

# EXXON COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CALIFORNIA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER

(925) 246-8776  
(925) 246-8798 FAX

July 23, 1998

Mr. Scott Seery  
Alameda County Health Care Services  
1131 Harbor Bay Parkway  
Alameda, California 94502-5577

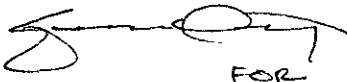
**RE: EXXON RAS #7-7003/349 Main Street, Pleasanton, California**

Dear Mr. Seery:

Attached for your review and comment is a report entitled *Quarterly Ground Water Monitoring Report, Second Quarter 1998* for the subject site. This report was prepared by Delta Environmental Consultants, Inc., of Rancho Cordova, California, and details the results of the March 1998 monitoring and sampling event.

If you have any questions or comments, please contact me at (925) 246-8776.

Sincerely,



FOR

Marla D. Guensler  
Senior Engineer

MDG/tjm

attachment: Delta's *Quarterly Ground Water Monitoring Report, Second Quarter 1998*, dated July 17, 1998.

cc: w/attachment

Mr. David Lunn - Alameda County Flood Control

Mr. Dennis Mishek - California Regional Water Quality Control Board, San Francisco Bay Region

w/o attachment

Mr. James R. Brownell - Delta Environmental Consultants, Inc.



3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670  
916/638-2085  
FAX: 916/638-8385

July 17, 1998

Ms. Marla D. Guensler  
Exxon Company, U.S.A.  
2300 Clayton Road, Suite 640  
Concord, California 94520

Subject: *Quarterly Ground Water Monitoring Report, Second Quarter 1998*  
Exxon Service Station No. 7-7003  
349 Main Street  
Pleasanton, California  
Delta Project No. D094-838

Dear Ms. Guensler:

Delta Environmental Consultants, Inc. (Delta), has been authorized by Exxon Company, U.S.A. (Exxon), to conduct quarterly ground water monitoring at Exxon Service Station No. 7-7003, located at 349 Main Street, Pleasanton, California. This report presents the results of quarterly ground water monitoring and sampling conducted on June 15, 1998. The location of the site is shown in Figure 1 and site features are illustrated in Figure 2. Work conducted at the site by Delta was performed in accordance with the field methods and procedures described in Enclosure A.

During the third and fourth quarter 1997 ground water monitoring events, monitoring well MW-1 was covered with construction debris. Prior to the first quarter 1998 event, the debris was removed. On March 24, 1998, Delta discovered that the casing for MW-1 was partially filled with debris associated with construction activities at the site. A closure report will be submitted to Alameda County Health Care Services during the second quarter of 1998. ?

#### **Ground Water Elevation Measurements, Flow Direction, and Hydraulic Gradient**

Ground water level measurements were recorded in monitoring wells MW-6 and MW-7 on June 15, 1998. Depth to ground water was measured at 21.21 (MW-6) and 17.77 (MW-7) feet below the top of the well casings. The ground water elevation has decreased an average of 2 feet since the previous monitoring event on March 24, 1998. Cumulative ground water elevation measurements are presented in Table 1.

With depth to ground water measurements available from only two wells, a ground water elevation contour map could not be constructed and flow direction could not be assessed. However, the historical ground water flow direction has been toward the northwest.

#### **Subjective Analysis**

No liquid-phase petroleum hydrocarbons or hydrocarbon sheens were present in the wells during the second quarter 1998 monitoring event.

Ms. Marla D. Guensler  
Exxon Company, U.S.A.  
July 17, 1998  
Page 2

### Ground Water Sample Analytical Results

Ground water samples were collected from monitoring wells MW-6 and MW-7 on June 15, 1998. The samples were submitted to Sequoia Analytical (a California-certified laboratory) for analysis of benzene, toluene, ethylbenzene, total xylenes, and methyl tertiary butyl ether using EPA Method 8020, and total purgeable petroleum hydrocarbons as gasoline using EPA Method 8015 Modified. A summary of analytical results from ground water samples collected to date are presented in Table 1.

Analytical results indicate that ground water samples from MW-6 and MW-7 were below the laboratory's detection limits for all analytes. A copy of the laboratory analytical report for the second quarter 1998 sampling event is presented in Enclosure B.

### Future Work

The next quarterly monitoring event for this site is scheduled for September 1998. A closure request report which will include a risk analysis will be submitted during the third quarter of 1998.

### Remarks/Signatures

The interpretations contained in this report represent our professional opinions, and are based in part on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

Delta recommends that a copy of this report be forwarded to:

Mr. David Lumm  
Alameda County Flood Control and  
Water Conservation District (Zone 7)  
5997 Parkside Drive  
Pleasanton, California 94566

Mr. Dennis Mishek  
California Regional Water Quality Control Board,  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, California 94612

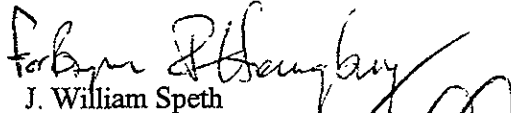
Mr. Scott Seery  
Alameda County Health Care Services  
1131 Harbor Bay Parkway  
Alameda, California 94502-5577

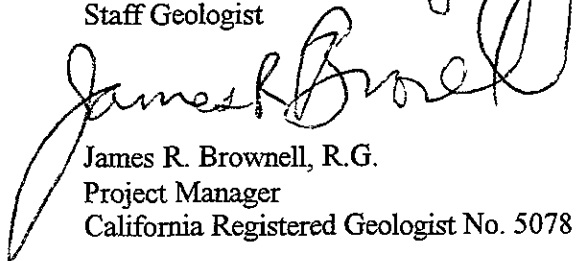
Ms. Marla D. Guensler  
Exxon Company, U.S.A.  
July 17, 1998  
Page 3

