

Mobil Oil Corporation

2063 MAIN ST., SUITE 501
OAKLEY, CALIFORNIA 94561

March 29, 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 First Quarter 1995 monitoring and sampling report for the above referenced location. This report summarizes the results of sampling taken in February 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)

March 23, 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,
FIRST QUARTER 1995

Dear Ms.Foutch:

This quarterly report presents the results of fluid level monitoring and groundwater sampling at the above-referenced site. On February 21, 1995, fluid levels were measured and groundwater samples were collected in four monitoring and three recovery wells. No groundwater samples were collected from wells with free product (MW-2, MW-4, MW-6, and RW-4), in accordance with standard protocol. Groundwater samples were submitted to a state-certified laboratory for analysis. Unocal Station No. 0543 Monitoring Wells MW-1 through MW-5, located directly south of the site, were monitored and sampled by KEI on January 4, 1995 (refer to Table 1). The results of the investigation are attached.

Fluids recovered during sampling activities were stored onsite in labeled, Department of Transportation-approved drums prior to transport by IWM, Inc. for offsite recycling at McKittrick Waste Treatment Facility in McKittrick, California.

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.

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

Sincerely,

ALTON GEOSCIENCE

Ron Scheele

Ron A. Scheele
Geologist

Matthew W. Katen

Matthew W. Katen, RG
Senior Geologist






Attachments

30-0065/M:\...04H6JR07.QFM

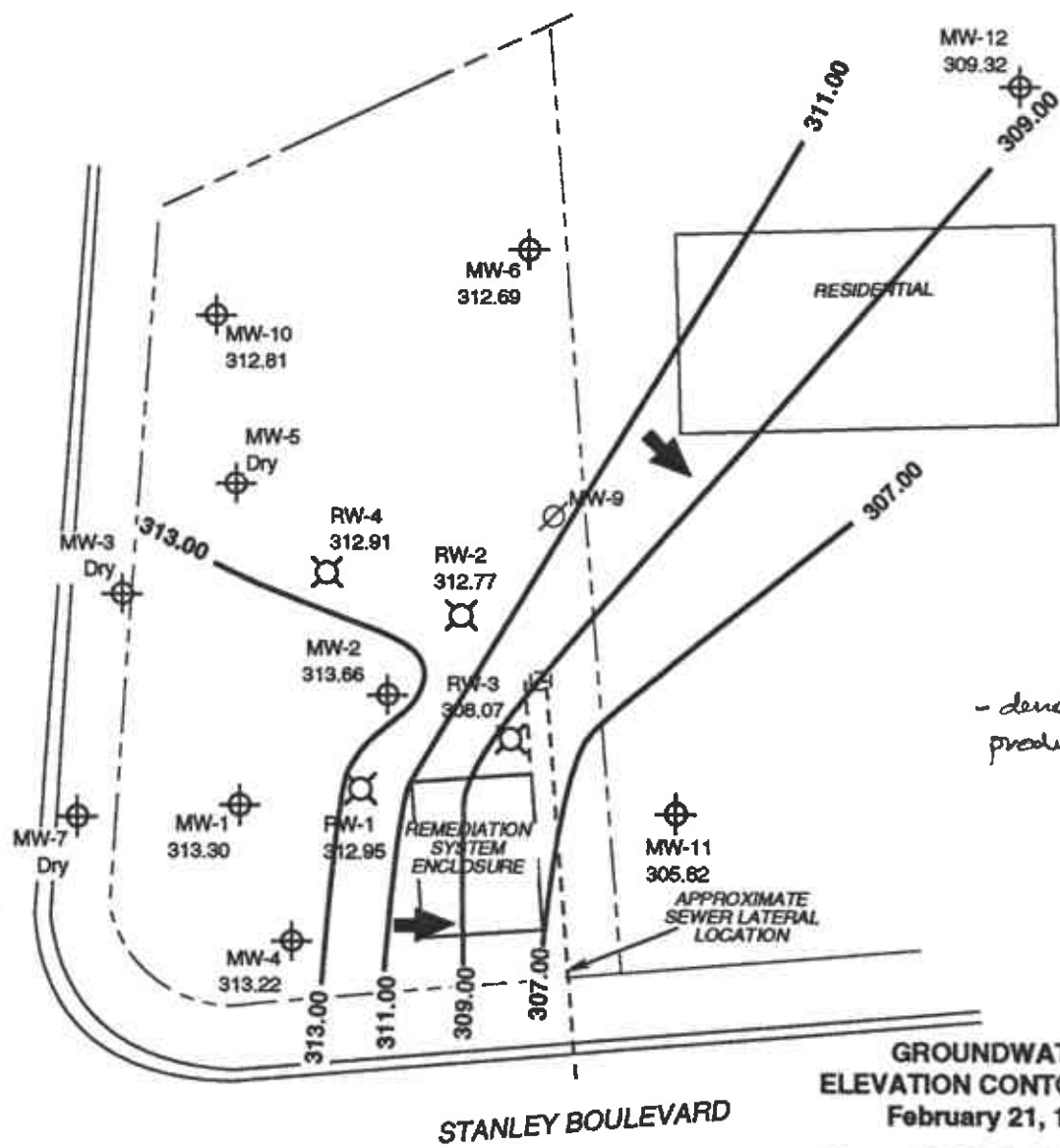
The ongoing project services summarized in this report have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the findings and professional opinions presented in this report. The findings are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.

