ALTON GEOSCIENCE
THE RESULTS TEAM

April 15, 1997

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

Dear Mr. Seery:

Please find enclosed the First Quarter 1997 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 Scheele

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

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

Alton Geoscience

Quarterly Progress Report Summary Sheet
First Quarter 1997

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

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

Number of water zones:	1	This Page	1
FIELD ACTIVITY:		Date Sampled:	17-Mar-97
Number of ground water wells on-site:	15	Ground Water Wells monitored:	18
Number of ground water wells off-site:	3	Ground Water Wells sampled:	11
		Ground Water Wells with Free Product:	0
Phase of Investigation: Vadose Zone:	Remediation	Ground Water Phase:	Remediation
SITE HYDROGEOLOGY:			
Approximate depth to ground water below ground surface:			36.5 feet
Approximate elevation of potentiometric surface above Mean Sea Level:			305 feet
Average Increase/Decrease in ground water elevations since last sampling episode:			3.0 foot decrease
Approximate flow direction and hydraulic gradient:			Central at 0.53 ft/ft
GROUND WATER CONTAMINATION (BENZENE MCL=1.0 ppb):			
Wells containing free product:	0	Range in Thickness of Free Product:	N/A
Number of wells with concentrations below MCL:	8	Volume of Free Product Recovered This Period:	0
Number of wells with concentrations at or above MCL:	3	Volume of Free Product Recovered To Date:	0
		Range in Concentrations:	Benzene: <0.50 to 3,600 ppb
Nature of contamination:	Gasoline		TPH-G: <50 to 38,000 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):	193,460	Carbon Change:	N/A
Total Amount of Groundwater Extracted (gallons):	2,732,830		
Operating days this quarter:	52		
Total operating Days:	343		
VAPOR EXTRACTION PERFORMANCE		Date Started:	4-Apr-95
Technology used:	Catalytic Oxidizer	Maximum influent Concentration (ppmv):	200 ppmv
Number of vapor wells onsite:	9	Maximum Diluted Influent Concentration (ppmv):	130 ppmv
Number of vapor extraction wells open:	4	Amount of hydrocarbons removed this quarter:	51 gallons
Operating Days this quarter:	52	Cumulative amount of hydrocarbons removed:	3,667 gallons
Total operating Days:	356	Operating Mode:	Catalytic
		Conversion Date (Downsized VES blower):	1/8/96

ADDITIONAL INFORMATION:

Site monitored and sampled quarterly, but jointly with former Unocal Station # 543 on a semi-annual schedule, i.e., first and third quarters.
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.
Vapor extraction wells MW-1, VMW-4 and combined groundwater/vapor extraction wells RW-2, RW-3, RW-4 were closed to soil vapor recovery.
Periodic shut-downs of remediation system occurred in February and March of 1997, due to electrical problems.
Groundwater samples were collected using the no-purge method.

Prepared by: _____ Chris Callegari, Staff Geologist — Alton Project No: 30-0065

Approved by: Matthew W Katen, California RG 5167 — Matthew W. Katen, RG, Senior Geologist — Submittal Date: 4/15/97

REGISTERED GEOLOGIST MATTHEW W KATEN NO. 5167 STATE OF CALIFORNIA

EXHIBIT 1

SAMPLING SCHEDULE

MONITORING WELL SAMPLING SCHEDULE 1997
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 ANALYSIS

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
	05/17/96		0.00	35.82	312.21	ND	—	ND	ND	ND	ND	ND
	08/12/96		0.00	38.44	309.59	ND	—	ND	ND	ND	ND	ND
	11/08/96		0.00	40.07	307.96	ND	—	ND	ND	ND	ND	ND
	02/12/97		0.00	34.27	313.76	—	—	—	—	—	—	—
	03/17/97		0.00	37.07	310.96	ND	—	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-2	04/12/90	348.45	0.00	44.14	304.31	64,000	—	5,500	7,600	1,900	7,800	—
	10/18/90		0.00	43.18	305.27	83,000	10,000	6,800	9,100	2,400	11,000	—
	08/06/91		0.00	39.19	309.26	160,000	—	16,000	25,000	4,300	19,000	—
	01/08/92		0.02	39.40	309.07	—	—	—	—	—	—	—
	04/30/92		0.00	40.50	307.95	71,000	—	9,200	19,000	3,700	15,000	—
	07/31/92		0.15	43.64	304.92	—	—	—	—	—	—	—
	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	—	—	—	—	—	—	—
	05/17/96		0.00	35.95	312.50	57,000	—	950	3,000	940	6,500	ND
	08/12/96		0.00	38.45	310.00	86,000	—	18,000	16,000	1,700	10,000	ND
	11/08/96		0.01	40.27	308.19	—	—	—	—	—	—	—
	02/12/97		0.00	34.37	314.08	—	—	—	—	—	—	—
**	03/17/97		—	—	—	—	—	—	—	—	—	—

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	04/12/90	347.97	0.00	23.18	324.79	2,100	—	32	56	31	170	—
	10/18/90		0.00	14.28	333.69	110	ND	3	3	1	5	—
	08/06/91		—	Dry	—	—	—	—	—	—	—	—
	01/08/92		0.00	32.36	315.61	680	—	8.9	26	8.5	72	—
	04/30/92		—	Dry	—	—	—	—	—	—	—	—
	07/31/92		—	Dry	—	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—	—
	01/22/93		0.00	27.30	320.67	2,600	—	240	300	170	440	—
	04/05/93		—	Dry	—	—	—	—	—	—	—	—
	07/06/93		—	Dry	—	—	—	—	—	—	—	—
	11/30/93		—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
	11/08/96		—	Dry	—	—	—	—	—	—	—	—
	02/12/97		—	Dry	—	—	—	—	—	—	—	—
	03/17/97		0.00	22.39	325.58	ND	—	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-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	—
	08/04/95		0.00	37.18	310.89	2,500	—	92	67	49	150	12
	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
	05/17/96		0.00	36.00	312.07	470	—	50	ND	ND	8.9	ND
	08/12/96		0.00	38.63	309.44	4,000	—	830	180	160	250	ND
	11/08/96		0.00	40.28	307.79	1,100	—	160	35	41	110	ND
	02/12/97		0.00	34.45	313.62	—	—	—	—	—	—	—
	03/17/97		0.00	37.25	310.82	2,100	—	200	40	54	74	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-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	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
	11/08/96		—	Dry	—	—	—	—	—	—	—	—
	02/12/97		—	Dry	—	—	—	—	—	—	—	—
	03/17/97		0.00	34.21	313.76	—	—	—	—	—	—	—
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	—

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	04/30/92		0.00	40.46	307.77	610	—	180	8.4	6.8	3.3	—
(con't)	07/31/92		0.00	43.61	304.62	96	—	1,500	1,500	370	1,100	—
	10/27/92		0.00	43.68	304.55	9,400	—	27	ND	6	10	—
	01/22/93		0.00	35.66	312.57	250	—	12	2.4	1.4	1.9	—
	04/05/93		0.00	34.41	313.82	190	—	2.3	0.99	ND	0.5	—
	07/06/93		0.00	36.01	312.22	99	—	1.4	0.54	ND	ND	—
	11/30/93		0.00	38.36	309.87	86	—	9.1	ND	ND	ND	—
	01/27/94		0.00	42.57	305.66	140	—	1.7	ND	ND	ND	—
	04/25/94		0.00	40.77	307.46	—	—	—	—	—	—	—
	04/26/94		—	—	—	330	—	40	ND	ND	ND	—
	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
	05/17/96		0.00	36.56	311.67	91	—	2.8	ND	ND	ND	ND
	08/12/96		0.00	39.12	309.11	75	—	4.6	2.6	ND	1.7	ND
	11/08/96		0.00	40.69	307.54	60	—	2.5	0.60	0.50	0.68	ND
	02/12/97		0.00	34.99	313.24	—	—	—	—	—	—	—
	03/17/97		0.00	37.76	310.47	ND	—	ND	ND	ND	ND	ND
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	—

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-7	04/30/92		—	Dry	—	—	—	—	—	—	—	—
(con't)	07/31/92		—	Dry	—	—	—	—	—	—	—	—
	10/27/92		—	Dry	—	—	—	—	—	—	—	—
	01/22/93		—	Dry	—	—	—	—	—	—	—	—
	04/05/93		—	Dry	—	—	—	—	—	—	—	—
	07/06/93		—	Dry	—	—	—	—	—	—	—	—
	11/30/93		—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
	11/08/96		—	Dry	—	—	—	—	—	—	—	—
	02/12/97		—	Dry	—	—	—	—	—	—	—	—
	03/17/97		—	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	—	—	—	—	—	—	—	—

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	01/22/93		—	Dry	—	—	—	—	—	—	—	—
(con't)	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	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
	11/08/96		—	Dry	—	—	—	—	—	—	—	—
	02/12/97		—	Dry	—	—	—	—	—	—	—	—
	03/17/97		—	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	—

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-9	01/27/94		0.00	44.32	304.21	11,000	—	1,400	130	230	700	—
(con't)	04/25/94		0.00	43.05	305.48	—	—	—	—	—	—	—
	04/26/94		—	—	—	3,900	—	460	56	160	220	—
	07/08/94		0.00	45.72	302.81	2,600	—	340	82	96	220	—
(Abandoned	08/01/94)											
MW-10	11/30/93	347.95	0.00	37.97	309.98	ND	—	ND	ND	ND	ND	—
	01/27/94		0.00	42.16	305.79	ND	—	ND	ND	ND	1.2	—
	04/25/94		0.00	40.39	307.56	—	—	—	—	—	—	—
	04/26/94		—	—	—	810	—	17	0.84	ND	ND	—
	07/08/94		0.00	41.45	306.50	110	—	18	12	3.7	14	—
	10/05/94		0.00	42.28	305.67	87	—	8.0	5.0	0.85	4.5	—
	02/21/95		0.00	35.14	312.81	70	—	3.6	12	1.8	9.5	—
	05/03/95		0.00	35.07	312.88	ND	—	ND	ND	ND	ND	—
	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
	05/17/96		0.00	36.18	311.77	ND	—	ND	ND	ND	ND	ND
	08/12/96		0.00	38.76	309.19	ND	—	ND	ND	ND	ND	ND
	11/08/96		0.00	40.35	307.60	ND	—	ND	ND	ND	ND	ND
	02/12/97		0.00	34.62	313.33	—	—	—	—	—	—	—
	03/17/97		0.00	37.40	310.55	ND	—	ND	ND	ND	ND	ND
MW-11	11/30/93	347.56	0.00	38.41	309.15	ND	—	ND	ND	ND	1.6	—
	01/27/94		0.00	38.02	309.54	ND	—	ND	ND	ND	ND	—
	04/25/94		0.00	38.77	308.79	—	—	—	—	—	—	—
	04/26/94		—	—	—	ND	—	ND	ND	ND	1.7	—