If you have any questions regarding this project, please contact Jim Brownell at (916) 638-2765.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

  
J. William Speth  
Staff Geologist

  
James R. Brownell, R.G.  
Project Manager  
California Registered Geologist No. 5078



WLB (LRP011.838)  
Enclosures

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003  
349 Main Street  
Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-1	02/23/90	343.83	26.08	317.75	21	9.2	59	19	3,300	100	NA	NA	NA	No LPH
	06/15/90		26.49	317.34	7.9	5.9	32	58	1,300	<50	NA	NA	NA	No LPH
	08/01/90		26.47	317.36	77	280	50	250	2,500	<50	NA	NA	NA	No LPH
	12/18/90		28.00	315.83	9.0	2.0	43	400	390	<100	NA	NA	NA	No LPH
	03/19/91		23.63	320.20	45	12	240	300	4,500	<100	NA	12.0 <sup>a</sup>	NA	No LPH
	06/27/91		22.11	321.72	5.4	2.6	29	34	710	<100	NA	ND	NA	No LPH
	09/26/91		27.75	316.08	1.9	<0.5	0.6	0.6	290	<100	NA	ND	NA	No LPH
	01/10/92		25.61	318.22	52	15	690	496	5,400	<100	NA	6.1 <sup>a</sup>	NA	No LPH
	03/12-13/92		22.52	321.31	87	22	1,200	1,000	1,400	NA	NA	14 <sup>a</sup> , 2.1 <sup>b</sup> , 1.2 <sup>c</sup> 0.5 <sup>d</sup> , 0.8 <sup>e</sup>	NA	No LPH
	06/09/92		21.53	322.30	27	5.9	400	300	4,500	<100	<5,000	ND	NA	No LPH
	09/28-29/92		29.84	313.99	<0.5	0.9	<0.5	<0.5	60	NA	<5,000	ND	NA	No LPH
	12/12/92		23.86	319.97	53	18	1,100	570	1,400	NA	<5,000	49 <sup>a</sup>	NA	No LPH
	02/02-03/93		19.00	324.83	61	27	900	840	10,000	NA	<5,000	19 <sup>a</sup> , 2.2 <sup>b</sup> 1.1 <sup>d</sup> , 2.4 <sup>e</sup>	NA	No LPH
	06/08-09/93		16.62	327.21	42	32	970	720	7,500	NA	<5,000	1.8 <sup>a</sup> , 1.0 <sup>c</sup> , 0.8 <sup>e</sup>	NA	No LPH
	09/22-23/93		19.63	324.20	36	34	820	540	6,600	NA	<5,000	0.6 <sup>e</sup>	NA	No LPH
	11/17-18/93		20.82	323.01	24	10	470	300	5,900	NA	NA	ND	NA	No LPH
	02/16-17/94		21.47	322.36	42	15	470	330	6,700	NA	NA	ND	NA	No LPH
	05/12-13/94		19.78	324.05	26	9.4	400	210	4,000	NA	<5,000	ND	NA	No LPH
	09/07/94		21.16	322.67	3.5	2.0	17	18	170	NA	NA	ND	NA	No LPH
	12/02/94		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	Dry
	03/06/95		18.70	325.13	9.8	5.2	130	80	1,500	NA	NA	ND	NA	No LPH
	05/30/95		17.70	326.13	41	14	480	270	6,200	NA	NA	ND	<50	No LPH
	09/06/95		20.21	323.62	8.1	5.7	120	65	1,500	NA	NA	NA	<12	No LPH
	11/30/95		21.47	322.36	1.9	0.7	5.3	5.5	77	NA	NA	NA	<5.0	No LPH
	03/28/96		15.45	328.38	54	5.8	420	210	6,700	NA	NA	NA	<50	No LPH
	06/25/96		18.91	324.92	17	12	110	72	1,600	NA	NA	NA	11	No LPH
	09/25/96		21.10	322.73	11	5.1	37	36	500	NA	NA	NA	<5.0	No LPH
	12/31/96		19.38	324.45	11	7.0	48	41	540	NA	NA	NA	<5.0	No LPH

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-1	05/19/97	343.83	17.64	326.19	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
(Cont.)	09/17/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	12/23/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	03/24/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	06/15/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-2	02/23/90	344.22	26.31	317.91	3.0	2.0	0.98	6.5	650	8.0	NA	NA	NA	No LPH
	06/15/90		26.25	317.97	<0.5	2.6	<0.5	<0.5	670	<50	NA	NA	NA	No LPH
	08/01/90		26.15	318.07	24	130	37	170	1,300	<50	NA	NA	NA	No LPH
	12/18/90		27.94	316.28	<0.3	0.5	1.0	3.0	470	<100	NA	NA	NA	No LPH
	03/19/91		23.41	320.81	10	3.4	6.1	3.8	700	<100	NA	ND	NA	No LPH
	06/27/91		21.63	322.59	8.7	2.1	8.8	33	1,400	<100	NA	ND	NA	No LPH
	09/26/91		27.19	317.03	<0.5	0.6	0.6	3.9	300	<100	NA	ND	NA	No LPH
	01/10/92		25.67	318.55	9.3	1.0	2.4	3.2	800	<100	NA	ND	NA	No LPH
	03/12-13/92		22.28	321.94	<0.5	0.6	0.63	1.0	350	NA	NA	ND	NA	No LPH
	06/09/92		21.17	323.05	1.9	2.5	2.51	5.1	150	<100	NA	ND	NA	No LPH
	09/28-29/92		29.58	314.64	<0.5	<0.5	<0.5	<0.5	71	NA	NA	ND	NA	No LPH
	12/12/92		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	02/02-03/93		18.69	325.53	3.9	8.2	21	20	720	NA	NA	NA	NA	No LPH
	06/08-09/93		16.32	327.90	0.5	3.3	5.7	2.0	160	NA	NA	NA	NA	No LPH
	09/22-23/93		19.43	324.79	0.7	5.6	4.0	2.6	240	NA	NA	NA	NA	No LPH
	11/17-18/93		20.56	323.66	1.2	2.3	3.2	1.3	490	NA	NA	NA	NA	No LPH
	02/16-17/94		20.93	323.29	<0.5	2.3	1.0	2.0	280	NA	NA	NA	NA	No LPH
	05/12-13/94		19.64	324.58	<0.5	0.7	0.6	3.8	100	NA	NA	NA	NA	No LPH
	09/07/94		20.93	323.29	<0.5	<0.5	3.8	2.9	410	NA	NA	NA	NA	No LPH
	12/02/94		20.39	323.83	<0.5	<0.5	<0.5	<0.5	55	NA	NA	NA	NA	No LPH
	03/06/95		18.66	325.56	<0.5	<0.5	<0.5	<0.5	190	NA	NA	NA	NA	No LPH
	05/30/95		17.69	326.53	0.55	<0.5	<0.5	<0.5	58	NA	NA	NA	<2.5	No LPH
	09/06/95		20.18	324.04	<0.5	<0.5	<0.5	<0.5	81	NA	NA	NA	<2.5	No LPH
	11/30/95		21.17	323.05	3.4	<0.5	<0.5	0.85	200	NA	NA	NA	<5.0	No LPH
	03/28/96		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	06/25/96		18.91	325.31	1.4	<0.5	<0.5	<0.5	68	NA	NA	NA	<5.0	No LPH
	09/25/96		20.92	323.30	<0.5	<0.5	<0.5	<0.5	170	NA	NA	NA	<5.0	No LPH
	11/27/96		Well destroyed											

