Mobil Oil Corporation

2063 MAIN ST., SUITE 501
OAKLEY, CALIFORNIA 94561

August 25, 1995

Scott Seery
Alameda County Environmental Health Department
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502

Re: Former Mobil location 04-H6J, 1024 Main St., Pleasanton, CA

Dear Mr. Seery:

Enclosed is a copy of the Second Quarter 1995 monitoring and sampling report for the above referenced location. This report summarizes the results of sampling taken in May, 1995.

Should you have any questions, please call me at (510) 625-1173.

Sincerely,

Cherine Foutch
Project Engineer

Enclosure

cc: Gary lee, Pleasanton Dept. of Public Works
Kevin Graves, RWQCB
Craig Mayfield, ACFC&WCD
Ron Scheele (w/o enclosure)

ALTON GEOSCIENCE
THE RESULTS TEAM

July 18, 1995

Mobil Oil Corporation
2063 Main Street, #501
Oakley, California 94537

Alton Project No.30-0065

ATTN: MS. CHERINE FOUTCH

SITE: FORMER MOBIL STATION 04-H6J
1024 MAIN STREET
PLEASANTON, CALIFORNIA

RE: QUARTERLY PROGRESS REPORT,
SECOND QUARTER 1995

Dear Ms.Foutch:

This quarterly report presents the results of fluid level monitoring and groundwater sampling at the above-referenced site. On May 3 and 4, 1995, fluid levels were measured and groundwater samples were collected in six monitoring and three recovery wells. No groundwater samples were collected from wells with free product (MW-2 and RW-1), in accordance with standard protocol. Groundwater samples were submitted to a state-certified laboratory for analysis. The results of the investigation are attached. Unocal Station No. 0543, located directly south of the site, was monitored and sampled by KEI on May 3, 1995. The results of the KEI investigation are included in the attachments.

Fluids recovered during sampling activities were treated onsite by a groundwater treatment system prior to discharging into the sanitary sewer system. Discharges into the sanitary sewer are permitted by the Dublin San Ramon Sewer District.

ATTACHMENTS

Figure 1:	Groundwater Elevation Contour Map
Figure 2:	Dissolved-Phase Hydrocarbon Concentrations
Table 1:	Summary of Groundwater Monitoring and Analysis
Appendix:	General Field Procedures, Official Laboratory Reports, and Chain of Custody Records

This report was prepared in compliance with the requirements of the Alameda County Environmental Health Department.

30A Lindbergh Avenue
Livermore, California 94550
(510) 606-9150 • FAX (510) 606-9260

Quarterly Progress Report, Second Quarter 1995
Former Mobil Station 04-H6J
July 18, 1995

If you have any questions regarding this report, please call us at (510) 606-9150.

