



ENVIRONMENTAL
PROTECTION
96 JUN 10 PM 3:36

April 30, 1996

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

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

Alton Project No. 30-0065

Mr. Seery:

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

Quarterly Progress Report Summary Sheet

- Exhibit 1: Sampling Schedule
- Exhibit 2: Groundwater Levels and Chemical Analysis
- Exhibit 3: Figures 1 through 3 (Vicinity Map, Groundwater Elevation Contour Map, and Dissolved-Phase Benzene Concentrations)
- Exhibit 4: Benzene Versus Groundwater Elevation Graphs
- Exhibit 5: Vapor Extraction System Performance Tables and Graphs
- Exhibit 6: Groundwater Remediation Performance Tables
- Exhibit 7: Well Purging and Groundwater Sampling Protocol
- Exhibit 8: Monitoring Well Sampling Forms
- Exhibit 9: Analytical Laboratory Data Sheets

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

Sincerely,

ALTON GEOSCIENCE

Ron A. Scheele
Project Geologist

cc: Ms. Cherine Foutch, Mobil Oil Corporation
Mr. Kevin Graves, California Regional Water Quality Control Board, SFBR
Mr. Gary Lee, Pleasanton Department of Works
Mr. Craig Mayfield, Alameda County Flood Control & Water Conservation District
30 Alton Boulevard
Livermore, California 94550
(510) 606-9150 • FAX (510) 606-9260

Alton Geoscience

Quarterly Progress Report Summary Sheet
First Quarter 1996

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

Case # N/A
BAAQMD # 14053
DSRSD sewer discharge permit # 95010

Number of water zones:	1	This Page	1
FIELD ACTIVITY:		Date Sampled:	12-Feb-96
Number of ground water wells on-site:	12	Ground Water Wells monitored:	█
Number of ground water wells off-site:	3	Ground Water Wells sampled:	10
Phase of Investigation:	Remediation	Ground Water Wells with Free Product:	1
		Ground Water Phase:	Remediation
SITE HYDROGEOLOGY:			
Approximate elevation of potentiometric surface above Mean Sea Level:			38.4 feet
Average Increase/Decrease in ground water elevations since last sampling episode:			309.58 feet
Approximate flow direction and hydraulic gradient:			Increase 1.9 feet
Cone of depression, pumping conditions			
GROUND WATER CONTAMINATION (BENZENE MCL=1.8 ppb):			
Wells containing free product:	█	Range in Thickness of Free Product:	Trace
Number of wells with concentrations below MCL:	3	Volume of Free Product Recovered This Period:	0
Number of wells with concentrations at or above MCL:	█	Volume of Free Product Recovered To Date:	0
Nature of contamination:	Gasoline	Range in Concentrations:	Benzene: <0.50 to 4,400 ppb TPH-G: <50 to 41,000 ppb
GROUND WATER REMEDIATION PERFORMANCE		Date Started:	5-May-95
Technology used:	Pump & treat w/ air stripper	Number of Wells Extracting Ground Water:	4 (RW-1 through RW-4)
Amount of Groundwater Extracted This Quarter (gallons):	428,720	Carbon Change:	N/A
Total Amount of Groundwater Extracted (gallons):	2,081,420		
Operating days this quarter:	77 days		
Total operating Days:	226 days		
VAPOR EXTRACTION PERFORMANCE		Date Started:	4-Apr-95
Technology used:	Catalytic Oxidizer	Maximum influent Concentration (ppmv):	█
Number of vapor wells onsite:	9	Maximum Diluted influent Concentration (ppmv):	340 ppmv
Number of vapor extraction wells open:	█	Amount of hydrocarbons removed this quarter:	192 gallons
Operating Days this quarter:	84 days	Cumulative amount of hydrocarbons removed:	3,264 gallons
Total operating Days:	235 days	Operating Mode:	Catalytic
		Conversion Date (Downsized VES blower):	1/8/96
ADDITIONAL INFORMATION:			
Sites monitored and sampled jointly with former Unocal Station # 0543 Monitoring Wells MW-3, MW-5, MW-7, MW-8 and Vapor Wells VMW-1 through VMW-4 are shallow wells which are historically dry Recovery Well MW-2 had a trace amount of free product and was not sampled Remediation system shutdowns due to downsizing VES blower and replacing flowmeter Vapor extraction system shutdowns due to downsizing VES blower and replacing flowmeter			

Prepared by: Ron Scheele

Ron Scheele
Project Manager

Alton Project No: 30-0065

Approved by: Matthew W. Katen
California RG 5167

Matthew W. Katen, RG
Senior Geologist

Submission Date: 4/30/96



EXHIBIT 1
SAMPLING SCHEDULE

MONITORING WELL SAMPLING SCHEDULE 1996
Former Mobil Station 04-H6J

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MW-1	X	X	X	X
MW-2	X	X	X	X
MW-3*				
MW-4	X	X	X	X
MW-5*				
MW-6	X	X	X	X
MW-7*				
MW-8*				
MW-10	X	X	X	X
MW-11	X	X	X	X
MW-12	X	X	X	X
RW-1	X	X	X	X
RW-2	X	X	X	X
RW-3	X	X	X	X
RW-4	X	X	X	X

NOTES: X = well scheduled for sampling
* = well historically dry, screened above water table

EXHIBIT 2

GROUNDWATER LEVELS AND CHEMICAL ANALYSES

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (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	—	
08/04/95		0.00	37.00	311.03	1,900	—	99	330	40	570	10		
11/10/95		0.00	39.66	308.37	610	—	150	56	22	89	—		
02/12/96		0.00	36.19	311.84	470	—	3.0	37	7.8	140	1.3		
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	—	

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-2 (cont)	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	—	—	—	—	—	—	—
	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	—	—	—	—	—	—	—
	08/04/95		0.20	37.21	311.39	—	—	—	—	—	—	—
	11/10/95		0.24	39.87	308.76	—	—	—	—	—	—	—
02/12/96		Trace	36.16	312.29	—	—	—	—	—	—	—	
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	—	—	—	—	—	—	—	—	

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-3	01/27/94		—	Dry	—	—	—	—	—	—	—	—
(cont)	04/25/94		—	Dry	—	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	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	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-4	08/04/95		0.00	37.18	310.89	2,500	—	92	67	49	150	12
(cont)	11/10/95		0.00	39.86	308.21	11,000	—	1,100	590	420	1,200	—
	02/12/96		0.00	36.38	311.69	77	—	4.5	2.4	ND	2.8	17
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	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	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	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-6	07/31/92		0.00	43.61	304.62	96	—	1,500	1,500	370	1,100	—
(cont)	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	—
	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	—
	08/04/95		0.00	37.72	310.51	150	—	3.8	1.7	ND	1.1	6.5
	11/10/95		0.00	40.31	307.92	130	—	6.6	0.96	1.6	1.7	—
	02/12/96		0.00	36.92	311.31	65	—	2.8	1.6	0.57	1.3	5.2
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	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-7	11/30/93		—	Dry	—	—	—	—	—	—	—	—
(cont)	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-8	08/04/95		—	Dry	—	—	—	—	—	—	—	—
(cont)	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	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	—
	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)												
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	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-10 (cont)	08/04/95		0.00	37.42	310.53	ND	—	ND	ND	ND	ND	ND
	11/10/95		0.00	39.95	308.00	ND	—	ND	ND	ND	ND	—
	02/12/96		0.00	36.57	311.38	ND	—	ND	1.9	ND	1.2	1.2
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	—
	08/04/95		0.00	35.28	312.28	ND	—	ND	ND	ND	ND	ND
	11/10/95		0.00	36.85	310.71	ND	—	ND	0.88	ND	0.88	—
02/12/96		0.00	36.18	311.38	ND	—	ND	1.7	ND	1.2	1.3	
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	—
	08/04/95		0.00	39.07	308.08	ND	—	ND	ND	ND	ND	ND
	11/10/95		0.00	41.24	305.91	ND	—	ND	ND	ND	ND	—
02/12/96		0.00	38.19	308.96	ND	—	ND	2.1	ND	1.3	2.5	

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	MTBE (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	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	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	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	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	—	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
VMW-3 (cont)	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	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	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	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	—	—	—	—	—	—	—
	08/04/95		Trace	37.11	310.78	—	—	—	—	—	—	—
	11/10/95		0.02	39.74	308.17	—	—	—	—	—	—	—
	02/12/96		0.00	47.29	300.60	41,000	—	4,700	12,000	960	6,900	120

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
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	—
	08/04/95		0.00	37.35	310.47	21,000	—	4,100	1,400	810	3,200	ND
	11/10/95		0.00	41.02	306.80	26,000	—	2,600	990	810	2,700	—
	02/12/96		0.00	38.63	309.19	10,000	—	600	600	230	1,900	ND
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	—
	08/04/95		0.00	41.84	306.08	190	—	37	14	ND	19	8.1
	11/10/95		0.00	44.45	303.47	160	—	19	5.0	ND	4.4	—
	02/12/96		0.00	42.62	305.30	ND	—	2.0	2.0	ND	2.0	1.4
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	—
	08/04/95		0.00	37.62	310.67	520	—	63	ND	14	2.1	6.1
	11/10/95		0.00	40.26	308.03	450	—	94	28	31	43	—
	02/12/96		0.00	36.84	311.45	52	—	1.5	2.0	2.9	2.4	4.0

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
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	ND	—	ND	ND	ND	ND	—
	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	—
	05/03/95		0.00	36.75	314.03	—	—	—	—	—	—	—
	08/04/95		0.00	38.54	312.24	—	—	—	—	—	—	—
	11/10/95		0.00	40.97	309.81	—	—	—	—	—	—	—
	02/12/96		0.00	37.58	313.20	—	—	—	—	—	—	—
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	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-2#	11/30/93	349.51	—	—	—	—	—	—	—	—	—	—
(con't)	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	1,100	—	17	ND	ND	6	—
	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	—	—	—	—	—	—	—
	08/04/95		0.00	39.15	310.36	2,000	—	40	ND	17	43	—
	11/10/95		0.00	41.45	308.06	1,400	—	13	2.8	2.7	4.0	—
	02/12/96		0.00	38.11	311.40	3,200	—	66	9.2	27	35	ND
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	ND	—	ND	ND	ND	ND	—
	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	—	—	—	—	—	—	—

Groundwater Levels and Chemical Analysis

Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-3# (cont)	08/04/95		0.00	40.75	310.29	—	—	—	—	—	—	—
	11/10/95		0.00	42.68	308.36	—	—	—	—	—	—	—
	02/12/96		0.00	39.54	311.50	—	—	—	—	—	—	—
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	ND	—	ND	ND	ND	ND	—
	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	—	—	—	—	—	—	—
	08/04/95		0.00	38.10	312.04	63	—	0.77	1.1	1.9	15	—
	11/10/95		0.00	40.61	309.53	—	—	—	—	—	—	—
02/12/96		0.00	37.24	312.90	ND	—	ND	0.98	ND	0.67	—	
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	120	—	ND	ND	1.1	1.8	—
	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	—