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-3	02/23/90	342.70	24.78	317.92	<0.5	<0.5	<0.5	<0.5	<20	100	NA	NA	NA	No LPH
	06/15/90		25.29	317.41	<0.5	<0.5	<0.5	<0.5	200	<50	NA	NA	NA	No LPH
	08/01/90		25.40	317.30	54	380	23	400	3,200	<50	NA	NA	NA	No LPH
	12/18/90		26.84	315.86	8.0	12	6.0	24	200	<100	<5,000	4.1°	NA	No LPH
	03/19/91		22.13	320.57	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA	No LPH
	06/27/91		21.04	321.66	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA	No LPH
	09/26/91		26.63	316.07	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA	No LPH
	01/10/92		24.26	318.44	<0.5	<0.5	<0.5	<0.5	<50	<100	5,100	ND	NA	No LPH
	03/12-13/92		21.60	321.10	<0.5	<0.5	<0.5	<0.5	<50	NA	5,000	ND	NA	No LPH
	06/09/92		20.88	321.82	<0.5	<0.5	<0.5	<0.5	<50	<100	<5,000	ND	NA	No LPH
	09/28-29/92		28.67	314.03	<0.5	<0.5	<0.5	<0.5	<50	NA	<5,000	ND	NA	No LPH
	12/12/92		20.73	321.97	<0.5	<0.5	<0.5	1.3	<50	NA	<5,000	NA	NA	No LPH
	02/02-03/93		19.30	323.40	<0.5	<0.5	<0.5	<0.5	<50	NA	<5,000	NA	NA	No LPH
	06/08-09/93		15.89	326.81	0.6	0.9	3.4	2.8	<50	NA	<5,000	NA	NA	No LPH
	09/22-23/93		18.63	324.07	<0.5	1.0	1.6	4.4	<50	NA	NA	NA	NA	No LPH
	11/17-18/93		19.97	322.73	<0.5	<0.5	<0.5	1.5	<50	NA	NA	NA	NA	No LPH
	02/16-17/94		20.64	322.06	1.5	5.3	1.6	9.2	<50	NA	NA	NA	NA	No LPH
	05/12-13/94		18.32	324.38	<0.5	0.8	<0.5	2.8	<50	NA	NA	NA	NA	No LPH
	09/07/94		20.52	322.18	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/02/94		19.59	323.11	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/06/95		16.98	325.72	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		16.65	326.05	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		18.86	323.84	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		20.76	321.94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		14.93	327.77	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	06/25/96		17.85	324.85	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	09/25/96		20.29	322.41	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		17.82	324.88	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	04/14/97													Well destroyed



TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-4	06/15/90	343.38	30.94	312.44	<0.5	<0.5	<0.5	<0.5	<20	<50	NA	NA	NA	No LPH
	08/01/90		31.21	312.17	5.2	5.4	5.4	9.9	120	<50	NA	NA	NA	No LPH
	12/18/90		32.86	310.52	7.0	1.0	<0.3	2.0	50	<100	NA	NA	NA	No LPH
	03/19/91		26.76	316.62	1.8	0.8	2.2	11	160	<100	NA	ND	NA	No LPH
	06/27/91		25.91	317.47	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	09/26/91		32.29	311.09	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	1.0°	NA	No LPH
	01/10/92		29.06	314.32	0.9	<0.5	7.6	4.4	98	<100	NA	1.0°	NA	No LPH
	03/12-13/92		24.25	319.13	1.2	<0.5	5.3	4.3	82	NA	NA	ND	NA	No LPH
	06/09/92		25.00	318.38	0.6	1.0	<0.5	2.5	<50	<100	NA	0.7°	NA	No LPH
	09/28-29/92		34.41	308.97	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	12/12/92		30.77	312.61	1.0	0.9	7.0	11	99	NA	NA	ND	NA	No LPH
	02/02-03/93		21.03	322.35	2.3	2.2	6.2	8.4	170	NA	NA	ND	NA	No LPH
	06/08-09/93		18.35	325.03	0.7	0.9	0.7	<0.5	<50	NA	NA	0.6°	NA	No LPH
	09/22-23/93		21.86	321.52	0.8	2.0	3.1	5.3	59	NA	NA	ND	NA	No LPH
	11/17-18/93		22.98	320.40	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	02/16-17/94		23.94	319.44	8.7	17	4.2	24	98	NA	NA	0.5°	NA	No LPH
	05/12-13/94		22.30	321.08	0.8	0.9	0.7	6.1	<50	NA	NA	ND	NA	No LPH
	09/07/94		23.44	319.94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	12/02/94		23.07	320.31	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	03/06/95		20.52	322.86	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	05/30/95		19.16	324.22	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	<2.5	No LPH
	09/06/95		22.26	321.12	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		23.67	319.71	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		16.50	326.88	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	06/25/96		20.38	323.00	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	09/25/96		23.16	320.22	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		22.55	320.83	<0.5	3.7	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	04/14/97													Well destroyed

