3	6.65
Total Purged			30	Time Sampled		10:20

Comments:
 Turbidity =

Well No. MW-2A Purge Method: sub
 Total Depth (feet) 74.5 Depth to Product (feet): 0
 Depth to Water (feet): 4.64 Product Recovered (gallons): 0
 Water Column (feet): 15.86 Casing Diameter (Inches): 2"
 80% Recharge Depth (feet): 11.6 1 Well Volume (gallons): 2.7

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
11:00			3	.84	69.3	6.74
			6	.86	69.7	6.73
	11:05	8.95	9	.87	69.8	6.73
Total Purged			9	Time Sampled		11:20

Comments:
 Turbidity =

Well No. MW-7A Purge Method: sub
 Total Depth (feet) 24.5 Depth to Product (feet): 0
 Depth to Water (feet): 9 Product Recovered (gallons): 0
 Water Column (feet): 15.5 Casing Diameter (Inches): 4"
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): 10.3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
9:41			10	2.18	64.3	6.74
			20	1.12	69.6	6.72
	9:50	8.5	30	1.05	69.3	6.70
Total Purged			30	Time Sampled		10:00

Comments:
 Turbidity =

Well No. MW-5A Purge Method: sub
 Total Depth (feet) 27.00 Depth to Product (feet): 0
 Depth to Water (feet): 7.35 Product Recovered (gallons): 0
 Water Column (feet): 15.65 Casing Diameter (Inches): 4"
 80% Recharge Depth (feet): 10.48 1 Well Volume (gallons): 12.3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
10:30			10	.89	66.6	6.79
			20	.88	66.7	6.79
	10:40	8.00	30	.85	66.7	6.77
Total Purged			30	Time Sampled		10:55

Comments:
 Turbidity =

Well No. MW-3A Purge Method: sub
 Total Depth (feet) 22.45 Depth to Product (feet): 0
 Depth to Water (feet): 4.52 Product Recovered (gallons): 0
 Water Column (feet): 13.63 Casing Diameter (Inches): 2"
 80% Recharge Depth (feet): 8.45 1 Well Volume (gallons): 2.31

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
11:25			3	.98	69.2	6.77
			6	.97	69.8	6.76
	11:35	9.1	9	.98	70.5	6.76
Total Purged			9	Time Sampled		11:45

Comments:
 Turbidity =

31

30.6

29.7

30.9

8.1

6.9

GROUND WATER SAMPLING FIELD NOTES

Site: 04-FGN Project No.: 91-0063 Sampled By: Jan Date: 5-1-98

Well No. MW-1A Purge Method: Sub
 Total Depth (feet) 18.60 Depth to Product (feet): 0
 Depth to Water (feet): 7.52 Product Recovered (gallons): 0
 Water Column (feet): 11.08 Casing Diameter (Inches): 2
 80% Recharge Depth (feet): 7.96 1 Well Volume (gallons): 7.79

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
1200			2	59	64.1	6.76
			4	74	65.6	6.77
	1202	7.52	6	74	66.3	6.76
Total Purged			6	Time Sampled		1215

Comments: _____
 Turbidity = _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity = _____

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity = _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity = _____

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity = _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity = _____

EXHIBIT 7

ANALYTICAL LABORATORY DATA SHEETS



Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Alysa Keller

Client Project ID: Mobil #04-FGN
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 605-0853

Sampled: May 8, 1996
Received: May 10, 1996
Reported: May 17, 1996

QC Batch Number: GC051496 GC051496 GC051496 GC051496 GC051496 GC051496

802002A 802002A 802002A 802002A 802002A 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 605-0853 MW-6A	Sample I.D. 605-0854 MW-7A	Sample I.D. 605-0855 MW-4A	Sample I.D. 605-0856 MW-5A	Sample I.D. 605-0857 MW-2A	Sample I.D. 605-0858 MW-3A
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	260	2,500	7,700
Benzene	0.50	N.D.	2.2	N.D.	2.4	13	N.D.
Toluene	0.50	1.6	6.3	N.D.	6.7	12	N.D.
Ethyl Benzene	0.50	N.D.	1.4	N.D.	2.0	19	270
Total Xylenes	0.50	1.2	7.9	N.D.	9.6	26	38
Chromatogram Pattern:		--	--	--	Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	5.0	20
Date Analyzed:	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96
Instrument Identification:	HP-2	HP-2	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	104	104	102	114	122	133*

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager

Please Note:

*Surrogate recovery outside control limits due to sample / surrogate co-elution.

RECEIVED
MAY 22 1996
LABORATORY





Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Alysa Keller

Client Project ID: Mobil #04-FGN
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 605-0859

Sampled: May 8, 1996
Received: May 10, 1996
Reported: May 17, 1996

QC Batch Number:

GC051496

802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 605-0859 MW-1A
Purgeable Hydrocarbons	50	9,200
Benzene	0.50	11
Toluene	0.50	N.D.
Ethyl Benzene	0.50	120
Total Xylenes	0.50	64

Chromatogram Pattern:

Gasoline

Quality Control Data

Report Limit Multiplication Factor: 20
Date Analyzed: 5/14/96
Instrument Identification: HP-2
Surrogate Recovery, %:
(QC Limits = 70-130%) 143*

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager

Please Note:

*Surrogate recovery outside control limits due to sample / surrogate co-elution.





Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Alysa Keller

Client Project ID: Mobil #04-FGN
Matrix: Liquid

QC Sample Group: 6050853-859

Reported: May 17, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC051496 802002A	GC051496 802002A	GC051496 802002A	GC051496 802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	L. Huang	L. Huang	L. Huang	L. Huang
MS/MSD #:	6050855	6050855	6050855	6050855
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/14/96	5/14/96	5/14/96	5/14/96
Analyzed Date:	5/14/96	5/14/96	5/14/96	5/14/96
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
Result:	20	21	23	67
MS % Recovery:	100	105	115	112
Dup. Result:	18	19	21	60
MSD % Recov.:	90	95	105	100
RPD:	11	10	9.1	11
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	2LCS051496	2LCS051496	2LCS051496	2LCS051496
Prepared Date:	5/14/96	5/14/96	5/14/96	5/14/96
Analyzed Date:	5/14/96	5/14/96	5/14/96	5/14/96
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
LCS Result:	20	20	22	63
LCS % Recov.:	100	100	110	105

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
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.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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

Mobil Oil Consulting Firm: <u>Alfon Geoscience</u>	Station No./Site Address: <u>04 - FGN San Leandro</u>
Address: <u>30 A Lindbergh Ave.</u>	Project Contact: <u>Alysa Keller</u>
City: <u>Livermore</u> State: <u>CA</u> Zip: <u>94550</u>	Mobil Oil Engineer: <u>Cherise Foutch</u>
Tel: <u>(510) 606-9150</u> Fax: <u>(510) 606-9260</u>	Sampler(s) (signature): <u>[Signature]</u> 9605190

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX - TPH	EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015	Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000	TTLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/>	Lead Total <input type="checkbox"/>	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent
MW-6A		5-8-98	915		3	U-2		X																
MW-7A			1000					X																
MW-4A			1020					X																
MW-5A			1055					X																
MW-2A			1120					X																
MW-3A			1145					X																
MW-1A			1215					X																

CODING
(check one)

Code 1 Emergency Response

Code 2 Site Assessment

Code 3 Remediation (Plan Devlpmt.)

Code 4 Active Remed. (Install./Start-up)

Code 5 Active Remed. (O & M)

Code 6 Passive Remed./Monitoring

Code 7 Closure

Code 8 Construction

Code 9 Litigation/Claims Fines

Relinquished by: <u>[Signature]</u> Date/Time: <u>5/10/98 1145</u>	Relinquished by: <u>[Signature]</u> Date/Time: <u>5/10/96 1145</u>
Relinquished by: <u>[Signature]</u> Date/Time: <u>3/10/96 1815</u>	Relinquished by: <u>[Signature]</u> Date/Time: _____
Relinquished by: <u>[Signature]</u> Date/Time: _____	Relinquished in Lab by: <u>[Signature]</u> Date/Time: <u>5/10/96 18:15</u>
Remarks: _____	

Turnaround Time: (check one):

Normal Same day _____

1 day _____ 2 day _____

5 day _____

Sample Integrity:

Intact _____ On Ice _____

Monitoring Well Purge Water Transport Form

Generator Information

Name: Mobil Oil Corporation Attn: Steve Pao
 Address: 3700 West 190th Street, TPT-2
 City, State, Zip: Torrance, CA 90509-2929 Phone: (310) 212-1877
 Description of Water: Monitoring well purge water
 The generator certifies that this water as described is non-hazardous. Kevin Keenan for Mobil: _____ (Date) _____

Site Information

	Date Generated	Mobil Site No.	Amount Generated	Sampler's Initials		Date Generated	Mobil Site No.	Amount Generated	Sampler's Initials
1	5-3-96	10-266	200	TP/JM	16				
2	5-6-96	04-WAH	120	SM	17				
3	5-7-96	99-319	300	JM	18				
4	5-8-96	04-TIX	50	JM	19				
5	5-8-96	04-FGN	146	JM	20				
6	5-9-96	04-H33	71	SM	21				
7	5-6-96	04-FMS	100	TP	22				
8					23				
9					24				
10					25				
11					26				
12					27				
13					28				
14					29				
15					30				

Void
JM

Total: 916

Transporter Information

Name: Clearwater Environmental Management
 Address: P.O. Box 7420
 City, State, Zip: Fremont, CA 94555 Phone: (800) 499-3676
 Truck ID No.: 110-111
STEVEN R. Stone *[Signature]* 5/15/96
 (Typed or printed full name & signature) (Date)

Receiving Facility

Name: McKittrick Waste Treatment Site
 Address: 56533 Highway 58 West
 City, State, Zip: McKittrick, CA 93251 Phone: (805) 762-7607
 Approval No.: 1195-1065-PS
 _____ (Typed or printed full name & signature) (Date) _____

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

2. Page 1
of

3. Document Number

NH-N 2987

4. Generator's Name and Mailing Address

Mobil Oil
3700 WEST 190th Street TPT-2
Torrance, CA 90503-2728
Generator's Phone 310-212-1877

Profile #
1195-1065-P3

5. Transporter Company Name

6. US EPA ID Number

7. Transporter Phone

Clearwater Env. Mgt CA R000007013

510-797-8511

8. Designated Facility Name and Site Address

9. US EPA ID Number

10. Facility's Phone

Mckittrick Waste Treatment Site
53566 HWY 58, WEST
Mckittrick, CA 93251 CA D980636831

805-762-7366

11. Waste Shipping Name and Description

12. Containers

13. Total
Quantity

14. Unit
Wt/Vol

a. NON HAZARDOUS WASTE LIQUID
Monitoring well purge water

No.	Type	Quantity	Unit
001	TI	916	G

15. Special Handling Instructions and Additional Information

Wear Protective Gear
Emergency contact
510-797-8511
ATTN: Steve Stone

Handling Codes for Wastes Listed Above

11a.

11b.

site Altor Geosciences
30A Lindbergh
Livermore, CA

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Jaime Madden

[Signature]

Month Day Year
10/5/96

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

STEVEN R. STONE

[Signature]

Month Day Year
05/15/96

18. Discrepancy Indication Space

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 18.

Printed/Typed Name

Signature

Month Day Year