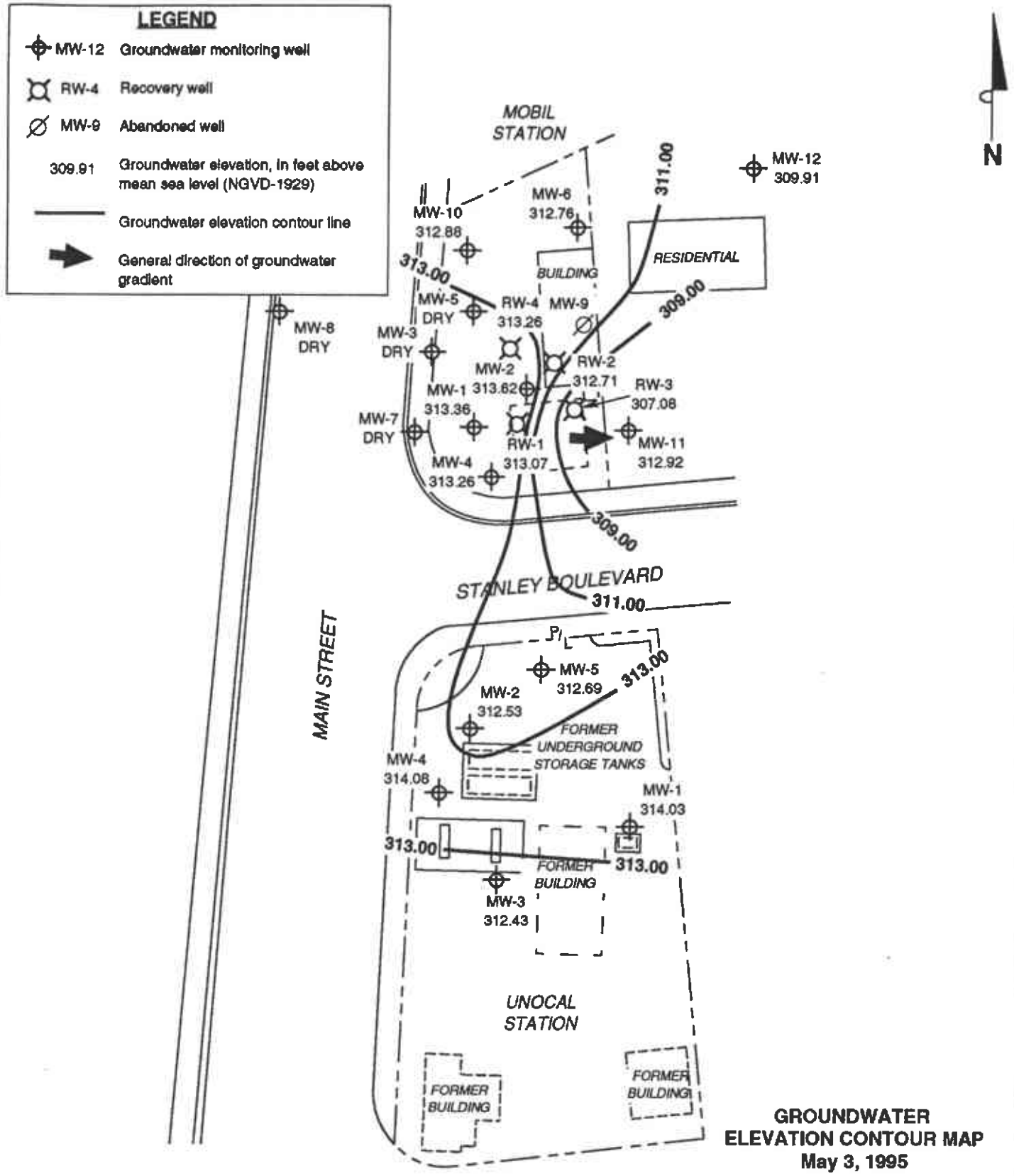
Sincerely,

ALTON GEOSCIENCE

Ron A. Scheele
Project Geologist

Matthew W. Katen, RG
Senior Geologist

Attachments
30-0065/M:\...\04H6JR12.QFM



GROUNDWATER ELEVATION CONTOUR MAP
May 3, 1995

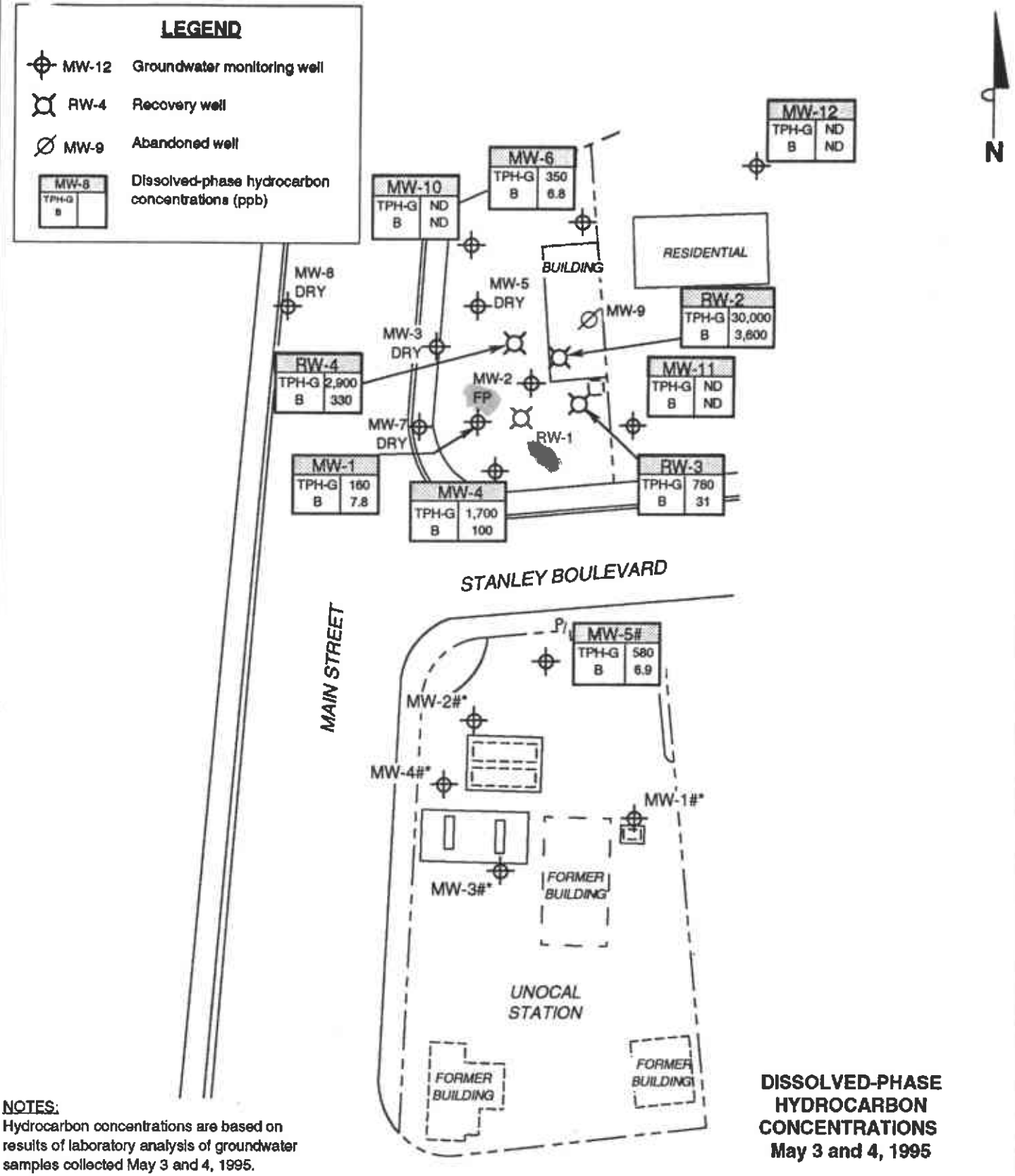
Former Mobil Station 04-H6J
1024 Main Street
Pleasanton, California
and
Unocal Station #0543
922 Main Street
Pleasanton, California