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-5	06/15/90	345.20	26.94	318.26	<0.5	<0.5	<0.5	<0.5	<20	60	NA	NA	NA	No LPH
	08/01/90		26.90	318.30	9.7	12	7.6	17	120	<50	NA	NA	NA	No LPH
	12/18/90		28.31	316.89	2.0	3.5	2.0	8.0	50	<100	NA	NA	NA	No LPH
	03/19/91		23.98	321.22	<0.5	<0.5	<0.5	<0.5	160	<100	NA	NA	NA	No LPH
	06/27/91		22.41	322.79	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	0.5 <sup>a</sup>	NA	No LPH
	09/26/91		27.77	317.43	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	01/10/92		26.38	318.82	<0.5	<0.5	<0.5	0.6	98	<100	NA	ND	NA	No LPH
	03/12-13/92		22.08	323.12	<0.5	<0.5	<0.5	<0.5	82	NA	NA	ND	NA	No LPH
	06/09/92		31.98	313.22	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	09/28-29/92		30.26	314.94	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/12/92		27.20	318.00	0.9	11	0.5	3.1	210	NA	NA	ND	NA	No LPH
	02/02-03/93		20.01	325.19	<0.5	2.7	<0.5	0.9	70	NA	NA	NA	NA	No LPH
	06/08-09/93		16.80	328.40	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	09/22-23/93		20.28	324.92	1.0	<0.5	1.1	2.1	<50	NA	NA	NA	NA	No LPH
	11/17-18/93		21.19	324.01	<0.5	<0.5	<0.5	0.9	<50	NA	NA	NA	NA	No LPH
	02/16-17/94		21.61	323.89	1.2	4.3	1.4	8.2	<50	NA	NA	NA	NA	No LPH
	05/12-13/94		20.61	324.59	1.7	2.3	1.5	9.1	<50	NA	NA	NA	NA	No LPH
	09/07/94		21.63	323.57	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/02/94		21.12	324.08	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/06/95		19.67	325.53	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		18.63	326.57	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		21.02	324.18	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		21.87	323.33	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		16.19	329.01	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	06/25/96		19.92	325.28	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	09/25/96		21.68	323.52	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		20.17	325.03	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	04/14/97		Well destroyed											

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-6	03/19/91	342.25	34.42	307.83	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	06/27/91		35.01	307.24	2.6	1.8	0.8	<0.30	<50	<100	NA	ND	NA	No LPH
	09/26/91		40.34	301.91	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	01/10/92		36.20	306.05	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	03/12-13/92		31.95	310.30	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	06/09/92		33.22	309.03	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	09/28-29/92		40.96	301.29	<0.5	<0.5	0.9	0.9	<50	NA	NA	ND	NA	No LPH
	12/12/92		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	NM
	02/02/93		26.51	315.74	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	06/08/93		22.62	319.63	0.6	0.7	1.7	1.8	<50	NA	NA	NA	NA	No LPH
	09/22/93		26.74	315.51	<0.5	<0.5	0.7	1.1	<50	NA	NA	NA	NA	No LPH
	11/17-18/93		28.49	313.76	0.6	0.8	1.2	3.9	<50	NA	NA	NA	NA	No LPH
	02/16-17/94		29.83	312.42	3.8	7.9	2.0	11	51	NA	NA	NA	NA	No LPH
	05/12-13/94		27.89	314.36	0.6	1.0	<0.5	2.7	<50	NA	NA	NA	NA	No LPH
	09/07/94		28.81	313.44	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/02/94		28.55	313.70	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/06/95		24.70	317.55	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		22.03	320.22	<0.5	0.52	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		26.54	315.71	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		28.90	313.35	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	06/25/96		22.96	319.29	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	09/25/96		27.80	314.45	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		26.34	315.91	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	05/19/97		25.70	316.55	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/17/97		28.54	313.71	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	12/23/97		28.93	313.32	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/24/98		19.00	323.25	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	06/15/98		21.21	321.04	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003  
349 Main Street  
Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-7	03/19/91	343.62	24.68	318.94	<0.5	<0.5	<0.5	<0.5	140	<100	NA	0.7 <sup>a</sup> , 0.8 <sup>b</sup>	NA	No LPH
	06/27/91		23.10	320.52	5.2	5.6	3.9	16	100	<100	NA	ND	NA	No LPH
	01/10/92		26.98	316.64	<0.5	<0.5	<0.5	<0.5	<50	<100	NA	ND	NA	No LPH
	03/12-13/92		21.86	321.76	<0.5	<0.5	<0.5	<0.5	120		NA	ND	NA	No LPH
	06/09/92		22.32	321.30	<0.5	<0.5	<0.5	<0.5	81	<100	NA	ND	NA	No LPH
	09/28-29/92		31.92	311.70	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	ND	NA	No LPH
	12/12/92		28.80	314.82	5.1	6.9	3.3	19	200	NA	NA	NA	NA	No LPH
	02/02-03/93		19.50	324.12	<0.5	6.6	0.6	1.7	170	NA	NA	NA	NA	No LPH
	06/08-09/93		16.72	326.90	<0.5	0.8	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	09/22-23/93		19.90	323.72	0.6	0.9	0.7	1.1	<50	NA	NA	NA	NA	No LPH
	11/17-18/93		20.75	322.87	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	02/16-17/94		21.36	322.26	0.9	2.7	<0.5	3.2	<50	NA	NA	NA	NA	No LPH
	05/12-13/94		20.32	323.30	<0.5	1.1	<0.5	1.6	<50	NA	NA	NA	NA	No LPH
	09/07/94		21.19	322.43	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/02/94		20.95	322.67	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/06/95		19.35	324.27	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		18.19	325.43	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		20.57	323.05	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		21.64	321.98	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM
	06/25/96		19.51	324.11	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	09/25/96		21.30	322.32	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		20.52	323.10	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	05/19/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	09/17/97		21.64	321.98	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	12/23/97		21.27	322.35	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	03/24/98		15.64	327.98	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	06/15/98		17.77	325.85	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003  
349 Main Street  
Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
MW-8	06/08-09/93	344.00	15.78	328.22	<0.5	1.1	0.8	1.7	65	NA	NA	NA	NA	No LPH
	09/22-23/93		18.86	325.14	4.1	8.9	6.7	14	110	NA	NA	NA	NA	No LPH
	11/17-18/93		20.01	323.99	<0.5	0.9	<0.5	<0.5	78	NA	NA	NA	NA	No LPH
	02/16-17/94		20.30	323.70	<0.5	1.8	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/12-13/94		18.92	325.08	<0.5	1.0	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	09/07/94		20.25	323.75	<0.5	<0.5	<0.5	<0.5	67	NA	NA	NA	NA	Sheen
	12/02/94		19.73	324.27	<0.5	<0.5	<0.5	<0.5	110	NA	NA	NA	NA	No LPH
	03/06/95		17.66	326.34	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		16.97	327.03	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		19.30	324.70	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		20.44	323.56	<0.5	0.62	<0.5	6.8	<50	NA	NA	NA	<5.0	No LPH
	03/28/96		14.91	329.09	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	06/25/96		18.10	325.90	<0.5	<0.5	<0.5	<0.5	79	NA	NA	NA	<5.0	No LPH
	09/25/96		20.20	323.80	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	11/27/96													Well destroyed