LEGEND

-  MW-12 Groundwater monitoring well
- 309.32 Groundwater elevation, in feet above mean sea level [NGVD-1929]
-  Groundwater elevation contour line
-  General direction of groundwater gradient




MAIN STREET



- denotes "free product" present

NOTES:
 Contour lines are interpretive based on fluid level measurements collected February 21, 1995
 Contour interval = 2.0 foot.



**ALTON
 GEOSCIENCE**
 Livermore, California



**GROUNDWATER
 ELEVATION CONTOUR MAP**
 February 21, 1995
 Former Mobil Station 04-H6J
 1024 Main Street
 Pleasanton, California

FIGURE 1

LEGEND

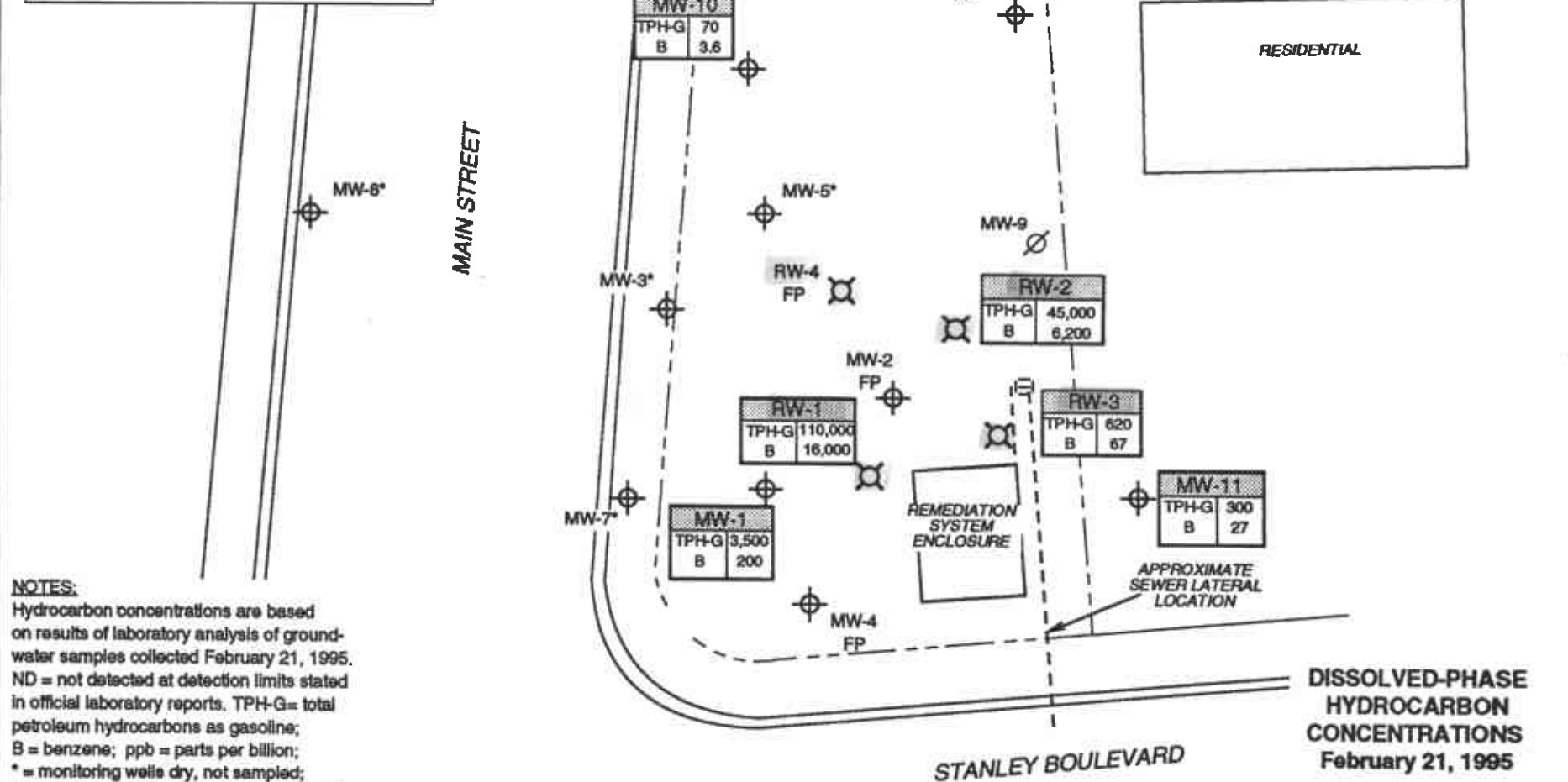
⊕ MW-12 Groundwater monitoring well

∅ MW-8 Abandoned well

⊗ RW-4 Recovery well

MW-12	
TPH-G	
B	

 Dissolved-phase hydrocarbon concentrations (ppb)



NOTES:
 Hydrocarbon concentrations are based on results of laboratory analysis of groundwater samples collected February 21, 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; * = monitoring wells dry, not sampled; FP = liquid-phase hydrocarbons measured.



DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS
 February 21, 1995

Former Mobil Station 04-H6J
 1024 Main Street
 Pleasanton, California

FIGURE 2

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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
MW-1	04/12/90	348.03	0.00	43.57	304.46	3,600	—	73	13	3	180	45	ND	—
	10/18/90		0.00	43.18	304.85	5,000	ND	700	360	170	480	54	—	—
	08/06/91		0.00	38.65	309.38	2,600	—	310	340	110	340	ND	—	ND
	01/08/92		0.00	38.68	309.35	2,400	—	270	370	18	340	14	ND	—
	04/30/92		0.00	39.93	308.10	1,300	—	150	120	12	160	4.3	—	—
	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	—	—	—		
MW-2	04/12/90	348.45	0.00	44.14	304.31	64,000	—	5,500	7,600	1,900	7,800	200	ND	—
	10/18/90		0.00	43.18	305.27	83,000	10,000	6,800	9,100	2,400	11,000	460	—	—
	08/06/91		0.00	39.19	309.26	160,000	—	16,000	25,000	4,300	19,000	330	—	330
	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	420	—	—
	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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
MW-2	10/27/92		Trace	43.53	304.92	—	—	—	—	—	—	—	—	—
(cont)	01/22/93		Trace	35.55	312.90	—	—	—	—	—	—	—	—	—
	04/05/93		Trace	34.41	314.04	—	—	—	—	—	—	—	—	—
	07/08/93		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	~1.4"	0.12	34.88	313.66	—	—	—	—	—	—	—	—	—
