



April 29, 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 First 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

ENVIRONMENTAL PROTECTION
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ALTON GEOSCIENCE

Quarterly Progress Report Summary Sheet First 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-Feb-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
		Ground Water Wells with Free Product:	0
Phase of Investigation: Vadose Zone	N/A	Ground Water Phase:	Monitor & Sample
SITE HYDROGEOLOGY:			
Approximate depth to ground water below ground surface:			8 feet
Approximate elevation of potentiometric surface above Mean Sea Level:			29 feet
Average Increase/Decrease in ground water elevations since last sampling episode:			3.0 foot increase
Approximate flow direction and hydraulic gradient:			Southwest at 0.004 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
		Range in Concentrations:	Benzene:ND to 100 ppb
Nature of contamination:	Gasoline		
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
California RG 5167 Senior Geologist

Submittal Date: 29-April-96



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	
MW-6A	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	—
	8/23/94		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	—
	2/28/94		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	—	—
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	—	—
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 (con't)	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	—	—
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	—	—
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	—	—
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	—	—
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	—	—
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	—	—	—	—	—	—	—	—

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-1	8/2/95		10.00	26.37	—	—	—	—	—	—	—	—
(cont)	11/2/95		11.11	25.26	—	—	—	—	—	—	—	—
	2/8/96		7.74	28.63	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—
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	—	—
	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	—	—	—	—	—	—	—	—

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-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	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—
	8/2/95	—	9.23	26.71	—	—	—	—	—	—	—	—
	11/2/95	—	10.70	25.24	—	—	—	—	—	—	—	—
	2/8/96	—	7.36	28.58	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—

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-6 (cont)	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	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—

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-9	8/23/93	—	—	—	3,000	—	29	ND	ND	ND	—	—
	11/23/93	—	—	—	2,500	—	29	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	—	—	—	—	—	—	—	—
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	—	—
	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	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—

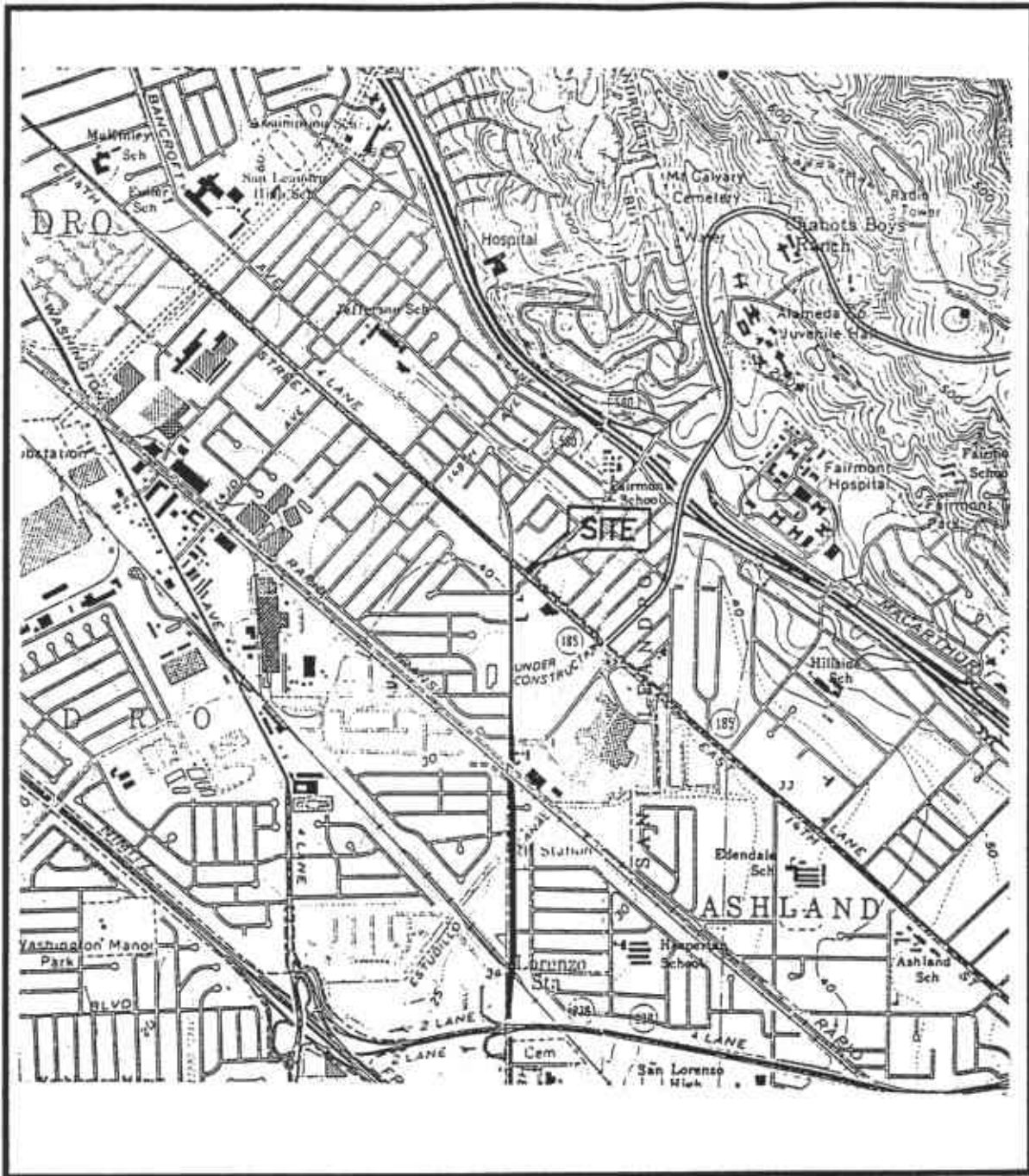
Groundwater Levels and Chemical Analysis