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
VE-1	09/28/92	343.38	21.92	321.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	06/08/93		16.44	326.94	<5.0	15	830	500	5,800	NA	NA	NA	NA	No LPH
	09/22-23/93		19.47	323.91	5.4	21	380	240	3,700	NA	NA	NA	NA	No LPH
	11/17-18/93		20.64	322.74	5.8	2.0	220	180	3,600	NA	NA	NA	NA	No LPH
	02/16-17/94		21.20	322.18	31	4.0	500	300	7,600	NA	NA	NA	NA	No LPH
	05/12-13/94		19.69	323.69	0.7	<0.5	56	33	970	NA	NA	NA	NA	No LPH
	09/07/94		21.30	322.08	7.3	46	620	150	8,100	NA	NA	NA	NA	No LPH
	12/02/94		20.63	322.75	3.4	37	450	210	8,300	NA	NA	NA	NA	No LPH
	03/06/95		18.40	324.98	<0.5	<0.5	<0.5	<0.5	52	NA	NA	NA	NA	No LPH
	05/30/95		17.58	325.80	15	<5 <sup>i</sup>	270	89	3,400	NA	NA	NA	<2.5	No LPH
	09/06/95		20.32	323.06	<0.5	<0.5	1.6	<0.5	100	NA	NA	NA	<2.5	No LPH
	11/30/95		21.75	321.63	48	10	240	35	5,200	NA	NA	NA	<50	No LPH
	03/28/96		15.75	327.63	<5.0 <sup>i</sup>	<5.0 <sup>i</sup>	250	81	3,800	NA	NA	NA	<50	No LPH
	06/25/96		18.99	324.39	19	<5.0 <sup>i</sup>	140	42	3,800	NA	NA	NA	8	No LPH
	09/25/96		21.32	322.06	<0.5	7.0	65	21	2,500	NA	NA	NA	<5.0	No LPH
	12/31/96		19.40	323.98	<0.5	<0.5	<0.5	0.86	270	NA	NA	NA	<5.0	No LPH
	04/14/97			Well destroyed										

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
VE-2	06/08/93	343.39	16.20	327.19	10	18	900	340	7,000	NA	NA	NA	NA	No LPH
	09/22-23/93		19.23	324.16	15	33	240	82	2,600	NA	NA	NA	NA	No LPH
	11/17-18/93		20.44	322.95	22	<0.5	220	56	3,500	NA	NA	NA	NA	No LPH
	02/16-17/94		20.90	322.49	45	<5.0	220	60	3,400	NA	NA	NA	NA	No LPH
	05/12-13/94		19.41	323.98	19	29	66	110	1,900	NA	NA	NA	NA	No LPH
	09/07/94		20.94	322.45	5.5	<0.5	9.0	3.0	690	NA	NA	NA	NA	Sheen
	12/02/94		20.30	323.09	3.7	21 <sup>h</sup>	50	8.8	1,900	NA	NA	NA	NA	No LPH
	03/06/95		18.14	325.25	<0.5	<0.5	9.4	1.3	460	NA	NA	NA	NA	No LPH
	05/30/95		17.29	326.10	<1.0	<1.0	20	2.3	580	NA	NA	NA	<5.0	Sheen
	09/06/95		19.99	323.40	<1.0	<1.0	<1.0	<1.0	290	NA	NA	NA	12	No LPH
	11/30/95		21.33	322.06	13	0.64	2.7	4.1	990	NA	NA	NA	<5.0	No LPH
	03/28/96		15.23	328.16	<0.5	<0.5	11	1.1	460	NA	NA	NA	8.2	No LPH
	06/25/96		18.53	324.86	31	13	210	87	3,400	NA	NA	NA	28	No LPH
	09/25/96		20.96	322.43	<0.5	<0.5	<0.5	<0.5	610	NA	NA	NA	11	No LPH
	12/31/96		19.12	324.27	5.0	0.54	0.59	0.56	390	NA	NA	NA	<5.0	No LPH
	04/14/97													Well destroyed

