EXXON COMPANY, U.S.A.

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

MARLA D. GUENSLER
SENIOR ENGINEER

(510) 246-8776
(510) 246-8798 FAX

sample well MW-8
and not MW-6 for next qtr (Apr '98)

98 MAR 20 PM 2:47

March 16, 1997

Ms. Juliet Shin
Alameda County Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway
Alameda, California 94502-6577

RE: EXXON RAS #7-0104/1725 Park Street, Alameda, California

Dear Ms. Shin:

Attached for your review and comment is a report entitled *Quarterly Ground Water Monitoring Report, Fourth Quarter 1997 and First Quarter 1998* for the above referenced site. This report was prepared by Delta Environmental Consultants, Inc., of Rancho Cordova, California, and details the results of the October 1997 and January 1998 ground water monitoring and sampling events.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,

Marla D. Guensler
Senior Engineer

MDG/tjm

attachment: Delta's *Quarterly Ground Water Monitoring Report, Fourth Quarter 1997 and First Quarter 1998,* dated March 13, 1998

cc: w/attachment
Mr. Richard Hiett - California Regional Water Quality Control Board, San Francisco Bay Region
Mr. Larry Seto - Alameda County Department of Environmental Health

w/o attachment
Mr. Richard D. Munsch - Delta Environmental Consultants, Inc.

Delta
Environmental
Consultants, Inc.

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

March 13, 1998

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

Subject: *Quarterly Ground Water Monitoring Report, Fourth Quarter 1997 and First Quarter 1998*
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California
Delta Project No. D094-832

Dear Ms. Guensler:

Delta Environmental Consultants, Inc. (Delta), has been authorized by Exxon Company, U.S.A. (Exxon), to conduct quarterly ground water monitoring and remediation activities at Exxon Service Station No. 7-0104, located at 1725 Park Street, Alameda, California. This report presents the results of quarterly ground water monitoring conducted on October 8, 1997, and January 28, 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.

Ground Water Elevation Measurements, Flow Direction, and Hydraulic Gradient

Depth to ground water was measured on October 8, 1997, in monitoring wells MW-6 and MW-11 only because these were the two wells required to be sampled during the fourth quarter 1997. Depth to ground water was measured in monitoring wells MW-1 through MW-9, MW-11, and MW-12, and recovery wells EW-1 through EW-5 on January 28, 1998. Depth to ground water could not be measured in monitoring well MW-10 because the well appears to have been inadvertently destroyed by a consultant for an adjacent site. Delta is still in the process of discussing replacement of the well with the consultant. On January 28, 1998, depth to ground water in the measured wells ranged from 3.06 (MW-7) to 5.66 (MW-9) feet below the top of the well casings. Ground water elevations in the measured monitoring wells increased approximately 3.5 feet from the July 1997 measurements. Cumulative ground water level measurements collected by Delta are presented in Table 1. Historical ground water monitoring and sampling data collected by previous consultants (June 7, 1988 through February 25, 1994) are presented in Enclosure B.

A ground water elevation contour map constructed from the ground water level measurements recorded on January 28, 1998, is included as Figure 3. The contour map indicates a ground water flow direction toward the east with a component radially away from recovery well EW-4. During the monitoring event, the soil vapor extraction system was in operation, but the ground water treatment system was

not operating. The historical ground water flow direction is toward the east when the ground water treatment system is not operating.

Subjective Analysis

Liquid-phase petroleum hydrocarbons were not observed in any of the measured monitoring wells during the fourth quarter 1997 and first quarter 1998 site visits.

Monitoring Well Sampling and Analytical Results

The Alameda County Health Services (ACHS) authorized a reduction in sampling at the site. This reduction requires monitoring wells MW-6 and MW-11 to be sampled quarterly; monitoring wells MW-1, MW-2, MW-4, MW-5, MW-7, and MW-10 to be sampled semi-annually during the first and third quarters, and the discontinuation of sampling monitoring wells MW-3, MW-8, MW-9, and MW-12, and extraction wells EW-1 through EW-5. A copy of the ACHS letter is included in Enclosure C. ACHS requested a one-time analysis for methyl tertiary butyl ether (MTBE) by EPA Method 8260 on samples collected from monitoring wells MW-2, MW-5, and MW-11; which was performed during the first quarter 1997 monitoring event.