MW-3	04/12/90	347.97	0.00	23.18	324.79	2,100	—	32	56	31	170	117	ND	—
	10/18/90		0.00	14.28	333.69	110	ND	3	3	1	5	2	—	—
	08/06/91		—	Dry	—	—	—	—	—	—	—	—	—	—
	01/08/92		0.00	32.36	315.61	680	—	8.9	26	8.5	72	5.7	—	—
	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	—	—	—	—	—	—	—	—	—	—
	07/08/93		—	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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
MW-3	07/08/94		—	Dry	—	—	—	—	—	—	—	—	—	—
(con't)	02/21/95		—	Dry	—	—	—	—	—	—	—	—	—	—
MW-4	10/18/90	348.07	0.00	43.16	304.91	9,600	2,000	180	500	200	1,200	9	—	—
	08/06/91		0.00	38.65	309.42	8,600	—	320	420	220	650	ND	—	ND
	01/08/92		0.00	38.65	309.42	3,400	—	600	880	220	1,100	9.2	ND	—
	04/30/92		0.00	39.88	308.19	7,200	—	650	1,200	210	1,200	ND	—	—
	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	—	—	—
	04/06/93		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	~ 1/4"	0.02	34.87	313.22	—	—	—	—	—	—	—	—	—
MW-5	10/18/90	347.97	—	**	—	—	—	—	—	—	—	—	—	—
	08/06/91		0.00	34.25	313.72	—	—	—	—	—	—	—	—	—
	01/08/92		0.00	34.22	313.75	—	—	—	—	—	—	—	—	—
	04/30/92		—	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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
MW-5	07/31/92		—	Dry	—	—	—	—	—	—	—	—	—	—
(con't)	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	—	—	—	—	—	—	—	—	—	—
MW-6	10/18/90	348.23	0.00	43.60	304.63	3,000	ND	1,300	150	120	85	140	—	—
	08/06/91		0.00	39.07	309.16	1,600	—	220	10	5.2	14	8.3	—	ND
	01/08/92		0.00	39.18	309.05	370	—	81	3.9	4.5	2.9	5.4	ND	—
	04/30/92		0.00	40.46	307.77	610	—	180	8.4	6.8	3.3	7.0	—	—
	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	—	—	—
	04/25/94		0.00	40.77	307.46	—	—	—	—	—	—	—	—	—
	04/26/94		—	—	—	330	—	40	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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
MW-6	07/08/94		0.00	41.82	306.41	170	—	8.8	9.2	3.5	12	—	—	—
(con't)	10/05/94		0.00	42.64	305.59	600	—	100	5.6	11	12	—	—	—
	02/21/95	~ 1/8"	0.01	35.55	312.69	—	—	—	—	—	—	—	—	—
MW-7	10/18/90	347.90	0.00	9.26	338.64	ND	ND	0	0.5	ND	0.8	ND	—	—
	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	—	—	—	—	—	—	—	—	—	—
MW-8	10/18/90	348.90	0.00	11.30	337.60	900	ND	3	5	7	62	ND	—	—
	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	—	—	—