TABLE 1

## GROUND WATER MONITORING DATA

Exxon Service Station No. 7-7003

349 Main Street

Pleasanton, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to Ground Water (feet)	Ground Water Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Lead (ppm)	Total Oil and Grease (ppm)	VOC (µg/L)	MTBE (µg/L)	Comments
VE-3	06/08/93	343.39	16.48	326.91	3.1	3.1	18	15	130	NA	NA	NA	NA	No LPH
	09/22-23/93		18.96	324.43	11	7.3	13	32	130	NA	NA	NA	NA	No LPH
	11/17-18/93		20.00	323.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	02/16-17/94		21.02	322.37	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/12-13/94		20.58	322.81	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	09/07/94		20.35	323.04	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	12/02/94		21.85	321.54	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	03/06/95		19.12	324.27	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	No LPH
	05/30/95		17.37	326.02	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	09/06/95		19.49	323.90	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<2.5	No LPH
	11/30/95		20.96	322.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	No LPH
	12/31/95		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	NM
	03/28/96		15.68	327.71	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	06/25/96		18.37	325.02	1.5	0.62	<0.5	<0.5	67	NA	NA	NA	5.1	No LPH
	09/25/96		20.04	323.35	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	12/31/96		20.84	322.55	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	<5.0	No LPH
	04/14/97		Well destroyed											

<sup>a</sup> Chloroform.<sup>b</sup> Methylene chloride.<sup>c</sup> 1,2-Dichloroethane<sup>d</sup> Trichloroethane<sup>e</sup> Tetrachloroethane<sup>f</sup> Sample was diluted due to the presence of high levels of hydrocarbons.<sup>g</sup> Bromodichloromethane.<sup>h</sup> The presence of this compound confirmed by second column; however, the confirmation concentration differed from the reported result by more than a factor of two.<sup>i</sup> Elevated detection limit quantified by multiplying laboratory reporting limits by report limit multiplication factor

Reference elevation = Elevation relative to mean sea level.

Depth to ground water = Measured from notch/mark on north edge of well casing.

µg/L = Micrograms per liter.

ppm = parts per million

TPPH = Total purageble petroleum hydrocarbons or total petroleum hydrocarbons (TPH) by EPA Method 8015 Modified.

VOC = Volatile organic compounds.

MTBE = Methyl tertiary butyl ether.

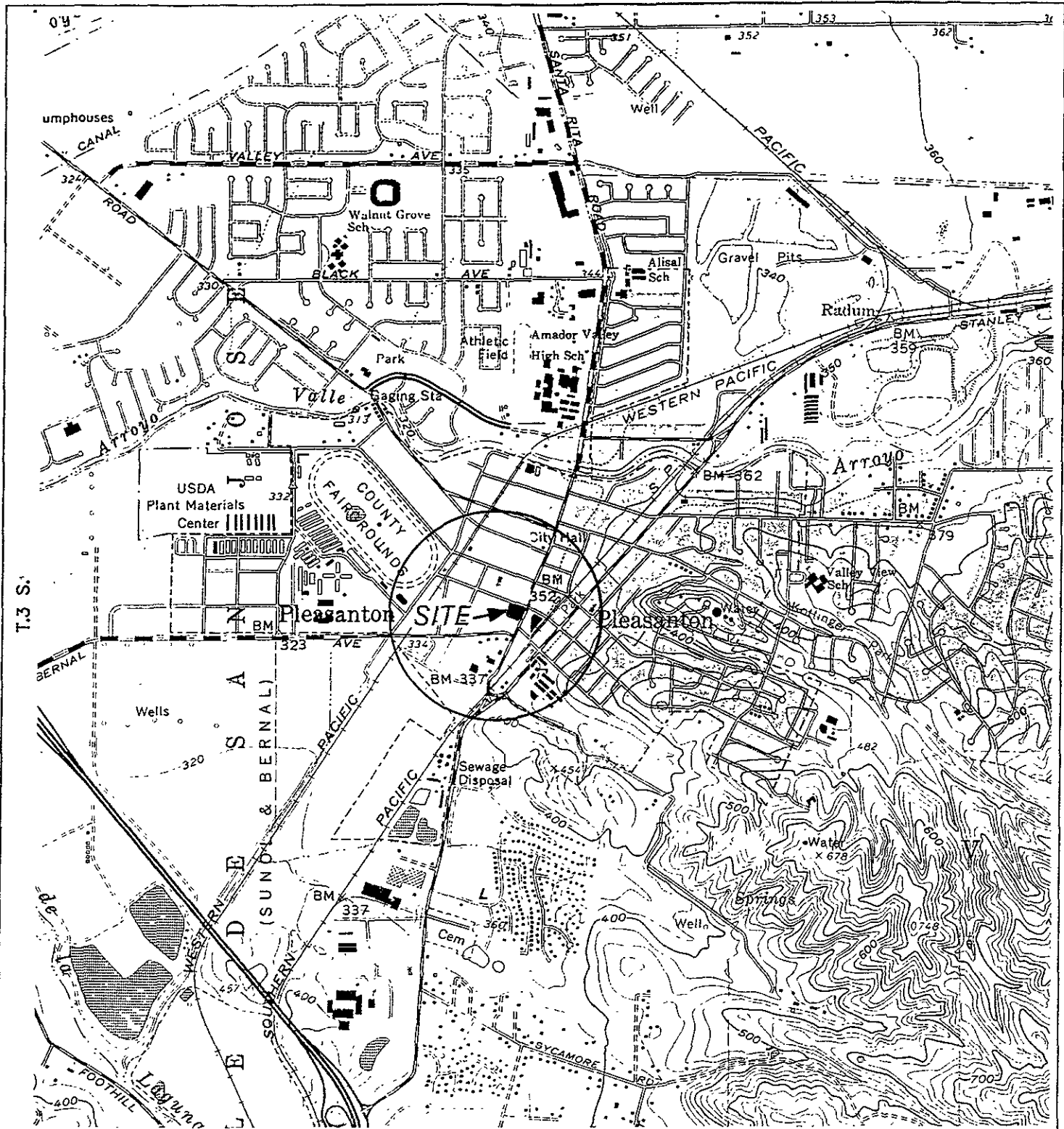
LPH = Liquid-phase petroleum hydrocarbons.

