

May 25, 1994

MOBIL OIL CORPORATION
2063 Main Street, #501
Oakley, California 94537

ALTON GEOSCIENCE
30A Lindbergh Avenue
Livermore, California 94550
Alton Project No. 30-0065

ATTN: MS. CHERINE FOUTCH

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

**RE: QUARTERLY GROUND WATER MONITORING AND SAMPLING
REPORT, SECOND QUARTER 1994**

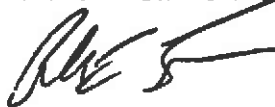
This report presents the results of joint fluid-level monitoring and ground water sampling with Kaprealian Engineering Inc. (KEI). On April 26, 1994, fluid-levels were measured from Monitoring Wells MW-1 through MW-12 and RW-1, with the exception of MW-3, MW-7, and MW-8 which were dry. In accordance with standard regulatory protocol, a ground water sample was not collected from Monitoring Well MW-2 and RW-1 due to the presence of free product. In addition, monitoring and sampling data was obtained from Unocal Station No. 0543 for Monitoring Wells MW-1 through MW-5. Ground water samples were submitted to a state-certified laboratory for analysis. The results are attached.

ATTACHMENTS:

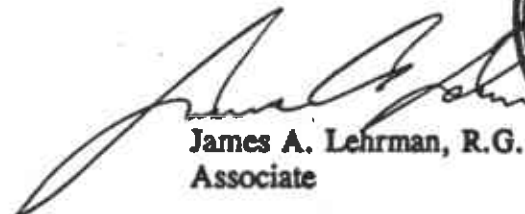
- Figure 1: Vicinity Map
- Figure 2: Ground Water Elevation Contour Map
- Figure 3: Dissolved-Phase Hydrocarbon Concentrations
- Table 1: Summary of Ground Water Sampling and Analyses
- Appendix: Field Procedures, Laboratory Reports and Chain of Custody Records

Please call us at (510) 606-9150, if you have any questions regarding this project.

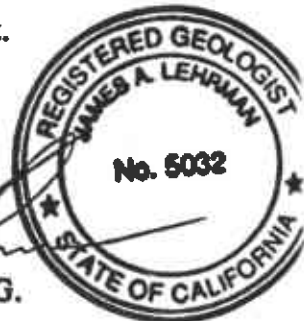
ALTON GEOSCIENCE
Northern California Operations