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-11	5/10/95		—	—	—	—	—	—	—	—	—	—
(con't)	8/2/95		9.31	26.19	—	—	—	—	—	—	—	—
	11/2/95		10.85	24.65	—	—	—	—	—	—	—	—
	2/8/96		7.76	27.74	—	—	—	—	—	—	—	—

NOTES:

ppb =	parts per billion	ND =	not detected at or above method detection limit
ppm =	parts per million	TRPO =	total recoverable petroleum oil
TPH-G =	total petroleum hydrocarbons as gasoline	— =	not analyzed or not provided
TPH-D =	total petroleum hydrocarbons as diesel	TOG =	total oil and grease
* =	discrete peaks or unidentified hydrocarbons <C15		



SCALE 1:24,000

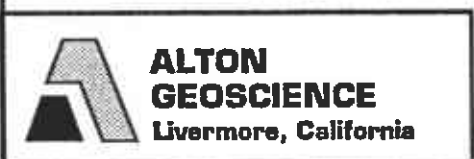


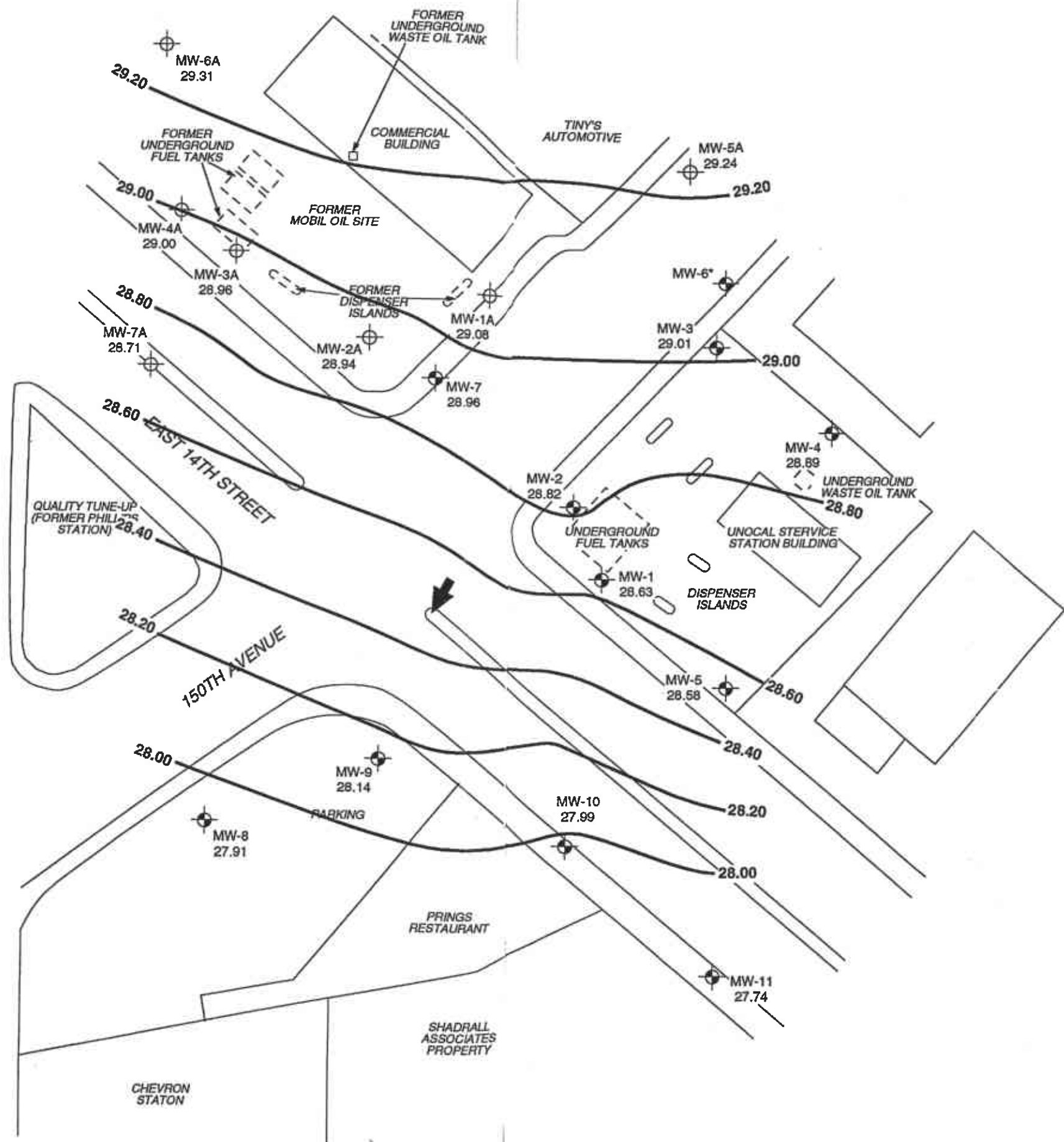
Source: U.S.G.S. Map
Hayward & San Leandro
Quadrangles
California
7.5 Minute Series