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-11	07/08/94		0.00	41.70	305.86	120	—	23	18	4.0	15	—
(con't)	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
	05/17/96		0.00	34.39	313.17	ND	—	ND	ND	ND	ND	ND
	08/12/96		0.00	35.64	311.92	ND	—	ND	ND	ND	ND	ND
	11/08/96		0.00	37.34	310.22	ND	—	ND	ND	ND	0.81	ND
	02/12/97		0.00	35.37	312.19	—	—	—	—	—	—	—
	03/17/97		—	35.11	312.45	ND	—	ND	ND	ND	ND	ND
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
**	05/17/96		—	—	—	—	—	—	—	—	—	—
	08/12/96		0.00	40.32	306.83	ND	—	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-12	11/08/96		0.00	41.32	305.83	ND	—	ND	ND	ND	ND	ND
(con't)	02/12/97		0.00	35.98	311.17	—	—	—	—	—	—	—
	03/17/97		0.00	38.67	308.48	ND	—	ND	ND	ND	ND	ND
VMW-1	11/30/93	348.05	—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		—	Dry	—	—	—	—	—	—	—	—
	07/08/94		—	Dry	—	—	—	—	—	—	—	—
	10/05/94		—	—	—	—	—	—	—	—	—	—
	02/21/95		—	Dry	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
	11/08/96		—	Dry	—	—	—	—	—	—	—	—
	02/12/97		0.00	30.60	—	—	—	—	—	—	—	—
	03/17/97		—	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	—	—	—	—	—	—	—	—

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-2	11/10/95		—	Dry	—	—	—	—	—	—	—	—
(con't)	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
	11/08/96		—	Dry	—	—	—	—	—	—	—	—
	02/12/97		—	Dry	—	—	—	—	—	—	—	—
	03/17/97		—	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	—	—	—	—	—	—	—	—
	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
	11/08/96		—	Dry	—	—	—	—	—	—	—	—
	02/12/97		—	Dry	—	—	—	—	—	—	—	—
	03/17/97		0.00	31.29	316.81	—	—	—	—	—	—	—
VMW-4	11/30/93	347.95	—	Dry	—	—	—	—	—	—	—	—
	01/27/94		—	Dry	—	—	—	—	—	—	—	—
	04/25/94		—	31.41	316.54	—	—	—	—	—	—	—
	07/08/94		—	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-4	02/21/95		—	Dry	—	—	—	—	—	—	—	—
(con't)	05/03/95		—	Dry	—	—	—	—	—	—	—	—
	08/04/95		—	Dry	—	—	—	—	—	—	—	—
	11/10/95		—	Dry	—	—	—	—	—	—	—	—
	02/12/96		—	Dry	—	—	—	—	—	—	—	—
	05/17/96		—	Dry	—	—	—	—	—	—	—	—
	08/12/96		—	Dry	—	—	—	—	—	—	—	—
	11/08/96		—	Dry	—	—	—	—	—	—	—	—
	02/12/97		—	Dry	—	—	—	—	—	—	—	—
	03/17/97		—	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	—	4,400	12,000	960	6,900	120
	05/17/96		0.00	47.53	300.36	81,000	—	2,700	8,600	1,100	6,300	ND
	08/12/96		0.00	39.75	308.14	140,000	—	12,000	25,000	2,200	15,000	ND
	11/08/96		—	—	—	81,000	—	5,300	11,000	1,300	8,900	ND
	02/12/97		0.00	46.50	301.39	—	—	—	—	—	—	—
	03/17/97		0.00	49.30	298.59	38,000	—	3,600	12,000	710	7,400	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)
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
	05/17/96		0.00	48.56	299.26	4,000	—	300	64	86	470	10
	08/12/96		0.00	44.74	303.08	5,400	—	1,100	36	320	190	ND
	11/08/96		—	—	—	3,500	—	480	48	150	150	ND
	02/12/97		0.00	48.10	299.72	—	—	—	—	—	—	—
	03/17/97		0.00	50.90	296.92	1,100	—	180	21	42	56	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	—	0.78	2.0	ND	2.0	1.4
	05/17/96		0.00	48.90	299.02	52	—	2.8	0.5	ND	ND	3.6
	08/12/96		0.00	43.71	304.21	ND	—	0.87	ND	ND	ND	ND
	11/08/96		—	—	—	110	—	28	3.3	1.2	4.5	ND
	02/12/97		0.00	48.82	299.10	—	—	—	—	—	—	—
	03/17/97		0.00	51.61	296.31	ND	—	ND	ND	ND	ND	ND
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	—	—	—	—	—	—	—

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-4	05/04/95		—	—	—	2,900	—	330	130	120	410	—
(con't)	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
	05/17/96		0.00	36.58	311.71	160	—	7.7	2.3	26	1.4	ND
	08/12/96		0.00	38.96	309.33	ND	—	ND	ND	ND	ND	ND
	11/08/96		—	—	—	ND	—	ND	ND	ND	ND	ND
	02/12/97		0.00	34.95	313.34	—	—	—	—	—	—	—
	03/17/97		0.00	37.75	310.54	ND	—	ND	ND	ND	ND	ND
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	—	—	—	—	—	—	—

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#	11/10/95		0.00	40.97	309.81	—	—	—	—	—	—	—
(con't)	02/12/96		0.00	37.58	313.20	—	—	—	—	—	—	—
	08/19/96		0.00	39.01	311.77	—	—	—	—	—	—	—
	02/12/97		0.00	36.25	314.53	—	—	—	—	—	—	—
MW-2#	12/16/92	349.83	—	—	—	1,600	—	28	ND	5.1	5.6	—
	02/02/93		0.00	39.18	310.65	—	—	—	—	—	—	—
	03/01/93		0.00	34.33	315.50	—	—	—	—	—	—	—
	04/14/93		0.00	37.56	312.27	4,300	—	7.2	5.8	13	10	—
	05/14/93		0.00	37.49	312.34	—	—	—	—	—	—	—
	06/15/93		0.00	39.34	310.49	—	—	—	—	—	—	—
	07/06/93		0.00	37.82	312.01	4,700	—	17	15	30	28	—
	11/30/93	349.51	—	—	—	—	—	—	—	—	—	—
	01/27/94		0.00	43.15	306.36	1,500	—	28	9.0	ND	20	—
	04/25/94		0.00	41.90	307.61	1,100	—	19	1.7	2.5	8.8	—
	07/08/94		0.00	42.75	306.76	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
	08/19/96		0.00	40.39	309.12	—	—	—	—	—	—	—
	02/12/97		0.00	36.37	313.14	—	—	—	—	—	—	—
MW-3#	12/16/92	351.35	—	—	—	ND	—	ND	ND	ND	ND	—
	02/02/93		0.00	40.62	310.73	—	—	—	—	—	—	—

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#	03/01/93		0.00	35.7	315.65	—	—	—	—	—	—	—
(con't)	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	—	—	—	—	—	—	—
	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	—	—	—	—	—	—	—
	08/19/96		0.00	41.80	309.24	—	—	—	—	—	—	—
	02/12/97		0.00	37.74	313.30	—	—	—	—	—	—	—
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	—

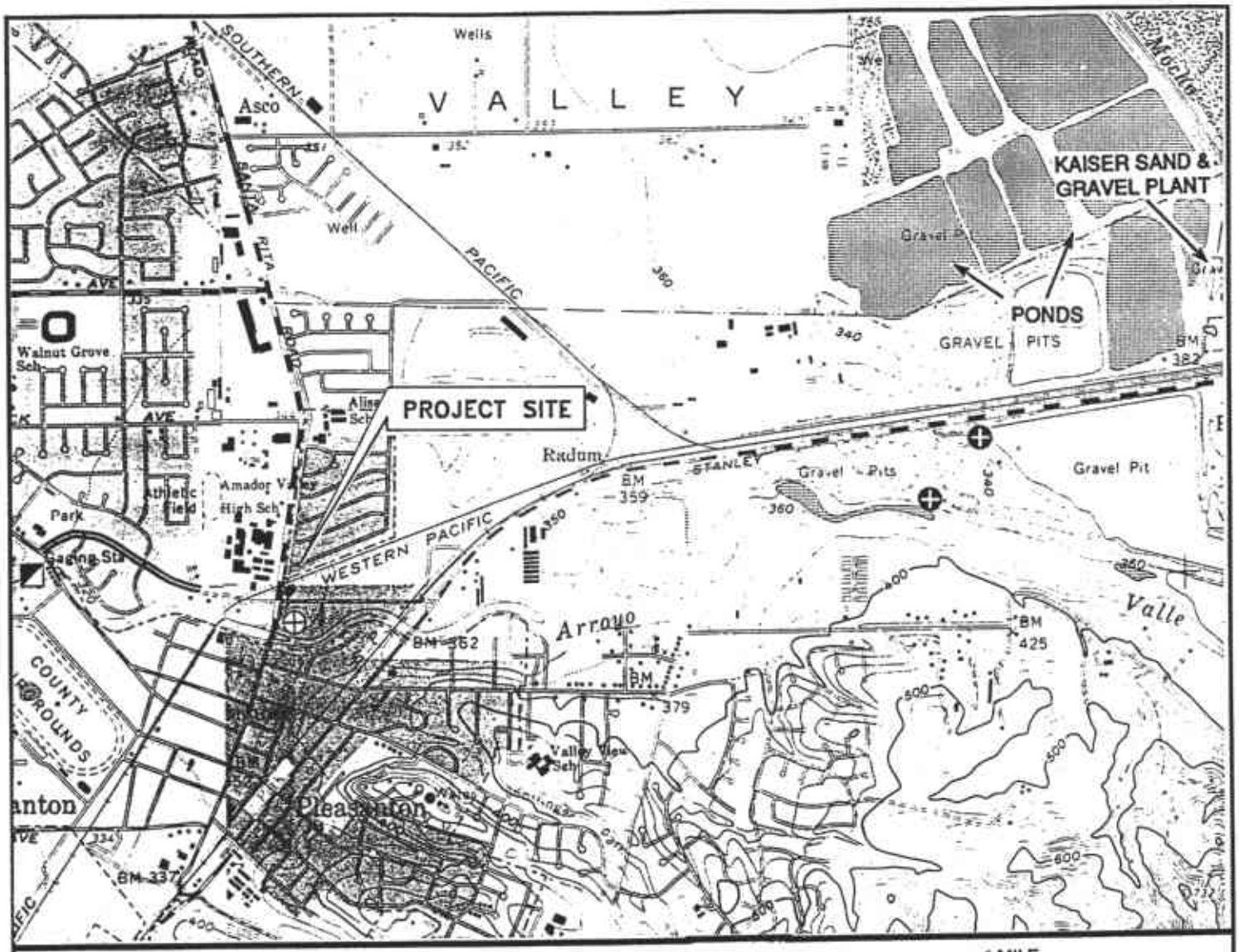
Groundwater Levels and Chemical Analysis