Russell J. Earle
Staff Environmental Scientist



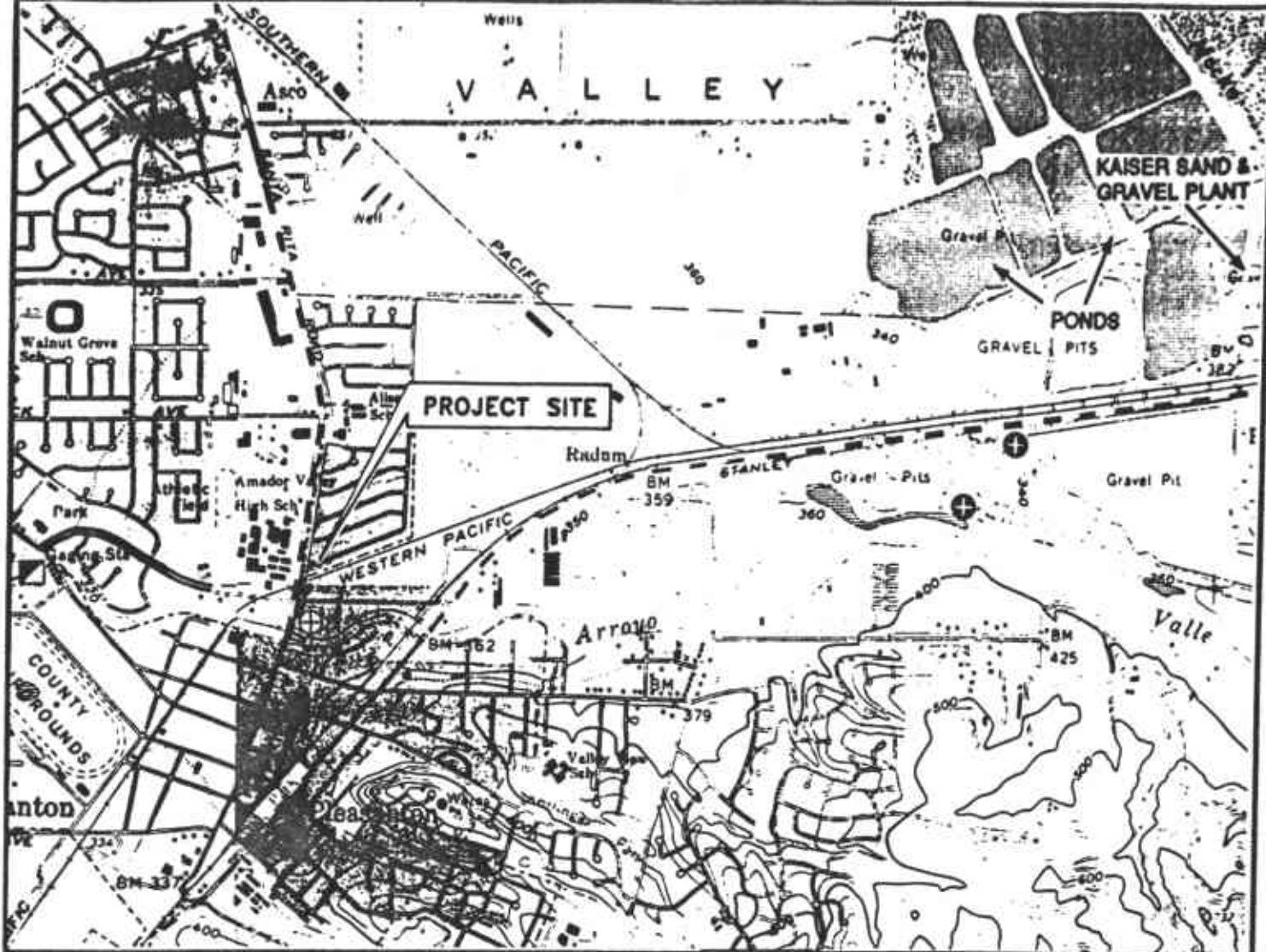
James A. Lehrman, R.G.
Associate



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. 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.

cc: Mr. Craig Mayfield, Alameda County Flood Control and Water Control District
Mr. Lester Feldman, California Regional Water Quality Control Board, San Francisco Bay Region

M:\projects\Mob\104b6j3.qfm
30A Lindbergh Avenue
Livermore, California 94550
(510) 606-9150 • FAX (510) 606-9260






1 MILE 3/4 1/2 1/4 0 1 MILE
 SCALE 1:24,000



Source: U.S.G.S. Map
 Livermore Quadrangle
 California
 7.5 Minute Series

LEGEND

-  U.S.G.S. Gauging Station
-  City of Pleasanton Monitoring Well
-  Kaiser Discharge to Arroyo Valle