Ground water samples were collected from monitoring wells MW-6 and MW-11 on October 8, 1997, and from MW-1, MW-2, MW-4 through MW-7, and MW-11 on January 28, 1998. A ground water sample could not be collected from monitoring well MW-10 because the well was inadvertently destroyed by a consultant for the site located immediately northeast of the Exxon site, on November 12, 1997. Delta is currently in negotiations with the consultant regarding replacement of monitoring well MW-10. The ground water samples were submitted to Sequoia Analytical (a California-certified laboratory) for analyses of benzene, toluene, ethylbenzene, total xylenes (BTEX) by EPA Method 8020, and total purgeable petroleum hydrocarbons (TPPH) as gasoline by EPA Method 8015 Modified. In addition, the ground water samples collected from monitoring wells MW-6 and MW-11 on October 8, 1997 were analyzed for oxygenate compounds (ethanol, t-butanol, MTBE, diisopropyl ether, ethyl t-butyl ether, and t-amyl methyl ether) by EPA Method 8260. The ground water samples collected on January 28, 1998 were analyzed for MTBE using EPA Method 8260. Cumulative analytical results for the ground water samples collected to date by Delta are summarized in Table 1. A copy of the laboratory analytical reports and chain-of-custody documentation for the ground water samples collected on October 8, 1997, and January 28, 1998 are presented in Enclosure D. A summary of historical analytical results for ground water samples collected by previous consultants (June 7, 1988 through February 25, 1994) is presented in Enclosure B.

The analytical results for the ground water samples collected from monitoring wells MW-6 and MW-11 during the October 1997 monitoring event reported TPPH as gasoline at concentrations of 51,000 micrograms per liter (µg/L) and 42,000 µg/L, respectively, and benzene at concentrations of 870 µg/L and 1,700 µg/L, respectively. MTBE was reported as the only detectable oxygenate compound in the ground water samples collected from monitoring wells MW-6 and MW-11. MTBE was reported at concentrations of 700 µg/L and 1,300 µg/L, respectively.

The analytical results for the ground water samples collected from monitoring wells MW-1, MW-2, MW-4 through MW-7, and MW-11, on January 28, 1998, reported benzene concentrations ranging from 1.0 µg/L (MW-7) to 5,600 µg/L (MW-2), TPPH as gasoline concentrations ranging from

100 µg/L (MW-7) to 35,000 µg/L (MW-11) and MTBE was reported at concentrations ranging from below the laboratory's limits of detection (MW-1) to 28,000 µg/L (MW-2). A dissolved benzene concentration map based on analytical results for ground water samples collected on January 28, 1998, is included as Figure 4.

Ground Water Remediation System Status

The ground water remediation system is sampled on a monthly basis, as required in the discharge permit issued by the East Bay Municipal Utility District (EBMUD). Influent, mid-carbon, and effluent water samples are collected for analyses of BTEX by EPA Method 5030/8020, and TPPH as gasoline by EPA Method 8015 Modified. As per the discharge permit, the ground water remediation system analytical sampling results are presented in semi-annual reports to EBMUD.

Future Work

The next quarterly monitoring event for this site is scheduled for April 1998, at which time monitoring wells MW-6 and MW-11 will be sampled. Monitoring wells MW-1, MW-2, MW-4 through MW-7, MW-10 (if the replacement well has been installed), and MW-11 will be sampled during July 1998. Delta anticipates continuing operation of the ground water remediation system.

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

Mr. Richard Hiett
Regional Water Quality Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Mr. Larry Seto
Alameda County Department of Environmental Health
Hazardous Material Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Ms. Juliet Shin
Alameda County Department of
Environmental Health Hazardous
Material Division
1131 Harbor Bay Parkway
Alameda, California 94502-6577

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.