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#	08/19/96		0.00	39.08	311.06	—	—	—	—	—	—	—
(con't)	02/12/97		0.00	35.51	314.63	—	—	—	—	—	—	—
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	—
	05/03/95		0.00	36.64	312.69	580	—	6.9	1.5	1.6	1.7	—
	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	—	8.2	2.1	1.7	1.2	—
	08/19/96		0.00	39.90	309.43	—	—	—	—	—	—	—
	02/12/97		0.00	35.93	313.40	—	—	—	—	—	—	—

NOTES:

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



1 MILE 3/4 1/2 1/4 0 1 MILE

SCALE 1:24,000

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

LEGEND

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

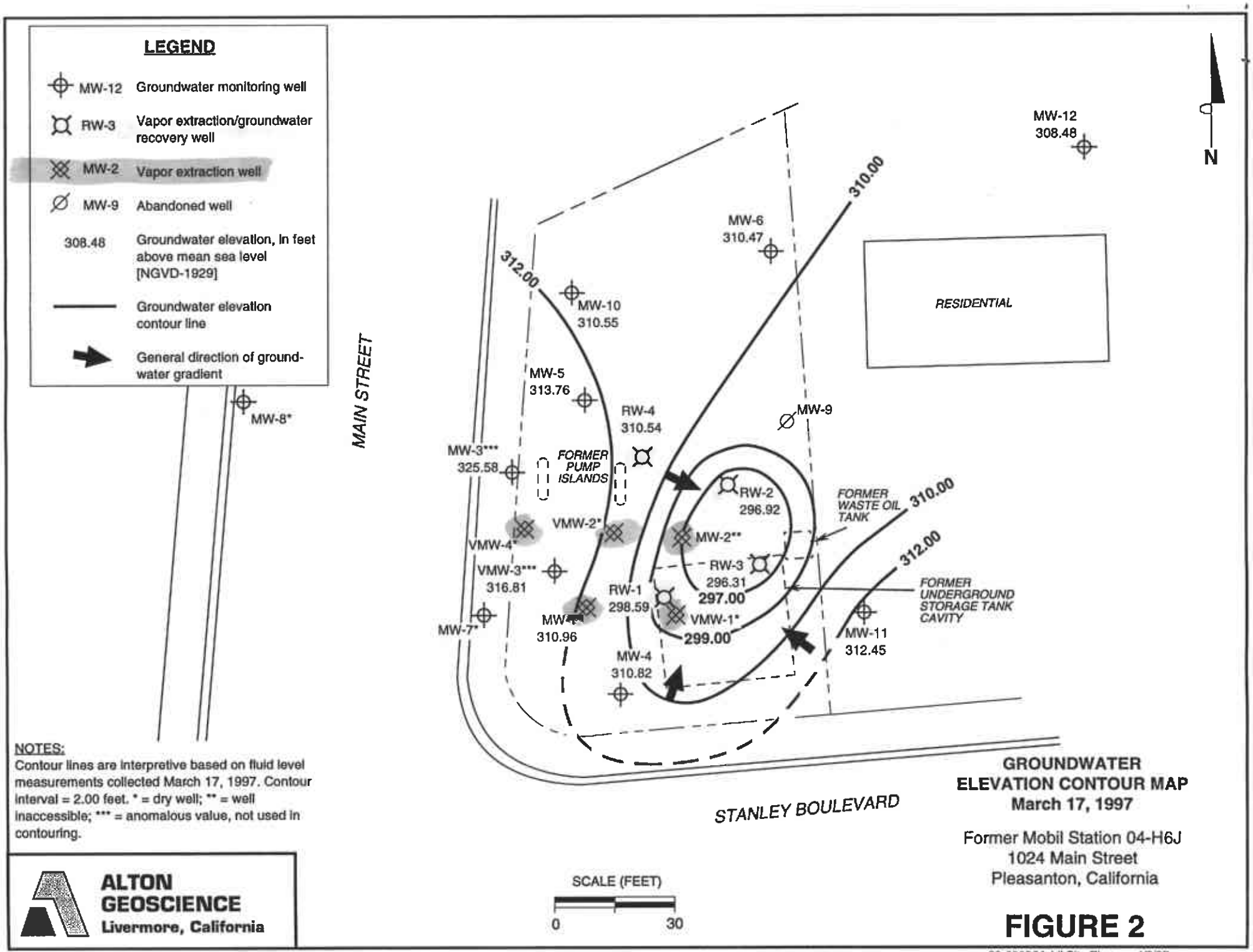
VICINITY MAP

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

ALTON GEOSCIENCE
Livermore, California

Project No. 30-0065

FIGURE 1



NOTES:
Contour lines are interpretive based on fluid level measurements collected March 17, 1997. Contour interval = 2.00 feet. * = dry well; ** = well inaccessible; *** = anomalous value, not used in contouring.

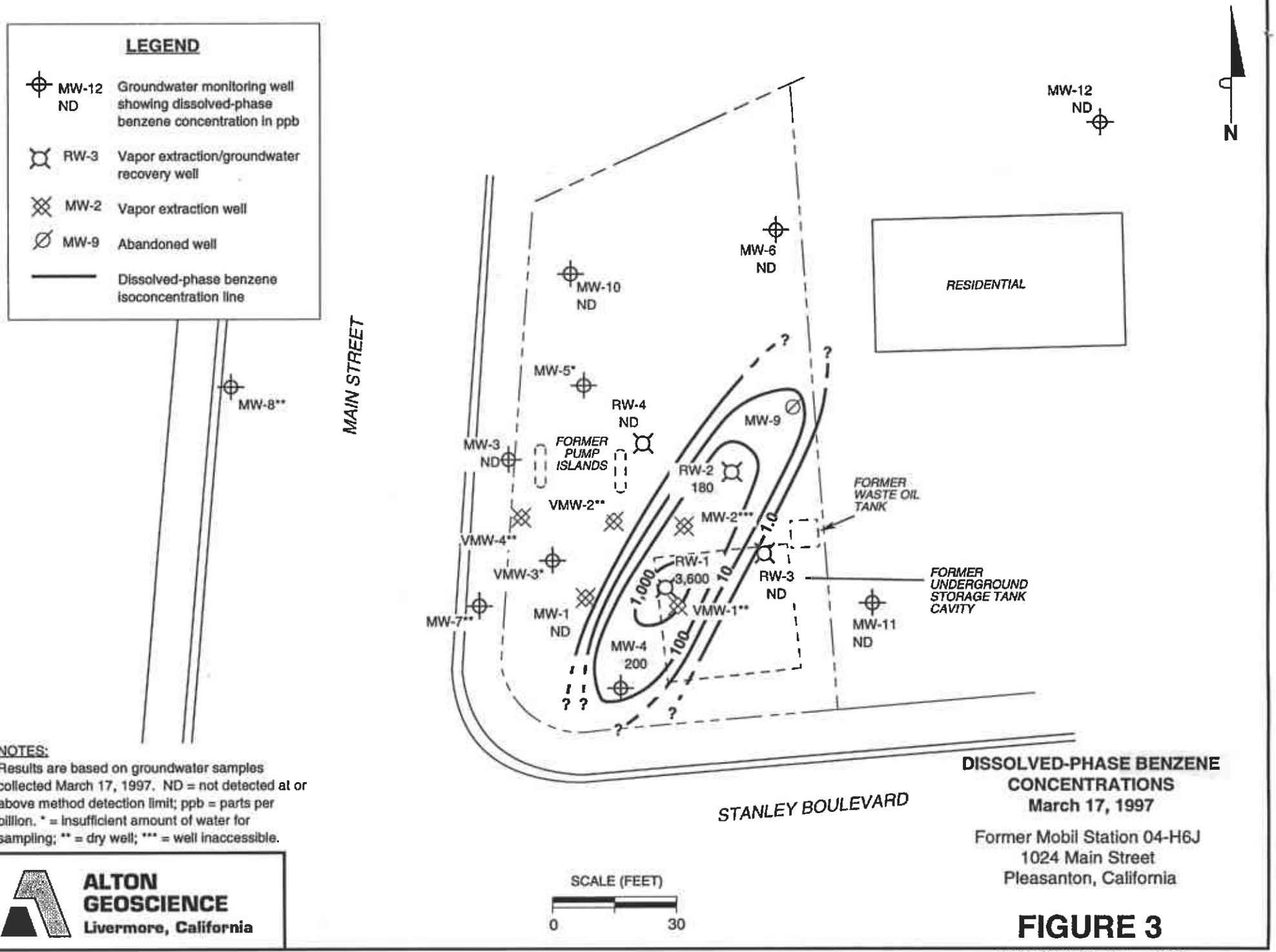
ALTON GEOSCIENCE
Livermore, California

GROUNDWATER ELEVATION CONTOUR MAP
March 17, 1997

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

FIGURE 2

30-0065/Mobil Site Plan 4/8/97



NOTES:
Results are based on groundwater samples collected March 17, 1997. ND = not detected at or above method detection limit; ppb = parts per billion. * = insufficient amount of water for sampling; ** = dry well; *** = well inaccessible.