VICINITY MAP




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

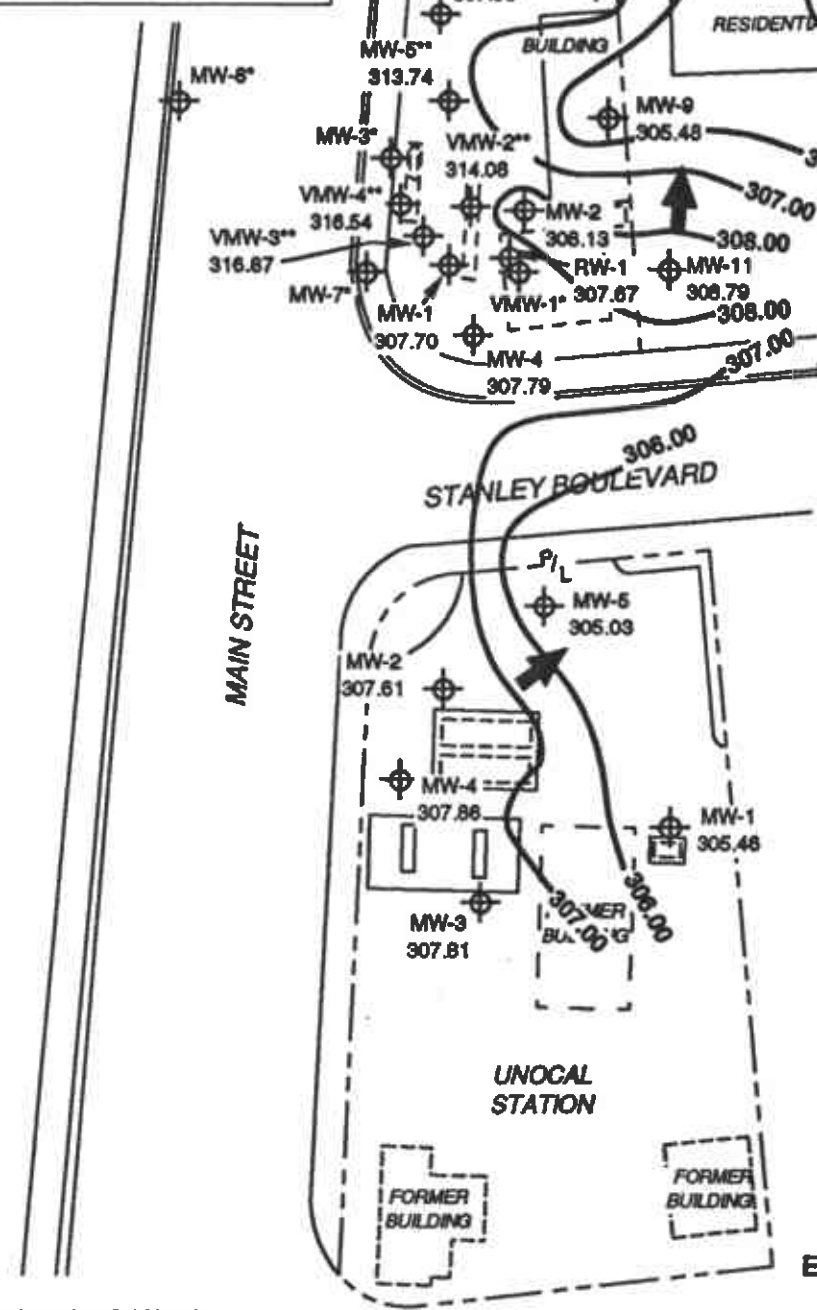
 **ALTON
 GEOSCIENCE**
 Livermore, California

Project No. 30-0065

FIGURE 1

LEGEND

-  MW-12 Ground water monitoring well
- 304.86 Ground water elevation, in feet above mean sea level (NGVD-1929)
-  Ground water elevation contour line
-  General direction of ground water gradient



NOTES:

Contours are interpretive based on fluid level measurements collected April 25, 1994. Contour interval = 1.0 foot.

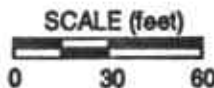
* = dry monitoring well.

** = monitoring well not used

In contouring due to reading of water at well base extreme.



**ALTON
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Livermore, California



**GROUND WATER
ELEVATION CONTOUR MAP
April 25, 1994**

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

FIGURE 2

LEGEND

 MW-12 Ground water monitoring well

 Dissolved-phase hydrocarbon concentrations (ppb)

MW-8	
TPH-G	
B	
T	
E	
X	

MW-12	
TPH-G	ND
B	ND
T	ND
E	ND
X	1.4

MW-10	
TPH-G	810
B	17
T	0.84
E	ND
X	ND

MW-6	
TPH-G	330
B	40
T	ND
E	ND
X	ND

MW-9	
TPH-G	3,900
B	480
T	86
E	180
X	220

MW-11	
TPH-G	ND
B	ND
T	ND
E	ND
X	1.7

MW-1	
TPH-G	3,500
B	310
T	370
E	22
X	320

MW-4	
TPH-G	27,000
B	1,200
T	1,800
E	580
X	2,500

MW-2	
TPH-G	1,100
B	19
T	1.7
E	2.5
X	8.8

MW-5	
TPH-G	180
B	ND
T	1.9
E	1.4
X	1.9

MW-1	
TPH-G	ND
B	ND
T	3.5
E	ND
X	3.4

MW-4	
TPH-G	ND
B	ND
T	1.2
E	ND
X	1.5

MW-3	
TPH-G	ND
B	ND
T	1.4
E	ND
X	1.8

NOTES:
 Hydrocarbon concentrations are based on results of laboratory analysis of ground water samples collected April 26, 1994.
 ND = not detected at detection limits stated in official laboratory reports. TPH-G= total petroleum hydrocarbons as gasoline; B = benzene; T = toluene; E = ethylbenzene; X = total xylenes; ppb = parts per billion.



DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS
 April 26, 1994

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

FIGURE 3

Table 1

Summary of Ground Water Sampling and Analyses

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	—
	10/18/90		0.00	43.18	304.85	5,000	ND<1000	700	360	170	480	54	—	—
	08/06/91		0.00	38.65	309.38	2,600	—	310	340	110	340	ND<25	—	ND<5.0
	01/08/92		0.00	38.88	309.35	2,400	—	270	370	18	340	14	ND<50	—
	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<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
	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	—	—	—
	07/08/93		0.00	35.48	312.57	2,200	—	140	240	32	180	—	—	—
	11/30/93		0.00	37.81	310.22	450	—	68	34	ND<0.5	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	—	—	—	—	—	—	—	—	—
	04/28/94		—	—	—	3,500	—	310	370	22	320	—	—	—
	MW-2	04/12/90	348.45	0.00	44.14	304.31	64,000	—	5,500	7,800	1,900	7,800	200	ND<10
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	—	—	—	—	—	—	—	—	—
10/27/92			Trace	43.53	304.92	—	—	—	—	—	—	—	—	—
01/22/93			Trace	35.55	312.90	—	—	—	—	—	—	—	—	—
04/05/93			Trace	34.41	314.04	—	—	—	—	—	—	—	—	—

Table 1

Summary of Ground Water Sampling and Analyses

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 (cont)	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	—	—	—	—	—	—	—	—	—
MW-3	04/12/90	347.97	0.00	23.18	324.79	2,100	—	32	56	31	170	117	ND<10	—
	10/18/90		0.00	14.28	333.69	110	ND<1000	3	3	1	5	2	—	—
	08/08/91		—	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	—	—	—	—	—	—	—	—	—	—
	07/06/93		—	Dry	—	—	—	—	—	—	—	—	—	—
	11/30/93		—	Dry	—	—	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—	—	—
	04/25/94		—	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	38.85	309.42	8,800	—	320	420	220	650	ND<25	—	ND<5.0
	01/08/92		0.00	38.65	309.42	3,400	—	600	880	220	1,100	9.2	ND<50	—
	04/30/92		0.00	39.88	308.19	7,200	—	650	1,200	210	1,200	ND<50	—	—
	07/31/92		0.00	43.07	305.00	3,800	—	320	340	120	380	—	—	—

Table 1

Summary of Ground Water Sampling and Analyses

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-4	10/27/92		0.00	42.78	305.29	9,000	—	440	750	190	900	—	—	—
(con't)	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	—	—	—	—	—	—	—	—	—
	04/28/94		—	—	—	27,000	—	1,200	1,800	580	2,500	—	—	—
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	—	—	—	—	—	—	—	—	—	—
	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	—	—	—	—	—	—	—	—	—
MW-6	10/18/90	348.23	0.00	43.60	304.63	3,000	ND<1000	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<5.0

Table 1

Summary of Ground Water Sampling and Analyses

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 (con't)	01/08/92		0.00	39.18	309.05	370	—	81	3.9	4.5	2.9	5.4	ND<50	—
	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<0.5	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	0.5	—	—	—
	07/06/93		0.00	36.01	312.22	99	—	1.4	0.54	ND<0.5	ND<0.5	—	—	—
	11/30/93		0.00	38.36	309.87	66	—	9.1	ND<0.5	ND<0.5	ND<0.5	—	—	—
	01/27/94		0.00	42.57	305.66	140	—	1.7	ND<0.5	ND<0.5	ND<0.5	—	—	—
	04/25/94		0.00	40.77	307.46	—	—	—	—	—	—	—	—	—
	04/26/94		—	—	—	330	—	40	ND	ND	ND	—	—	—
MW-7	10/18/90	347.90	0.00	9.26	338.64	ND<50	ND<1000	0	0.5	ND<0.3	0.8	ND<0.5	—	—
	08/06/91		—	Dry	—	—	—	—	—	—	—	—	—	—
	01/08/92		0.00	23.79	324.11	220	—	7.8	1.7	ND<0.3	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	—	—	—	—	—	—	—	—	—	—