NA = Not analyzed.

NM = Not measured

NC = Not calculated.





GENERAL NOTES:  
 BASE MAP FROM U.S.G.S.  
 DUBLIN & LIVERMORE, CA.  
 7.5 MINUTE TOPOGRAPHIC  
 PHOTOREVISED 1980



QUADRANGLE LOCATION



0 2000 FT



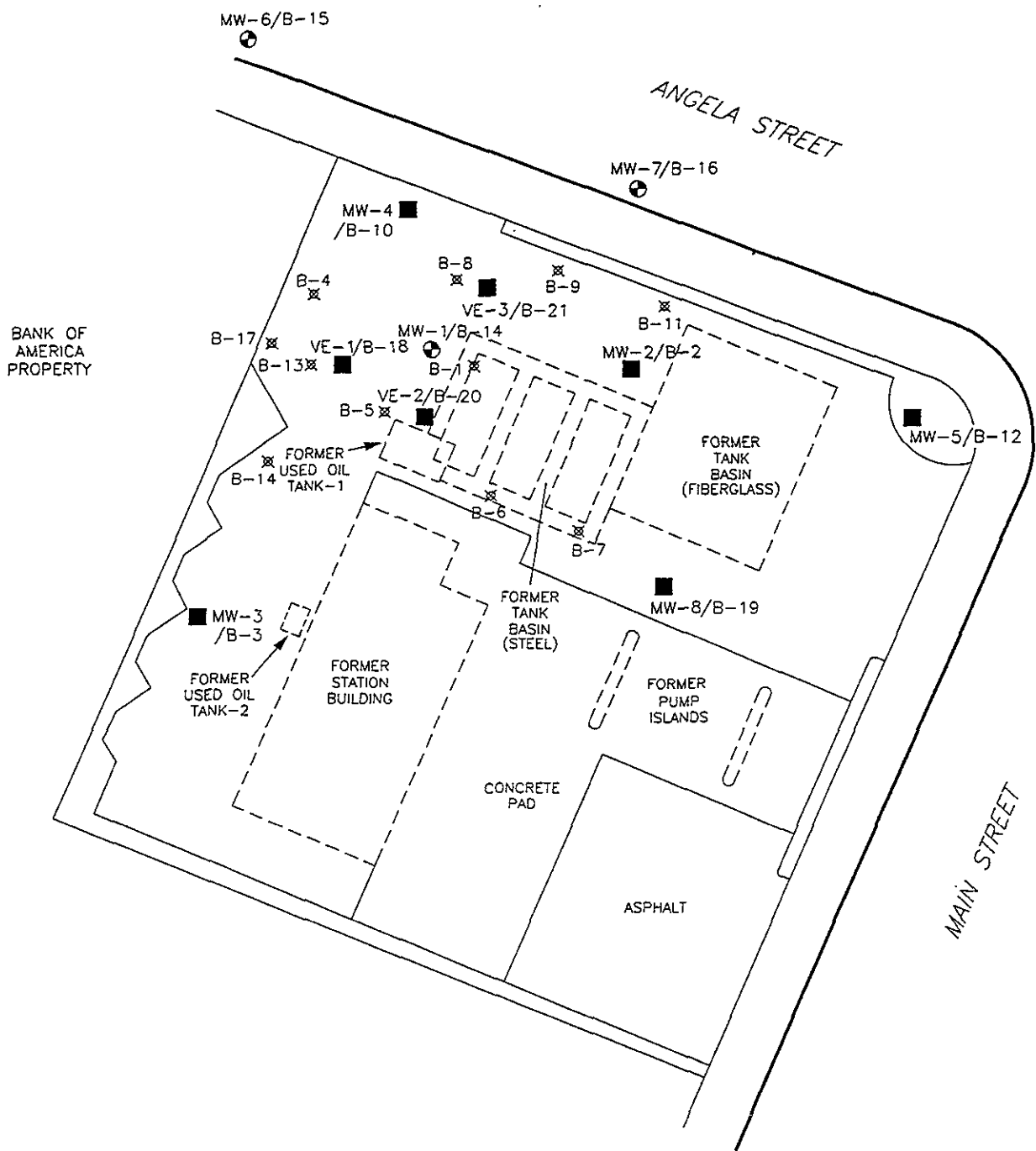
SCALE 1 : 24,000

R.1 E.

FIGURE 1  
 SITE LOCATION MAP  
 EXXON STATION NO. 7-7003  
 349 MAIN STREET  
 PLEASANTON, CA.