ALTON GEOSCIENCE
Livermore, California

DISSOLVED-PHASE BENZENE CONCENTRATIONS
March 17, 1997

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

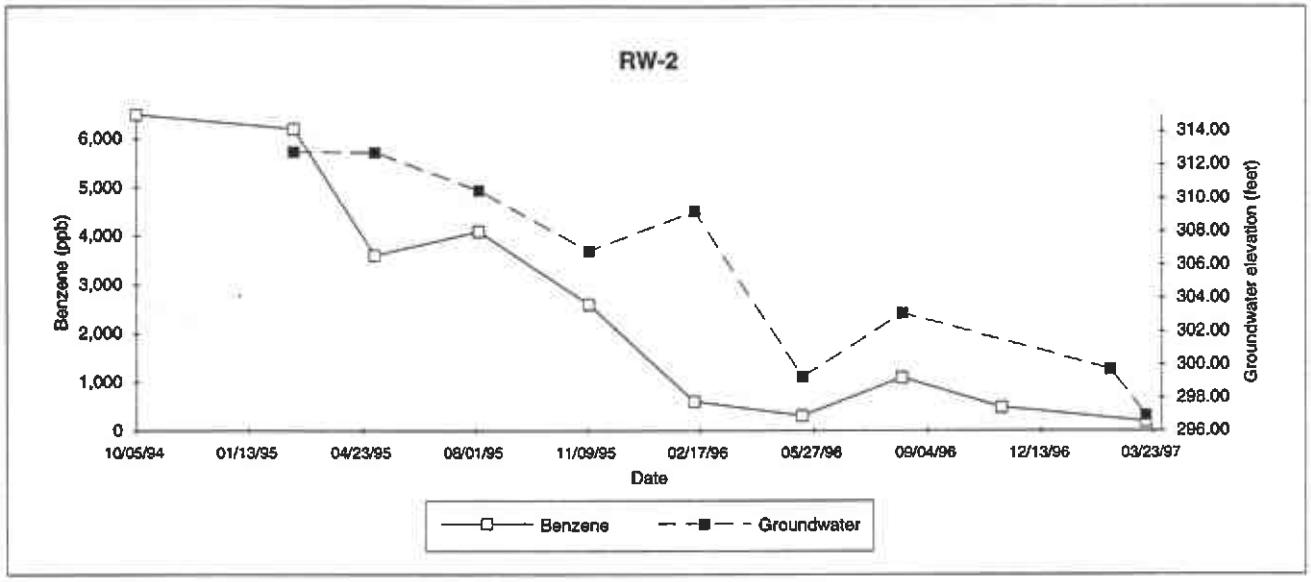
FIGURE 3

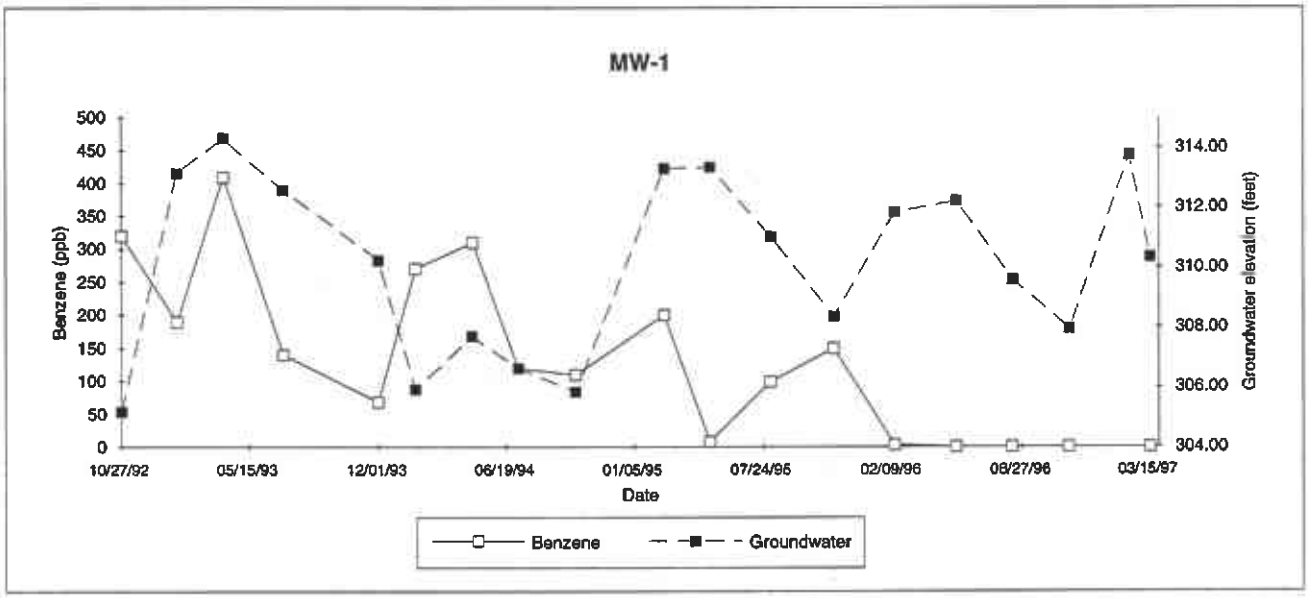
30-0065/Mobil Site Plan 4/8/97

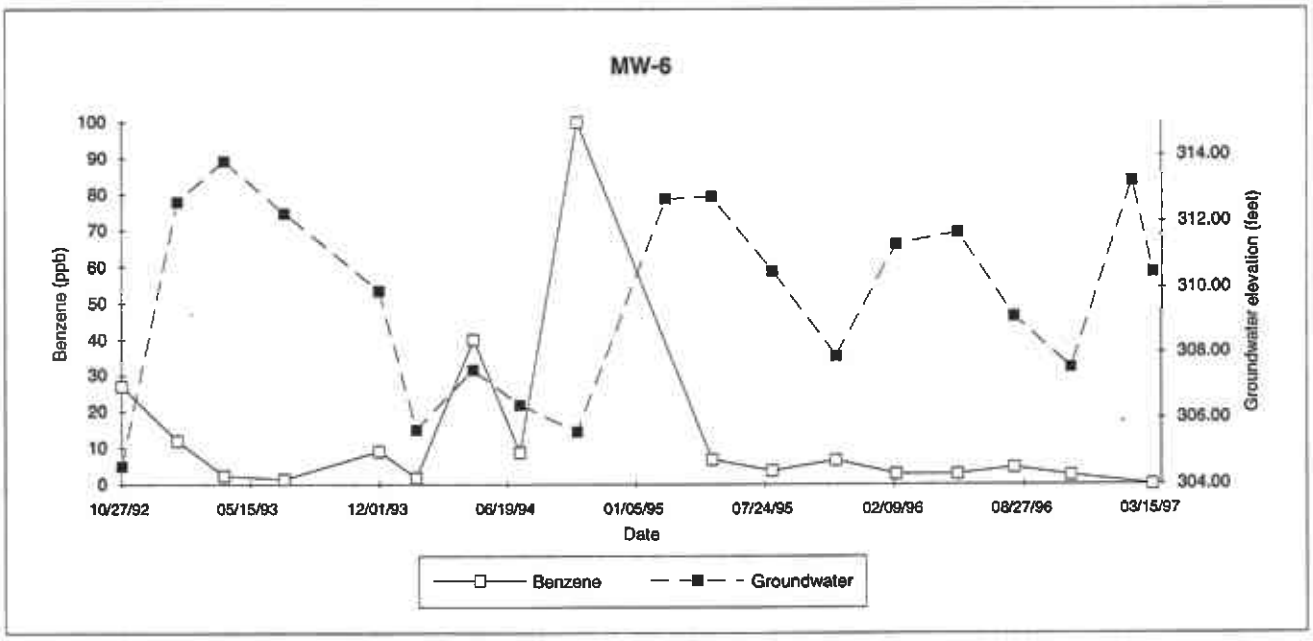
EXHIBIT 4

BENZENE VERSUS GROUNDWATER ELEVATION GRAPHS

Benzene vs. Groundwater Elevation Graphs







Note: ND values are plotted as zero

EXHIBIT 5

VAPOR EXTRACTION SYSTEM PERFORMANCE TABLES AND GRAPHS

Vapor Extraction System Monitoring

Former Mobil Station # 04-H6J

Date	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. Total Well + Air Stripper (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)	Cummulative HC Recovery (gallons)	Destruction Efficiency TPH-G (%)
(m/d/yy)								Field	Lab	Field	Lab	Lab						
4/4/95	11	0	0%	175	57	600	10,480	10,480	11,000	0	<1.2	0.030	0.0609	0.0008	809	0	0	100.0
4/12/95	202	191	99%	324	96	601	5,100	5,100		0					850	986	986	
4/22/95	440	238	99%	314	96	599	2,400	2,400		0					764	756	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	98	601	1,800	760		0					885	102	2,046	
5/12/95	768	167	99%	678	100	601	960	460	350	0	<2.3	<0.031	0.8006	0.0060	742	152	2,197	99.3
5/18/95	936	168	100%	678	100	601	1,010	310		0					701	118	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	0.0034	658	50	2,481	99.6
6/16/95	1607	192	100%	545	100	600	400	190		0					648	47	2,527	
6/23/95	1664	57	34%	540	98	601	320	180		0					647	15	2,542	
6/28/95	1695	31	26%	545	94	600	320	350		0					641	12	2,554	
7/7/95	1907	212	96%	545	90	601	320	140		0					635	75	2,629	
7/13/95	2065	148	103%	432	88	606	300	150		0					611	28	2,657	
7/18/95	2106	81	43%	471	74	598	650	230	320	0	2.1	0.044	0.3810	0.0069	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	88	NA	430	260		0					NA	37	2,757	
8/18/95	2440	34	20%	353	66	NA	480	240		0					NA	10	2,767	
8/28/95	2494	54	23%	432	82	600	730	290	370	0	<2.6	<0.016	0.4326	0.0020	679	16	2,783	99.3
9/1/95	2520	26	27%	441	89	629	190	300		0					678	9	2,791	
9/6/95	2624	4	3%	548	78	600	660	420	290	0	<2.3	0.029	0.4828	0.0045	693	2	2,793	99.2
9/14/95	2528	4	3%	354	54	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	115	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	0.2870	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	2838	41	24%	383	82	600	3,360	390	300	0	<2.3	<0.016	0.3482	0.0018	654	13	2,890	99.2
11/20/95	2910	71	99%	700	88	600	2,100	140		0					601	27	2,917	
11/27/95	3045	135	80%	700	88	587	830	100		0					603	30	2,948	
12/4/95	3213	168	100%	548	88	603	2,200	260	230	0	<2.3	<0.016	0.4828	0.0025	643	50	2,998	99.0
12/14/95	3383	170	71%	700	92	601	1,650	290		0					612	77	3,075	
12/21/95	3551	168	100%	700	94	600	1,150	150		0					608	69	3,144	
12/28/95	3656	105	55%	700	90	598	890	140		0					606	28	3,172	
1/5/96	3826	170	101%	692	91	587	830	220		0					600	57	3,228	
1/8/96	3897	71	99%	381	105	600	1,120	340	210	0	<2.3	<0.016	0.3188	0.0017	638	28	3,256	99.5
1/18/96	4132	235	98%	383	107	600	950	280		0					643	73	3,329	
2/2/96	4484	352	99%	353	105	600	720	220		0					630	87	3,416	
2/7/96	4602	118	98%	353	105	599	560	120	130	0	<2.3	0.024	0.3127	0.0016	613	19	3,435	99.2
2/12/96	4724	122	102%	353	105	600	830	160		0					602	16	3,451	
2/22/96	4985	241	100%	353	107	601	330	60		0					602	27	3,478	
2/29/96	5138	171	102%	353	105	598	450	110		0					601	15	3,493	
3/8/96	5281	145	101%	545	105	595	90	10	55	0	<2.3	<0.016	0.4828	0.0025	600	10	3,504	95.9
3/22/96	5662	381	99%	545	105	590	70	30		0					602	11	3,515	
4/8/96	5679	17	4%	545	90	577	190	90		0					600	1	3,516	
5/2/96	5842	263	46%	160	96	600	140	30		0					607	15	3,531	
5/14/96	6159	217	75%	272	95	581	130	60	180	0	18	0.038	0.2410	0.0012	602	6	3,537	96.7
5/27/96	6430	271	87%	254	90	598	140	90		0					601	10	3,547	
6/14/96	6506	78	18%	286	90	592	220	110	130	0	5.4	0.019	0.2534	0.0013	604	4	3,552	98.2
6/25/96	6521	13	5%	282	90	601	170	130		0					606	1	3,553	
7/8/96	6598	77	25%	147	90	599	140	110	166	0	<2.4	<0.016	0.1302	0.0007	601	5	3,558	96.6
7/25/96	6604	6	1%	221	92	599	210	50		0					615	0	3,558	
8/6/96	6607	3	1%	258	90	600	240	230		5					621	0	3,558	
8/12/96	6613	6	4%	241	92	600	250	190	176	20	<2.4	<0.016	0.2135	0.0011	621	1	3,559	98.7
8/27/96	6617	4	1%	260	88	599	230	220		0					616	1	3,560	
12/6/96	6818	201	8%	331	60	639	350	100	83	0	<2.4	<0.016	0.2932	0.0015	651	29	3,589	97.2
12/12/96	6906	88	61%	331	60	632	300	120		0					649	9	3,594	
12/23/96	7176	270	102%	331	60	633	300	70		0					649	23	3,616	
1/3/97	7321	145	55%	331	73	601	200	130		0					601	13	3,629	
1/7/97	7420	99	103%	331	72	601	120	90		0					601	10	3,638	
1/15/97	7611	191	99%	285	88	599	100	30	33	0	<2.4	<0.016	0.2525	0.0013	599	8	3,646	92.8
1/24/97	7739	128	59%	299	80	598	110	10		0					598	2	3,650	
2/7/97	7875	136	40%	285	90	600	100	30		0					600	2	3,652	
2/19/97	8148	273	95%	273	85	600	130	30		0					600	6	3,658	
3/4/97	8457	309	99%	273	85	602	130	30		0					602	7	3,665	
3/12/97	8565	108	56%	273	85	600	130	30		0					600	2	3,667	
Total to Date =	8554		50%	= Average % Operation														