Groundwater Levels and Chemical Analysis

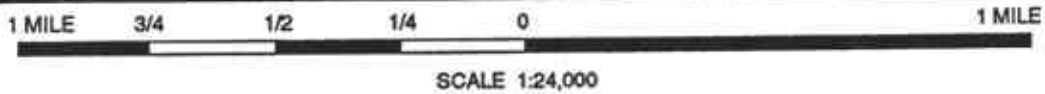
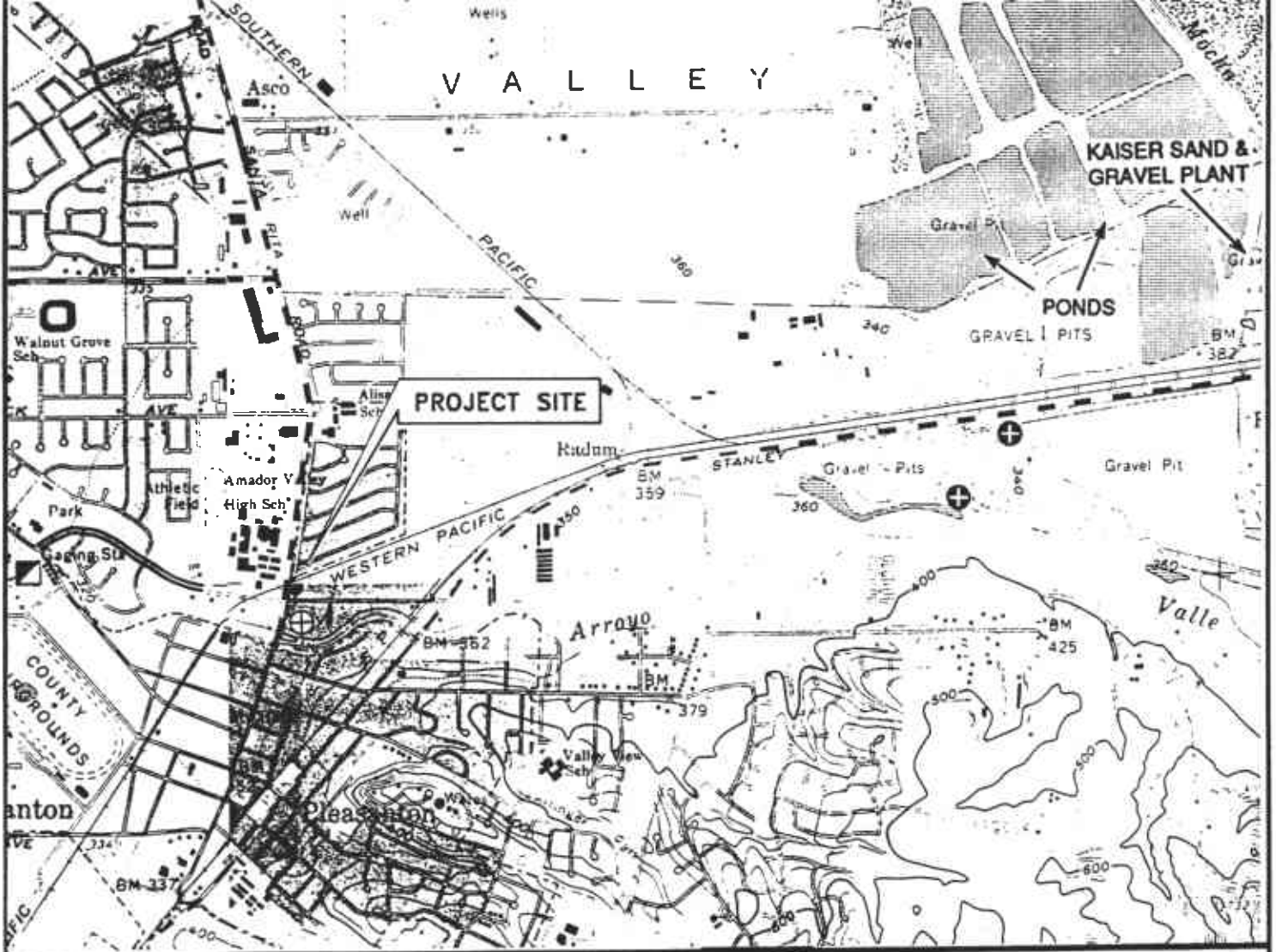
Former Mobil Station 04-H6J

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-5#	05/03/95		0.00	36.64	312.69	580	—	6.9	1.5	1.6	1.7	—
(cont)	08/04/95		0.00	39.00	310.33	550	—	5.4	0.76	1.2	11	—
	11/10/95		0.00	42.59	306.74	300	—	0.99	1.2	0.98	0.58	—
	02/12/96		0.00	37.25	312.08	420	—	0.2	2.1	1.7	1.2	—

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 Unocal Station #0543; resurveyed by Kier & Wright Civil Engineers & Surveyors, Inc. 09/20/93.
 Trace = product present but too thin to be measured



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

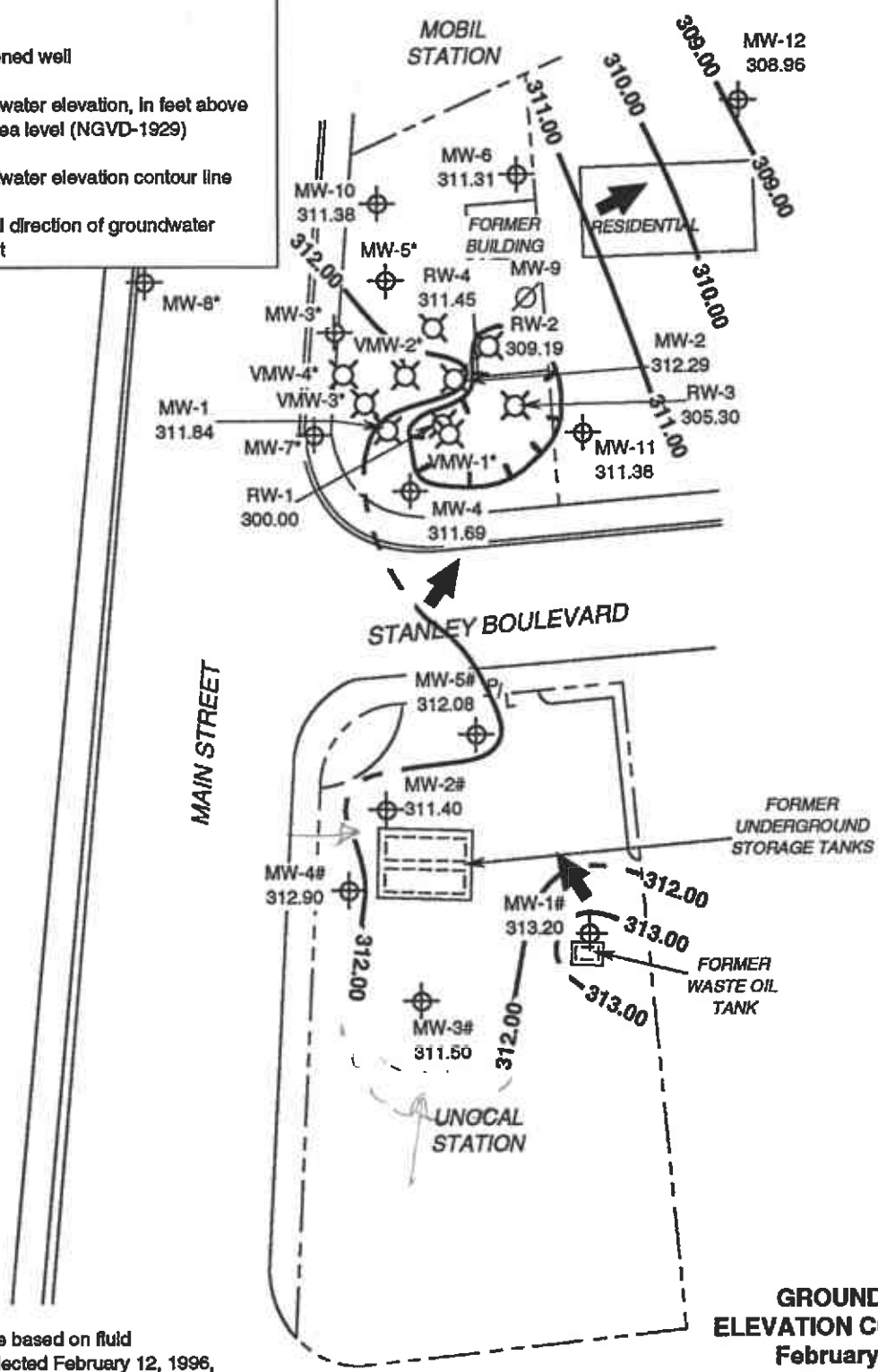
FIGURE 1



Project No. 30-0065

LEGEND

-  MW-12 Groundwater monitoring well
-  RW-4 Groundwater recovery/vapor extraction well
-  MW-9 Abandoned well
- 308.96 Groundwater elevation, in feet above mean sea level (NGVD-1929)
-  Groundwater elevation contour line
-  General direction of groundwater gradient



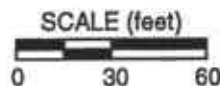
NOTES:

Contours are interpretive based on fluid level measurements collected February 12, 1996, under pumping conditions from groundwater recovery wells RW-1, RW-2 RW-3 and RW-4. Contour interval = 1.0 foot. # = Unocal groundwater monitoring well. Fluid levels measurements collected by MPDS. * = well screened above aquifer, no water present.

GROUNDWATER ELEVATION CONTOUR MAP February 12, 1996

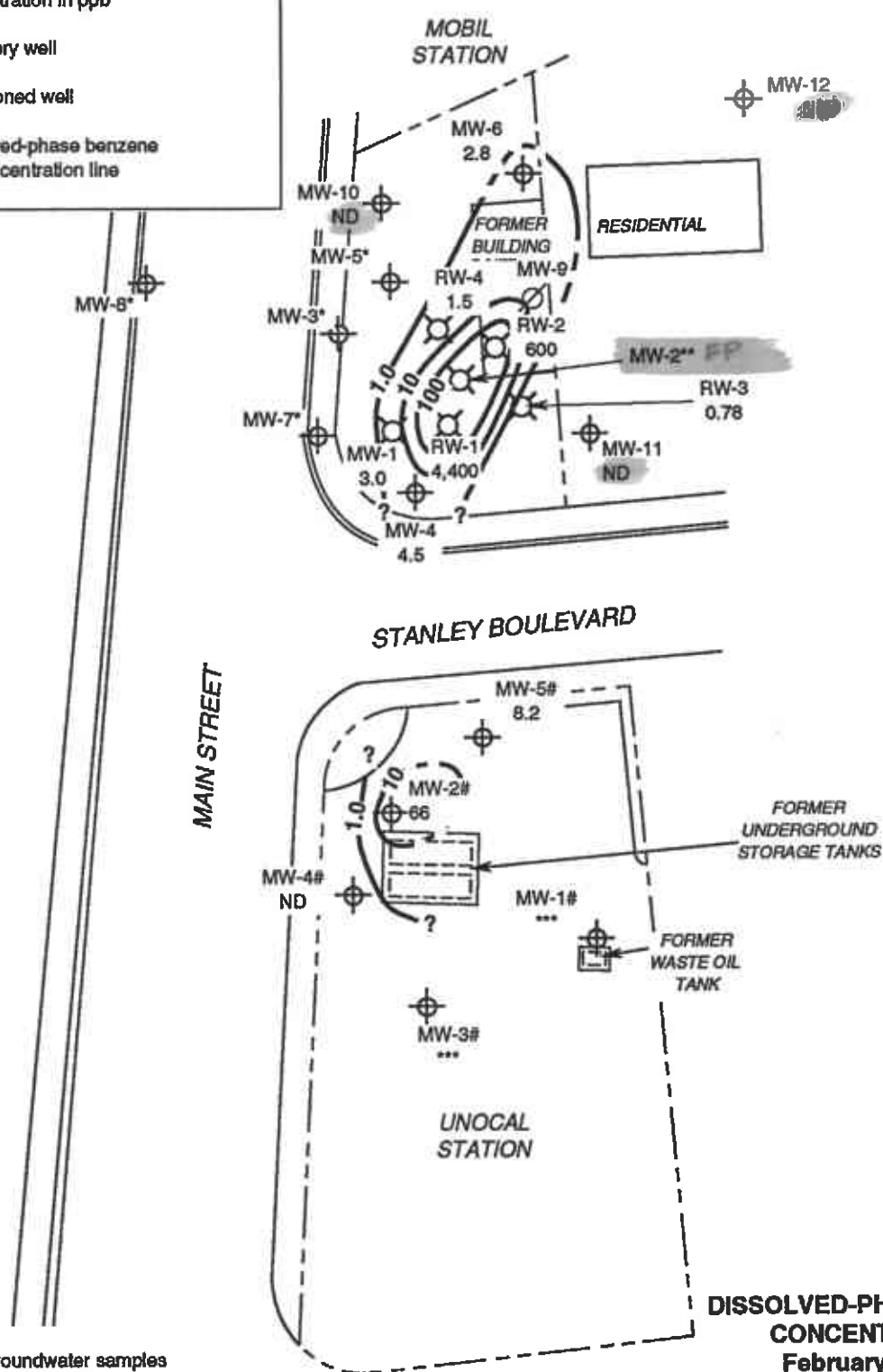
Former Mobil Station 04-H6J
1024 Main Street
Pleasanton, California
and
Former Unocal Station #0543
922 Main Street
Pleasanton, California

FIGURE 2



LEGEND

- ⊕ MW-12 ND Groundwater monitoring well showing dissolved-phase benzene concentration in ppb
- ⊗ RW-4 Recovery well
- ⊘ MW-9 Abandoned well
- Dissolved-phase benzene iso-concentration line



NOTES:

Results are based on groundwater samples collected on February 12, 1996. ND = not detected at or above method detection limit; ppb = parts per billion. # = Unocal groundwater monitoring well. Groundwater samples collected by MPDS. * = well screened above aquifer, no water present; ** = well not sampled due to presence of free product; *** = well not sampled.