NOTES:
Contours are interpretive based on fluid level measurements collected May 3, 1995 with the automatic recovery system not operating.
Contour interval = 2.0 foot.

ALTON GEOSCIENCE
Livermore, California

FIGURE 1

30-0065/Site Plan 07/07/95



NOTES:
Hydrocarbon concentrations are based on results of laboratory analysis of groundwater samples collected May 3 and 4, 1995.
ND = not detected at detection limits stated in official laboratory reports. TPH-G= total petroleum hydrocarbons as gasoline; B = benzene; ppb = parts per billion.
FP = not sampled due to presence of free product. * = well not sampled.

ALTON GEOSCIENCE
Livermore, California

SCALE (feet)
0 30 60

DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS
May 3 and 4, 1995

Former Mobil Station 04-H6J
1024 Main Street
Pleasanton, California
and
Unocal Station #0543
922 Main Street
Pleasanton, California

FIGURE 2

30-0065/Site Plan 06/12/95

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-1	04/12/90	348.03	0.00	43.57	304.46	3,600	—	73	13	3	180
	10/18/90		0.00	43.18	304.85	5,000	ND	700	360	170	480
	08/06/91		0.00	38.65	309.38	2,600	—	310	340	110	340
	01/08/92		0.00	38.68	309.35	2,400	—	270	370	18	340
	04/30/92		0.00	39.93	308.10	1,300	—	150	120	12	160
	07/31/92		0.00	43.05	304.98	ND	—	ND	ND	ND	ND
	10/27/92		0.00	42.86	305.17	2,700	—	320	310	84	310
	01/22/93		0.00	34.88	313.15	2,800	—	190	340	87	320
	04/05/93		0.00	33.71	314.32	6,000	—	410	460	51	500
	07/06/93		0.00	35.46	312.57	2,200	—	140	240	32	180
	11/30/93		0.00	37.81	310.22	450	—	68	34	ND	48
	01/27/94		0.00	42.10	305.93	1,000	—	270	330	44	190
	04/25/94		0.00	40.33	307.70	—	—	—	—	—	—
	04/26/94		—	—	—	3,500	—	310	370	22	320
	07/08/94		0.00	41.39	306.64	640	—	120	87	15	43
	10/05/94		0.00	42.19	305.84	970	—	110	140	21	90
	02/21/95		0.00	34.73	313.30	3,500	—	200	270	24	100
	05/03/95		0.00	34.67	313.36	160	—	7.8	12	4.5	20
MW-2	04/12/90	348.45	0.00	44.14	304.31	64,000	—	5,500	7,600	1,900	7,800
	10/18/90		0.00	43.18	305.27	83,000	10,000	6,800	9,100	2,400	11,000
	08/06/91		0.00	39.19	309.26	160,000	—	16,000	25,000	4,300	19,000
	01/08/92		0.02	39.40	309.07	—	—	—	—	—	—
	04/30/92		0.00	40.50	307.95	71,000	—	9,200	19,000	3,700	15,000
	07/31/92		0.15	43.64	304.92	—	—	—	—	—	—