current period

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 6.26 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

p:\mobil\04-H6J\04h6r33.xls

Inlet TPH-G and Total Hydrocarbons Removed vs. Operating Time

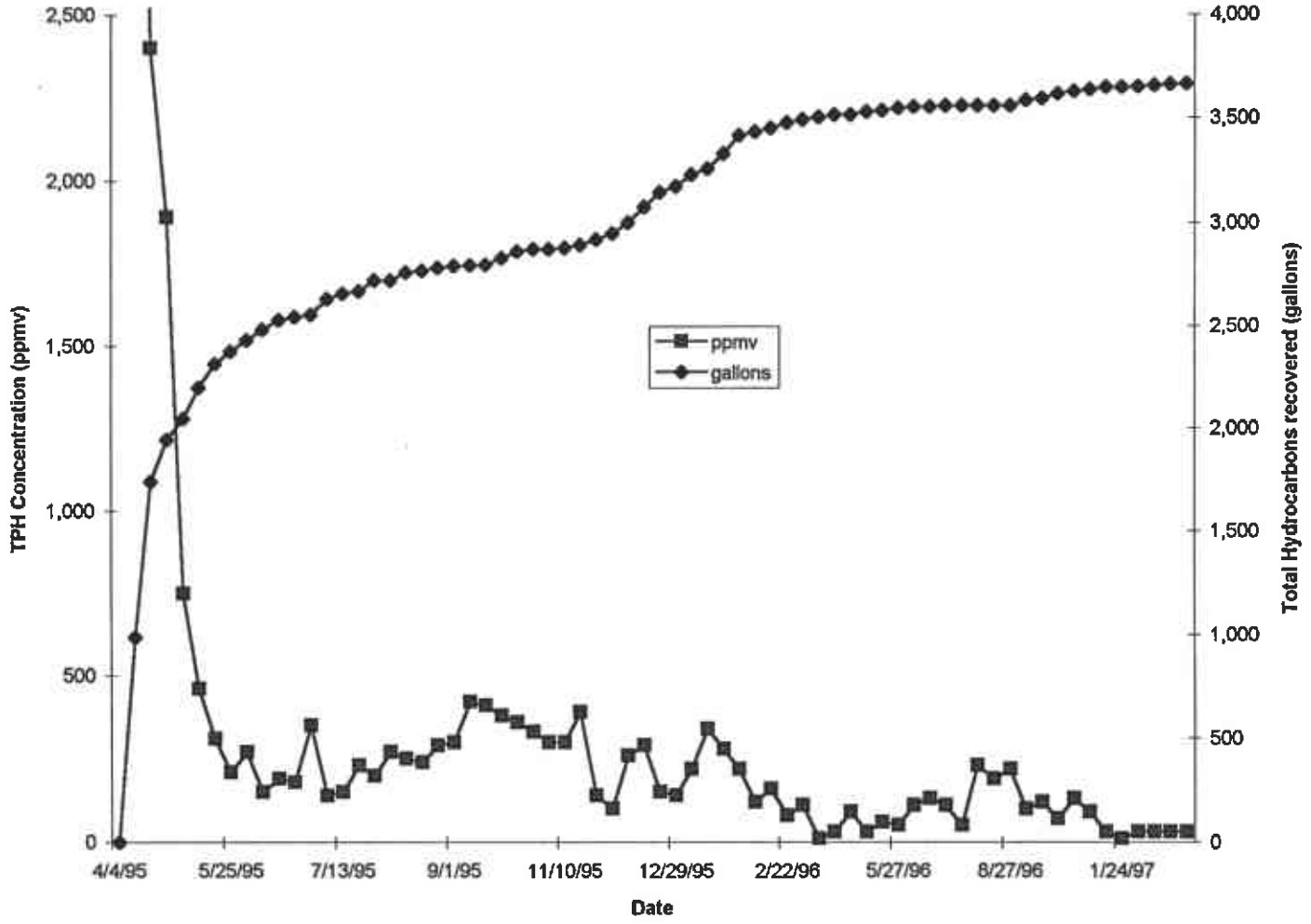


EXHIBIT 6

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
	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	—	—	—	—	—	—

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	12/04/95	1,400,780	105,330	15,047	1,400,140	2,300	380	290	510	27	230
(con't)	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	2,050,560	25,000	3,400	5,400	5,400	360	3,500
	03/14/96	34,660	11,400	1,425	2,061,960	—	—	—	—	—	—
	03/22/96	46,300	11,640	1,455	2,073,600	—	—	—	—	—	—
	04/08/96	54,120	7,820	460	2,081,420	10,000	2,000	690	1,500	120	930
	05/02/96	54,840	720	30	2,082,140	—	—	—	—	—	—
	05/14/96	139,900	85,060	7,088	2,167,200	4,400	840	330	820	53	580
	05/28/96	251,390	111,490	7,964	2,278,690	—	—	—	—	—	—
	06/14/96	264,690	13,300	782	2,291,990	1,200	330	170	16	51	120
	07/08/96	295,770	31,080	1,295	2,323,070	150	65	3.7	4.4	0.60	6.7
	07/25/96	298,890	3,120	184	2,326,190	—	—	—	—	—	—
	08/08/96	300,120	1,230	88	2,327,420	—	—	—	—	—	—
	08/12/96	302,120	2,000	500	2,329,420	890	190	110	190	14	120
	08/27/96	303,730	1,610	107	2,331,030	—	—	—	—	—	—
	09/13/96	311,780	8,050	474	2,339,080	—	—	—	—	—	—
	10/04/96	311,780	0	0	2,339,080	—	—	—	—	—	—
	11/08/96	311,780	0	0	2,339,080	—	—	—	—	—	—

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	12/02/96	311,780	0	0	2,339,080	—	—	—	—	—	—
(con't)	12/06/96	337,540	25,760	6,440	2,364,840	630	160	48	120	8.9	69
	01/07/97	512,070	174,530	5,454	2,539,370	2,800	310	210	540	35	330
	01/15/97	553,950	41,880	5,235	2,581,250	—	—	—	—	—	—
	01/24/97	594,490	40,540	4,504	2,621,790	—	—	—	—	—	—
	02/07/97	626,600	32,110	2,294	2,653,900	5,300	720	460	1,300	440	640
	02/19/97	687,340	60,740	5,062	2,714,640	—	—	—	—	—	—
	03/04/97	695,030	7,690	592	2,722,330	—	—	—	—	—	—
	03/12/97	705,530	10,500	1,313	2,732,830	3,700	740	380	1,000	61	560
	04/01/97	705,530	0	0	2,732,830	—	—	—	—	—	—
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
	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
	04/08/96	—	—	—	—	340	190	11	7.1	3.5	21
	05/14/96	—	—	—	—	630	330	13	31	3.8	29
	06/14/96		—	—	—	ND	79	ND	ND	ND	ND
	07/08/96	—	—	—	—	ND	ND	0.71	ND	ND	ND
	08/12/96	—	—	—	—	73	72	1.7	3.0	ND	27
	12/06/96	—	—	—	—	ND	ND	ND	1.4	ND	0.57

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	01/07/97	—	—	—	—	ND	ND	1.4	2.7	ND	2.3
(con't)	02/07/97	—	—	—	—	85	80	ND	1.3	ND	0.57
	03/12/97	—	—	—	—	100	170	3.3	5.5	0.63	4.4

Total Effluent Discharged to Date: **2,732,830** gallons

NOTES:

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

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 to the nearest 0.01 foot 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

Currently, 'pre-purge' and 'non-purge' methods of sampling both comply with regulatory standards.

NON-PURGE METHOD:

Alton Geoscience utilizes the 'non-purge' method of sampling for all qualifying groundwater monitoring wells. 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.

The following criteria necessary for a well to qualify for 'non-purge' sampling are taken from a letter issued by San Francisco Bay Regional Water Quality Control Board on January 31, 1997:

1. The non-purging approach shall be used only for monitoring wells where groundwater has been impacted by petroleum hydrocarbons, BTEX, and MTBE.

2. Non-purge sampling shall be utilized for unconfined aquifers only.

3. The monitoring well shall be properly permitted, constructed (in this case, screened across the water table), and developed.

4. The well is presently in use for groundwater or soil vapor extraction.

5. The well does not contain free product.

6. For new wells or wells brought into monitoring for the first time, the first round of groundwater sampling performed at a site shall be with both non-purged and purged samples. The purging and sampling method used shall be documented. This shall include the rate of purge and sampling details. For these wells we require measurements of dissolved oxygen, specific conductance, pH,

and temperature whether purged or not purged. Also, if biodegradation is being tracked at the well, our requirements do not preclude the measurement of other parameters.