DISSOLVED-PHASE BENZENE CONCENTRATIONS February 12, 1996

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

and
Former Unocal Station #0543
922 Main Street
Pleasanton, California

FIGURE 3



EXHIBIT 4

BENZENE VERSUS GROUNDWATER ELEVATION GRAPHS

Benzene vs. Groundwater Elevation Graphs

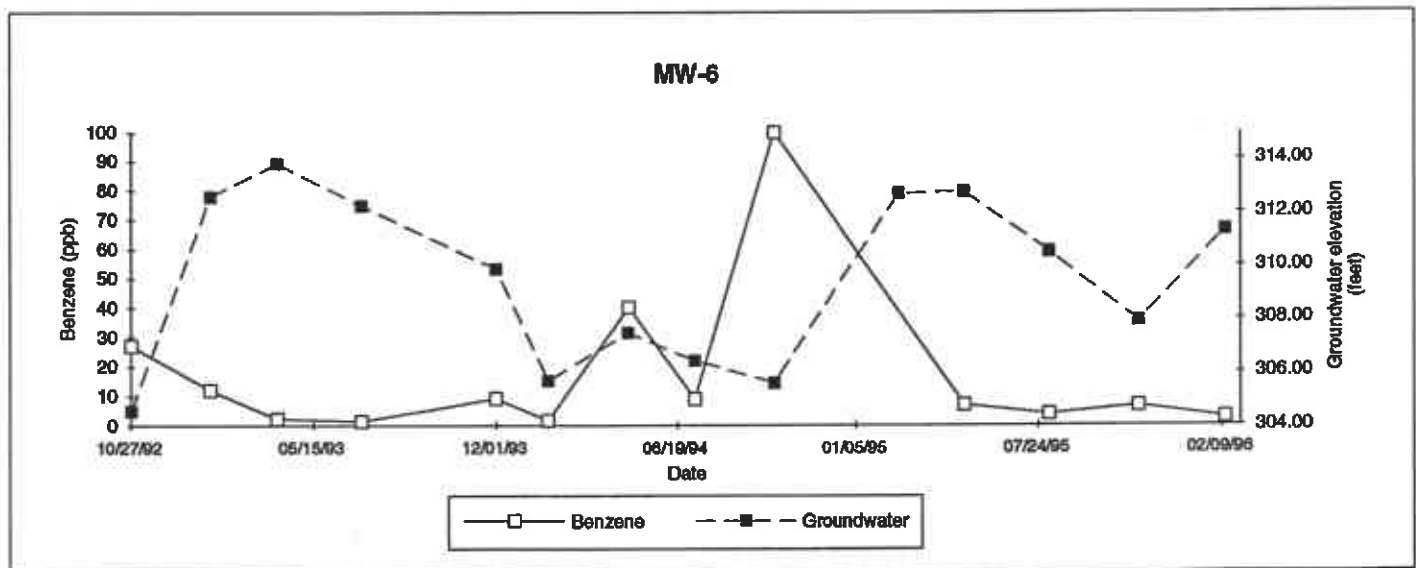
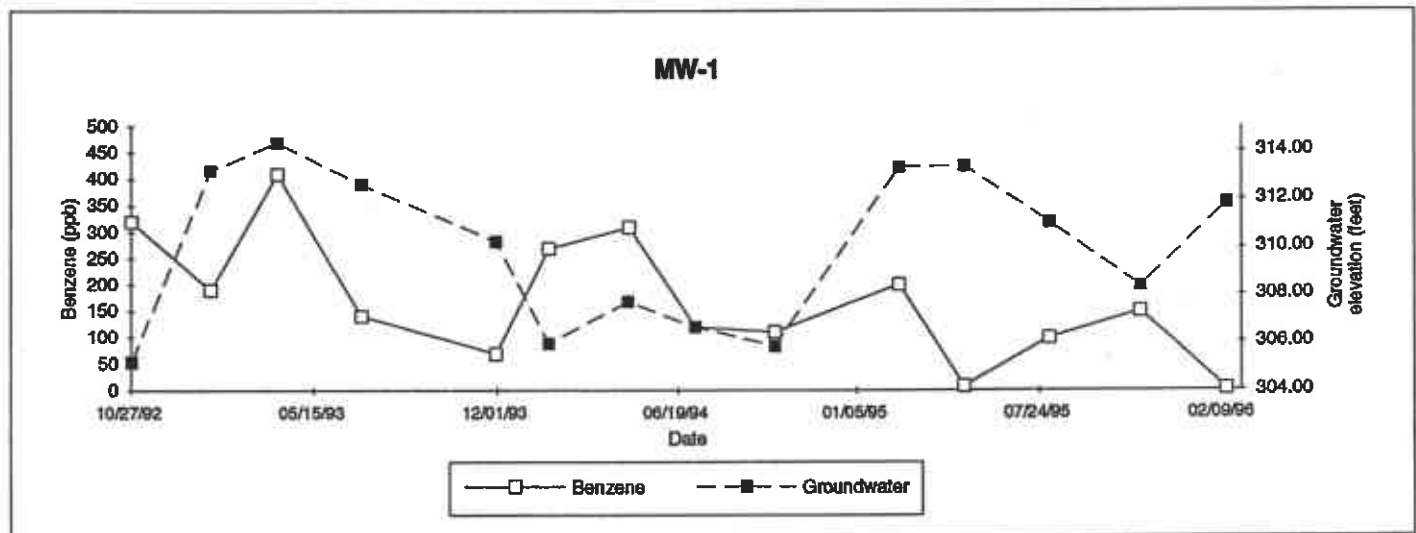
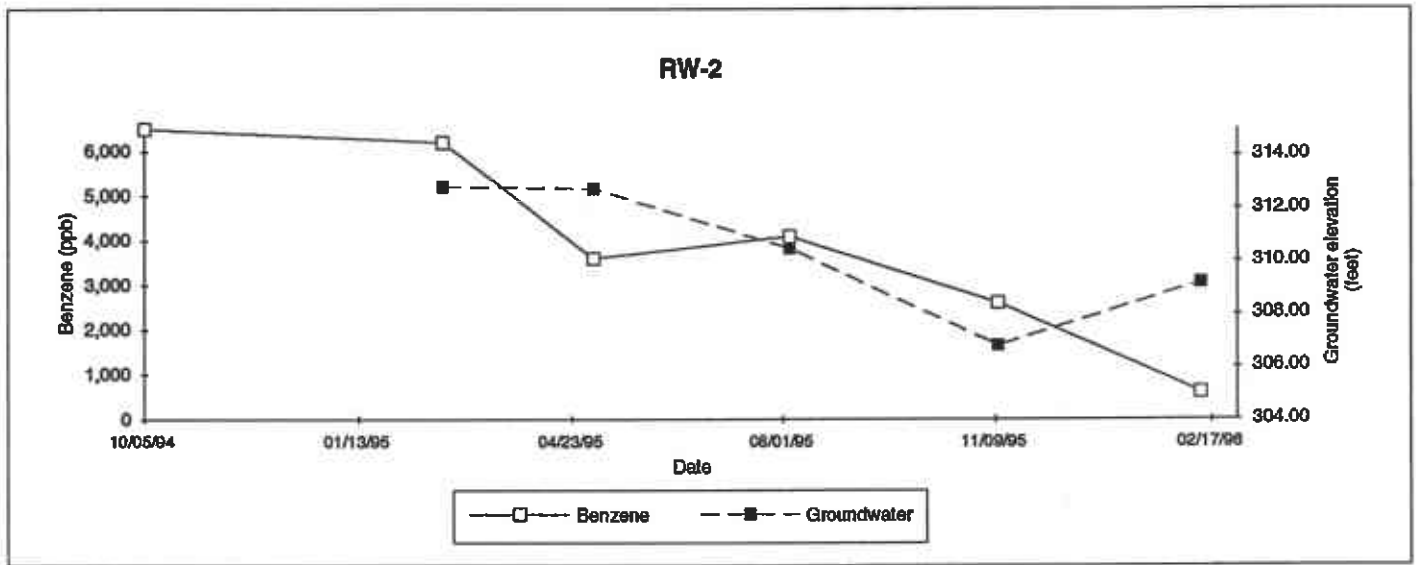