If you have any questions regarding this project, please contact Richard Munsch at (916) 638-2085.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Michael A. Berrington
Project Geologist

Richard D. Munsch
Project Manager

Steven W. Meeks
California Registered Civil Engineer No. C057461

MAB (LRP015.832)
Enclosures

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-1	09/12/94	17.35	7.11	10.24	200	1.9	210	6.6	1,600[a]	NA	NA	No LPH or sheen
	10/01/94		7.44	9.91	200	<0.5	160	6.6	1,400[a]	NA	NA	No LPH or sheen
	01/13/95		5.13	12.22	410[b]	17	280[b]	89	2,100[a]	NA	NA	No LPH or sheen
	04/27/95		6.57	10.78	460	41	340	270	4,700	NA	NA	No LPH or sheen
	08/03/95		7.46	9.89	140	<5.0	160	9.9	1,900	30	NA	No LPH or sheen
	10/17/95		7.67	9.68	6.2	<0.5	13	0.75	280	5.5	NA	No LPH or sheen
	01/24/96		6.52	10.83	21	1.4	38	3.1	740	440	NA	No LPH or sheen
	04/24/96		5.95	11.40	200	110	1,000	740	7,800	250	NA	No LPH or sheen
	07/26/96		7.60	9.75	8.0	0.99	26	1.0	620	23	NA	No LPH or sheen
	10/30/96		8.06	9.29	14	2.9	85	3.5	700	33	NA	No LPH or sheen
	01/31/97		5.12	12.23	420	33	1,400	480	7,600	<200	NA	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		7.54	9.81	10	<0.5	<0.5	<0.5	580	12	NA	No LPH or sheen
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		4.48	12.87	110	2.8	170	14	820	<2.5[c]	NA	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-2	09/12/94	16.67	6.71	9.96	4,400	120	1,700	2,100	31,000[a]	NA	NA	No LPH or sheen
	10/01/94		7.22	9.45	4,500	250	1,800	2,400	45,000[a]	NA	NA	No LPH or sheen
	01/13/95		4.46	12.22	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	04/27/95		6.92	9.75	7,000	840	2,400	3,400	44,000	NA	NA	No LPH or sheen
	08/03/95		6.96	9.71	4,600	170	1,600	1,100	30,000	37,000	NA	No LPH or sheen
	10/17/95		7.83	8.84	5,400	190	2,000	1,500	45,000	14,000	NA	No LPH or sheen
	01/24/96		6.45	10.22	5,000	810	2,200	2,200	30,000	4,100	NA	No LPH or sheen
	04/24/96		6.00	10.67	8,700	410	2,200	2,000	34,000	22,000	NA	No LPH or sheen
	07/26/96		7.14	9.53	10,000	<200	1,800	760	40,000	18,000	NA	No LPH or sheen
	10/30/96		6.95	9.72	9,100	<250	2,400	730	43,000	18,000	NA	No LPH or sheen
	01/31/97		5.07	11.60	2,400	630	1,500	3,300	28,000	8,000[c]	NA	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		7.34	9.33	2,900	82	1,500	530	18,000	2,600	NA	No LPH or sheen
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		4.46	12.21	5,600	410	1,500	720	29,000	28,000[c]	NA	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-3	09/12/94	17.11	6.58	10.53	580	8	340	100	3,100[a]	NA	NA	No LPH or sheen
	10/01/94		6.85	10.26	640	11	230	130	3,800[a]	NA	NA	No LPH or sheen
	01/13/95		5.27	11.84	690	24	210	130	3,800[a]	NA	NA	No LPH or sheen