7. Existing wells which have already been routinely purged in previous sampling events immediate to being switched to a non-purging mode do not require an initial duplicate non-purged and purged sample.

8. Monitoring data frequency shall be as required by the appropriate regulatory oversight agency.

9. Should site closure be requested where the non-purged approach has been used, the final confirmation sampling event shall include both non-purged and purged samples from each well or as agreed upon with the appropriate regulatory oversight agency.

PURGE METHOD:

Groundwater monitoring wells that do not qualify for the 'non-purge' method 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
Station No.: 04-HGT

Alton Personnel: CC
Date: 3-17-97

Well Number	Screen Interval	Depth to Water	Depth to Product	Free Product Thickness (ft)	Free Product Recovery	Total Depth	Comments
MW-3	12-35	22.39				33.01	
MW-5	14-34'	34.21				34.55	Insufficient H_2O for sa
MW-7	10-30'	Dry					
MW-8	5-25'	Dry					
VMW-1	13-35'	Dry					
VMW-2	13-35'	Dry					
VMW-3	15-32'	31.29				31.80	Insufficient H_2O for sampling Both Bolts Str
VMW-4	13-35'	Dry					
RW-1	25-55	49.30					
RW-2	24-54	50.90					
RW-3	[illegible]	51.61					
RW-4	21-51	37.75					
MW-10	25-55'	37.40				54.37	
MW-11	24-44'	35.11				45.05	
MW-12	25-55'	38.67				54.70	
MW-6	35-53'	37.76				54.09	
MW-1	35-55'	37.07				50.59	
MW-4	29-48'	37.25				48.96	1 Bolt Stripped
* MW-2	30-55'					48.86	

Alton Geoscience, Northern California Operations

GROUND WATER SAMPLING FIELD NOTES

Site: 94-HGJ Project No.: 41-0063 Sampled By: CC Date: 3-17-97

Well No. MW-4 **Purge Method:** NO
Total Depth (feet)_____ Depth to Product (feet):_____
Depth to Water (feet):_____ Product Recovered (gallons):_____
Water Column (feet):_____ Casing Diameter (inches):_____
80% Recharge Depth (feet):_____ 1 Well Volume (gallons):_____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		11:05

Comments:
Turbidity =

Well No. MW-1 **Purge Method:** NO
Total Depth (feet)_____ Depth to Product (feet):_____
Depth to Water (feet):_____ Product Recovered (gallons):_____
Water Column (feet):_____ Casing Diameter (inches):_____
80% Recharge Depth (feet):_____ 1 Well Volume (gallons):_____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		11:10

Comments:
Turbidity =

Well No. MW-3 **Purge Method:** NO
Total Depth (feet)_____ Depth to Product (feet):_____
Depth to Water (feet):_____ Product Recovered (gallons):_____
Water Column (feet):_____ Casing Diameter (inches):_____
80% Recharge Depth (feet):_____ 1 Well Volume (gallons):_____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		11:20

Comments:
Turbidity =

Well No. MW-10 **Purge Method:** NO
Total Depth (feet)_____ Depth to Product (feet):_____
Depth to Water (feet):_____ Product Recovered (gallons):_____
Water Column (feet):_____ Casing Diameter (inches):_____
80% Recharge Depth (feet):_____ 1 Well Volume (gallons):_____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		11:30

Comments:
Turbidity =

Well No. RW-1 **Purge Method:** NO
Total Depth (feet)_____ Depth to Product (feet):_____
Depth to Water (feet):_____ Product Recovered (gallons):_____
Water Column (feet):_____ Casing Diameter (inches):_____
80% Recharge Depth (feet):_____ 1 Well Volume (gallons):_____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		12:00

Comments:
Turbidity =

Well No. RW-2 **Purge Method:** NO
Total Depth (feet)_____ Depth to Product (feet):_____
Depth to Water (feet):_____ Product Recovered (gallons):_____
Water Column (feet):_____ Casing Diameter (inches):_____
80% Recharge Depth (feet):_____ 1 Well Volume (gallons):_____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		12:10

Comments:
Turbidity =

Alton Geoscience, Northern California Operations

GROUND WATER SAMPLING FIELD NOTES

Site: 04-HGT Project No.: 41-0063 Sampled By: CC Date: 3-17-97

Well No. RW-3 **Purge Method:** NO
Total Depth (feet)____ Depth to Product (feet):____
Depth to Water (feet):____ Product Recovered (gallons):____
Water Column (feet):____ Casing Diameter (inches):____
80% Recharge Depth (feet):____ 1 Well Volume (gallons):____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		12:20

Comments:
Turbidity =

Well No. RW-4 **Purge Method:** NO
Total Depth (feet)____ Depth to Product (feet):____
Depth to Water (feet):____ Product Recovered (gallons):____
Water Column (feet):____ Casing Diameter (inches):____
80% Recharge Depth (feet):____ 1 Well Volume (gallons):____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		12:30

Comments:
Turbidity =

Well No. MW-6 **Purge Method:** NO
Total Depth (feet)____ Depth to Product (feet):____
Depth to Water (feet):____ Product Recovered (gallons):____
Water Column (feet):____ Casing Diameter (inches):____
80% Recharge Depth (feet):____ 1 Well Volume (gallons):____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		12:40

Comments:
Turbidity =

Well No. MW-11 **Purge Method:** NO
Total Depth (feet)____ Depth to Product (feet):____
Depth to Water (feet):____ Product Recovered (gallons):____
Water Column (feet):____ Casing Diameter (inches):____
80% Recharge Depth (feet):____ 1 Well Volume (gallons):____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		12:50

Comments:
Turbidity =

Well No. MW-12 **Purge Method:** NO
Total Depth (feet)____ Depth to Product (feet):____
Depth to Water (feet):____ Product Recovered (gallons):____
Water Column (feet):____ Casing Diameter (inches):____
80% Recharge Depth (feet):____ 1 Well Volume (gallons):____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		13:00

Comments:
Turbidity =

Well No.____ **Purge Method:**____
Total Depth (feet)____ Depth to Product (feet):____
Depth to Water (feet):____ Product Recovered (gallons):____
Water Column (feet):____ Casing Diameter (inches):____
80% Recharge Depth (feet):____ 1 Well Volume (gallons):____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		

Comments:
Turbidity =

MONITORING PURGING DISPOSING SAMPLING mpds SERVICES, INCORPORATED

Date: 3/7/1997

Transmittal Page

TO: Jake Madden

ALTON GEOSCIENCE Fax (510) 606 - 9260

FROM: Gary Tejirian

Number of Pages (Including Cover): Two

SUBJECT: Unocal 0543, 992 Main Street, Pleasanton

Attached is the water level data for the joint monitoring event of February 12, 1997, at the above referenced site.

Please send us the water level data for the MOBIL 04 - H6J site at 922 Main Street, Pleasanton, as soon as possible.

If you have not been to this site on February 12, 1997, please inform me as soon as you can.

Thank you
Gary.

Should any problems occur in receiving, please call the number listed below.

2401 Stanwell Drive, Suite 400, Concord, CA 94520
TEL: (510) 602-5120 FAX: (510) 689-1918

Unocal #0543
992 Main Street.
Pleasanton, CA

Today's Date : March 7, 1997

Table 1
Summary of Monitoring Data

Well	Depth to Water (Feet)	Total Depth (Feet)	Product Thickness (Feet)
(Monitored and Sampled on February 12, 1997)			
MW1	36.25	50.60	0
MW2	36.37	50.28	0
MW3	37.74	50.15	0
MW4	35.51	49.92	0
MW5	35.93	50.09	0

- The depth to water level and total well depth measurements were taken from the top of the well casings.

Note: The elevations of the top of the well casings are surveyed relative to Mean Sea Level (MSL).

EXHIBIT 9

ANALYTICAL LABORATORY DATA SHEETS

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Mar 17, 1997
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Mar 17, 1997
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 27, 1997
Attention: Ron Scheele	First Sample #:	703-1074	

QC Batch Number:	GC031997 802002A	GC031897 802002A	GC031897 802002A	GC031897 802002A	GC031897 802002A	GC031897 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 703-1074 MW-4	Sample I.D. 703-1075 MW-1	Sample I.D. 703-1076 MW-3	Sample I.D. 703-1077 MW-10	Sample I.D. 703-1078 RW-1	Sample I.D. 703-1079 RW-2
Purgeable Hydrocarbons	50	2,100	N.D.	N.D.	N.D.	38,000	1,100
Benzene	0.50	200	N.D.	N.D.	N.D.	3,600	180
Toluene	0.50	40	N.D.	N.D.	N.D.	12,000	21
Ethyl Benzene	0.50	54	N.D.	N.D.	N.D.	710	42
Total Xylenes	0.50	74	N.D.	N.D.	N.D.	7,400	56
MTBE:	0.60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		Gasoline	--	--	--	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	20	1.0	1.0	1.0	100	10
Date Analyzed:	3/19/97	3/18/97	3/18/97	3/18/97	3/18/97	3/18/97
Instrument Identification:	HP-2	HP-2	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	93	87	86	87	91	94

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

Jim Bava
Project Manager

Sequoia Analytical

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

Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Mar 17, 1997
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Mar 17, 1997
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 27, 1997
Attention: Ron Scheele	First Sample #:	703-1080	

QC Batch Number:	GC031997	GC031997	GC031997	GC032097	GC032097
	802002A	802002A	802002A	802004A	802004A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 703-1080 RW-3	Sample I.D. 703-1081 RW-4	Sample I.D. 703-1082 MW-6	Sample I.D. 703-1083 MW-11	Sample I.D. 703-1084 MW-12
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	N.D.	N.D.
Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
MTBE:	0.60	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		--	--	--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	3/19/97	3/19/97	3/19/97	3/20/97	3/20/97
Instrument Identification:	HP-2	HP-2	HP-2	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	88	89	89	95	95

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

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Sequoia Analytical

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

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

QC Sample Group: 7031074-084

Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031897	GC031897	GC031897	GC031897
	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:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	7030917	7030917	7030917	7030917
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/18/97	3/18/97	3/18/97	3/18/97
Analyzed Date:	3/18/97	3/18/97	3/18/97	3/18/97
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:	17	21	21	60
MS % Recovery:	85	105	105	100
Dup. Result:	17	21	20	60
MSD % Recov.:	85	105	100	100
RPD:	0.0	0.0	4.9	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	2LCS031897	2LCS031897	2LCS031897	2LCS031897
Prepared Date:	3/18/97	3/18/97	3/18/97	3/18/97
Analyzed Date:	3/18/97	3/18/97	3/18/97	3/18/97
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:	17	22	21	63
LCS % Recov.:	85	110	105	105