EXHIBIT 5

VAPOR EXTRACTION SYSTEM PERFORMANCE TABLES AND GRAPHS

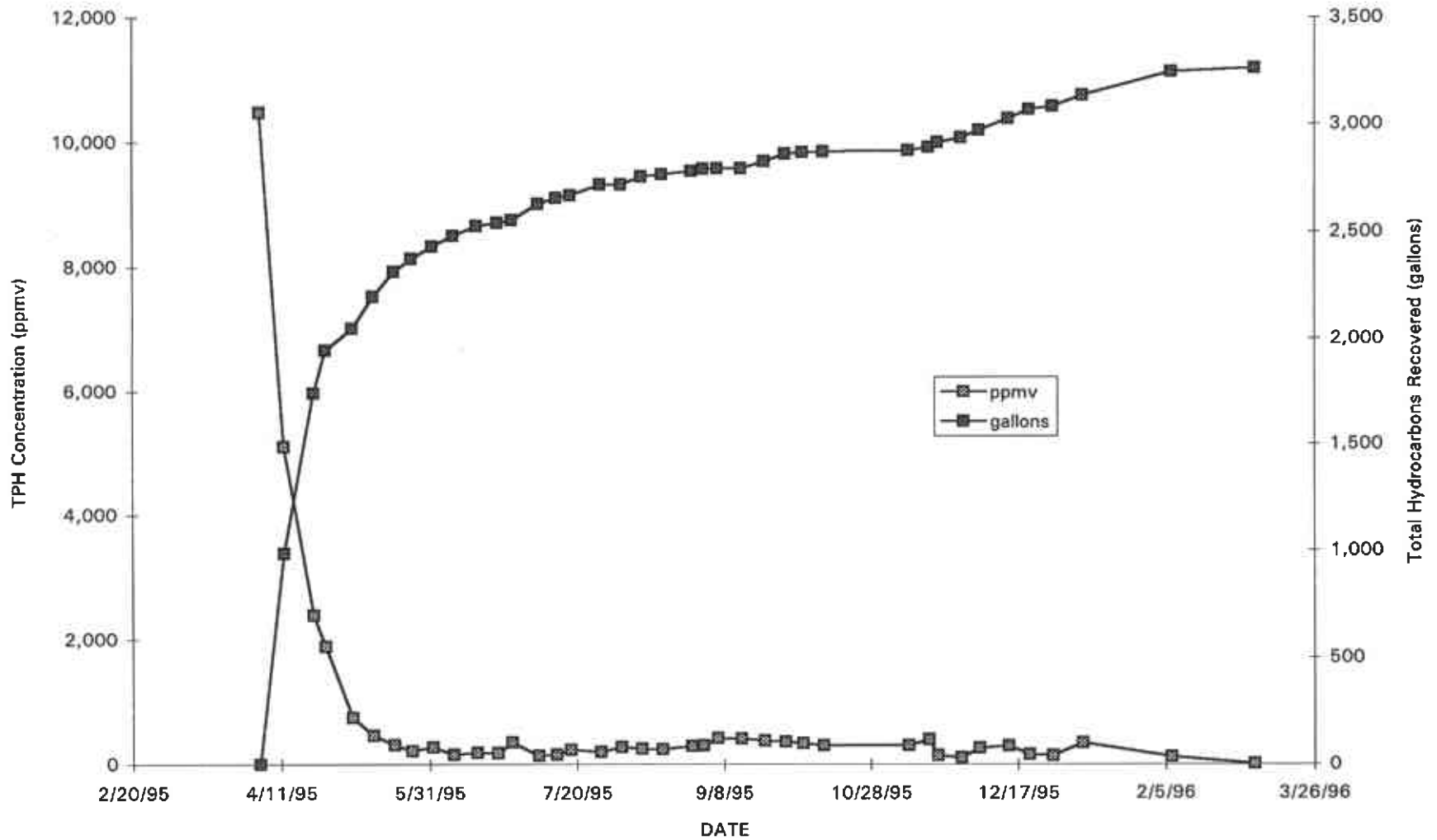
Vapor Extraction System Monitoring

Former Mobil Station # 04-H6J

Date (m/d/yy)	Operation Time			INFLUENT					EFFLUENT					RECOVERY DATA				
	Hour Meter Reading (hours)	Operating Time (hours)	Up-Time Per Period (%)	Total Flow Rate (cfm)	Vacuum Reading at Well Header (in. H2O)	Inlet Temp. (deg F)	Total Well TPH-G Conc. (ppmv)	Influent TPH-G Conc. (ppmv)		Effluent TPH-G Conc. (ppmv)		Effluent Benzene Conc. (ppmv)	Mass Emission TPH-G (lbs/day)	Mass Emission Benzene (lbs/day)	Outlet Temp. (deg F)	HC Recovery Per Period (gallons)	Cumulative HC Recovery (gallons)	Destruction Efficiency TPH-G (%)
								Field	Lab	Field	Lab							
4/4/95	11	0	0%	175	57	600	10,480	10,480	11,000	0	< 1.2	0.030	0.0808	0.0008	809	0	0	100.0
4/12/95	202	191	99%	324	96	601	5,100	5,100		0					850	985	986	
4/22/95	440	238	99%	314	96	599	2,400	2,400		0					764	766	1,742	
4/26/95	535	95	99%	432	96	597	1,890	1,890	390	0	2.8	< 0.016	0.4659	0.0020	710	202	1,944	99.3
5/5/95	601	66	31%	452	95	601	1,800	750		0					885	102	2,046	
5/12/95	768	167	99%	678	100	601	960	480	350	0	< 2.3	< 0.031	0.6006	0.0060	742	152	2,197	99.3
5/19/95	936	168	100%	678	100	601	1,010	310		0					701	116	2,314	
5/25/95	1080	144	100%	530	100	600	840	210		0					675	60	2,374	
6/1/95	1248	168	100%	535	97	598	870	270		0					683	57	2,431	
6/8/95	1415	167	99%	530	100	599	700	150	280	0	< 1.2	< 0.016	0.2450	0.0024	658	50	2,481	99.5
6/16/95	1607	192	100%	546	100	600	400	190		0					648	47	2,527	
6/23/95	1664	57	34%	540	98	601	520	180		0					647	15	2,542	
6/28/95	1695	31	26%	545	94	600	820	360		0					641	12	2,554	
7/7/95	1907	212	98%	545	90	601	320	140		0					635	75	2,629	
7/13/95	2055	148	103%	432	88	606	300	160		0					611	28	2,657	
7/18/95	2106	51	43%	471	74	599	650	230	320	0	2.1	0.044	0.3610	0.0059	648	12	2,669	99.3
7/28/95	2300	194	81%	432	84	NA	430	200		0					NA	50	2,719	
8/4/95	2303	3	2%	452	83	NA	690	270		0					NA	1	2,720	
8/11/95	2406	103	31%	589	68	NA	430	260		0					NA	37	2,757	
8/18/95	2440	34	20%	353	68	NA	480	240		0					NA	10	2,767	
8/28/95	2494	54	23%	432	62	600	730	290	370	0	< 2.6	< 0.016	0.4326	0.0020	679	15	2,782	99.3
9/1/95	2520	26	27%	441	69	629	190	300		0					678	5	2,791	
9/5/95	2524	4	3%	545	78	600	680	420	280	0	< 2.3	0.029	0.4828	0.0045	693	2	2,793	99.2
9/14/95	2528	4	2%	354	64	600	670	410		0					657	2	2,795	
9/22/95	2625	97	51%	285	130	600	3,450	380		0					755	31	2,826	
9/29/95	2742	117	70%	334	116	600	3,200	360		0					679	34	2,861	
10/5/95	2771	29	20%	334	115	600	3,100	330		0					682	9	2,870	
10/12/95	2780	9	5%	324	100	600	2,310	300	320	0	< 2.3	< 0.016	0.2670	0.0015	712	2	2,872	99.3
11/10/95	2798	18	3%	324	100	600	2,310	300		0					712	5	2,877	
11/17/95	2839	41	24%	393	82	600	3,360	390	300	0	< 2.3	< 0.016	0.3482	0.0018	664	13	2,890	99.2
11/20/95	2910	71	99%	525	88	600	2,100	140		0					601	23	2,913	
11/27/95	3045	135	80%	525	88	587	830	100		0					603	23	2,936	
12/4/95	3213	168	100%	360	86	602	2,200	260	230	0	< 2.3	< 0.016	0.3189	0.0016	643	36	2,971	99.0
12/14/95	3383	170	71%	525	92	601	1,650	290		0					612	55	3,026	
12/21/95	3651	168	100%	340	94	600	1,150	150		0					608	42	3,069	
12/29/95	3656	105	55%	332	90	598	890	140		0					605	14	3,082	
1/8/96	3887	241	100%	360	105	600	1,120	340	210	0	< 2.3	< 0.016	0.3189	0.0018	638	53	3,135	98.9
2/7/96	4602	705	99%	150	105	599	550	120	130	0	< 2.3	0.024	0.1329	0.0007	813	110	3,245	98.2
3/5/96	5281	679	101%	185	105	595	90	10	65	0	< 2.3	< 0.016	0.1462	0.0008	800	18	3,264	95.9
Total to Date = 5270			65%	Average % Operation														
NOTES: ppmv = parts per million volume cfm = cubic feet per minute HC Recovery Per Period = Hydrocarbons recovered based on weekly field data and an average hydrocarbon density of 6.25 lbs. per gallon HC Destruction Efficiency = Hydrocarbon destruction efficiency based on monthly lab data Total Well TPH-G Conc. = Concentration of total petroleum hydrocarbons as gasoline of soil vapor extracted from all open wells																		

Inlet TPH Concentration and Total Hydrocarbons Removed vs. Operating Time

Former Mobil Station 04-H6J



VES Influent Concentrations and Cumulative Hydrocarbons Recovered Based On Measured Field Data

EXHIBIT 6

GROUNDWATER REMEDIATION PERFORMANCE TABLES

Table 1

Summary of Results of Groundwater Treatment System Monitoring

Former Mobil Station 04-H6J

Sample ID	Date of Sampling	Flow Meter Reading (gallons)	Effluent Discharge (gallons)	Average Flow Rate (gpd)	Total Discharged (gallons)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
I-1	04/27/95	640	0	0	0	240	840	44	54	8.0	39
	05/05/95	55,200	54,560	6,820	54,560	—	—	—	—	—	—
	05/12/95	197,540	142,340	20,334	196,900	6,500	790	400	860	92	660
	05/25/95	328,980	131,440	10,111	328,340	—	—	—	—	—	—
	06/01/95	331,090	2,110	301	330,450	—	—	—	—	—	—
	06/08/95	460,730	129,640	18,520	460,090	780	130	82	130	15	140
	06/16/95	590,300	129,570	16,196	589,660	—	—	—	—	—	—
	06/23/95	626,890	36,590	5,227	626,250	—	—	—	—	—	—
	06/28/95	646,240	19,350	3,870	645,600	—	—	—	—	—	—
	07/07/95	646,930	690	77	646,290	—	—	—	—	—	—
	07/13/95	677,120	30,190	5,032	676,480	3,400	1,100	190	370	45	300
	07/18/95	711,770	34,650	6,930	711,130	—	—	—	—	—	—
	07/28/95	831,040	119,270	11,927	830,400	—	—	—	—	—	—
	08/04/95	831,940	900	129	831,300	—	—	—	—	—	—
	08/11/95	897,280	65,340	9,334	896,640	—	—	—	—	—	—
	08/17/95	918,610	21,330	3,555	917,970	—	—	—	—	—	—
	08/28/95	964,370	45,760	4,160	963,730	7,900	2,100	940	1,100	120	1,200
	09/01/95	969,900	5,530	1,383	969,260	—	—	—	—	—	—
	09/07/95	972,180	2,280	380	971,540	5,800	1,300	540	750	51	760
	09/14/95	975,490	3,310	473	974,850	—	—	—	—	—	—
	09/22/95	1,038,540	63,050	7,881	1,037,900	—	—	—	—	—	—
	09/29/95	1,114,830	76,290	10,899	1,114,190	—	—	—	—	—	—
	10/05/95	1,133,030	18,200	3,033	1,132,390	—	—	—	—	—	—
	10/12/95	1,139,200	6,170	881	1,138,560	2,700	690	280	470	45	270
	10/23/95	1,169,390	30,190	2,745	1,168,750	—	—	—	—	—	—
	11/10/95	1,169,390	0	0	1,168,750	—	—	—	—	—	—
	11/17/95	1,171,890	2,500	357	1,171,250	4,900	1,200	450	680	55	500

Table 1

Summary of Results of Groundwater Treatment System Monitoring

Former Mobil Station 04-H6J

Sample ID	Date of Sampling	Flow Meter Reading (gallons)	Effluent Discharge (gallons)	Average Flow Rate (gpd)	Total Discharged (gallons)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
I-1 (con't)	11/20/95	1,221,950	50,060	16,687	1,221,310	—	—	—	—	—	—
	11/27/95	1,295,450	73,500	10,500	1,294,810	—	—	—	—	—	—
	12/04/95	1,400,780	105,330	15,047	1,400,140	2,300	380	290	510	27	230
	12/14/95	1,501,930	101,150	10,115	1,501,290	—	—	—	—	—	—
	12/21/95	1,608,890	106,960	15,280	1,608,250	—	—	—	—	—	—
	12/29/95	1,632,530	23,640	2,955	1,631,890	—	—	—	—	—	—
	01/05/96	1,690,780	58,250	8,321	1,690,140	—	—	—	—	—	—
	01/08/96	1,735,880	45,100	15,033	1,735,240	3,000	520	250	600	46	440
	01/18/96	1,865,520	129,640	12,964	1,864,880	—	—	—	—	—	—
	01/25/96	1,886,830	21,310	3,044	1,886,190	—	—	—	—	—	—
	02/02/96	2,014,240	127,410	15,926	2,013,600	—	—	—	—	—	—
	02/07/96	2,027,770	13,530	2,706	2,027,130	1,800	860	38	75	9.6	110
	02/12/96	2,027,950	180	36	2,027,310	—	—	—	—	—	—
	02/22/96	10	0	0	2,027,310	—	—	—	—	—	—
	02/29/96	14,090	14,080	2,011	2,041,390	—	—	—	—	—	—
	03/06/96	23,260	9,170	1,528	2,036,480	25,000	3,400	5,400	5,400	360	3,500
	03/14/96	34,660	11,400	1,425	2,052,790	—	—	—	—	—	—
	03/22/96	46,300	11,640	1,455	2,048,120	—	—	—	—	—	—
	04/08/96	54,120	7,820	460	2,060,610	—	—	—	—	—	—
E-1	04/27/95	—	—	—	—	ND	87	ND	ND	ND	ND
	05/12/95	—	—	—	—	670	180	3.4	5.8	ND	9.8
	06/08/95	—	—	—	—	ND	ND	0.87	0.92	ND	1.4
	07/13/95	—	—	—	—	ND	110	ND	ND	ND	ND
	08/28/95	—	—	—	—	140	220	2.6	4.4	0.98	6.2
	09/07/95	—	—	—	—	200	290	5.8	6.9	0.77	93
	10/12/95	—	—	—	—	ND	120	ND	ND	ND	ND
	11/17/95	—	—	—	—	93	230	0.73	1.3	ND	1.4
	12/04/95	—	—	—	—	ND	120	ND	ND	ND	ND

Table 1

Summary of Results of Groundwater Treatment System Monitoring

Former Mobil Station 04-H6J

Sample ID	Date of Sampling	Flow Meter Reading (gallons)	Effluent Discharge (gallons)	Average Flow Rate (gpd)	Total Discharged (gallons)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
E-1 (cont)	01/08/96	—	—	—	—	110	76	52	11	0.74	9.4
	02/07/96	—	—	—	—	840	470	4.2	7.7	2.1	16
	03/06/96	—	—	—	—	140	420	1.1	0.94	ND	0.59

Total Effluent Discharged to Date: 2,081,420 gallons

NOTES: ppb = parts per billion
 TPH-G = total petroleum hydrocarbons as gasoline
 ND = not detected at or above method detection limit
 — = not measured/not analyzed
 gpd = gallons per day
 I-1 = Influent
 E-1 = effluent from primary carbon drum
 TPH-D = total petroleum hydrocarbons as diesel
 * = new flow meter installed 02/22/96

EXHIBIT 7

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

FLUID-LEVEL MONITORING

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

GROUNDWATER SAMPLING

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

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

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

EXHIBIT 8

MONITORING WELL SAMPLING FORMS

FLUID MEASUREMENT FIELD FORM

Project No.: 41-0063-25

Alton Personnel: MF#2

Station No.: 04-H65

Date: 2/12/96

System Info ARS: On Off

VES: On Off

No System

Well Number	Well Elevation	Depth to Water	Depth to Product	Free Product Thickness (ft)	Free Product Recovery	Total Depth	Comments
Rw-1		47.29				-	System Pump
Rw-2		38.63				-	System Pump
Rw-3		42.02				-	System Pump
Rw-4		36.84				-	System Pump
Mw-10		36.57				54.57	4
Mw-11		36.18				45.05	4
Mw-12		38.19				54.70	4
Mw-1		36.19				50.59	4
Mw-6		36.92				54.09	4
Mw-4		36.38				48.96	4
Mw-2		36.16	36.16	None TRACE Amount		48.86	2 No Sample
Mw-3							
Mw-5							
Mw-7							
Mw-8							
VMw-1							
VMw-2							
VMw-3							
VMw-4							