Table 1

Summary of Ground Water Sampling and Analyses

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	10/18/90	348.90	0.00	11.30	337.80	900	ND<1000	3	5	7	62	ND<0.5	—	—
	08/06/91		—	Dry	—	—	—	—	—	—	—	—	—	—
	01/08/92		—	Dry	—	—	—	—	—	—	—	—	—	—
	04/30/92		—	Dry	—	—	—	—	—	—	—	—	—	—
	07/31/92		0.00	12.04	336.86	270*	—	ND<0.5	ND<0.5	ND<0.5	1.3	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—	—	—	—
	07/06/93		0.00	7.48	341.42	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
	11/30/93		—	Dry	—	—	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—	—	—
	04/25/94		—	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<5.0
	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	—	—	—

Table 1

Summary of Ground Water Sampling and Analyses

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-9	04/25/94		0.00	43.05	305.48	—	—	—	—	—	—	—	—	—
(cont)	04/26/94		—	—	—	3,900	—	460	56	160	220	—	—	—
MW-10	11/30/93	347.95	0.00	37.97	309.98	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
	01/27/94		0.00	42.16	305.79	ND<50	—	ND<0.5	ND<0.5	ND<0.5	1.2	—	—	—
	04/25/94		0.00	40.39	307.56	—	—	—	—	—	—	—	—	—
	04/26/94		—	—	—	810	—	17	0.84	ND	ND	—	—	—
MW-11	11/30/93	347.56	0.00	38.41	309.15	ND<50	—	ND<0.5	ND<0.5	ND<0.5	1.6	—	—	—
	01/27/94		0.00	38.02	309.54	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
	04/25/94		0.00	38.77	308.79	—	—	—	—	—	—	—	—	—
	04/26/94		—	—	—	ND	—	ND	ND	ND	1.7	—	—	—
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<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
	04/25/94		0.00	42.27	304.88	—	—	—	—	—	—	—	—	—
	04/26/94		—	—	—	ND	—	ND	ND	ND	1.4	—	—	—
VMW-1	11/30/93	348.05	—	Dry	—	—	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—	—	—	—

Table 1

Summary of Ground Water Sampling and Analyses

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-2	11/30/93	347.90	—	Dry	—	—	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—	—	—
	04/25/94		0.00	33.82	314.08	—	—	—	—	—	—	—	—	—
VMW-3	11/30/93	348.10	—	Dry	—	—	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—	—	—
	04/25/94		Trace	31.23	316.87	—	—	—	—	—	—	—	—	—
VMW-4	11/30/93	347.95	—	Dry	—	—	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—	—	—
	04/25/94		—	31.41	316.54	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—	—	—

Table 1

Summary of Ground Water Sampling and Analyses

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#	01/27/94		0.00	43.41	307.37	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
(con't)	04/25/94		0.00	45.32	305.46	ND	—	ND	3.5	ND	3.4	—	—	—
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<0.5	20	—	—	—
	04/25/94		0.00	41.90	307.61	1,100	—	19	1.7	2.5	8.8	—	—	—
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<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
	04/25/94		0.00	43.23	307.81	ND	—	ND	1.4	ND	1.8	—	—	—

Table 1

Summary of Ground Water Sampling and Analyses

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-4#	01/27/94	350.14	0.00	43.37	308.77	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—
	04/25/94		0.00	42.28	307.86	ND	—	ND	1.2	ND	1.5	—	—	—
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	—	—	—

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 Kaprelian Engineering at former Unoco Station #0543; resurveyed by Kier & Wright Civil Engineers & Surveyors, Inc. 09/20/93.