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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
MW-8	10/27/92		—	Dry	—	—	—	—	—	—	—	—	—	—
(cont)	01/22/93		—	Dry	—	—	—	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—	—	—	—
	07/06/93		0.00	7.48	341.42	ND<50	—	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	—	—	—	—	—	—	—	—	—	—
MW-9	02/04/92	348.53	0.00	43.54	304.99	16,000	—	3,000	740	1,200	2,500	68	—	ND
	04/30/92		0.00	42.83	305.70	5,600	—	1,000	120	410	350	ND<50	—	—
	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	—	—	—
	01/27/94		0.00	44.32	304.21	11,000	—	1,400	130	230	700	—	—	—
	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)														

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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
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	—	—	—
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	—	—	—
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	—	—	—

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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
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	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—

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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
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	—	—	—
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	—	—	—
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	—	—	—
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	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—

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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
MW-1# (con't)	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	—	—	—	—	—	—	—	—	—
	10/05/94		0.00	47.26	303.52	ND	—	ND	ND	ND	ND	—	—	—
	01/04/95		0.00	44.98	305.80	ND	—	ND	ND	ND	ND	—	—	—
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	—	—	—	

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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (ppb)
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	—	—	—	—	—	—	—	—	—
	07/06/93		0.00	37.82	313.53	ND	—	ND	ND	ND	ND	—	—	—
	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	—	—	—
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	—	—	—

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)	1,2-DCE (ppb)	Organic Lead (ppb)	Total Lead (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	48.38	302.95	210	—	ND	0.74	ND	0.90	—	—	—

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 Kapreellan Engineering at former Unocal Station #0543; resurveyed by Ker & 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 ground water 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.

GROUND WATER SAMPLING

Ground water 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.

Ground water 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
 1900 Bates Avenue, Suite L Concord, CA 94520 (510) 686-9600 FAX (510) 686-9609
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Alton Geoscience Client Project ID: Mobil #04-H6J Sampled: Feb 21, 1995
 30-A Lindbergh Ave. Sample Matrix: Water Received: Feb 22, 1995
 Livermore, CA 94550 Analysis Method: EPA 5030/8015/8020 Reported: Mar 2, 1995
 Attention: Kevin Keenan First Sample #: 502-1327