VICINITY MAP

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

FIGURE 1

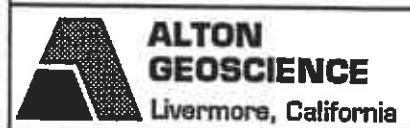




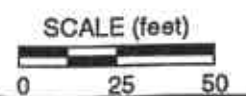
LEGEND

- MW-7A Groundwater monitoring well (Mobil)
- MW-11 Groundwater monitoring well (Unocal)
- 27.74 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 February 8, 1996.
 Contour interval = 0.20 foot. * = groundwater elevation not used for contouring.



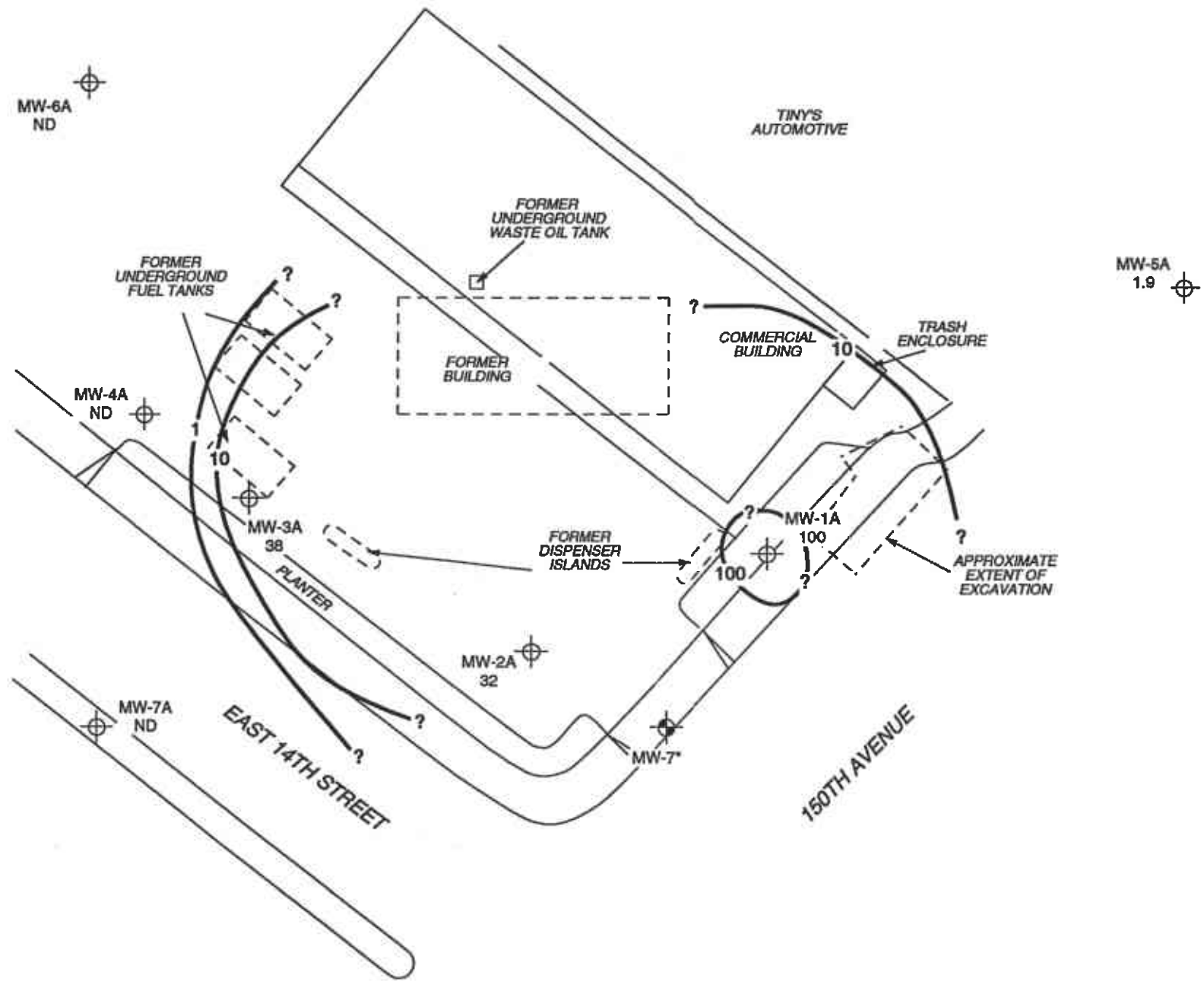
SOURCE: Alisto Engineering Group



GROUNDWATER ELEVATION
 CONTOUR MAP
 February 8, 1996

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

FIGURE 2



LEGEND

MW-7A ND Groundwater monitoring well (Mobil) showing dissolved-phase benzene concentration in ppb