DRY

Groundwater Sampling Field Notes

Site: 04 HCS

Project No.: 41-0063-25

Sampled By: MFH2

Date: 2/12/96

PURGING EQUIPMENT:

Bailer (Teflon): _____ Bailer (PVC): _____ Submersible Pump: X Dedicated: _____ Diaphragm Pump: _____ Other: _____

SAMPLING EQUIPMENT:

Bailer (Teflon): _____ Dedicated: _____ Other: _____

METER CALIBRATION:

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

Well No.: Rw-1
 Total Depth (Ft): _____
 Depth to Water (Ft): _____
 Water Column (Ft): _____
 80% Recharge Depth (Ft): _____
 Purge Method: _____
 Depth to Product (Ft): _____
 Product Recovered (Gals): _____
 Casing Diameter (Inches): _____
 One Well Volume (Gals): _____

Well No.: Rw-2
 Total Depth (Ft): _____
 Depth to Water (Ft): _____
 Water Column (Ft): _____
 80% Recharge Depth (Ft): _____
 Purge Method: _____
 Depth to Product (Ft): _____
 Product Recovered (Gals): _____
 Casing Diameter (Inches): _____
 One Well Volume (Gals): _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
<u>System Pump</u>						
			Total Purged:	Time Sampled: <u>1:05</u>		

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
<u>System Pump</u>						
			Total Purged:	Time Sampled: <u>1:05</u>		

Well No.: Rw-3
 Total Depth (Ft): _____
 Depth to Water (Ft): _____
 Water Column (Ft): _____
 80% Recharge Depth (Ft): _____
 Purge Method: _____
 Depth to Product (Ft): _____
 Product Recovered (Gals): _____
 Casing Diameter (Inches): _____
 One Well Volume (Gals): _____

Well No.: Rw-4
 Total Depth (Ft): _____
 Depth to Water (Ft): _____
 Water Column (Ft): _____
 80% Recharge Depth (Ft): _____
 Purge Method: _____
 Depth to Product (Ft): _____
 Product Recovered (Gals): _____
 Casing Diameter (Inches): _____
 One Well Volume (Gals): _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
<u>System</u>						
			Total Purged:	Time Sampled: <u>1:05</u>		

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
<u>System</u>						
			Total Purged:	Time Sampled: <u>1:05</u>		

Well No.: Mw-10
 Total Depth (Ft): 54.37
 Depth to Water (Ft): 36.57
 Water Column (Ft): 17.80
 80% Recharge Depth (Ft): 40.17
 Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 4
 One Well Volume (Gals): 11.85 x 3 = 35.64

Well No.: Mw-11
 Total Depth (Ft): 45.03
 Depth to Water (Ft): 36.18
 Water Column (Ft): 8.87
 80% Recharge Depth (Ft): 37.95
 Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 4
 One Well Volume (Gals): 5.85 x 17 = 100.05

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
<u>12:52</u>		<u>36.57</u>	<u>11</u>	<u>1.11</u>	<u>70.0</u>	<u>8.85</u>
			<u>24</u>	<u>1.17</u>	<u>70.8</u>	<u>7.97</u>
			<u>37</u>	<u>1.13</u>	<u>71.1</u>	<u>7.83</u>
<u>1:02</u>		<u>-</u>	<u>36</u>			
			Total Purged: <u>36</u>	Time Sampled: <u>1:05</u>		

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH
<u>1:12</u>		<u>36.18</u>	<u>5</u>	<u>1.18</u>	<u>70.9</u>	<u>7.91</u>
			<u>10</u>	<u>1.27</u>	<u>71.5</u>	<u>7.88</u>
			<u>15</u>	<u>1.31</u>	<u>71.7</u>	<u>7.73</u>
<u>1:19</u>		<u>-</u>	<u>17</u>			
			Total Purged: <u>17</u>	Time Sampled: <u>1:45</u>		

Groundwater Sampling Field Note

Site: 04-H65 Project No.: 41-0063-25 Sampled By: MFH Date: 2/12/98

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

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

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

Well No.: MW-12
 Total Depth (Ft): 54.70
 Depth to Water (Ft): 36.17
 Water Column (Ft): 16.91
 80% Recharge Depth (Ft): 41.49
 Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 4
 One Well Volume (Gals): 10.8943 32.68

Well No.: MW-1
 Total Depth (Ft): 50.77
 Depth to Water (Ft): 36.17
 Water Column (Ft): 14.4
 80% Recharge Depth (Ft): 39.07
 Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 4
 One Well Volume (Gals): 9.5 2

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH	
1:30		38.19	10	1.08	71.0	7.71	
			20	1.05	71.5	7.68	
			30	.97	71.5	7.81	
1:35			32				
Total Purged:			32	Time Sampled: <u>1:00</u>			

Comments: _____
Turbidity: _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH	
2:05		36.17	10	1.11	71.6	7.8	
			15	1.11	71.7	7.7	
			27	1.13	71.9	7.91	
			21				
2:14							
Total Purged:			27	Time Sampled: <u>0:10</u>			

Comments: _____
Turbidity: _____

Well No.: MW-4
 Total Depth (Ft): 48.98
 Depth to Water (Ft): 36.35
 Water Column (Ft): 12.58
 80% Recharge Depth (Ft): 35.89
 Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 4
 One Well Volume (Gals): 5.3023 $=24.90$

Well No.: MW-6
 Total Depth (Ft): 54.09
 Depth to Water (Ft): 36.92
 Water Column (Ft): 17.17
 80% Recharge Depth (Ft): 46.35
 Purge Method: Sub
 Depth to Product (Ft): 0
 Product Recovered (Gals): 0
 Casing Diameter (Inches): 4
 One Well Volume (Gals): 11.33 3

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH	
2:32		36.35	8	1.1	71.0	7.80	
			16	1.11	71.2	7.77	
			24	1.13	71.5	7.90	
2:40			25				
Total Purged:			23	Time Sampled: <u>0:08</u>			

Comments: _____
Turbidity: _____

Time Start	Time Stop	Depth to Water (ft)	Volume Purged (gals)	Conductivity (uS/cm)	Temperature (F,C)	pH	
2:57		36.92	11	1.05	71.5	7.81	
			21	1.00	71.5	7.90	
			3	.97	71.9	7.85	
			34				
3:08							
Total Purged:			34	Time Sampled: <u>0:11</u>			

Comments: _____
Turbidity: _____

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

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

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

Comments: _____
Turbidity: _____

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

Comments: _____
Turbidity: _____

TABLE 1

SUMMARY OF MONITORING DATA

(Monitored and Sampled on February 12, 1996)

Well #	Depth to Water (feet)*	Product Thickness (feet)	Sheen	Water Purged (gallons)	Product Purged (ounces)
MW1*	37.58	0	--	0	0
MW2	38.11	0	No	8.5	0
MW3*	39.54	0	--	0	0
MW4	37.24	0	No	9	0
MW5	37.25	0	No	9	0

* Monitored only

-- Sheen determination was not performed

◆ Depth to water level measurements were taken from the top of the well casing.

EXHIBIT 9

ANALYTICAL LABORATORY DATA SHEETS



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 Mod./8020 First Sample #: 602-1006	Sampled: Feb 12, 1996 Received: Feb 14, 1996 Reported: Feb 22, 1996
--	--	---

QC Batch Number: GC022096 GC022196 GC022096 GC022196 GC022096 GC022196

802009A 802002A 802009A 802005A 802009A 802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 602-1006 RW-1	Sample I.D. 602-1007 RW-2	Sample I.D. 602-1008 RW-3	Sample I.D. 602-1009 RW-4	Sample I.D. 602-1010 MW-10	Sample I.D. 602-1011 MW-11
Purgeable Hydrocarbons	50	41,000	10,000	N.D.	52	N.D.	N.D.
Benzene	0.50	4,400	600	0.78	1.5	N.D.	N.D.
Toluene	0.50	12,000	600	2.0	2.0	1.9	1.7
Ethyl Benzene	0.50	960	230	N.D.	2.9	N.D.	N.D.
Total Xylenes	0.50	6,900	1,900	2.0	2.4	1.2	1.2
Chromatogram Pattern:		Gasoline	Gasoline	--	Gasoline	--	--

Quality Control Data

Report Limit Multiplication Factor:	200	50	1.0	1.0	1.0	1.0
Date Analyzed:	2/20/96	2/21/96	2/20/96	2/21/96	2/20/96	2/21/96
Instrument Identification:	HP-9	HP-2	HP-9	HP-5	HP-9	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	136	106	110	86	121	87

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

RECEIVED

MAR 01 1996





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 Mod./8020
First Sample #: 602-1012

Sampled: Feb 12, 1996
Received: Feb 14, 1996
Reported: Feb 22, 1996

QC Batch Number: GC022096 GC022096 GC022096 GC022096
802009A 802009A 802009A 802009A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 602-1012 MW-12	Sample I.D. 602-1013 MW-1	Sample I.D. 602-1014 MW-4	Sample I.D. 602-1015 MW-6
Purgeable Hydrocarbons	50	N.D.	470	77	65
Benzene	0.50	N.D.	3.0	4.5	2.8
Toluene	0.50	2.1	37	2.4	1.6
Ethyl Benzene	0.50	N.D.	7.8	N.D.	0.57
Total Xylenes	0.50	1.3	140	2.8	1.3
Chromatogram Pattern:		--	Gasoline	Gasoline & Unidentified Hydrocarbons <C7	Gasoline & Unidentified Hydrocarbons <C7

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0
Date Analyzed:	2/20/96	2/20/96	2/20/96	2/20/96
Instrument Identification:	HP-9	HP-9	HP-9	HP-9
Surrogate Recovery, %: (QC Limits = 70-130%)	113	109	105	107

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





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 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: ALTON Geo Services Station No./Site Address: 04-HCS/1024 Main Street, CA
 Address: 30A Lindbergh Av Project Contact: Ron Schick
 City: Livermore State: CA Zip: 94550 Mobil Oil Engineer: Christine Foych
 Tel: 510-606-9150 Fax: 510-606-7260 Sampler(s) (signature): Mark P... [Signature]

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	M T B E	
Rw-1	1/20	2/10	10:05	HCL	3	VoA	X						6021006	AC												X
Rw-2			10:20				X						6021007													X
Rw-3			10:45				X						6021008													X
Rw-4			10:35				X						6021009													X
Mw-10			1:05				X						6021010													X
Mw-11			1:45				X						6021011													X
Mw-12			1:50				X						6021012													X
Mw-1			2:20				X						6021013													X
Mw-4			2:15				X						6021014													X

CODING (check one)
 Code 1 Emergency Response
 Code 2 Site Assessment
 Code 3 Remediation (Plan Devlop)
 Code 4 Active Remediation (Install./Start)
 Code 5 Active Remediation (O & M)
 Code 6 Passive Remediation Monitoring
 Code 7 Closure
 Code 8 Construction
 Code 9 Litigation/Closure Fines

Relinquished by: [Signature] Date/Time: _____ Relinquished by: [Signature] Date/Time: 2/14/96 11:55
 Relinquished by: [Signature] Date/Time: 2/14/96 11:10 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____ Relinquished In Lab by: [Signature] Date/Time: 2/14/96 16:10
 Remarks: _____

Turnaround Time: (check one)
 Normal Same day _____
 1 day _____ 2 day _____
 5 day _____
 Sample Integrity:
 Intact _____ On Ice _____



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

Client Project ID: Mobil #04-H6J
Sample Descript: Water
Analysis for: MTBE (Modified EPA 8020)
First Sample #: 602-1006

Sampled: Feb 12, 1996
Received: Feb 14, 1996
Analyzed: Feb 20-21, 1996
Reported: Feb 22, 1996

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L	QC Batch Number	Instrument ID
602-1006	RW-1	120	1,900	GC022096802009A	HP-9
602-1007	RW-2	30	N.D.	GC022196802002A	HP-2
602-1008	RW-3	0.60	1.4	GC022096802009A	HP-9
602-1009	RW-4	0.60	4.0	GC022196802005A	HP-5
602-1010	MW-10	0.60	1.2	GC022096802009A	HP-9
602-1011	MW-11	0.60	1.3	GC022196802005A	HP-5
602-1012	MW-12	0.60	2.5	GC022096802009A	HP-9
602-1013	MW-1	0.60	1.3	GC022096802009A	HP-9
602-1014	MW-4	0.60	17	GC022096802009A	HP-9
602-1015	MW-6	0.60	5.2	GC022096802009A	HP-9