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 502-1327 MW-10	Sample I.D. 502-1328 RW-2	Sample I.D. 502-1329 RW-1	Sample I.D. 502-1330 MW-1	Sample I.D. 502-1331 MW-11	Sample I.D. 502-1332 RW-3
Purgeable Hydrocarbons	50	70	45,000	110,000	3,500	300	620
Benzene	0.50	3.6	6,200	16,000	200	27	67
Toluene	0.50	12	2,600	29,000	270	64	30
Ethyl Benzene	0.50	1.8	1,400	2,200	24	7.3	12
Total Xylenes	0.50	9.5	5,600	14,000	100	36	48
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline

Quality Control Data

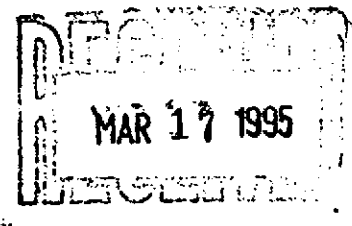
Report Limit Multiplication Factor:	1.0	200	500	20	1.0	1.0
Date Analyzed:	2/28/95	2/28/95	2/28/95	3/1/95	2/28/95	2/28/95
Instrument Identification:	HP-4	HP-4	HP-4	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	87	88	90	78	83	76

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





Sequoia Analytical

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

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(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Kevin Keenan

Client Project ID: Mobil #04-H6J
Sample Matrix: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 502-1333

Sampled: Feb 21, 1995
Received: Feb 22, 1995
Reported: Mar 2, 1995

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 502-1333 MW-12
Purgeable Hydrocarbons	50	N.D.
Benzene	0.50	4.0
Toluene	0.50	4.0
Ethyl Benzene	0.50	0.77
Total Xylenes	0.50	3.6
Chromatogram Pattern:		--

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	2/28/95
Instrument Identification:	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	82

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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FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Kevin Keenan

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

QC Sample Group: 5021327-33

Reported: Mar 2, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	A. Tuzon	A. Tuzon	A. Tuzon	A. Tuzon

MS/MSD Batch#:	5021292	5021292	5021292	5021292
Date Prepared:	2/28/95	2/28/95	2/28/95	2/28/95
Date Analyzed:	2/28/95	2/28/95	2/28/95	2/28/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	85	90	85	92
Matrix Spike Duplicate % Recovery:	85	90	90	95
Relative % Difference:	0.0	0.0	5.7	3.2

LCS Batch#:	2LCS022895	2LCS022895	2LCS022895	2LCS022895
Date Prepared:	2/28/95	2/28/95	2/28/95	2/28/95
Date Analyzed:	2/28/95	2/28/95	2/28/95	2/28/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
LCS % Recovery:	88	96	96	96

% Recovery Control Limits:	71-133	72-128	72-130	71-120
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Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

600 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
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 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: Altam Geo Science
 Station No./Site Address: 04-HCJ 1024 Main St. Pleasanton
 Address: 30 A Lighthouse Av
 Project Contact: Kevin Keenan
 City: Concord State: CA Zip: 94520
 Mobil Oil Engineer: Cherie Fitch
 Tel: 510-606-9150 Fax: 510-606-9260
 Sampler(s) (signature): Mark Fitch

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	TTL <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)			
																									Code	Description		
MW-10	H ₂ O	2/21	3:10	HCL	3	VOL			X																5021327	AC	Code 1	Emergency Response
RW-2			4:00																						5021328		Code 2	Site Assessment
RW-1			4:30																						5021329		Code 3	Remediation (Plan Devpmt.)
MW-1			1:00																						5021330		Code 4	Active Remed. (Install./Start-up)
MW-11			4:50																						5021331		Code 5	Active Remed. (O & M)
RW-3			4:15																						5021332		Code 6	Passive Remed./Monitoring
MW-12			5:00																						5021333		Code 7	Closure
																											Code 8	Construction
																											Code 9	Litigation/Claims Fines

Relinquished by: Mark Fitch Date/Time: _____ Relinquished by: [Signature] Date/Time: 2/22 10:00
 Relinquished by: [Signature] Date/Time: 2-23-95 0902 Relinquished by: [Signature] Date/Time: 2-23 1230
 Relinquished by: [Signature] Date/Time: 2-23 1: Relinquished in Lab by: Melissa Creuser Date/Time: 2/23/95 1345
 Remarks: _____
 Turnaround Time: (check one):
 Normal Same day _____
 1 day _____ 2 day _____
 5 day _____
 Sample Integrity:
 Intact _____ On Ice