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

SEQUOIA ANALYTICAL, #1271

Jim Bava
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

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

Client Project ID: Mobil #04-H6J
Matrix: Liquid
QC Sample Group: 7031074-084
Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031997	GC031997	GC031997	GC031997
	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:	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	7031188	7031188	7031188	7031188
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/19/97	3/19/97	3/19/97	3/19/97
Analyzed Date:	3/19/97	3/19/97	3/19/97	3/19/97
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:	13	16	14	43
MS % Recovery:	65	80	70	72
Dup. Result:	13	16	15	43
MSD % Recov.:	65	80	75	72
RPD:	0.0	0.0	6.9	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	2LCS031997	2LCS031997	2LCS031997	2LCS031997
Prepared Date:	3/19/97	3/19/97	3/19/97	3/19/97
Analyzed Date:	3/19/97	3/19/97	3/19/97	3/19/97
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:	14	16	15	43
LCS % Recov.:	70	80	75	72

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

SEQUOIA ANALYTICAL, #1271

Jim Bava
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

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

Client Project ID: Mobil #04-H6J
Matrix: Liquid
QC Sample Group: 7031074-084
Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC032097	GC032097	GC032097	GC032097
	802004A	802004A	802004A	802004A
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 #:	7031084	7031084	7031084	7031084
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/20/97	3/20/97	3/20/97	3/20/97
Analyzed Date:	3/20/97	3/20/97	3/20/97	3/20/97
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:	17	17	16	50
MS % Recovery:	85	85	80	83
Dup. Result:	17	17	16	50
MSD % Recov.:	85	85	80	83
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	4LCS032097	4LCS032097	4LCS032097	4LCS032097
Prepared Date:	3/20/97	3/20/97	3/20/97	3/20/97
Analyzed Date:	3/20/97	3/20/97	3/20/97	3/20/97
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:	16	16	15	47
LCS % Recov.:	80	80	75	78

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

SEQUOIA ANALYTICAL, #1271

Jim Bava
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
☒ 404 North Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Mobil Oil Consulting Firm: Alton Geoscience
Address: 30 A Lindbergh Ave
City: Livermore State: CA Zip: 94550
Tel: (510) 606-9150 Fax.: (510) 606-9260

Station No./Site Address: 04-HGJ 97033300
Project Contact: Ron Scheele
Mobil Oil Engineer:
Sampler(s) (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 ☐ Diesel ☐	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead Total ☐	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	MTBE
MW-4	H_2O	3/17	11:00	HCl	3	Voa		X						7031074			AE				X
MW-1			11:10					X						7031075							X
MW-3			11:20					X						7031076							X
MW-10			11:30					X						7031077							X
RW-1			12:00					X						7031078							X
RW-2			12:10					X						7031079							X
RW-3			12:20					X						7031080							X
RW-4			12:30					X						7031081							X
MW-6			12:40					X						7031082							X

CODING (check one)

- Code 1 ☐ Emergency Response
- Code 2 ☐ Site Assessment
- Code 3 ☐ Remediation (Plan Devlpmt.)
- Code 4 ☐ Active Remed. (Install./Start-up)
- Code 5 ☒ Active Remed. (O & M)
- Code 6 ☐ Passive Remed/ Monitoring
- Code 7 ☐ Closure
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Relinquished by:	Date/Time: 3/17/97 15:50	Received by:	Date/Time: 3/17/97 1550
Relinquished by:	Date/Time: 3/18/97 1130	Received by:	Date/Time: 3-18. 1130
Relinquished by:	Date/Time: 3-18	Received in Lab by:	Date/Time: 3/18/97 1250

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

Sample Integrity:
Intact ___ On Ice ___

Remarks: X Run Highest Concentration for 8260 Confirmation

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

☐ 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
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☒ 404 North Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Mobil Oil Consulting Firm: AHon Geoscience	Station No./Site Address: 04-HGT 97033300
Address: 30 A Lindbergh Ave	Project Contact: Ron Scheele
City: Livermore State: CA Zip: 94550	Mobil Oil Engineer:
Tel: (510) 606-9150 Fax.: (510) 606-9260	Sampler(s) (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 ☐ Diesel ☐	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead Total ☐	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	7 MTBE
MW-11	H2O	3/17	12:50	HCl	3	Voa		X							7031083			A2			X
MW-12	1	1	13:00	1	1	1		X							7031084			1			X

CODING (check one)

- Code 1 ☐ Emergency Response
- Code 2 ☐ Site Assessment
- Code 3 ☐ Remediation (Plan Devlpmt.)
- Code 4 ☐ Active Remed. (Install./Start-up)
- Code 5 ☒ Active Remed. (O & M)
- Code 6 ☐ Passive Remed/ Monitoring
- Code 7 ☐ Closure
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Relinquished by:	Date/Time: 3/17/97 15:50	Received by:	Date/Time: 3/17/97 1550
Relinquished by:	Date/Time: 3/17/97 1130	Received by:	Date/Time: 3-17 1130
Relinquished by:	Date/Time: 3-18	Received by Lab:	Date/Time: 3/18/97 1250

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

Sample Integrity: Intact ___ On Ice ___

Remarks: X Run Highest Concentration for 8260 Confirmation

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Jan 15, 1997
30-A Lindbergh Ave.	Sample Matrix:	Air	Received: Jan 16, 1997
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jan 20, 1997
Attention: Ron Scheele	First Sample #:	701-0731	

QC Batch Number: GC011797 802002A | GC011797 802002A | GC011797 802002A | GC011797 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 701-0731 I-1	Sample I.D. 701-0732 I-2	Sample I.D. 701-0733 I-3	Sample I.D. 701-0734 E-1
Purgeable Hydrocarbons	10	600	30	130	N.D.
Benzene	0.050	7.3	1.6	0.51	N.D.
Toluene	0.050	16	5.8	4.2	0.22
Ethyl Benzene	0.050	4.3	0.34	0.72	N.D.
Total Xylenes	0.050	52	3.0	11	0.059
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	10	2.0	1.0	1.0
Date Analyzed:	1/17/97	1/17/97	1/17/97	1/17/97
Instrument Identification:	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	100	84	116	83

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

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

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Sequoia Analytical

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

Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Jan 15, 1997
30-A Lindbergh Ave.	Sample Matrix:	Air	Received: Jan 16, 1997
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jan 20, 1997
Attention: Ron Scheele	First Sample #:	701-0731	

QC Batch Number: GC011797 802002A | GC011797 802002A | GC011797 802002A | GC011797 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit ppmv	Sample I.D. 701-0731 I-1	Sample I.D. 701-0732 I-2	Sample I.D. 701-0733 I-3	Sample I.D. 701-0734 E-1
Purgeable Hydrocarbons	2.4	147	73	32	N.D.
Benzene	0.016	2.3	0.50	0.16	N.D.
Toluene	0.013	4.2	1.5	1.1	0.060
Ethyl Benzene	0.012	0.99	0.080	0.17	N.D.
Total Xylenes	0.012	12	0.69	2.5	0.010
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	10	2.0	1.0	1.0
Date Analyzed:	1/17/97	1/17/97	1/17/97	1/17/97
Instrument Identification:	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	100	84	116	83

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

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

Sequoia Analytical

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

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

Client Project ID: Mobil #04-H6J
Matrix: Vapor
QC Sample Group: 7010731-734

Reported: Jan 20, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC011797 802002A	GC011797 802002A	GC011797 802002A	GC011797 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 #:	100NGBTEX	100NGBTEX	100NGBTEX	100NGBTEX
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/17/97	1/17/97	1/17/97	1/17/97
Analyzed Date:	1/17/97	1/17/97	1/17/97	1/17/97
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:	8.2	9.6	9.2	26
MS % Recovery:	82	96	92	87
Dup. Result:	7.4	8.6	8.4	23
MSD % Recov.:	74	86	84	77
RPD:	10	11	9.1	12
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	2LCS011797	2LCS011797	2LCS011797	2LCS011797
Prepared Date:	1/17/97	1/17/97	1/17/97	1/17/97
Analyzed Date:	1/17/97	1/17/97	1/17/97	1/17/97
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:	19	23	22	67
LCS % Recov.:	95	115	110	112
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL, #1271

Jim Bava
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

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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: 0446J - Pleasanton CA
Address: 30A Lindbergh Ave	Project Contact: Ron Scheele
City: Livermore State: CA Zip: 94530	Mobil Oil Engineer: Cherine Fowler
Tel: 6066 9150 Fax.: 6066 9260	Sampler(s) (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 ☐ Diesel	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 ☐ TTLC ☐ STLC	Lead Org./DHS ☐ Lead Total	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent		
I-1	Air	1/15/97	1300	✓	1	tedlar		X	7010731													
I-2	Air	1/15/97	1300	✓	1	tedlar		X	7010732													
I-3	Air	1/15/97	1300	✓	1	tedlar		X	7010733													
E-1	Air	1/15/97	1300	✓	1	tedlar		X	7010734													

CODING (check one)

- Code 1 ☐ Emergency Response
- Code 2 ☐ Site Assessment
- Code 3 ☐ Remediation (Plan Devlpmt.)
- Code 4 ☐ Active Remed. (Install./Start-up)
- Code 5 ☑ Active Remed. (O & M)
- Code 6 ☐ Passive Remed/ Monitoring
- Code 7 ☐ Closure
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Relinquished by:	Date/Time: 1/16/97
Relinquished by:	Date/Time: 1/16/97 1620
Relinquished by:	Date/Time:
Remarks:	

Relinquished by:	Date/Time: 1/16/97 1535
Relinquished by:	Date/Time:
Relinquished by:	Date/Time: 1/16/97 1620

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

Sample Integrity:
Intact ____ On Ice ____

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

Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Jan 7, 1997
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Jan 9, 1997
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jan 16, 1997
Attention: Ron Scheele	First Sample #:	701-0458	

QC Batch Number: GC011097 GC011097
802005A 802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 701-0458 I-1	Sample I.D. 701-0459 E-1
Purgeable Hydrocarbons	50	2,800	N.D.
Benzene	0.50	210	1.4
Toluene	0.50	540	2.7
Ethyl Benzene	0.50	35	N.D.
Total Xylenes	0.50	330	2.3
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	5.0	1.0
Date Analyzed:	1/10/97	1/10/97
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	95	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

Jim Bava
Project Manager

RECEIVED
JAN 20 1997

7010458.ALT <1>

Sequoia Analytical

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

Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Jan 7, 1997
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Jan 9, 1997
Livermore, CA 94550	Analysis Method:	EPA 3510/8015 Mod.	Reported: Jan 16, 1997
Attention: Ron Scheele	First Sample #:	701-0458	