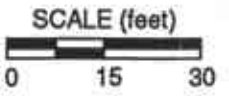
MW-7 Groundwater monitoring well (Unocal)

Dissolved-phase benzene isoconcentration line

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



SOURCE: Alisto Engineering Group



DISSOLVED-PHASE BENZENE CONCENTRATIONS
 February 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

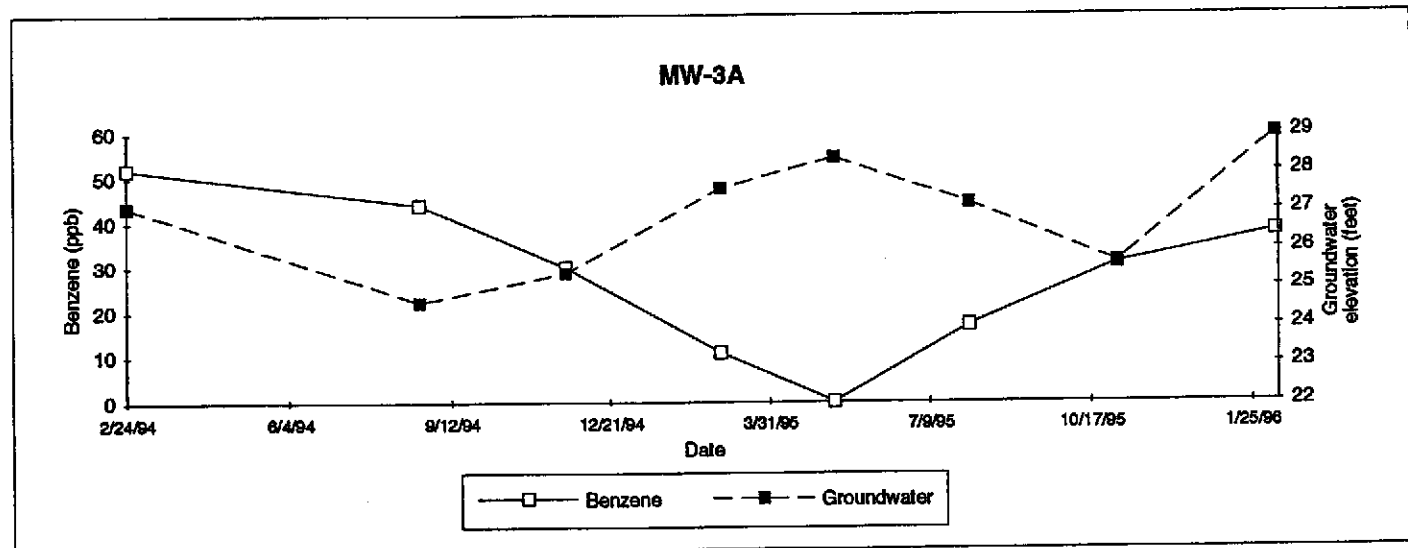
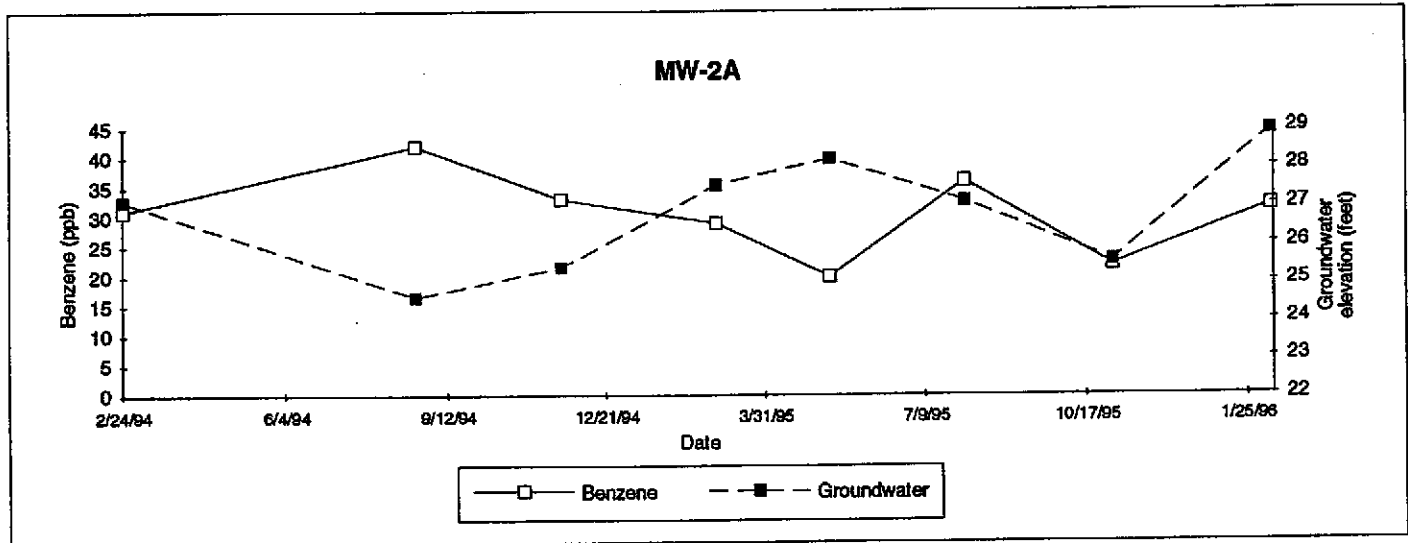
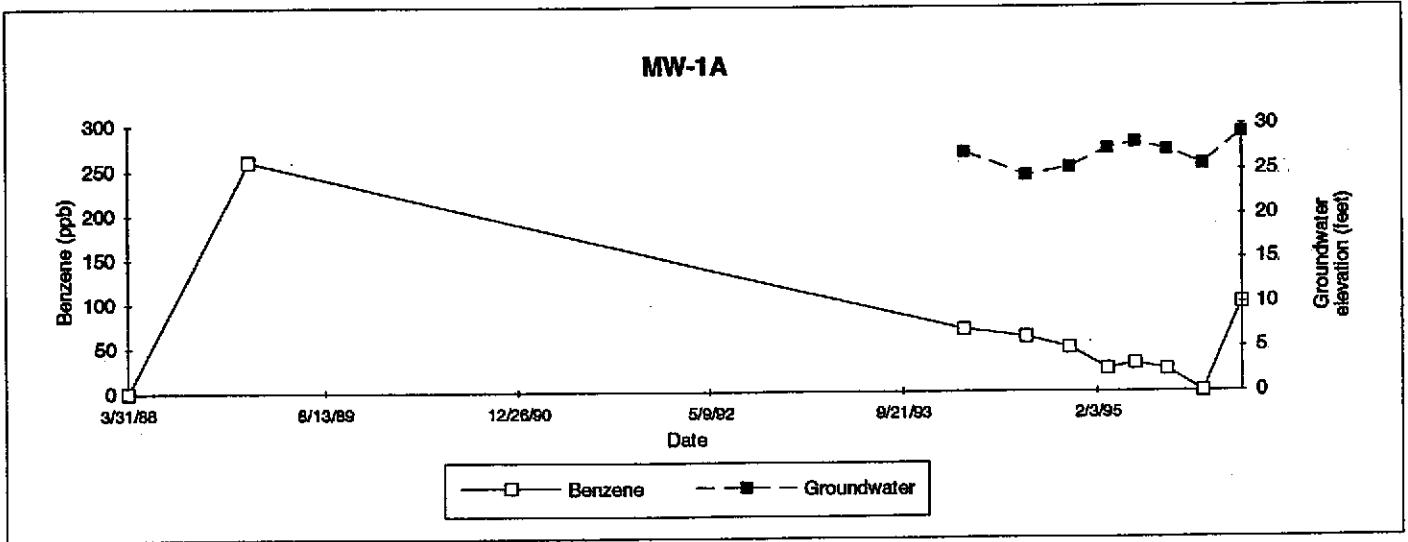