	04/27/95		6.05	11.06	940	35	810	530	7,500	NA	NA	No LPH or sheen
	08/03/95		6.71	10.40	380	<5.0	140	45	1,900	24	NA	No LPH or sheen
	10/17/95		7.46	9.65	950	29	230	190	6,100	<5.0	NA	No LPH or sheen
	01/24/96		5.83	11.28	730	15	190	110	3,000	<100	NA	No LPH or sheen
	04/24/96		5.38	11.73	1,200	130	1,000	1,400	11,000	<100	NA	No LPH or sheen
	07/26/96		6.80	10.31	800	16	24	56	2,500	250	NA	No LPH or sheen
	10/30/96		7.20	9.91	1,300	28	170	180	5,200	2,900	NA	No LPH or sheen
	01/31/97		4.31	12.80	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		4.03	13.08	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-4	09/12/94	17.34	6.80	10.54	900	57	310	490	5,200[a]	NA	NA	No LPH or sheen
	10/01/94		7.09	10.25	1,200	66	360	380	9,100[a]	NA	NA	No LPH or sheen
	01/13/95		4.66	12.68	1,300	200	550	1,000	25,000[a]	NA	NA	No LPH or sheen
	04/27/95		5.54	11.80	650	130	350	590	5,900	NA	NA	No LPH or sheen
	08/03/95		6.92	10.42	1,000	<12	170	140	4,200	5,700	NA	No LPH or sheen
	10/17/95		7.50	9.84	1,300	30	360	380	6,900	1,700	NA	No LPH or sheen
	01/24/96		5.81	11.53	1,900	46	290	330	6,300	830	NA	No LPH or sheen
	04/24/96		5.44	11.90	1,800	<20	190	130	5,000	1,600	NA	No LPH or sheen
	07/26/96		7.03	10.31	1,700	<25	340	280	9,100	1,200	NA	No LPH or sheen
	10/30/96		7.57	9.77	1,100	35	420	300	5,300	1,500	NA	No LPH or sheen
	01/31/97		4.22	13.12	1,200	28	490	130	6,500	40,000	NA	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		7.56	9.78	1,100	120	470	720	10,000	11,000	NA	No LPH or sheen
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		3.70	13.64	450	6.8	220	73	1,700	4,900[c]	NA	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-5	09/12/94	16.71	7.12	9.59	2,300	17	320	230	10,000[a]	NA	NA	No LPH or sheen
	10/01/94		7.06	9.65	2,300	19	220	200	11,000[a]	NA	NA	Sheen
	01/13/95		4.85	11.88	NS	NS	NS	NS	NS	NS	NS	LPH thickness of 0.02'
	04/27/95		6.51	10.20	2,200	72	540	350	14,000	NA	NA	No LPH or sheen
	08/03/95		7.24	9.47	2,100	<100	210	<100	<10,000	39,000	NA	No LPH or sheen
	10/17/95		7.80	8.91	1,800	14	240	170	13,000	38,000	NA	No LPH or sheen
	01/24/96		6.66	10.05	2,400	79	340	190	10,000	20,000	NA	No LPH or sheen
	04/24/96		5.80	10.91	3,700	120	520	170	13,000	33,000	NA	No LPH or sheen
	07/26/96		7.67	9.04	3,400	53	280	76	15,000	140,000	NA	No LPH or sheen
	10/30/96		7.77	8.94	2,600	76	260	150	10,000	110,000[a]	NA	No LPH or sheen
	01/31/97		4.90	11.81	2,400	66	430	140	10,000	34,000[c]	NA	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		7.65	9.06	1,400	120	190	120	9,800	36,000/ 52,000[c]	NA	No LPH or sheen
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		3.95	12.76	1,500	34	73	57	6,500	15,000[c]	NA	No LPH or sheen