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-2	10/27/92		Trace	43.53	304.92	—	—	—	—	—	—
(con't)	01/22/93		Trace	35.55	312.90	—	—	—	—	—	—
	04/05/93		Trace	34.41	314.04	—	—	—	—	—	—
	07/06/93		Trace	35.98	312.47	—	—	—	—	—	—
	11/30/93		0.48	38.78	310.03	—	—	—	—	—	—
	01/27/94		0.01	42.50	305.96	—	—	—	—	—	—
	04/25/94		Trace	40.32	308.13	—	—	—	—	—	—
	07/08/94		Trace	42.46	305.99	—	—	—	—	—	—
	10/05/94		Trace	42.78	305.67	—	—	—	—	—	—
	02/21/95		0.12	34.88	313.66	—	—	—	—	—	—
	05/03/95		0.62	35.30	313.62	—	—	—	—	—	—
MW-3	04/12/90	347.97	0.00	23.18	324.79	2,100	—	32	56	31	170
	10/18/90		0.00	14.28	333.69	110	ND	3	3	1	5
	08/06/91		—	Dry	—	—	—	—	—	—	—
	01/08/92		0.00	32.36	315.61	680	—	8.9	26	8.5	72
	04/30/92		—	Dry	—	—	—	—	—	—	—
	07/31/92		—	Dry	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—
	01/22/93		0.00	27.30	320.67	2,600	—	240	300	170	440
	04/05/93		—	Dry	—	—	—	—	—	—	—
	07/06/93		—	Dry	—	—	—	—	—	—	—
	11/30/93		—	Dry	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-3	07/08/94		—	Dry	—	—	—	—	—	—	—
(con't)	02/21/95		—	Dry	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—
MW-4	10/18/90	348.07	0.00	43.16	304.91	9,600	2,000	180	500	200	1,200
	08/06/91		0.00	38.65	309.42	8,600	—	320	420	220	650
	01/08/92		0.00	38.65	309.42	3,400	—	600	880	220	1,100
	04/30/92		0.00	39.88	308.19	7,200	—	650	1,200	210	1,200
	07/31/92		0.00	43.07	305.00	3,800	—	320	340	120	360
	10/27/92		0.00	42.78	305.29	9,000	—	440	750	190	900
	01/22/93		0.00	34.76	313.31	12,000	—	540	1,200	320	1,900
	04/05/93		0.00	33.61	314.46	1,100	—	34	18	12	31
	07/06/93		0.00	35.37	312.70	4,000	—	220	300	43	440
	11/30/93		0.00	37.78	310.29	1,400	—	140	83	54	110
	01/27/94		0.00	42.10	305.97	910	—	140	75	24	94
	04/25/94		0.00	40.28	307.79	—	—	—	—	—	—
	04/26/94		—	—	—	27,000	—	1,200	1,800	580	2,500
	07/08/94		0.00	41.38	306.69	540	—	57	47	17	43
	10/05/94		0.00	42.17	305.90	3,200	—	230	280	73	210
	02/21/95		0.02	34.87	313.22	—	—	—	—	—	—
	05/03/95		0.00	34.81	313.26	—	—	—	—	—	—
	05/04/95		—	—	—	1,700	—	100	200	50	240
MW-5	10/18/90	347.97	—	**	—	—	—	—	—	—	—
	08/06/91		0.00	34.25	313.72	—	—	—	—	—	—

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-5	01/08/92		0.00	34.22	313.75	—	—	—	—	—	—
(con't)	04/30/92		—	Dry	—	—	—	—	—	—	—
	07/31/92		—	Dry	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—
	07/06/93		—	Dry	—	—	—	—	—	—	—
	11/30/93		—	Dry	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—
	04/25/94		0.00	34.23	313.74	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—
MW-6	10/18/90	348.23	0.00	43.60	304.63	3,000	ND	1,300	150	120	85
	08/06/91		0.00	39.07	309.16	1,600	—	220	10	5.2	14
	01/08/92		0.00	39.18	309.05	370	—	81	3.9	4.5	2.9
	04/30/92		0.00	40.46	307.77	610	—	180	8.4	6.8	3.3
	07/31/92		0.00	43.61	304.62	96	—	1,500	1,500	370	1,100
	10/27/92		0.00	43.68	304.55	9,400	—	27	ND	6	10
	01/22/93		0.00	35.66	312.57	250	—	12	2.4	1.4	1.9
	04/05/93		0.00	34.41	313.82	190	—	2.3	0.99	ND	0.5
	07/06/93		0.00	36.01	312.22	99	—	1.4	0.54	ND	ND
	11/30/93		0.00	38.36	309.87	86	—	9.1	ND	ND	ND
	01/27/94		0.00	42.57	305.66	140	—	1.7	ND	ND	ND