EXHIBIT 5

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

Groundwater Sampling Field Not

Site: 04-FCN Project No.: 41-0063.25 Sampled By: NIF#2 Date: 2/8/95

PURGING EQUIPMENT: Sailer (Teflon): _____ Sailer (PVC): _____ Submersible Pump: X Ded-cated: _____ Diaphragm Pump: _____ Other: _____

SAMPLING EQUIPMENT: Sailer (Teflon): X Ded-cated: _____ Other: _____

METER CALIBRATION: Date: _____ Temp. (F): _____ pH 7: _____ Lec. of Previous Calibration: _____
 Time: _____ EC 1000: _____ pH 10: _____
 Ser. No.: _____ DI: _____ pH 4: _____

Well No.: MW-6A
 Total Depth (Ft): 24.0
 Depth to Water (Ft): 7.79
 Water Column (Ft): 16.21
 80% Recharge Depth (Ft): 11.03

Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 4
 One Well
 Volume (Gals): 10.69 x 3 = 32.07

Well No.: MW-4A
 Total Depth (Ft): 23.50
 Depth to Water (Ft): 8.18
 Water Column (Ft): 15.32
 80% Recharge Depth (Ft): 11.24

Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 4
 One Well
 Volume (Gals): 10.11

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F.C)	pH
10:00		7.79	10	1.21	70.5	7.36
			20	1.13	70.7	7.31
			30	1.27	70.9	7.19
	10:09	8.72	32			
Total Purged:			52	Time Sampled: 10:09		

Comments: _____
 Turbidity: _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F.C)	pH
10:31		8.18	10	.87	69.2	7.3
			20	1.05	69.5	7.2
			30	1.13	70.1	7.2
	10:30	9.52	34			
Total Purged:			74	Time Sampled: 10:30		

Comments: _____
 Turbidity: _____

Well No.: MW-7A
 Total Depth (Ft): 24.51
 Depth to Water (Ft): 8.68
 Water Column (Ft): 15.82
 80% Recharge Depth (Ft): 11.84

Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 4
 One Well
 Volume (Gals): 10.44 x 3 = 31.22

Well No.: MW-5A
 Total Depth (Ft): 23.0
 Depth to Water (Ft): 6.87
 Water Column (Ft): 16.33
 80% Recharge Depth (Ft): 9.93

Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 4
 One Well
 Volume (Gals): 10.77

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F.C)	pH
11:05		8.68	10	1.10	69.2	7.41
			20	.75	69.8	7.37
			30	.90	70.5	7.30
	11:17	9.71	34			
Total Purged:			54	Time Sampled: 11:05		

Comments: _____
 Turbidity: _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F.C)	pH
11:31		6.87	10	.88	70.5	7.8
			20	.87	71.4	7.6
			30	.93	71.1	7.5
	11:41	7.91	32			
Total Purged:			74	Time Sampled: 11:31		

Comments: _____
 Turbidity: _____

Well No.: MW-2A
 Total Depth (Ft): 24.3
 Depth to Water (Ft): 7.65
 Water Column (Ft): 16.62
 80% Recharge Depth (Ft): 11.04

Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 2
 One Well
 Volume (Gals): 2.85 x 3 = 8.57

Well No.: MW-3A
 Total Depth (Ft): 22.45
 Depth to Water (Ft): 7.97
 Water Column (Ft): 14.48
 80% Recharge Depth (Ft): 10.86

Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 2
 One Well
 Volume (Gals): 2.46

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F.C)	pH
12:05		7.65	2	.87	71.0	7.51
			4	.87	71.0	7.39
			6	.87	71.5	7.32
	12:05	8.34	9			
Total Purged:			9	Time Sampled: 12:05		

Comments: _____
 Turbidity: _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F.C)	pH
12:27		7.97	2	.97	70.9	7.38
			4	.93	71.1	7.38
			6	.90	71.4	7.31
	12:30	8.21	7			
Total Purged:			19	Time Sampled: 12:27		

Comments: _____
 Turbidity: _____

Groundwater Sampling Field Note

Site: 04-FCW Project No.: 41-003-25 Sampled By: MFA Date: 2/2/94

PURGING EQUIPMENT: Beller (Teflon): _____ Beller (PVC): _____ Submersible Pump: X Dedicated: _____ Diaphragm Pump: _____ Other: _____

SAMPLING EQUIPMENT: Beller (Teflon): _____ Dedicated: _____ Other: _____

METER CALIBRATION: Date: _____ Temp. (F): _____ pH 7: _____ Loc. of Previous Calibration: _____
 Time: _____ EC 1000: _____ pH 10: _____
 Ser. No.: _____ DI: _____ pH 4: _____

Well No.: M4, 1A Purge Method: Sub
 Total Depth (Ft): 18.60 Depth to Product (Ft): 0
 Depth to Water (Ft): 2.35 Product Recovered (Gals): 0
 Water Column (Ft): 11.05 Casing Diameter (Inches): 2
 80% Recharge One Well
 Depth (Ft): 9.76 Volume (Gals): 1.87 x 3 = 5.63

Well No.: _____ Purge Method: _____
 Total Depth (Ft): _____ Depth to Product (Ft): _____
 Depth to Water (Ft): _____ Product Recovered (Gals): _____
 Water Column (Ft): _____ Casing Diameter (Inches): _____
 80% Recharge One Well
 Depth (Ft): _____ Volume (Gals): _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
1:00		7.55	1	1.11	71.0	7.54
			2	1.05	71.3	7.57
			3	1.05	71.5	7.54
1:02	8:30		5			
Total Purged:			5	Time Sampled: 7:30		

Comments: _____
 Turbidity: _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
Total Purged:				Time Sampled:		

Comments: _____
 Turbidity: _____

Well No.: _____ Purge Method: _____
 Total Depth (Ft): _____ Depth to Product (Ft): _____
 Depth to Water (Ft): _____ Product Recovered (Gals): _____
 Water Column (Ft): _____ Casing Diameter (Inches): _____
 80% Recharge One Well
 Depth (Ft): _____ Volume (Gals): _____

Well No.: _____ Purge Method: _____
 Total Depth (Ft): _____ Depth to Product (Ft): _____
 Depth to Water (Ft): _____ Product Recovered (Gals): _____
 Water Column (Ft): _____ Casing Diameter (Inches): _____
 80% Recharge One Well
 Depth (Ft): _____ Volume (Gals): _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
Total Purged:				Time Sampled:		

Comments: _____
 Turbidity: _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
Total Purged:				Time Sampled:		

Comments: _____
 Turbidity: _____

Well No.: _____ Purge Method: _____
 Total Depth (Ft): _____ Depth to Product (Ft): _____
 Depth to Water (Ft): _____ Product Recovered (Gals): _____
 Water Column (Ft): _____ Casing Diameter (Inches): _____
 80% Recharge One Well
 Depth (Ft): _____ Volume (Gals): _____

Well No.: _____ Purge Method: _____
 Total Depth (Ft): _____ Depth to Product (Ft): _____
 Depth to Water (Ft): _____ Product Recovered (Gals): _____
 Water Column (Ft): _____ Casing Diameter (Inches): _____
 80% Recharge One Well
 Depth (Ft): _____ Volume (Gals): _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
Total Purged:				Time Sampled:		

Comments: _____
 Turbidity: _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	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: D. Milano

Client Project ID: Mobil #04-FGN
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 602-0605