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager





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

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

QC Sample Group: 6021006-015

Reported: Feb 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022096 802009A	GC022096 802009A	GC022096 802009A	GC022096 802009A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	6021010	6021010	6021010	6021010
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/20/96	2/20/96	2/20/96	2/20/96
Analyzed Date:	2/20/96	2/20/96	2/20/96	2/20/96
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
Result:	24	25	23	73
MS % Recovery:	120	125	115	122
Dup. Result:	23	24	22	70
MSD % Recov.:	115	120	110	117
RPD:	4.3	4.1	4.4	4.2
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	9LCS022096	9LCS022096	9LCS022096	9LCS022096
Prepared Date:	2/20/96	2/20/96	2/20/96	2/20/96
Analyzed Date:	2/20/96	2/20/96	2/20/96	2/20/96
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
LCS Result:	22	22	21	67
LCS % Recov.:	110	110	105	112

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager





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

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

QC Sample Group: 6021006-015

Reported: Feb 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022196 802005A	GC022196 802005A	GC022196 802005A	GC022196 802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	L. Huang	L. Huang	L. Huang	L. Huang
MS/MSD #:	6020809	6020809	6020809	6020809
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/21/96	2/21/96	2/21/96	2/21/96
Analyzed Date:	2/21/96	2/21/96	2/21/96	2/21/96
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
Result:	20	19	20	60
MS % Recovery:	100	95	100	100
Dup. Result:	20	20	20	61
MSD % Recov.:	100	100	100	102
RPD:	0.0	5.1	0.0	1.7
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	3LCS022196	3LCS022196	3LCS022196	3LCS022196
Prepared Date:	2/21/96	2/21/96	2/21/96	2/21/96
Analyzed Date:	2/21/96	2/21/96	2/21/96	2/21/96
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
LCS Result:	20	19	19	58
LCS % Recov.:	100	95	95	97

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
---------------------------	--------	--------	--------	--------

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.
** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager





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

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

QC Sample Group: 6021006-015

Reported: Feb 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022196	GC022196	GC022196	GC022196
	802002A	802002A	802002A	802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	6020718	6020718	6020718	6020718
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/21/96	2/21/96	2/21/96	2/21/96
Analyzed Date:	2/21/96	2/21/96	2/21/96	2/21/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	23	22	23	68
MS % Recovery:	115	110	115	113
Dup. Result:	23	22	23	68
MSD % Recov.:	115	110	115	113
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	2LCS022196	2LCS022196	2LCS022196	2LCS022196
Prepared Date:	2/21/96	2/21/96	2/21/96	2/21/96
Analyzed Date:	2/21/96	2/21/96	2/21/96	2/21/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	24	22	23	70
LCS % Recov.:	120	110	115	117

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
 Kevin Van Slambrook
 Project Manager





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 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: ACTON Geo Sciences Station No./Site Address: 21-1165/1034 MAIN ST, PH
 Address: 30A Lindholm Ln Project Contact: Ross Scheek
 City: Livermore State: CA Zip: 94550 Mobil Oil Engineer: Cherine Furdak
 Tel: 510-606-9150 Fax: 510-608-9264 Sampler(s) (signature): Mark Sargent

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	TLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/>	Lead Total <input type="checkbox"/>	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	M T O E	
<u>MU-6</u>	<u>1/20</u>	<u>2/11/96</u>	<u>3:15</u>	<u>1L</u>	<u>3</u>	<u>1L</u>		<u>X</u>					<u>6021015</u>	<u>AC</u>												<u>X</u>

CODING (check one)
 Code 1 Emergency Response
 Code 2 Site Assessment
 Code 3 Remediation (Plan Develop)
 Code 4 Active Remediation (Install./Start)
 Code 5 Active Remediation (O & M)
 Code 6 Passive Remediation Monitoring
 Code 7 Closure
 Code 8 Construction
 Code 9 Litigation/Closure Fines

Relinquished by: Mark Sargent Date/Time: _____ Relinquished by: Kelly Bennett Date/Time: 2/11/96 11:55
 Relinquished by: Kelly Bennett Date/Time: 2/11/96 4:13 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____ Relinquished in Lab by: Ken Mander Date/Time: 2/14/96 16:10
 Remarks: _____

Turnaround Time: (check one)
 Normal Same day _____
 1 day _____ 2 day _____
 5 day _____
 Sample Integrity: Intact _____ On Ice



Sequoia Analytical

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819 Sinker Avenue, Suite 8

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Walnut Creek, CA 94598
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FAX (415) 864-9288
FAX (510) 988-9679
FAX (916) 921-0100

MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider	Client Project ID: Unocal #0843, 992 Main St., Pleasanton Matrix Descript: Water Analysis Method: EPA 8030/8015 Mod./8020 First Sample #: 602-0858	Sampled: Feb 12, 1996 Received: Feb 12, 1996 Reported: Feb 28, 1996
---	---	---

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Purgeable Hydrocarbons µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L
602-0858	MW-2	3,200	66	9.2	27	35
602-0859	MW-4	ND	ND	0.93	ND	0.67
602-0860	MW-5	420	8.2	2.1	1.7	1.2
602-0861	ES-1	ND	ND	ND	ND	ND
602-0862	ES-2	ND	ND	ND	ND	ND
602-0863	ES-3	ND	ND	ND	ND	ND

ES1, ES2, AND ES3 ARE QUALITY CONTROL SAMPLES.

Detection Limits:	50	0.50	0.50	0.50	0.50
-------------------	----	------	------	------	------

Total Purgeable Petroleum Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as ND were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kamp
Project Manager



Sequoia
Analytical

680 Chesapeake Drive
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Sacramento, CA 95834

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(916) 921-9600

FAX (415) 864-9333
FAX (510) 988-9673
FAX (916) 921-0100

MPDS Services	Client Project ID: Unocal #0543, 892 Main St., Pleasanton	Sampled: Feb 12, 1996
2401 Starwell Dr., Ste. 300	Matrix Descript: Water	Received: Feb 12, 1996
Concord, CA 94520	Analysis Method: EPA 5030/6015 Mod./8020	Reported: Feb 29, 1996
Attention: Jarrel Crder	First Sample #: 602-0858	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Chromatogram Pattern	DL Mult. Factor	Date Analyzed	Instrument ID	Surrogate Recovery, % QC Limits: 70-130
602-0858	MW-2	Gasoline	20	2/24/96	HP-2	138
602-0859	MW-4	--	1.0	2/24/96	HP-2	108
602-0860	MW-5	Gasoline	2.0	2/24/96	HP-2	104
602-0861	ES-1	--	1.0	2/24/96	HP-2	100
602-0862	ES-2	--	1.0	2/24/96	HP-2	106
602-0863	ES-3	--	1.0	2/24/96	HP-2	106

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

Page 2 of 2

6020858.MPD <2>





Sequoia
Analytical

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(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

MPDS Services 2401 Starwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Grider	Client Project ID: Unocal #0543, 892 Main St., Pleasanton Sample Descript: Water Analysis for: MTBE (Modified EPA 8020) First Sample #: 602-0858	Sampled: Feb 12, 1996 Received: Feb 12, 1996 Analyzed: Feb 24, 1996 Reported: Feb 29, 1996
---	---	---

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L
602-0858	MW-2	40	N.D.

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

6020858.MPD <3>





Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: Ron Scheele	Client Project ID: Mobil #04-H6J Sample Matrix: Air Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 601-0459	Sampled: Jan 8, 1996 Received: Jan 9, 1996 Reported: Jan 17, 1996
--	--	---

QC Batch Number: GC011096 GC011096 GC011096 GC011096

802002A 802002A 802002A 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 601-0459 I-1	Sample I.D. 601-0460 I-2	Sample I.D. 601-0461 I-3	Sample I.D. 601-0462 E-1
Purgeable Hydrocarbons	10	2,300	27	890	N.D.
Benzene	0.050	15	2.2	9.9	N.D.
Toluene	0.050	54	5.0	36	0.082
Ethyl Benzene	0.050	13	0.35	4.9	N.D.
Total Xylenes	0.050	92	3.4	36	0.10
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	--

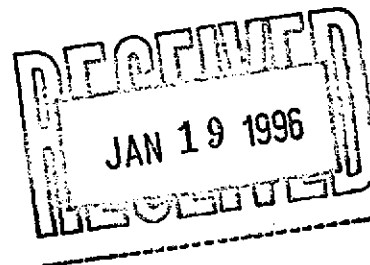
Quality Control Data

Report Limit Multiplication Factor:	50	1.0	10	1.0
Date Analyzed:	1/10/96	1/10/96	1/10/96	1/10/96
Instrument Identification:	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	122	101	148	99

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager





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

Client Project ID: Mobil #04-H6J
Sample Matrix: Air
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 601-0459

Sampled: Jan 8, 1996
Received: Jan 9, 1996
Reported: Jan 17, 1996

QC Batch Number: GC011096 GC011096 GC011096 GC011096

802002A 802002A 802002A 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit ppmv	Sample I.D. 601-0459 I-1	Sample I.D. 601-0460 I-2	Sample I.D. 601-0461 I-3	Sample I.D. 601-0462 E-1
Purgeable Hydrocarbons	2.3	530	6.2	210	N.D.
Benzene	0.016	4.7	0.69	3.1	N.D.
Toluene	0.013	14	1.3	9.6	0.022
Ethyl Benzene	0.012	3.0	0.081	1.1	N.D.
Total Xylenes	0.012	21	0.78	8.3	0.023
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	50	1.0	10	1.0
Date Analyzed:	1/10/96	1/10/96	1/10/96	1/10/96
Instrument Identification:	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	122	101	148	99

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager



Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron ScheeleClient Project ID: Mobil #04-H6J
Matrix: Liquid

QC Sample Group: 6010459-462

Reported: Jan 17, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC011096 802002A	GC011096 802002A	GC011096 802002A	GC011096 802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn
MS/MSD #:	5122684	5122684	5122684	5122684
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/10/96	1/10/96	1/10/96	1/10/96
Analyzed Date:	1/10/96	1/10/96	1/10/96	1/10/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	22	21	23	66
MS % Recovery:	110	105	115	110
Dup. Result:	21	20	20	62
MSD % Recov.:	105	100	100	103
RPD:	4.7	4.9	14	6.3
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS011096	2LCS011096	2LCS011096	2LCS011096
Prepared Date:	1/10/96	1/10/96	1/10/96	1/10/96
Analyzed Date:	1/10/96	1/10/96	1/10/96	1/10/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	23	22	23	67
LCS % Recov.:	115	110	115	112

MS/MSD LCS 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.

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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 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: 04 H6J ALERANTON	
Address: 30A LINDBERG AVE		Project Contact: RON SCHEELE	
City: LIVERMORE State: CA Zip: 94550		Mobil Oil Engineer: CHEKINE FOOTE	
Phone: 510 606 9150 Fax: 510 606 9260		Sampler(s) (signature): <i>[Signature]</i>	

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020		Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000			Lead Org./DHS	Lead Total	ED8/DBCd - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	CODING (check one)			
							BTEX - TPH	EPA M602/8015/8020 (GAS)						TPH EPA Modified 8015	Gas	Diesel							TTLc	STLc	Code 1	Code 2
I-1	AIR	1/9/96	1400	-	1	tectlon		X			6030459														<input type="checkbox"/> Emergency Response	
I-2	AIR	1/8/96	1400	-	1	tectlon		X			6030460														<input type="checkbox"/> Site Assessment	
I-3	AIR	1/9/96	1400	-	1	tectlon		X			6030461													<input checked="" type="checkbox"/> Active Remed. (O & M)		
E-1	AIR	1/9/96	1400	-	1	tectlon		X			6030462														<input type="checkbox"/> Passive Remed/Monitoring	
																									<input type="checkbox"/> Closure	
																									<input type="checkbox"/> Construction	
																									<input type="checkbox"/> Litigation/Claims Fines	

Relinquished by: <i>[Signature]</i> Date/Time: 1/9/96 1:15	Relinquished by: <i>Paul Banielli</i> Date/Time: 1/9/96 1:15	Turnaround Time: (check one): Normal <input type="checkbox"/> Same day <input type="checkbox"/> 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 5 day <input type="checkbox"/>
Relinquished by: <i>Paul Banielli</i> Date/Time: 1/9/96 3:40	Relinquished by: _____ Date/Time: _____	Sample Integrity: Intact <input type="checkbox"/> On Ice <input type="checkbox"/>
Relinquished by: _____ Date/Time: _____	Relinquished in Lab by: <i>Kenn Anderson</i> Date/Time: 1/9/96 16:00	

Remarks:



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

Client Project ID: Mobil #04-H6J/Pleasanton
Sample Matrix: Air
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 602-0368

Sampled: Feb 7, 1996
Received: Feb 7, 1996
Reported: Feb 14, 1996

QC Batch Number: GC021296 GC020996 GC020996 GC020996

802002B 802004B 802004B 802004B

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 602-0368 I-1	Sample I.D. 602-0369 I-2	Sample I.D. 602-0370 I-3	Sample I.D. 602-0371 E-1
Purgeable Hydrocarbons	10	1,800	58	530	N.D.
Benzene	0.050	45	0.16	5.2	0.077
Toluene	0.050	42	1.2	15	N.D.
Ethyl Benzene	0.050	12	0.56	3.4	0.096
Total Xylenes	0.050	130	7.5	28	N.D.
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	--