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-6	04/25/94		0.00	40.77	307.46	—	—	—	—	—	—
(con't)	04/26/94		—	—	—	330	—	40	ND	ND	ND
	07/08/94		0.00	41.82	306.41	170	—	8.8	9.2	3.5	12
	10/05/94		0.00	42.64	305.59	600	—	100	5.6	11	12
	02/21/95		0.01	35.55	312.69	—	—	—	—	—	—
	05/03/95		0.00	35.47	312.76	—	—	—	—	—	—
	05/04/95		—	—	—	350	—	6.8	1.8	7.4	7.1
MW-7	10/18/90	347.90	0.00	9.26	338.64	ND	ND	0	0.5	ND	0.8
	08/06/91		—	Dry	—	—	—	—	—	—	—
	01/08/92		0.00	23.79	324.11	220	—	7.8	1.7	ND	0.55
	04/30/92		—	Dry	—	—	—	—	—	—	—
	07/31/92		—	Dry	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—
	07/06/93		—	Dry	—	—	—	—	—	—	—
	11/30/93		—	Dry	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-8	10/18/90	348.90	0.00	11.30	337.60	900	ND	3	5	7	62
	08/06/91		—	Dry	—	—	—	—	—	—	—
	01/08/92		—	Dry	—	—	—	—	—	—	—
	04/30/92		—	Dry	—	—	—	—	—	—	—
	07/31/92		0.00	12.04	336.86	270*	—	ND	ND	ND	1.3
	10/27/92		—	Dry	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—
	07/06/93		0.00	7.48	341.42	ND	—	ND	ND	ND	ND
	11/30/93		—	Dry	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—
	10/05/94		—	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—
MW-9	02/04/92	348.53	0.00	43.54	304.99	16,000	—	3,000	740	1,200	2,500
	04/30/92		0.00	42.83	305.70	5,600	—	1,000	120	410	350
	07/31/92		0.00	47.36	301.17	93	—	1,800	1,900	620	940
	10/27/92		0.00	48.32	300.21	13,000	—	2,400	1,600	680	1,100
	01/22/93		0.00	39.11	309.42	5,600	—	1,200	200	510	350
	04/05/93		0.00	37.10	311.43	7,900	—	1,300	510	620	670
	07/06/93		0.00	39.21	309.32	3,200	—	510	46	170	150
	11/30/93		0.00	40.58	307.95	2,800	—	610	28	220	65

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-9	01/27/94		0.00	44.32	304.21	11,000	—	1,400	130	230	700
(con't)	04/25/94		0.00	43.05	305.48	—	—	—	—	—	—
	04/26/94		—	—	—	3,900	—	460	56	160	220
	07/08/94		0.00	45.72	302.81	2,600	—	340	82	96	220
(Abandoned	08/01/94)										
MW-10	11/30/93	347.95	0.00	37.97	309.98	ND	—	ND	ND	ND	ND
	01/27/94		0.00	42.16	305.79	ND	—	ND	ND	ND	1.2
	04/25/94		0.00	40.39	307.56	—	—	—	—	—	—
	04/26/94		—	—	—	810	—	17	0.84	ND	ND
	07/08/94		0.00	41.45	306.50	110	—	18	12	3.7	14
	10/05/94		0.00	42.28	305.67	87	—	8.0	5.0	0.85	4.5
	02/21/95		0.00	35.14	312.81	70	—	3.6	12	1.8	9.5
	05/03/95		0.00	35.07	312.88	ND	—	ND	ND	ND	ND
MW-11	11/30/93	347.56	0.00	38.41	309.15	ND	—	ND	ND	ND	1.6
	01/27/94		0.00	38.02	309.54	ND	—	ND	ND	ND	ND
	04/25/94		0.00	38.77	308.79	—	—	—	—	—	—
	04/26/94		—	—	—	ND	—	ND	ND	ND	1.7
	07/08/94		0.00	41.70	305.86	120	—	23	18	4.0	15
	10/05/94		0.00	44.49	303.07	130	—	12	19	4.6	24
	02/21/95		0.00	41.74	305.82	300	—	27	64	7.3	36
	05/03/95		0.00	34.64	312.92	ND	—	ND	ND	ND	ND