TABLE 1

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Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-6	09/12/94	17.56	6.88	10.68	150	4.4	170	85	1,500[a]	NA	NA	No LPH or sheen
	10/01/94		7.15	10.41	120	<0.5	99	38	87[a]	NA	NA	No LPH or sheen
	01/13/95		4.80	12.76	710	220	780	1,100	9,900[a]	NA	NA	No LPH or sheen
	04/27/95		6.14	11.42	340	40	460	320	3,900	NA	NA	No LPH or sheen
	08/03/95		6.83	10.73	89	<2.5	110	63	1,100	65	NA	No LPH or sheen
	10/17/95		7.66	9.90	410	74	850	110	8,500	<5.0	NA	No LPH or sheen
	01/24/96		5.86	11.70	560	1,500	2,200	7,500	31,000	<5.0	NA	No LPH or sheen
	04/24/96		5.39	12.17	460	570	1,400	3,300	15,000	280	NA	No LPH or sheen
	07/26/96		6.97	10.59	270	660	1,600	5,500	27,000	1,300	NA	No LPH or sheen
	10/30/96		7.45	10.11	490	440	1,800	6,200	28,000	900	NA	No LPH or sheen
	01/31/97		4.30	13.26	190	1,000	380	1,400	7,000	770	NA	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		7.57	9.99	200	<50	300	860	6,800	1,100	NA	No LPH or sheen
	10/08/97		7.48	10.08	870	7,300	2,600	12,000	51,000	580	700[c]	No LPH or sheen
	01/28/98		3.74	13.82	650	2,300	900	2,700	15,000	2,400[c]	NA	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-7	09/12/94	17.12	6.43	10.69	490	50	280	70	6,000[a]	NA	NA	No LPH or sheen
	10/01/94		6.71	10.41	940	670	310	160	8,900[a]	NA	NA	No LPH or sheen
	01/13/95		4.29	12.83	590	780	970	4,200	20,000[a]	NA	NA	No LPH or sheen
	04/27/95		5.00	12.12	410	32	410	230	8,800	NA	NA	No LPH or sheen
	08/03/95		6.53	10.59	390	<50	290	<50	4,900	17,000	NA	No LPH or sheen
	10/17/95		7.23	9.89	530	26	240	25	6,700	17,000	NA	No LPH or sheen
	01/24/96		5.26	11.86	2,000	390	350	230	9,300	60,000	NA	No LPH or sheen
	04/24/96		5.06	12.06	2,400	850	150	130	9,000	360,000	NA	No LPH or sheen
	07/26/96		6.62	10.50	530	25	60	46	4,800	86,000	NA	No LPH or sheen
	10/30/96		7.09	10.03	180	9.8	58	38	3,400	28,000	NA	No LPH or sheen
	01/31/97		3.65	13.47	300	18	48	37	3,800	45,000	NA	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		7.44	9.68	70	<25	<25	<25	3,500	18,000	NA	No LPH or sheen
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		3.06	14.06	1.0	<0.5	<0.5	0.67	100	250[c]	NA	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-8	09/12/94	16.33	6.42	9.91	<0.5	<0.5	<0.5	<0.5	<50[a]	NA	NA	No LPH or sheen
	10/01/94		6.62	9.71	<0.5	<0.5	<0.5	<0.5	<50[a]	NA	NA	No LPH or sheen
	01/13/95		5.25	11.08	<0.5	<0.5	<0.5	<0.5	<50[a]	NA	NA	No LPH or sheen
	04/27/95		6.00	10.33	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No LPH or sheen
	08/03/95		6.28	10.05	<0.5	<0.5	<0.5	<0.5	<50	<2.5	NA	No LPH or sheen
	10/17/95		6.93	9.40	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	01/24/96		5.71	10.62	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	04/24/96		5.52	10.81	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	07/26/96		6.27	10.06	<0.5	<0.5	<0.5	<0.5	<50	230	NA	No LPH or sheen
	10/30/96		6.69	9.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	01/31/97		5.18	11.15	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		5.11	11.22	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-9	09/12/94	15.62	6.84	8.78	<0.5	<0.5	<0.5	<0.5	<50[a]	NA	NA	No LPH or sheen
	10/01/94		6.97	8.65	<0.5	<0.5	<0.5	<0.5	<50[a]	NA	NA	No LPH or sheen
	01/13/95		6.18	9.44	<0.5	<0.5	<0.5	<0.5	<50[a]	NA	NA	No LPH or sheen
	04/27/95		6.58	9.04	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No LPH or sheen
	08/03/95		6.72	8.90	<0.5	<0.5	<0.5	<0.5	<50	<2.5	NA	No LPH or sheen
	10/17/95		7.09	8.53	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	01/24/96		6.46	9.16	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	04/24/96		6.43	9.19	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	07/26/96		6.80	8.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	10/30/96		6.94	8.68	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	01/31/97		6.10	9.52	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		5.66	9.96	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-10	09/12/94	16.79	7.04	9.75	<0.5	<0.5	1.6	<0.5	71[a]	NA	NA	No LPH or sheen
	10/01/94		7.30	9.49	1.1	<0.5	2.8	0.73	330[a]	NA	NA	No LPH or sheen
	01/13/95		6.04	10.75	<0.5	<0.5	<0.5	<0.5	90[a]	NA	NA	No LPH or sheen
	04/27/95		6.66	10.13	<0.5	<0.5	5.4	1.3	140	NA	NA	No LPH or sheen
	08/03/95		7.23	9.56	<0.5	<0.5	<0.5	<0.5	150	<2.5	NA	No LPH or sheen
	10/17/95		7.93	8.86	<0.5	<0.5	<0.5	<0.5	<50	95	NA	No LPH or sheen
	01/24/96		6.43	10.36	1.6	0.52	62	28	760	24	NA	No LPH or sheen
	04/24/96		6.42	10.37	<0.5	<0.5	7.1	<0.5	110	6.8	NA	No LPH or sheen
	07/26/96		7.47	9.32	<0.5	<0.5	12	0.86	140	<5.0	NA	No LPH or sheen
	10/30/96		7.88	8.91	<0.5	<0.5	<0.5	<0.5	<50	5.6	NA	No LPH or sheen
	01/31/97		5.88	10.91	<0.5	<0.5	<0.5	<0.5	<50	10	NA	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		7.32	9.47	<0.5	<0.5	<0.5	<0.5	<50	<2.5	NA	No LPH or sheen
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured

Well destroyed on November 12, 1997

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
MW-11	10/17/95	18.04	7.72	10.32	3,800	150	950	4,500	34,000	890	NA	No LPH or sheen
	01/24/96		5.97	12.07	3,800	1,200	2,100	9,800	44,000	<500	NA	No LPH or sheen
	04/24/96		5.84	12.20	2,900	1,400	1,700	8,300	34,000	720	NA	No LPH or sheen
	07/26/96		6.98	11.06	4,600	4,200	950	9,500	39,000	800	NA	No LPH or sheen
	10/30/96		7.54	10.50	4,200	3,600	2,100	9,600	53,000	990	NA	No LPH or sheen
	01/31/97		5.00	13.04	170	2,500	940	4,300	23,000	310[c]	NA	No LPH or sheen
	04/10/97		NM	NC	1,200	440	970	6,400	29,000	200	NA	No LPH or sheen
	07/10/97		7.30	10.74	1,700	870	1,900	12,000	42,000	690	NA	No LPH or sheen
	10/08/97		7.62	10.42	1,700	2,500	1,400	9,900	42,000	1,100	1,300[c]	No LPH or sheen
	01/28/98		4.77	13.27	2,400	3,500	1,700	7,900	35,000	6,800[c]	NA	No LPH or sheen
MW-12	10/17/95	16.30	6.38	9.92	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	01/24/96		4.86	11.44	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	04/24/96		4.46	11.84	<0.5	0.68	<0.5	0.72	<50	<5.0	NA	No LPH or sheen
	07/26/96		5.90	10.40	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	10/30/96		6.56	9.74	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	01/31/97		4.57	11.73	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		3.90	12.40	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
EW-1	09/12/94	16.22	6.13	10.09	40	<0.5	10	5.4	400[a]	NA	NA	No LPH or sheen
	10/01/94		7.63	8.59	<0.5	4.4	30	11	3,400[a]	NA	NA	No LPH or sheen
	01/13/95		11.46	4.76	40	<0.5	12	16	680[a]	NA	NA	No LPH or sheen
	04/27/95		15.47	0.75	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	08/03/95		13.85	2.37	2.7	<1.2	<1.2	<1.2	<125	590	NA	No LPH or sheen
	10/17/95		8.05	8.17	220	<0.5	160	36	3,600	400	NA	No LPH or sheen
	01/24/96		11.07	5.15	4.3	<0.5	1.3	0.53	64	260	NA	No LPH or sheen
	04/24/96		6.20	10.02	130	2.3	35	2.1	740	3,000	NA	No LPH or sheen
	07/26/96		13.93	2.29	<0.5	<0.5	<0.5	<0.5	<50	960	NA	No LPH or sheen
	10/30/96		13.74	2.48	0.52	<0.5	<0.5	<0.5	<50	5,300	NA	No LPH or sheen
	01/31/97		8.40	7.82	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		3.35	12.87	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
EW-2	09/12/94	16.05	6.09	9.96	2,000	79	180	290	8,800[a]	NA	NA	No LPH or sheen
	10/01/94		7.32	8.73	1,400	6.7	700	310	9,500[a]	NA	NA	No LPH or sheen