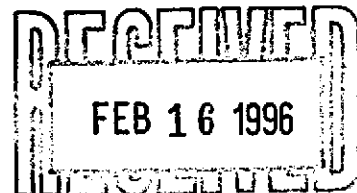
Quality Control Data

Report Limit Multiplication Factor:	50	2.0	5.0	1.0
Date Analyzed:	2/12/96	2/9/96	2/9/96	2/9/96
Instrument Identification:	HP-2	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	125	82	109	90

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



6020368.ALT <1>





Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: Ron Scheele	Client Project ID: Mobil #04-H6J/Pleasanton Sample Matrix: Air Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 602-0368	Sampled: Feb 7, 1996 Received: Feb 7, 1996 Reported: Feb 14, 1996
--	---	---

QC Batch Number:	GC021296	GC020996	GC020996	GC020996
	802002B	802004B	802004B	802004B

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit ppmv	Sample I.D. 602-0368 I-1	Sample I.D. 602-0369 I-2	Sample I.D. 602-0370 I-3	Sample I.D. 602-0371 E-1
Purgeable Hydrocarbons	2.4	440	14	130	N.D.
Benzene	0.016	14	0.050	1.6	0.024
Toluene	0.013	11	0.32	4.0	N.D.
Ethyl Benzene	0.012	2.8	0.13	0.78	0.022
Total Xylenes	0.012	30	1.7	6.5	N.D.
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	50	2.0	5.0	1.0
Date Analyzed:	2/12/96	2/9/96	2/9/96	2/9/96
Instrument Identification:	HP-2	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	125	82	109	90

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
 Project Manager



Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron ScheeleClient Project ID: Mobil #04-H6J/Pleasanton
Matrix: Liquid

QC Sample Group: 6020368-371

Reported: Feb 14, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC020996 802004A	GC020996 802004A	GC020996 802004A	GC020996 802004A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere
MS/MSD #:	BLK020996	BLK020996	BLK020996	BLK020996
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/9/96	2/9/96	2/9/96	2/9/96
Analyzed Date:	2/9/96	2/9/96	2/9/96	2/9/96
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
Result:	23	23	23	68
MS % Recovery:	115	115	115	113
Dup. Result:	22	22	22	66
MSD % Recov.:	110	110	110	110
RPD:	4.4	4.4	4.4	3.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS020996	2LCS020996	2LCS020996	2LCS020996
Prepared Date:	2/9/96	2/9/96	2/9/96	2/9/96
Analyzed Date:	2/9/96	2/9/96	2/9/96	2/9/96
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
LCS Result:	21	22	22	67
LCS % Recov.:	105	110	110	112

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



Kevin Van Slamprook
Project Manager

Please Note:

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

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





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

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

QC Sample Group: 6020368-371

Reported: Feb 14, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC021296 802002A	GC021296 802002A	GC021296 802002A	GC021296 802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere
MS/MSD #:	6020160	6020160	6020160	6020160
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/12/96	2/12/96	2/12/96	2/12/96
Analyzed Date:	2/12/96	2/12/96	2/12/96	2/12/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	25	24	24	73
MS % Recovery:	125	120	120	122
Dup. Result:	24	23	24	71
MSD % Recov.:	120	115	120	118
RPD:	4.1	4.3	0.0	2.8
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	1LCS021296	1LCS021296	1LCS021296	1LCS021296
Prepared Date:	2/12/96	2/12/96	2/12/96	2/12/96
Analyzed Date:	2/12/96	2/12/96	2/12/96	2/12/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	23	22	22	66
LCS % Recov.:	115	110	110	110

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

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





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- 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 Coscience Station No./Site Address: 04 H6J Pleasanton
 Address: 304 Lindbergh Ave Project Contact: Cherone Foutch
 City: Livermore State: CA Zip: 94550 Mobil Oil Engineer: Ron Scheele
 Tel: 606 9150 Fax: 606 9260 Sampler(s) (signature): [Signature]

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX - TPH	EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015	Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000	TTLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org/DHS <input type="checkbox"/>	Lead Total <input type="checkbox"/>	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	
I-1	Air	2/7/96	930	/	1	bag		X																	
I-2	Air	2/7/96	930	/	1	bag		X																	
I-3	Air	2/7/96	930	/	1	bag		X																	
E-1	Air	2/7/96	930	/	1	bag		X																	

CODING (check one)

Code 1 Emergency Response

Code 2 Site Assessment

Code 3 Remediation (Plan Devlpt.)

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: [Signature] Date/Time: _____ Relinquished by: [Signature] Date/Time: 2/7/96 9:15

Relinquished by: [Signature] Date/Time: 2/7/96 1710 Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____ Relinquished in Lab by: [Signature] Date/Time: 2/7/96 1710

Remarks: _____

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

Sample Integrity:
 Intact _____ On Ice _____

3 15 52



Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: Ron Scheele	Client Project ID: Mobil #04-H6J Sample Matrix: Air Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 603-0390	Sampled: Mar 6, 1996 Received: Mar 8, 1996 Reported: Mar 11, 1996
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QC Batch Number: GC030896 GC030896 GC030896 GC030896

802002A 802002A 802002A 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 603-0390 I-1	Sample I.D. 603-0391 I-2	Sample I.D. 603-0392 I-3	Sample I.D. 603-0393 E-1
Purgeable Hydrocarbons	10	1,100	N.D.	230	N.D.
Benzene	0.050	3.7	N.D.	0.76	N.D.
Toluene	0.050	27	N.D.	6.0	N.D.
Ethyl Benzene	0.050	13	N.D.	2.6	N.D.
Total Xylenes	0.050	120	N.D.	25	N.D.
Chromatogram Pattern:		Gasoline	--	Gasoline	--

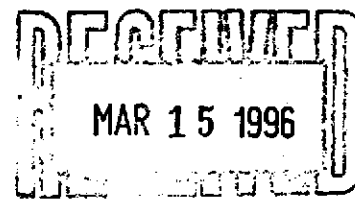
Quality Control Data

Report Limit Multiplication Factor:	5.0	1.0	2.0	1.0
Date Analyzed:	3/8/96	3/8/96	3/8/96	3/8/96
Instrument Identification:	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	201	101	152	102

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





Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: Ron Scheele	Client Project ID: Mobil #04-H6J Sample Matrix: Air Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 603-0390	Sampled: Mar 6, 1996 Received: Mar 8, 1996 Reported: Mar 11, 1996
--	--	---

QC Batch Number: GC030896 GC030896 GC030896 GC030896

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit ppmv	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.
		603-0390 I-1	603-0391 I-2	603-0392 I-3	603-0393 E-1
Purgeable Hydrocarbons	2.4	270	N.D.	56	N.D.
Benzene	0.016	1.2	N.D.	0.24	N.D.
Toluene	0.013	7.2	N.D.	1.6	N.D.
Ethyl Benzene	0.012	3.0	N.D.	0.60	N.D.
Total Xylenes	0.012	28	N.D.	58	N.D.
Chromatogram Pattern:		Gasoline	--	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	5.0	1.0	2.0	1.0
Date Analyzed:	3/8/96	3/8/96	3/8/96	3/8/96
Instrument Identification:	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	201	101	152	102

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
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Project Manager





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

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

QC Sample Group: 6030390-393

Reported: Mar 11, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC030896 802002B	GC030896 802002B	GC030896 802002B	GC030896 802002B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	M. Brewer	M. Brewer	M. Brewer	M. Brewer
MS/MSD #:	BLK030896	BLK030896	BLK030896	BLK030896
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/8/96	3/8/96	3/8/96	3/8/96
Analyzed Date:	3/8/96	3/8/96	3/8/96	3/8/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.4	8.9	10	27
MS % Recovery:	94	89	100	90
Dup. Result:	8.0	7.6	8.6	23
MSD % Recov.:	80	76	86	77
RPD:	16	16	15	16
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	1LCS030896	1LCS030896	1LCS030896	1LCS030896
Prepared Date:	3/8/96	3/8/96	3/8/96	3/8/96
Analyzed Date:	3/8/96	3/8/96	3/8/96	3/8/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	20	19	20	60
LCS % Recov.:	100	95	100	100

MS/MSD					
LCS	71-133	72-128	72-130	71-120	L
Control Limits	55-145	47-149	47-155	56-140	S

Please Note:

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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

Mobil Oil Consulting Firm: <u>Alton Geoscience</u>	Station No./Site Address: <u>04 H65 Pleasanton CA</u>
Address: <u>30A Lindbergh Ave Livermore</u>	Project Contact: <u>Ron Scheele</u>
City: <u>Livermore</u> State: <u>CA</u> Zip: <u>94550</u>	Mobil Oil Engineer: <u>Cherise Postch</u>
Phone: <u>606 9150</u> Fax: <u>606 9260</u>	Sampler(s) (signature): <u><i>Paul Far</i></u>

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX - TPH	EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015	Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 601.07000	ITLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/>	Lead Total <input type="checkbox"/>	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent
I-1	Air	3/6/96	4pm	/	1	to by bag		X						6030380										
I-2														6030391										
I-3														6030392										
E-1														6030393										

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 E 10 59

Code 8 Construction

Code 9 Litigation/Claims Fines

Relinquished by: <u><i>Paul Far</i></u>	Date/Time: _____	Relinquished by: <u><i>Ralph Bamill</i></u>	Date/Time: <u>3/8/96 0850</u>	Turnaround Time: (check one):	Normal <input checked="" type="checkbox"/>	Same day _____
Relinquished by: <u><i>Ralph Bamill</i></u>	Date/Time: <u>3/8/96 0930</u>	Relinquished by: _____	Date/Time: _____	1 day _____	2 day _____	5 day _____
Relinquished by: _____	Date/Time: _____	Relinquished by Lab by: <u><i>Charles D</i></u>	Date/Time: <u>3/8 0930</u>	Sample Integrity:	Intact _____	On Ice _____
Remarks: _____						



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 Mod./8020
First Sample #: 601-0463

Sampled: Jan 8, 1996
Received: Jan 9, 1996
Reported: Jan 24, 1996

QC Batch Number: GC011896 GC011996

802004A 802009A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 601-0463 I-1	Sample I.D. 601-0464 E-1
Purgeable Hydrocarbons	50	3,000	110
Benzene	0.50	250	52
Toluene	0.50	600	11
Ethyl Benzene	0.50	46	0.74
Total Xylenes	0.50	440	9.4
Chromatogram Pattern:		Gasoline	Gasoline

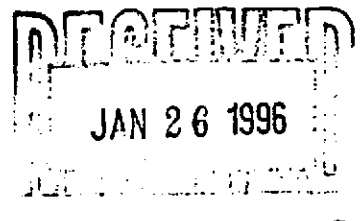
Quality Control Data

Report Limit Multiplication Factor:	10	1.0
Date Analyzed:	1/18/96	1/19/96
Instrument Identification:	HP-4	HP-9
Surrogate Recovery, %: (QC Limits = 70-130%)	93	92

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager





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

Client Project ID: Mobil # 04-H6J
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 601-0463

Sampled: Jan 8, 1996
Received: Jan 9, 1996
Reported: Jan 24, 1996

QC Batch Number: SP011096 SP011096

8015EXA 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 601-0463 I-1	Sample I.D. 601-0464 E-1
Extractable Hydrocarbons	50	520	76

Chromatogram Pattern: Unidentified Hydrocarbons <C15 Unidentified Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	1/10/96	1/10/96
Date Analyzed:	1/10/96	1/10/96
Instrument Identification:	HP-3A	HP-3A

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager





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

Client Project ID: Mobil # 04-H6J
Matrix: Liquid
QC Sample Group: 6010463-464

Reported: Jan 24, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC011896 802004A	GC011896 802004A	GC011896 802004A	GC011896 802004A	SP011096 8015EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	J. Dinsay
MS/MSD #:	6010045	6010045	6010045	6010045	BLK011096
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/18/96	1/18/96	1/18/96	1/18/96	1/10/96
Analyzed Date:	1/18/96	1/18/96	1/18/96	1/18/96	1/10/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Result:	21	21	22	65	170
MS % Recovery:	105	105	110	108	57
Dup. Result:	22	22	22	67	180
MSD % Recov.:	110	110	110	112	60
RPD:	4.7	4.7	0.0	3.0	5.7
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	2LCS011896	2LCS011896	2LCS011896	2LCS011896	LCS011096
Prepared Date:	1/18/96	1/18/96	1/18/96	1/18/96	1/10/96
Analyzed Date:	1/18/96	1/18/96	1/18/96	1/18/96	1/10/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
LCS Result:	20	21	21	63	210
LCS % Recov.:	102	103	104	105	70

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	50-150
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Please Note:

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

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager





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

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

QC Sample Group: 6010463-464

Reported: Jan 24, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC011996 802009A	GC011996 802009A	GC011996 802009A	GC011996 802009A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn
MS/MSD #:	6010615	6010615	6010615	6010615
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/19/96	1/19/96	1/19/96	1/19/96
Analyzed Date:	1/19/96	1/19/96	1/19/96	1/19/96
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
Result:	20	19	18	58
MS % Recovery:	100	95	90	97
Dup. Result:	20	19	18	59
MSD % Recov.:	100	95	90	98
RPD:	0.0	0.0	0.0	1.7
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	4LCS011996	4LCS011996	4LCS011996	4LCS011996
Prepared Date:	1/19/96	1/19/96	1/19/96	1/19/96
Analyzed Date:	1/19/96	1/19/96	1/19/96	1/19/96
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
LCS Result:	20	19	18	58
LCS % Recov.:	100	95	90	97

MS/MSD LCS 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.