QC Batch Number: SP011097 SP011097

8015EXA 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 701-0458 I-1	Sample I.D. 701-0459 E-1
Extractable Hydrocarbons	50	310	N.D.
Chromatogram Pattern:		Diesel & Unidentified Hydrocarbons <C15	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	1/10/97	1/10/97
Date Analyzed:	1/16/97	1/16/97
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

Jim Bava
Project Manager

Sequoia Analytical

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

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

QC Sample Group: 7010458-459

Reported: Jan 16, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC011097	GC011097	GC011097	GC011097	SP011097
Analy. Method:	802005A EPA 8020	802005A EPA 8020	802005A EPA 8020	802005A EPA 8020	8015EXA EPA 8015
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Sharma
MS/MSD #:	7010459	7010459	7010459	7010459	BLK011097
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/10/97	1/10/97	1/10/97	1/10/97	1/10/97
Analyzed Date:	1/10/97	1/10/97	1/10/97	1/10/97	1/16/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Result:	19	20	19	56	250
MS % Recovery:	95	100	95	93	83
Dup. Result:	19	19	19	55	260
MSD % Recov.:	95	95	95	92	87
RPD:	0.0	5.1	0.0	1.8	3.9
RPD Limit:	0-25	0-25	0-25	0-25	0-50

LCS #:	5LCS011097	5LCS011097	5LCS011097	5LCS011097	LCS011097
Prepared Date:	1/10/97	1/10/97	1/10/97	1/10/97	1/10/97
Analyzed Date:	1/10/97	1/10/97	1/10/97	1/10/97	1/16/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
LCS Result:	19	18	20	56	310
LCS % Recov.:	95	90	100	93	103

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	60-140

SEQUOIA ANALYTICAL, #1271

Jim Bava
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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Mobil Oil Consulting Firm: Alton Geoscience
Address: 304 Lindbergh Ave.
City: Livermore State: CA Zip: 94550
Tel: 5106069150 Fax.: 6067926

Station No./Site Address: 04-H6J - Pleasanton
Project Contact: Ron Scheele
Mobil Oil Engineer: Cherine Fowler
Sampler(s) (signature): Paul Lasmanis

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX -TPH EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015 Gas ☐ Diesel ☒	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead Total ☐	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	
I-1	H20	1/7/97	2:30	HCl/6	4			X	X		7010458			A-D							
E-1	H20	1/7/97	2:30	HCl/6	4			X	X		7010459			1							

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: Paul Lasmanis Date/Time: 1/9/97
Relinquished by: Date/Time: 1/9/97 1630
Relinquished by: Date/Time:

Received by: Date/Time: 1/9/97 1603
Received by: Date/Time:
Received in Lab by: Date/Time: 1/9/97 1650

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

Sample Integrity:
Intact ____ On Ice ____

Remarks:

Sequoia Analytical

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

Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Feb 7, 1997
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Feb 7, 1997
Livermore, CA 94550	Analysis Method:	EPA 3510/8015 Mod.	Reported: Feb 14, 1997
Attention: Ron Scheele	First Sample #:	702-0294	

QC Batch Number: SP021197 SP021197

8015EXA 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 702-0294 I-1	Sample I.D. 702-0295 E-1
Extractable Hydrocarbons	50	720	80
Chromatogram Pattern:		Diesel & Unidentified Hydrocarbons <C15	Diesel & Unidentified Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	2/11/97	2/11/97
Date Analyzed:	2/12/97	2/12/97
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

Jim Bava
Project Manager

Sequoia Analytical

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Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Feb 7, 1997
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Feb 7, 1997
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Feb 14, 1997
Attention: Ron Scheele	First Sample #:	702-0294	

QC Batch Number: GC020797 802005A | GC020797 802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 702-0294 I-1	Sample I.D. 702-0295 E-1
Purgeable Hydrocarbons	50	5,300	85
Benzene	0.50	460	N.D.
Toluene	0.50	1,300	1.3
Ethyl Benzene	0.50	440	N.D.
Total Xylenes	0.50	640	0.57
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	10	1.0
Date Analyzed:	2/7/97	2/7/97
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	93	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

Jim Bava
Project Manager

RECEIVED
FEB 20 1997

7020294.ALT <1>

Sequoia Analytical

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

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

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

QC Sample Group: 7020294-295

Reported: Feb 14, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC020797	GC020797	GC020797	GC020797	SP021197
	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:	K. Nill	K. Nill	K. Nill	K. Nill	D. Sharma
MS/MSD #:	7020231	7020231	7020231	7020231	BLK021197
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/7/97	2/7/97	2/7/97	2/7/97	2/11/97
Analyzed Date:	2/7/97	2/7/97	2/7/97	2/7/97	2/12/97
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:	18	17	18	51	320
MS % Recovery:	90	85	90	85	107
Dup. Result:	19	17	19	53	330
MSD % Recov.:	95	85	95	88	110
RPD:	5.4	0.0	5.4	3.9	3.1
RPD Limit:	0-25	0-25	0-25	0-25	0-50

LCS #:	5LCS020797	5LCS020797	5LCS020797	5LCS020797	LCS021197
Prepared Date:	2/7/97	2/7/97	2/7/97	2/7/97	2/11/97
Analyzed Date:	2/7/97	2/7/97	2/7/97	2/7/97	2/12/97
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	17	19	52	270
LCS % Recov.:	95	85	95	87	90

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	60-140

SEQUOIA ANALYTICAL, #1271

Jim Bava
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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7102083

Mobil Oil Consulting Firm: Alton Geoscience	Station No./Site Address: ~~[illegible]~~ 0446J
Address: 304 Lindbergh Ave	Project Contact: Ron Scheele
City: Livermore State: CA Zip: 94550	Mobil Oil Engineer: Chuck Foutch
Tel: 6069150 Fax.: 606 9260	Sampler(s) (signature): Paul Lamm

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX -TPH EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015 Gas ☐ Diesel ☒	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead Total ☐	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent		
I-1	H2O	2/7/97	1130		4			X	X	7020294			A-D									
E1	H2O	2/7/97	1130		4			X	X	7020295			L									

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: Paul Lamm 2/7/97	Date/Time: 1400	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time: 2/7/97 1400

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

Sample Integrity:
Intact ____ On Ice ____

Remarks:

Sequoia Analytical

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

Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Mar 12, 1997
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Mar 13, 1997
Livermore, CA 94550	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 20, 1997
Attention: Ron Scheele	First Sample #:	703-0835	

QC Batch Number: GC031797 GC031497
802002A 802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 703-0835 I-1	Sample I.D. 703-0836 E-1
Purgeable Hydrocarbons	50	3,700	100
Benzene	0.50	380	3.3
Toluene	0.50	1,000	5.5
Ethyl Benzene	0.50	61	0.63
Total Xylenes	0.50	560	4.4
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	10	1.0
Date Analyzed:	3/17/97	3/14/97
Instrument Identification:	HP-2	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	92	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

Jim Bava
Project Manager

Sequoia Analytical

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

Alton Geoscience	Client Project ID:	Mobil #04-H6J	Sampled: Mar 12, 1997
30-A Lindbergh Ave.	Sample Matrix:	Water	Received: Mar 13, 1997
Livermore, CA 94550	Analysis Method:	EPA 3510/8015 Mod.	Reported: Mar 20, 1997
Attention: Ron Scheele	First Sample #:	703-0835	

QC Batch Number: SP031897 SP031897

8015EXA 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 703-0835 I-1	Sample I.D. 703-0836 E-1
Extractable Hydrocarbons	50	740	170
Chromatogram Pattern:		Diesel & Unidentified Hydrocarbons <C15	Diesel & Unidentified Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	3/18/97	3/18/97
Date Analyzed:	3/19/97	3/19/97
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

Jim Bava
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

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

QC Sample Group: 7030835-836

Reported: Mar 20, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC031497	GC031497	GC031497	GC031497	SP031897
Analy. Method:	802005A EPA 8020	802005A EPA 8020	802005A EPA 8020	802005A EPA 8020	8015EXA EPA 8015
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Sharma
MS/MSD #:	7030837	7030837	7030837	7030837	BLKI031897
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/14/97	3/14/97	3/14/97	3/14/97	3/18/97
Analyzed Date:	3/14/97	3/14/97	3/14/97	3/14/97	3/19/97
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	21	59	300
MS % Recovery:	95	95	105	98	100
Dup. Result:	19	19	21	60	290
MSD % Recov.:	95	95	105	100	97
RPD:	0.0	0.0	0.0	1.7	3.4
RPD Limit:	0-25	0-25	0-25	0-25	0-50

LCS #:	5LCS031497	5LCS031497	5LCS031497	5LCS031497	LCS031897
Prepared Date:	3/14/97	3/14/97	3/14/97	3/14/97	3/18/97
Analyzed Date:	3/14/97	3/14/97	3/14/97	3/14/97	3/19/97
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	21	60	320
LCS % Recov.:	95	95	105	100	107

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	60-140

SEQUOIA ANALYTICAL, #1271

Jim Bava
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

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

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

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

QC Sample Group: 7030835-836

Reported: Mar 20, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031797	GC031797	GC031797	GC031797
	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:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	7030912	7030912	7030912	7030912
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/17/97	3/17/97	3/17/97	3/17/97
Analyzed Date:	3/17/97	3/17/97	3/17/97	3/17/97
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:	17	22	21	63
MS % Recovery:	85	110	105	105
Dup. Result:	17	22	22	63
MSD % Recov.:	85	110	110	105
RPD:	0.0	0.0	4.7	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	2LCS031797	2LCS031797	2LCS031797	2LCS031797
Prepared Date:	3/17/97	3/17/97	3/17/97	3/17/97
Analyzed Date:	3/17/97	3/17/97	3/17/97	3/17/97
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:	17	22	21	62
LCS % Recov.:	85	110	105	103

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

SEQUOIA ANALYTICAL, #1271

Jim Bava
Project Manager

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

SEQUOIA ANALYTICAL
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☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
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Mobil Oil Consulting Firm: Alton Geoscience	Station No./Site Address: 04-46J - Pleasanton
Address: 30A Lindbergh Ave	Project Contact: Cherine Fahoh
City: Livermore State: CA Zip: 94550	Mobil Oil Engineer: Ron Scheele
Tel: 606 9150 Fax.: 6069260	Sampler(s) (signature): Paul Leonis

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX - TPH EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015 Gas ☐ Diesel ☒	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 ☐ TTLC ☐ STLC	Lead Org./DHS ☐ Lead Total ☐	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent		
1-1	H2O	3/12/97	230	HCl/ice	4			X	X	703083 5				A-D								
E-1	H2O	3/12/97	231	HCl/ice	4			X	X	703083 6				L								

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: Paul Leonis	Date/Time: 3/13/97 8:45	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by: [illegible] 3/13/97	Date/Time: 0950

Remarks:

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

Sample Integrity: Intact ___ On Ice ___