Sampled: Feb 8, 1996
Received: Feb 8, 1996
Reported: Feb 15, 1996

QC Batch Number: GC021396 GC021396 GC021396 GC021396 GC021396 GC021396 GC021396
802009A 802009A 802009A 802009A 802009A 802009A 802009A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 602-0605 MW-6A	Sample I.D. 602-0606 MW-4A	Sample I.D. 602-0607 MW-7A	Sample I.D. 602-0608 MW-5A	Sample I.D. 602-0609 MW-2A	Sample I.D. 602-0610 MW-3A
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	160	2,900	6,900
Benzene	0.50	N.D.	N.D.	N.D.	1.9	32	38
Toluene	0.50	1.3	1.1	1.4	2.2	13	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	13	230
Total Xylenes	0.50	1.3	0.92	1.5	0.89	N.D.	43
Chromatogram Pattern:		--	--	--	Gasoline	Gasoline	Gasoline

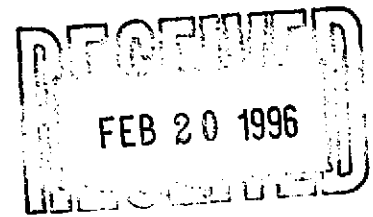
Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	10	40
Date Analyzed:	2/13/96	2/13/96	2/13/96	2/13/96	2/13/96	2/13/96
Instrument Identification:	HP-9	HP-9	HP-9	HP-9	HP-9	HP-9
Surrogate Recovery, %: (QC Limits = 70-130%)	114	113	111	100	90	83

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
Project Manager





Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: D. Milano

Client Project ID: Mobil #04-FGN
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 602-0611

Sampled: Feb 8, 1996
Received: Feb 8, 1996
Reported: Feb 15, 1996

QC Batch Number:

GC021396

802009A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 602-0611 MW-1A
Purgeable Hydrocarbons	50	8,000
Benzene	0.50	100
Toluene	0.50	21
Ethyl Benzene	0.50	87
Total Xylenes	0.50	58

Chromatogram Pattern:

Gasoline

Quality Control Data

Report Limit Multiplication Factor:	40
Date Analyzed:	2/13/96
Instrument Identification:	HP-9
Surrogate Recovery, %: (QC Limits = 70-130%)	96

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
Project Manager





Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: D. Milano	Client Project ID: Mobil #04-FGN Sample Matrix: Water Analysis Method: EPA 3510/8015 Mod. First Sample #: 602-0605	Sampled: Feb 8, 1996 Received: Feb 8, 1996 Reported: Feb 15, 1996
--	---	---

QC Batch Number:	SP021296	SP021296	SP021296	SP021296	SP021296	SP021296
	8015EXA	8015EXA	8015EXA	8015EXA	8015EXA	8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 602-0605 MW-6A	Sample I.D. 602-0606 MW-4A	Sample I.D. 602-0607 MW-7A	Sample I.D. 602-0608 MW-5A	Sample I.D. 602-0609 MW-2A	Sample I.D. 602-0610 MW-3A
Extractable Hydrocarbons	50	N.D.	N.D.	75	150	940	3800
Chromatogram Pattern:		--	--	Discrete Peaks	Discrete Peaks	Unidentified Hydrocarbons <C10	Unidentified Hydrocarbons <C10

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	2/12/96	2/12/96	2/12/96	2/12/96	2/12/96	2/12/96
Date Analyzed:	2/13/96	2/13/96	2/13/96	2/13/96	2/13/96	2/13/96
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A	HP-3B

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

SEQUOIA ANALYTICAL, #1271


 Kevin Van Slambrook
 Project Manager





Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: D. Milano	Client Project ID: Mobil #04-FGN Sample Matrix: Water Analysis Method: EPA 3510/8015 Mod. First Sample #: 602-0611	Sampled: Feb 8, 1996 Received: Feb 8, 1996 Reported: Feb 15, 1996
--	---	---

QC Batch Number: SP021296

8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 602-0611 MW-1A
Extractable Hydrocarbons	50	3600

Chromatogram Pattern: Unidentified Hydrocarbons <C10

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	2/12/96
Date Analyzed:	2/13/96
Instrument Identification:	HP-3B

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager

RECEIVED
FEB 28 1996
RECEIVED





Alton Geoscience
 30-A Lindbergh Ave.
 Livermore, CA 94550
 Attention: D. Milano

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

QC Sample Group: 6020605-0611

Reported: Feb 15, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Diesel
QC Batch#:	GC021396 802009A	GC021396 802009A	GC021396 802009A	GC021396 802009A	SP021296 8015EXA	SP021296 8015EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	EPA 8015
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510	EPA 3510
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	J. Dinsay	J. Dinsay
MS/MSD #:	6020606	6020606	6020606	6020606	BLK021296	BLK021296
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/13/96	2/13/96	2/13/96	2/13/96	2/12/96	2/12/96
Analyzed Date:	2/13/96	2/13/96	2/13/96	2/13/96	2/13/96	2/13/96
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	HP-3B	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	300 µg/L
Result:	22	22	19	65	304	281
MS % Recovery:	110	110	95	108	100	93
Dup. Result:	22	21	19	63	194	192
MSD % Recov.:	110	105	95	105	63	63
RPD:	0.0	4.7	0.0	3.1	45	38
RPD Limit:	0-50	0-50	0-50	0-50	0-50	0-50

LCS #:	9LCS021396	9LCS021396	9LCS021396	9LCS021396	LCS021296	LCS021296
Prepared Date:	2/13/96	2/13/96	2/13/96	2/13/96	2/12/96	2/12/96
Analyzed Date:	2/13/96	2/13/96	2/13/96	2/13/96	2/12/96	2/12/96
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	HP-3B	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	300 µg/L
LCS Result:	23	22	21	67	301	284
LCS % Recov.:	115	110	105	112	100	93

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	50-150	50-150
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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.