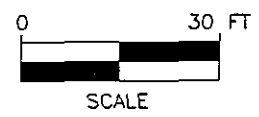
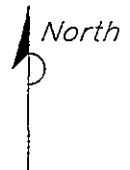
PROJECT NO. D094-838	DRAWN BY L.H. 8/24/94
FILE NO.	PREPARED BY REC
REVISION NO. 1	REVIEWED BY JLB 10/14/94





LEGEND:

- ⊙ VE-1 VAPOR EXTRACTION WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION
- MW-2 DESTROYED MONITORING WELL LOCATION
- VE-1 DESTROYED VAPOR EXTRACTION WELL LOCATION
- ⊗ B-1 SOIL BORING LOCATION



**FIGURE 2**  
**SITE MAP**

EXXON STATION NO. 7-7003  
349 MAIN STREET  
PLEASANTON, CA.

PROJECT NO. D094-838	DRAWN BY M.L. 11/24/97
FILE NO. 94-838-1	PREPARED BY LJM
REVISION NO. 7	REVIEWED BY CJA

**Delta**  
Environmental  
Consultants, Inc.

**ENCLOSURE A**

**Field Methods and Procedures**

## **FIELD METHODS AND PROCEDURES**

### **1.0 GROUND WATER AND LIQUID-PHASE PETROLEUM HYDROCARBON**

#### **DEPTH ASSESSMENT**

A water/petroleum interface probe was used to assess the thickness of liquid-phase petroleum hydrocarbons (LPH), if present, and a water level indicator was used to assess ground water depth in monitoring wells that do not contain LPH. Depth to ground water was measured from the top of each monitoring well casing. The tip of the water level indicator was subjectively analyzed for LPH sheen. All measurements and physical observations were then recorded in the field.

#### **2.0 SUBJECTIVE ANALYSIS OF GROUND WATER**

Prior to purging, a water sample was collected from the monitoring well for subjective assessment. The sample was retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer was then retrieved and the sample contained within the bailer was examined for LPH and the appearance of a petroleum sheen.

#### **3.0 MONITORING WELL PURGING AND SAMPLING**

Monitoring wells were purged using a submersible pump or bailer until pH, temperature, and conductivity of the purge water had stabilized and a minimum of three to four well volumes of water had been removed. Ground water removed from the wells was stored in 55-gallon barrels at the site. The barrels were labeled with corresponding monitoring well numbers and the date of purging. After purging, ground water levels were allowed to stabilize. A ground water sample was then removed from each of the wells using a disposable bailer. If the well was purged dry, it was allowed to sufficiently recharge and a sample was collected. Samples were collected in air-tight vials, appropriately labeled, and stored on ice from the time of collection through the time of delivery to the laboratory. A chain-of-custody form was completed to document possession of the samples. Ground water samples were transported to the laboratory and analyzed within the EPA-specified holding times for the requested analyses. Purge water will be collected from the storage barrels in a vacuum truck and transported to an appropriate facility for treatment and/or disposal.

**ENCLOSURE B**

Ground Water Laboratory Analytical Report



**Sequoia  
Analytical**

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FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Delta Environmental 3164 Gold Camp Drive, #200 Rancho Cordova, CA 95670	Client Proj. ID: Exxon 7-7003, D094-838 Sample Descript: MW6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806B33-01	Sampled: 06/15/98 Received: 06/16/98 Analyzed: 06/17/98 Reported: 07/01/98
---	--	---

QC Batch Number: GC061798BTEX17A  
Instrument ID: GCGP17

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	95



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

**SEQUOIA ANALYTICAL - ELAP #1210**

*Richard Herling*  
Richard Herling  
Project Manager



Delta Environmental 3164 Gold Camp Drive, #200 Rancho Cordova, CA 95670	Client Proj. ID: Exxon 7-7003, D094-838 Sample Descript: MW7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806B33-02	Sampled: 06/15/98 Received: 06/16/98 Analyzed: 06/17/98 Reported: 07/01/98
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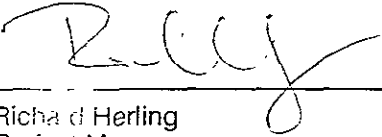
QC Batch Number: GC061798BTEX17A  
Instrument ID: GCGP17

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	95

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

SEQUOIA ANALYTICAL - ELAP #1210

  
 Richard Herling  
 Project Manager



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Delta Environmental  
3164 Gold Camp Drive, #200  
Rancho Cordova, CA 95670  
Attention: Jim Brownell

Client Project ID: Exxon 7-7003, D094-838

QC Sample Group: 9806B33-01,02

Reported: Jul 1, 1998

## QUALITY CONTROL DATA REPORT

Matrix: Liquid  
Method: EPA 8015  
Analyst: N. Herrera

ANALYTE Gasoline

QC Batch #: GC061798BTEX17A

Sample No.: GW9806718-3

Date Prepared: 6/17/98

Date Analyzed: 6/17/98

Instrument I.D.#: GCHP17

Sample Conc., ug/L: N.D.

Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 210

% Recovery: 85

Matrix

Spike Duplicate, ug/L: 210

% Recovery: 85

Relative % Difference: 0.0

RPD Control Limits: 0-25

LCS Batch#: GWBLK061798ABS

Date Prepared: 6/17/98

Date Analyzed: 6/17/98

Instrument I.D.#: GCHP17

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 210

LCS % Recovery: 84

Percent Recovery Control Limits:

MS/MSD 60-140

LCS 70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:

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

SEQUOIA ANALYTICAL

Richard Herling  
Project Manager







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Delta Environmental  
3164 Gold Camp Drive, #200  
Rancho Cordova, CA 95670  
Attention: Jim Brownell

Client Proj. ID: Exxon 7-7003, D094-838

Received: 06/16/98

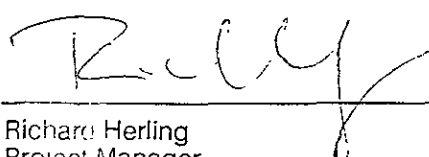
Lab Proj. ID: 9806B33

Reported: 07/01/98

## LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 5 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL



Richard Herling  
Project Manager