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

SEQUOIA ANALYTICAL, #1271

 Kevin Van Slambrook
 Project Manager





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- 680 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: <u>ALTON GEOSCIENCE</u>				Station No./Site Address: <u>04-1667 ALBERTSON</u>			
Address: <u>30 A LINDBERGH AVE</u>				Project Contact: <u>RON SCHUELE</u>			
City: <u>LIVERMORE</u>		State: <u>CA</u>		Zip: <u>94550</u>		Mobil Oil Engineer: <u>CHELINE FOVICH</u>	
Tel: <u>510/606-9150</u>			Fax: <u>510/606-9260</u>			Sampler(s) signature: <u>[Signature]</u>	

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX - TPH	EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015	<input checked="" type="checkbox"/> 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	TTLIC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org/DHS <input type="checkbox"/>	Lead Total <input type="checkbox"/>	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	
<u>I-1</u>	<u>H₂O</u>	<u>1/2/96</u>	<u>1500</u>	<u>-</u>	<u>3</u>	<u>.</u>		<u>X</u>	<u>X</u>								<u>6030463</u>								
<u>E-1</u>	<u>H₂O</u>	<u>1/2/96</u>	<u>1500</u>	<u>-</u>	<u>3</u>	<u>-</u>		<u>X</u>	<u>X</u>								<u>6030464</u>								

- CODING (check one)**
- Code 1 Emergency Response
 - Code 2 Site Assessment
 - Code 3 Remediation (Plan Developm)
 - Code 4 Active Remede (Install./Start-u
 - Code 5 Active Remede (O & M)
 - Code 6 Passive Rum Monitoring
 - Code 7 Closure
 - Code 8 Construction
 - Code 9 Litigation/Clai Fines

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/9/96 1:15</u>	Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/9/96 1:15</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/9/96 3:40</u>	Relinquished by: <u>[Signature]</u>	Date/Time: <u> </u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u> </u>	Relinquished in Lab by: <u>[Signature]</u>	Date/Time: <u>1/9/96 16:00</u>

Turnaround Time: (check one)

Normal Same day

1 day 2 day

5 day

Remarks:

Sample Integrity: Intact On Ice



Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: Ron Scheele	Client Project ID: Mobil #04-H6J, Pleasanton Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 602-0419	Sampled: Feb 7, 1996 Received: Feb 7, 1996 Reported: Feb 12, 1996
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QC Batch Number: GC020996 GC020996

802009A 802009A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

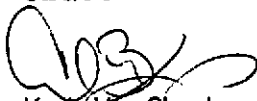
Analyte	Reporting Limit µg/L	Sample I.D. 602-0419 I-1	Sample I.D. 602-0420 E-1
Purgeable Hydrocarbons	50	1,800	840
Benzene	0.50	38	4.2
Toluene	0.50	75	7.7
Ethyl Benzene	0.50	9.6	2.1
Total Xylenes	0.50	110	16
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	2.0	1.0
Date Analyzed:	2/9/96	2/9/96
Instrument Identification:	HP-9	HP-9
Surrogate Recovery, %: (QC Limits = 70-130%)	82	72

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

RECEIVED
FEB 14 1996





Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: Ron Scheele	Client Project ID: Mobil #04-H6J, Pleasanton Sample Matrix: Water Analysis Method: EPA 3510/8015 Mod. First Sample #: 602-0419	Sampled: Feb 7, 1996 Received: Feb 7, 1996 Reported: Feb 12, 1996
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QC Batch Number:	SP020996 8015EXB	SP020996 8015EXB
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TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 602-0419 I-1	Sample I.D. 602-0420 E-1
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Extractable Hydrocarbons	50	860	470
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Chromatogram Pattern:	Unidentified Hydrocarbons <C15	Unidentified Hydrocarbons <C15
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Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	2/9/96	2/9/96
Date Analyzed:	2/9/96	2/9/96
Instrument Identification:	HP-3B	HP-3B

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager





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

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

QC Sample Group: 6020419-420

Reported: Feb 12, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC020996 802009A	GC020996 802009A	GC020996 802009A	GC020996 802009A	SP020996 8015EXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510
Analyst:	L. Huang	L. Huang	L. Huang	L. Huang	J. Dinsay
MS/MSD #:	6011769	6011769	6011769	6011769	BLK020996
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/9/96	2/9/96	2/9/96	2/9/96	2/9/96
Analyzed Date:	2/9/96	2/9/96	2/9/96	2/9/96	2/9/96
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	HP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Result:	20	19	19	59	300
MS % Recovery:	100	95	95	98	100
Dup. Result:	21	20	20	62	350
MSD % Recov.:	105	100	100	103	117
RPD:	4.9	5.1	5.1	5.0	15
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	4LCS020996	4LCS020996	4LCS020996	4LCS020996	LCS020996
Prepared Date:	2/9/96	2/9/96	2/9/96	2/9/96	2/9/96
Analyzed Date:	2/9/96	2/9/96	2/9/96	2/9/96	2/9/96
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	HP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
LCS Result:	20	19	19	59	330
LCS % Recov.:	100	95	95	98	110

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

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

6020419.ALT <3>





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 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: Altan Geoscience Station No./Site Address: 04/H6J Pleasanton
 address: 304 Lindberg Ln Ave Project Contact: Cherine Foutch
 City: Livermore State: CA Zip: 94558 Mobil Oil Engineer: Ron Schep
 Tel: 6069150 Fax: 6069150 Sampler(s) (signature): Paul Johnson

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/6020	BTEX - TPH	EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/>	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 60107000	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	
I-1	H ₂ O	2/7/96	930		4			X	X					6020419												Code 1	Emergency Response
E-1	H ₂ O	2/7/96	930		4			X	X					6020420												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: Paul Johnson Date/Time: _____ Relinquished by: Raff Benish Date/Time: 2/7/96 14:15
 Relinquished by: Raff Benish Date/Time: 2/7/96 17:10 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____ Relinquished in Lab by: Kevin M. Anderson Date/Time: 2/7/96 17:10
 Remarks: _____ Turnaround Time: (check one):
 Normal Same day _____
 1 day _____ 2 day _____
 5 day _____
 Sample Integrity: Intact _____ On Ice _____



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 Mod./8020
First Sample #: 603-0401

Sampled: Mar 6, 1996
Received: Mar 8, 1996
Reported: Mar 18, 1996

QC Batch Number: GC031496 GC031396

802005A 802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 603-0401 I-1	Sample I.D. 603-0402 E-1
Purgeable Hydrocarbons	50	25,000	140
Benzene	0.50	5,400	1.1
Toluene	0.50	5,400	0.94
Ethyl Benzene	0.50	360	N.D.
Total Xylenes	0.50	3,500	0.59
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	3/14/96	3/13/96
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	87	89

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

RECEIVED
MAR 20 1996
LIVERMORE





Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: Ron Scheele	Client Project ID: Mobil #04 H6J Sample Matrix: Water Analysis Method: EPA 3510/8015 Mod. First Sample #: 603-0401	Sampled: Mar 6, 1996 Received: Mar 8, 1996 Reported: Mar 18, 1996
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QC Batch Number: SP030896 8015EXA SP030896 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 603-0401 I-1	Sample I.D. 603-0402 E-1
Extractable Hydrocarbons	50	3400	420

Chromatogram Pattern: Unidentified Hydrocarbons <C15 Unidentified Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	3/8/96	3/8/96
Date Analyzed:	3/11/96	3/11/96
Instrument Identification:	HP-3B	HP-3B

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

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager





Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: Ron Scheele	Client Project ID: Mobil #04 H6J Matrix: Liquid QC Sample Group: 6030401-402	Reported: Mar 18, 1996
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QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC031496	GC031496	GC031496	GC031496	SP030896
	802005A	802005A	802005A	802005A	8015EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510
Analyst:	L. Huang	L. Huang	L. Huang	L. Huang	J. Dinsay
MS/MSD #:	6022067	6022067	6022067	6022067	BLK030896
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/14/96	3/14/96	3/14/96	3/14/96	3/8/96
Analyzed Date:	3/14/96	3/14/96	3/14/96	3/14/96	3/11/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Result:	19	19	19	58	250
MS % Recovery:	95	95	95	97	83
Dup. Result:	18	18	18	56	270
MSD % Recov.:	90	90	90	93	90
RPD:	5.4	5.4	5.4	3.5	7.7
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	3LCS031496	3LCS031496	3LCS031496	3LCS031496	LCS030896
Prepared Date:	3/14/96	3/14/96	3/14/96	3/14/96	3/8/96
Analyzed Date:	3/14/96	3/14/96	3/14/96	3/14/96	3/8/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
LCS Result:	19	19	20	61	250
LCS % Recov.:	95	95	100	102	83

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	50-150
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Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.
** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL, #1271
Kevin Van Slambrook
Kevin Van Slambrook
Project Manager





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

Client Project ID: Mobil #04 H6J
Matrix: Liquid

QC Sample Group: 6030401-402

Reported: Mar 18, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031396	GC031396	GC031396	GC031396
	802005A	802005A	802005A	802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	6030420	6030420	6030420	6030420
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/13/96	3/13/96	3/13/96	3/13/96
Analyzed Date:	3/13/96	3/13/96	3/13/96	3/13/96
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
Result:	20	19	19	51
MS % Recovery:	100	95	95	85
Dup. Result:	19	18	19	49
MSD % Recov.:	95	90	95	82
RPD:	5.1	5.4	0.0	4.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	3LCS031396	3LCS031396	3LCS031396	3LCS031396
Prepared Date:	3/13/96	3/13/96	3/13/96	3/13/96
Analyzed Date:	3/13/96	3/13/96	3/13/96	3/13/96
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
LCS Result:	18	17	18	55
LCS % Recov.:	90	85	90	92

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager

Please Note:

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

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





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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

Mobil Oil Consulting Firm: <u>Alton Geoscience</u>	Station No./Site Address: <u>04H6J Pleasanton</u>
Address: <u>30A Lindbergh</u>	Project Contact: <u>Ron Scheelp</u>
City: <u>Livermore</u> State: <u>CA</u> Zip: <u>94550</u>	Mobil Oil Engineer: <u>Cherine Foutch</u>
Tel: <u>606 9150</u> Fax: <u>606 9260</u>	Sampler(s) (signature): <u><i>Paul</i></u>

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX - TPH	EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/>	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000	TTL <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/>	Lead Total <input type="checkbox"/>	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent
<u>I-1</u>	<u>H2O</u>	<u>3/6/96</u>			<u>4</u>			<u>X</u>	<u>X</u>								<u>6030401</u>					<u>A-D</u>		
<u>E-1</u>	<u>H2O</u>	<u>3/6/96</u>			<u>4</u>			<u>X</u>	<u>X</u>								<u>6030402</u>					<u>↓</u>		

CODING (check one)

Code 1 Emergency Response

Code 2 Site Assessment

Code 3 Remediation (Plan Devlpmt.)

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

Code 5 Active Remed. (O & M)

Code 6 Passive Remed./Monitoring

Code 7 Closure

Code 8 Construction

Code 9 Litigation/Claims Fines

Relinquished by: <u><i>Paul Foutch</i></u> Date/Time: _____	Relinquished by: <u><i>Paul Benille</i></u> Date/Time: <u>3/8/96 0850</u>
Relinquished by: <u><i>Paul Benille</i></u> Date/Time: <u>3/8/96 0930</u>	Relinquished by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____	Relinquished in Lab By: <u><i>Paul Benille</i></u> Date/Time: <u>3/8 0930</u>

Turnaround Time: (check one):

Normal Same day _____

1 day _____ 2 day _____

5 day _____

Remarks: _____

Sample Integrity: Intact _____ On Ice _____