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

SEQUOIA ANALYTICAL, #1271

[Signature]
 Kevin Van Slambrook
 Project Manager





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>ALTON Geo Science</u>			Station No./Site Address: <u>04- FGN/14994 EAST 14th St</u>		
Address: <u>30 A Lindbergh AV</u>			Project Contact: <u>DINO MILANO</u>		
City: <u>Livermore</u>		State: <u>CA</u>	Zip: <u>94550</u>		Mobil Oil Engineer: <u>Steve Rao</u>
Tel: <u>510-606-9150</u>		Fax: <u></u>		Sampler(s) signature: <u>[Signature]</u>	

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 checked="" 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	TTL <input type="checkbox"/> STL <input type="checkbox"/> STL <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	CODING (check one)	
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Mw-6A	H2O	2/8	10:15	11cc 2/10	3	1.1A 2/10		X	X					6020605			AD									Code 2 <input type="checkbox"/> Site Assessment
Mw-4A	↑	↑	10:35	↑	↑	↑		+	+					6020606												Code 3 <input type="checkbox"/> Remediation (Plan Development)
Mw-7A	↑	↑	11:20	↑	↑	↑		+	+					6020607												Code 4 <input type="checkbox"/> Active Remediation (Install./Start-up)
Mw-5A	↑	↑	11:45	↑	↑	↑		+	+					6020608												Code 5 <input type="checkbox"/> Active Remediation (O & M)
Mw-2A	↑	↑	12:15	↑	↑	↑		+	+					6020609												Code 6 <input checked="" type="checkbox"/> Passive Remediation Monitoring
Mw-3A	↑	↑	12:35	↑	↑	↑		+	+					6020610												Code 7 <input type="checkbox"/> Closure
Mw-1A	↑	↑	1:05	↑	↑	↑		+	+					6020611			↓									Code 8 <input type="checkbox"/> Construction

Relinquished by: <u>[Signature]</u>	Date/Time: <u></u>	Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/8/96 4:20</u>	Turnaround Time: (check one) Normal <input checked="" type="checkbox"/> Same day 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 5 day <input type="checkbox"/>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/8/96 5:10</u>	Relinquished by:	Date/Time:	
Relinquished by:	Date/Time:	Relinquished in Lab by: <u>[Signature]</u>	Date/Time: <u>2/8 1710</u>	
Remarks:				Sample Integrity: Intact <input type="checkbox"/> On Ice <input checked="" type="checkbox"/>

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		2. Page 1 of 1		3. Document Number NH-No 2915			
4. Generator's Name and Mailing Address MOBIL OIL CORPORATION 8700 WEST 190th ST. TPT-2 TORRANCE, CA 90509-2929 Generator's Phone (310) 212-1877				7. Transporter Phone 1-800-499-3676					
5. Transporter Company Name CLEARWATER ENVIRONMENTAL MANAGEMENT		8. US EPA ID Number CA9000007013		10. Facility's Phone 1-805-762-7607					
6. Designated Facility Name and Site Address MCKITTRICK WASTE TREATMENT SITE 52533 HWY 58 WEST MCKITTRICK, CA 93251		8. US EPA ID Number CA980636831		10. Facility's Phone 1-805-762-7607					
11. Waste Shipping Name and Description a. MONITORING WELL PURGE WATER NON-HAZARDOUS WASTE LIQUID b.				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
				001 TT		550		G	
15. Special Handling Instructions and Additional Information WEAR PERSONAL PROTECTIVE GEAR DO NOT INGEST PLEASE SIGN WATER TRANSPORT FORM AND RETURN TO GENERATOR EMERGENCY CONTACT 510-797-8511 1-800-499-3676 ATTN: JERRY HAYWARD				Handling Codes for Wastes Listed Above 11a. NONE 11b. JOBSITE: ALTON GEOSCIENCE 30-A LINDBERG LIVERMORE, CA 94550					
16. GENERATOR'S CERTIFICATION: I certify the manifest, manifests, manifests, manifests are not used in violation of Federal regulations for reporting proper disposal of hazardous waste.									
Printed/Typed Name DENG G. MILANO as agent for Mobil				Signature 				Month Day Year 02 12 96	
17. Transporter Acknowledgement of Receipt of Material Printed/Typed Name KEVIN SANTOS				Signature 				Month Day Year 02 12 96	
18. Discrepancy Indication Space									
19. Facility Owner or Operator: Certification of receipt of waste by the transporter in accordance with 40 CFR 263.10									
Printed/Typed Name MUTS #7.0 ANNE SCHWARTZ				Signature 				Month Day Year 02 13 96	