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-12	11/30/93	347.15	0.00	37.97	309.18	55	—	1.8	4.3	2.5	11
	01/27/94		0.00	44.02	303.13	ND	—	ND	ND	ND	ND
	04/25/94		0.00	42.27	304.88	—	—	—	—	—	—
	04/26/94		—	—	—	ND	—	ND	ND	ND	1.4
	07/08/94		0.00	43.26	303.89	53	—	8.4	7.4	1.9	7.1
	10/05/94		0.00	44.32	302.83	350	—	27	56	13	67
	02/21/95		0.00	37.83	309.32	ND	—	4.0	4.0	0.77	3.6
	05/03/95		0.00	37.24	309.91	ND	—	ND	ND	ND	ND
VMW-1	11/30/93	348.05	—	Dry	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—
	10/05/94		—	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—
VMW-2	11/30/93	347.90	—	Dry	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—
	04/25/94		0.00	33.82	314.08	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
VMW-3	11/30/93	348.10	—	Dry	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—
	04/25/94		Trace	31.23	316.87	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—
VMW-4	11/30/93	347.95	—	Dry	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—
	04/25/94		—	31.41	316.54	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—
RW-1	11/30/93	347.89	Trace	37.75	310.14	—	—	—	—	—	—
	01/27/94		Trace	42.00	305.89	—	—	—	—	—	—
	04/25/94		0.02	40.24	307.67	—	—	—	—	—	—
	07/08/94		0.15	41.41	306.59	—	—	—	—	—	—
	10/05/94		Trace	42.18	305.71	—	—	—	—	—	—
	02/21/95		Trace	34.94	312.95	110,000	—	16,000	29,000	2,200	14,000
	05/03/95		0.01	34.83	313.07	—	—	—	—	—	—
RW-2	10/05/94	—	0.00	43.33	—	41,000	—	6,500	6,300	1,000	5,400
	02/21/95	347.82	0.00	35.05	312.77	45,000	—	6,200	2,600	1,400	5,600
	05/03/95		0.00	35.11	312.71	30,000	—	3,600	2,000	1,000	5,700

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
RW-3	10/05/94	—	0.00	44.66	—	1,600	—	120	180	26	170
	02/21/95	347.92	0.00	39.85	308.07	620	—	67	30	12	48
	05/03/95		0.00	40.12	307.80	780	—	31	28	6.0	40
RW-4	10/05/94	—	0.00	42.62	—	130	—	11	4.9	1.5	9.2
	02/21/95	348.29	0.02	35.40	312.91	—	—	—	—	—	—
	05/03/95		0.00	35.03	313.26	—	—	—	—	—	—
	05/04/95		—	—	—	2,900	—	330	130	120	410
FORMER UNOCAL STATION #0543 WELLS											
MW-1#	12/16/92	351.18	—	—	—	ND	ND	ND	ND	ND	ND
	02/02/93		0.00	37.76	313.42	—	—	—	—	—	—
	03/01/93		0.00	36.26	314.92	—	—	—	—	—	—
	04/14/93		0.00	36.56	314.62	ND	ND	ND	ND	ND	ND
	05/14/93		0.00	37.27	313.91	—	—	—	—	—	—
	06/15/93		0.00	38.02	313.16	—	—	—	—	—	—
	07/06/93		0.00	38.06	313.12	ND	ND	ND	ND	ND	ND
	11/30/93	350.78	—	—	—	—	—	—	—	—	—
	01/27/94		0.00	43.41	307.37	ND	—	ND	ND	ND	ND
	04/25/94		0.00	45.32	305.46	ND	—	ND	3.5	ND	3.4
	07/08/94		0.00	46.26	304.52	—	—	—	—	—	—

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-1#	10/05/94		0.00	47.26	303.52	ND	—	ND	ND	ND	ND
(con't)	01/04/95		0.00	44.98	305.80	ND	—	ND	ND	ND	ND
	05/03/95		0.00	36.75	314.03	—	—	—	—	—	—
MW-2#	12/16/92	349.83	—	—	—	1,600	—	28	ND	5.1	5.6
	02/02/93		0.00	39.18	310.65	—	—	—	—	—	—
	03/01/93		0.00	34.33	315.50	—	—	—	—	—	—
	04/14/93		0.00	37.56	312.27	4,300	—	7.2	5.8	13	10
	05/14/93		0.00	37.49	312.34	—	—	—	—	—	—
	06/15/93		0.00	39.34	310.49	—	—	—	—	—	—
	07/06/93		0.00	37.82	312.01	4,700	—	17	15	30	28
	11/30/93	349.51	—	—	—	—	—	—	—	—	—
	01/27/94		0.00	43.15	306.36	1,500	—	28	9.0	ND	20
	04/25/94		0.00	41.90	307.61	1,100	—	19	1.7	2.5	8.8
	07/08/94		0.00	42.75	306.76	—	—	—	—	—	—
	10/05/94		0.00	43.50	306.01	240	—	4.7	2.5	0.52	2.6
	01/04/95		0.00	44.75	304.76	2,000	—	23	ND	ND	ND
	05/03/95		0.00	36.98	312.53	—	—	—	—	—	—
MW-3#	12/16/92	351.35	—	—	—	ND	—	ND	ND	ND	ND
	02/02/93		0.00	40.62	310.73	—	—	—	—	—	—
	03/01/93		0.00	35.7	315.65	—	—	—	—	—	—
	04/14/93		0.00	38.97	312.38	ND	—	ND	ND	ND	ND
	05/14/93		0.00	39.07	312.28	—	—	—	—	—	—
	06/15/93		0.00	40.68	310.67	—	—	—	—	—	—