APPENDIX

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

APPENDIX

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 DOT-approved 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

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819 Striker Avenue, Suite 8

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Concord, CA 94520
Sacramento, CA 95811

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(510) 686-9600
(916) 921-0100

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

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Jim Lehrman

Client Project ID: Mobil 04-H6J / 3000065
Sample Matrix: Water
Analysis Method: EPA 5030/8015/8000
First Sample #: 404-1238

RECEIVED
MAY 12 1994
ANALYTICAL

Sampled: Apr 26, 1994
Received: Apr 27, 1994
Reported: May 4, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 404-1238 MW-12	Sample I.D. 404-1239 MW-11	Sample I.D. 404-1240 MW-10	Sample I.D. 404-1241 MW-8	Sample I.D. 404-1242 MW-4	Sample I.D. 404-1243 MW-1
Purgeable Hydrocarbons	50	N.D.	N.D.	810	330	27,000	3,500
Benzene	0.5	N.D.	N.D.	17	40	1,200	310
Toluene	0.5	N.D.	N.D.	0.84	N.D.	1,800	370
Ethyl Benzene	0.5	N.D.	N.D.	N.D.	N.D.	580	22
Total Xylenes	0.5	1.4	1.7	N.D.	N.D.	2,500	320
Chromatogram Pattern:		--	--	Gasoline	Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	2.0	100	5.0
Date Analyzed:	5/2/94	5/2/94	5/2/94	5/3/94	5/3/94	5/2/94
Instrument Identification:	HP-2	HP-2	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	95	93	143*	101	102	95

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

Karen L. Enstrom
Project Manager

Please Note:

* High surrogate recovery due to matrix interference from multiple peak coelution.





Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: Jim Lehrman	Client Project ID: Mobil 04-H6J / 3000065 Sample Matrix: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 404-1244	Sampled: Apr 26, 1994 Received: Apr 27, 1994 Reported: May 4, 1994
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 404-1244 MW-9
Purgeable Hydrocarbons	50	3,900
Benzene	0.5	460
Toluene	0.5	56
Ethyl Benzene	0.5	160
Total Xylenes	0.5	220
Chromatogram Pattern:		Gasoline

Quality Control Data

Report Limit Multiplication Factor:	20
Date Analyzed:	5/3/94
Instrument Identification:	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	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


Karen L. Enstrom
Project Manager



Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Jim LehrmanClient Project ID: Mobil 04-H6J / 3000065
Matrb: Liquid

QC Sample Group: 4041238-44

Reported: May 4, 1994

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#:	4041250	4041250	4041250	4041250
Date Prepared:	5/2/94	5/2/94	5/2/94	5/2/94
Date Analyzed:	5/2/94	5/2/94	5/2/94	5/2/94
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:	90	95	95	95
Matrix Spike Duplicate % Recovery:	90	95	95	93
Relative % Difference:	0.0	0.0	0.0	2.1

LCS Batch#:	1LCS050294	1LCS050294	1LCS050294	1LCS050294
Date Prepared:	5/2/94	5/2/94	5/2/94	5/2/94
Date Analyzed:	5/2/94	5/2/94	5/2/94	5/2/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	96	97	97	99

% 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


 Karen L. Enstrom
 Project Manager


Mobil Chain of Custody



SEQUOIA ANALYTICAL

Redwood City: (415) 364-9600
 Concord: (510) 686-9600
 Sacramento: (916) 921-9600

Consulting Firm Name: <u>ALTON GEO SCIENCE</u>		Site SS #: <u>14-HLT</u>	Phase of Work: <input type="checkbox"/> A. Emrg. Response <input type="checkbox"/> B. Site Assessment <input type="checkbox"/> C. Remediation <input checked="" type="checkbox"/> D. Monitoring <input type="checkbox"/> E. OGC/Claims
Address: <u>30A LINDBERGH AVE</u>		Mobil Site Address: <u>1024 MAIN ST PLEASANTON, CALIF</u>	
City: <u>LIVERMORE</u> State: <u>CA</u> Zip Code:	Mobil Engineer: <u>CHEKINE F.</u>		
Telephone: <u>510-606-9150</u> FAX #: <u>510-606-7260</u>	Consultant Project #: <u>30-10005</u>		
Project Contact: <u>JIM LEHRMAN</u> Sampled by: <u>M. Ricebeard</u>	Sequoia's Work Order Release #:		