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-3#	07/06/93		0.00	37.82	313.53	ND	—	ND	ND	ND	ND
(con't)	11/30/93	351.04	—	—	—	—	—	—	—	—	—
	01/27/94		0.00	44.25	306.79	ND	—	ND	ND	ND	ND
	04/25/94		0.00	43.23	307.81	ND	—	ND	1.4	ND	1.8
	07/08/94		0.00	44.01	307.03	—	—	—	—	—	—
	10/05/94		0.00	44.66	306.38	ND	—	ND	ND	ND	ND
	01/04/95		0.00	44.90	306.14	ND	—	ND	ND	ND	ND
	05/03/95		0.00	38.61	312.43	—	—	—	—	—	—
MW-4#	01/27/94	350.14	0.00	43.37	306.77	ND	—	ND	ND	ND	ND
	04/25/94		0.00	42.28	307.86	ND	—	ND	1.2	ND	1.5
	07/08/94		0.00	43.2	306.94	—	—	—	—	—	—
	10/05/94		0.00	43.97	306.17	ND	—	ND	ND	ND	ND
	01/04/95		0.00	44.96	305.18	ND	—	ND	ND	ND	ND
	05/03/95		0.00	36.06	314.08	—	—	—	—	—	—

Table 1

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth To Water	Ground-water Elevation	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
MW-5#	01/27/94	349.33	0.00	44.76	304.57	320	—	1.8	1.3	2.6	4.5
	04/25/94		0.00	44.30	305.03	160	—	ND	1.9	1.4	1.9
	07/08/94		0.00	45.17	304.16	—	—	—	—	—	—
	10/05/94		0.00	46.07	303.26	83	—	0.73	0.90	ND	3.0
	01/04/95		0.00	46.38	302.95	210	—	ND	0.74	ND	0.90
	05/03/95		0.00	36.64	312.69	580	—	6.9	1.5	1.6	1.7

NOTES:

ppb = parts per billion
TPH-G = total petroleum hydrocarbons as gasoline
TPH-D = total petroleum hydrocarbons as diesel
ND = not detected at or above method detection limits
— = not measured/not analyzed
1,2-DCE = 1,2-Dichloroethane
* = reported by laboratory as non-gasoline mixture
** = well inaccessible
# = wells installed by Kaprealian Engineering at former Unocal Station #0543; resurveyed by Kier & Wright Civil Engineers & Surveyors, Inc. 09/20/93.
Trace = product present but too thin to be measured

APPENDIX

GENERAL FIELD PROCEDURES, OFFICIAL LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORDS

GENERAL FIELD PROCEDURES

General field procedures used during fluid level monitoring and groundwater sampling activities are described below.

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 ground water 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.

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

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Sample Matrix: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 505-0388

Sampled: May 3 & 4, 1995
Received: May 5, 1995
Reported: May 17, 1995

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 505-0388 MW-1	Sample I.D. 505-0389 MW-4	Sample I.D. 505-0390 MW-6	Sample I.D. 505-0391 MW-10	Sample I.D. 505-0392 MW-11	Sample I.D. 505-0393 MW-12
Purgeable Hydrocarbons	50	160	1,700	350	N.D.	N.D.	N.D.
Benzene	0.50	7.8	100	6.8	N.D.	N.D.	N.D.
Toluene	0.50	12	200	1.8	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	4.5	50	7.4	N.D.	N.D.	N.D.
Total Xylenes	0.50	20	240	7.1	N.D.	N.D.	N.D.
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	4.0	1.0	1.0	1.0	1.0
Date Analyzed:	5/9/95	5/9/95	5/10/95	5/9/95	5/9/95	5/9/95
Instrument Identification:	HP-5	HP-5	HP-9	HP-5	HP-5	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	82	70	82	90	88	105

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

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Sequoia Analytical

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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

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Sample Matrix: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 505-0394