Turnaround Time: Standard TAT (5 - 10 Working Days)
 Other _____

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Description	# of Containers	Sequoia's Sample #	Analyses Requested					Comments
					TPH Gas/BTEX	TPH Diesel	TPH by I.R. EPA 418.1	Oil & Grease EPA 413.2		
1. MW-13	04/26/94	H ₂ O	2		X					4011238 AB
2. MW-11	↓	↓	↓		↓					1239
3. MW-10	↓	↓	↓		↓					1240
4. MW-6	↓	↓	↓		↓					1241
5. MW-4	↓	↓	↓		↓					1242
6. MW-2	↓	↓	↓		↓					1243
7. MW-9	↓	↓	↓		↓					1244 ✓
8.										
9.										
10.										

Relinquished By: <u>M. Ricebeard</u>	Date: <u>4-27-94</u>	Time:	Received By: <u>Steve Tan</u>	Date: <u>4/27/94</u>	Time: <u>10:45</u>
Relinquished By: <u>Steve Tan</u>	Date: <u>4/27</u>	Time:	Received By: <u>D Phillips</u>	Date: <u>4-27</u>	Time: <u>12:50</u>
Relinquished By: <u>D Phillips</u>	Date: <u>4-27</u>	Time: <u>1:50</u>	Received By: <u>Melissa Cresswell</u>	Date: <u>4/27/94</u>	Time: <u>1:50</u>

Method of Shipment



Sequoia Analytical

688 Chesapeake Drive
1900 Bates Avenue, Suite L
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Concord, CA 94520
Sacramento, CA 95834

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(916) 931-8600

FAX (415) 864-9111
FAX (510) 684-8600
FAX (916) 931-8100

MPDB Services 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedessian	Client Project ID: Unocal 82843, 992 Main St, Pissarian Sample Matrix: Water Analysis Method: EPA 8030/8015/8020 First Sample #: 404-1090	Sampled: Apr 26, 1994 Received: Apr 28, 1994 Reported: May 8, 1994
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 404-1090 MW1	Sample I.D. 404-1091 MW2	Sample I.D. 404-1092 MW3	Sample I.D. 404-1093 MW4	Sample I.D. 404-1094 MW5	Sample I.D. Matrix Blank Blk4041369
Purgeable Hydrocarbons	50	N.D.	1,100	N.D.	N.D.	160	
Benzene	0.5	N.D.	19	N.D.	N.D.	N.D.	
Toluene	0.5	3.8	1.7	1.4	1.2	1.8	
Ethyl Benzene	0.5	N.D.	2.5	N.D.	N.D.	1.4	
Total Xylenes	0.5	3.4	8.3	1.8	1.6	1.9	
Chromatogram Pattern:		--	Gasoline	--	--	Gasoline	

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	5/3/94	5/4/94	5/3/94	5/3/94	5/3/94	5/3/94
Instrument Identification:	HP-4	HP-2	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	88	165	86	91	80	86

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

[Signature]
Dan S. Kemp
Project Manager



Sequoia Analytical

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FAX (415) 364-9333
 FAX (510) 686-9699
 FAX (916) 931-0100

Alton Geoscience
 30-A Lindbergh Ave.
 Livermore, CA 94550
 Attention: Jim Lehman

Client Project ID: Mobil 04-H6J / 3000068
 Matrix: Liquid

QC Sample Group: 4041238-44

Reported: May 4, 1994

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#:	4041250	4041280	4041250	4041250
Date Prepared:	5/2/94	5/2/94	5/2/94	5/2/94
Date Analyzed:	5/2/94	5/2/94	5/2/94	5/2/94
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:	90	95	95	95
Matrix Spike Duplicate % Recovery:	90	95	95	93
Relative % Difference:	0.0	0.0	0.0	2.1

LCS Batch#:	1LCS050294	1LCS050294	1LCS050294	1LCS050294
Date Prepared:	5/2/94	5/2/94	5/2/94	5/2/94
Date Analyzed:	5/2/94	5/2/94	5/2/94	5/2/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	96	97	97	89

% 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

Karen L. Enstrom
 Karen L. Enstrom
 Project Manager