Sampled: May 3 & 4, 1995
Received: May 5, 1995
Reported: May 17, 1995

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 505-0394 RW-2	Sample I.D. 505-0395 RW-3	Sample I.D. 505-0396 RW-4
Purgeable Hydrocarbons	50	30,000	780	2,900
Benzene	0.50	3,600	31	330
Toluene	0.50	2,000	28	130
Ethyl Benzene	0.50	1,000	6.0	120
Total Xylenes	0.50	5,700	40	410
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	200	4.0	10
Date Analyzed:	5/10/95	5/9/95	5/9/95
Instrument Identification:	HP-9	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	81	113	88

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

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Matrix: Liquid

QC Sample Group: 5050388-96

Reported: May 17, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere
MS/MSD Batch#:	5050399	5050399	5050399	5050399
Date Prepared:	5/9/95	5/9/95	5/9/95	5/9/95
Date Analyzed:	5/9/95	5/9/95	5/9/95	5/9/95
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	90	95	95	97
Matrix Spike Duplicate % Recovery:	85	90	90	92
Relative % Difference:	5.7	5.4	5.4	5.3
LCS Batch#:	3LCS050995	3LCS050995	3LCS050995	3LCS050995
Date Prepared:	5/9/95	5/9/95	5/9/95	5/9/95
Date Analyzed:	5/9/95	5/9/95	5/9/95	5/9/95
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
LCS % Recovery:	95	94	95	99
% Recovery Control Limits:	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL, #1271

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.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Matrix: Liquid

QC Sample Group: 5050388-96

Reported: May 17, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
MS/MSD Batch#:	5050293	5050293	5050293	5050293
Date Prepared:	5/10/95	5/10/95	5/10/95	5/10/95
Date Analyzed:	5/10/95	5/10/95	5/10/95	5/10/95
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	100	105	115	117
Matrix Spike Duplicate % Recovery:	100	110	110	108
Relative % Difference:	0.0	4.7	4.4	8.0
LCS Batch#:	4LCS051095	4LCS051095	4LCS051095	4LCS051095
Date Prepared:	5/10/95	5/10/95	5/10/95	5/10/95
Date Analyzed:	5/10/95	5/10/95	5/10/95	5/10/95
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9
LCS % Recovery:	100	103	105	110
% Recovery Control Limits:	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL, #1271

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.

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

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Matrix: Liquid

QC Sample Group: 5050388-96

Reported: May 17, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
MS/MSD Batch#:	5050370	5050370	5050370	5050370
Date Prepared:	5/9/95	5/9/95	5/9/95	5/9/95
Date Analyzed:	5/9/95	5/9/95	5/9/95	5/9/95
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:	105	105	110	110
Matrix Spike Duplicate % Recovery:	95	95	100	100
Relative % Difference:	10	10	9.5	9.5
LCS Batch#:	1LCS050995	1LCS050995	1LCS050995	1LCS050995
Date Prepared:	5/9/95	5/9/95	5/9/95	5/9/95
Date Analyzed:	5/9/95	5/9/95	5/9/95	5/9/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	104	105	111	110
% Recovery Control Limits:	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL, #1271

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.

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☐ 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: ALTON GEOSCIENCE
Station No./Site Address: MOBIL 04-HGJ 1024 MAIN PLEASANTON
Address: 30A LINDBERGH AVE
Project Contact: RON SCHEELE
City: LIVERMORE State: CA Zip: 94550
Mobil Oil Engineer: Cherie Tuttle
Tel: (510) 606-9150 Fax: (510) 606-9260
Sampler(s) (signature): JONATHAN FISH

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 ☐ Diesel	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 ☐ STLC	Lead Org./DHS ☐ Lead Total	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent		
MW-1	WATER	5/3/95	1635	HCl/ICE	3	3 VOA		X						5050388			A-C					
MW-4		5/4/95	1004											5050389								
MW-6		5/4/95	0956											5050390								
MW-10		5/3/95	1520											5050391								
MW-11		5/3/95	1445											5050392								
MW-12		5/3/95	1620											5050393								
RW-2		5/3/95	2022											5050394								
RW-3		5/3/95	1725											5050395								
RW-4	WATER	5/4/95	0945	HCl/ICE	3	3 VOA		X						5050396								

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	Date/Time	Relinquished by	Date/Time
[signature]	5/5 9:55	[signature]	5/5 9:55
[signature]	5/5 7:30	[signature]	5-5 8:30
[signature]	5-5 5:30	Relinquished in Lab by: [signature]	5-5 5:30

Turnaround Time: (check one)
Normal X Same day ____
1 day ____ 2 day ____
5 day ____

Sample Integrity:
Intact ____ On Ice ____

Remarks
SAMPLES PRESERVED W/ HCl AND ICE.