	01/13/95		14.38	1.67	930	270	21	280	5,700[a]	NA	NA	No LPH or sheen
	04/27/95		15.23	0.82	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	08/03/95		7.19	8.86	170	27	36	64	830	1,600	NA	No LPH or sheen
	10/17/95		18.97	-2.92	<0.5	<0.5	<0.5	5.1	180	3,600	NA	No LPH or sheen
	01/24/96		20.32	-4.27	290	82	14	170	1,700	6,400	NA	No LPH or sheen
	04/24/96		9.46	6.59	670	200	110	490	3,500	7,300	NA	No LPH or sheen
	07/26/96		16.50	-0.45	250	56	10	220	1,400	14,000	NA	No LPH or sheen
	10/30/96		20.30	-4.25	200	44	8.8	190	1,500	13,000	NA	No LPH or sheen
	01/31/97		19.21	-3.16	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		3.35	12.70	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
EW-3	09/12/94	16.02	6.12	9.96	44	5.9	12	31	300[a]	NA	NA	No LPH or sheen
	10/01/94		10.52	5.50	12	0.42	1.7	3.7	140[a]	NA	NA	No LPH or sheen
	01/13/95		18.13	-2.11	4.6	7.6	1.2	6.6	230[a]	NA	NA	No LPH or sheen
	04/27/95		23.07	-7.05	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	08/03/95		22.90	-6.88	<2.0	<2.0	<2.0	<2.0	<200	1,400	NA	No LPH or sheen
	10/17/95		22.87	-6.85	4.4	<0.5	<0.5	<0.5	74	2,400	NA	No LPH or sheen
	01/24/96		20.97	-4.95	16	<0.5	<0.5	<0.5	120	2,300	NA	No LPH or sheen
	04/24/96		18.10	-2.08	34	3.7	8.9	11	180	3,800	NA	No LPH or sheen
	07/26/96		13.14	2.88	45	0.7	<0.5	2.1	180	2,000	NA	No LPH or sheen
	10/30/96		9.24	6.78	60	8.2	<0.5	100	660	2,800	NA	No LPH or sheen
	01/31/97		11.10	4.92	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		3.42	12.60	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
EW-4	09/12/94	16.61	5.69	10.92	1,700	12	210	77	4,000[a]	NA	NA	No LPH or sheen
	10/01/94		7.90	8.71	100	1.5	15	11	460[a]	NA	NA	No LPH or sheen
	01/13/95		11.36	5.25	89	8.8	1.6	82	520[a]	NA	NA	No LPH or sheen
	04/27/95		16.30	0.31	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	08/03/95		6.45	10.16	3,100	1,100	2,000	8,200	42,000	17,000	NA	No LPH or sheen
	10/17/95		15.89	0.72	6.3	<0.5	<0.5	<0.5	92	2,500	NA	No LPH or sheen
	01/24/96		6.03	10.58	79	2.5	2.9	10	220	9,200	NA	No LPH or sheen
	04/24/96		4.97	11.64	49	36	69	1,100	4,600	860	NA	No LPH or sheen
	07/26/96		6.54	10.07	610	6.2	200	300	2,900	15,000	NA	No LPH or sheen
	10/30/96		6.53	10.08	68	11	<2.5	71	550	3,400	NA	No LPH or sheen
	01/31/97		3.98	12.63	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		3.22	13.39	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen

TABLE 1

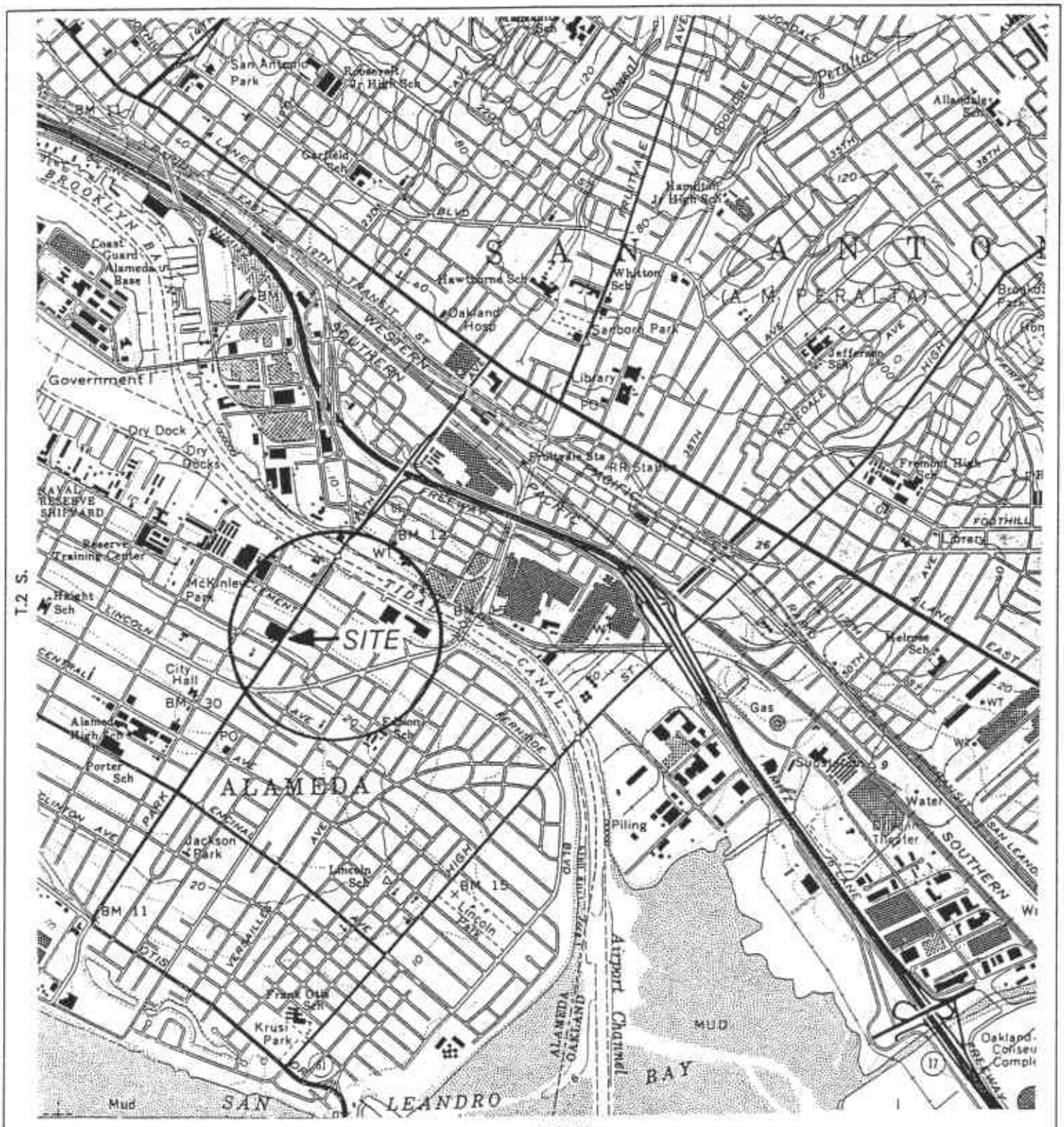
GROUND WATER MONITORING DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Reference Elevation (feet)	Depth to 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)	MTBE (µg/L)	Oxygenate Compounds (µg/L)	Comments
EW-5	09/12/94	16.51	6.30	10.21	26	1.7	11	12	180[a]	NA	NA	No LPH or sheen
	10/01/94		11.83	4.68	16	0.92	5.7	8.5	130[a]	NA	NA	No LPH or sheen
	01/13/95		12.54	3.97	0.6	0.8	0.6	2.9	130[a]	NA	NA	No LPH or sheen
	04/27/95		13.11	3.40	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	08/03/95		11.99	4.52	<0.5	<0.5	<0.5	<0.5	70	210	NA	No LPH or sheen
	10/17/95		13.43	3.08	1.5	<0.5	<0.5	3.0	78	50	NA	No LPH or sheen
	01/24/96		9.72	6.79	280	66	22	370	2,500	350	NA	No LPH or sheen
	04/24/96		8.13	8.38	690	240	380	1,300	6,400	400	NA	No LPH or sheen
	07/26/96		10.00	6.51	82	2.5	2.4	100	850	84	NA	No LPH or sheen
	10/30/96		9.82	6.69	110	5.1	2.2	120	1,200	68	NA	No LPH or sheen
	01/31/97		9.00	7.51	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen
	04/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	07/10/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	10/08/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	01/28/98		3.54	12.97	NS	NS	NS	NS	NS	NS	NS	No LPH or sheen

[a] Total volatile hydrocarbons by DHS /LUFT Manual Method.
[b] Results obtained from a 1:10 dilution analyzed on January 17, 1995.
[c] Methyl tertiary butyl ether by EPA Method 8260 (GC/MS)

Reference elevation = Elevation surveyed relative mean sea level.
Depth to ground water = Measured from notch/mark on north edge of well casing.
Ground water elevation = adjusted ground water elevations, based on the specific gravity of gasoline as 0.80.
Total purgeable petroleum hydrocarbons by EPA Method 8015 Modified or DHS LUFT Method or total petroleum hydrocarbons (TPH) by EPA Method 8015 Modified.
MTBE = Methyl tertiary butyl ether by EPA Method 8015 Modified except as otherwise noted.
Oxygenate compounds = Ethanol, t-butanol, MTBE, diisopropyl ether, ethyl-t-butyl ether, and t-amyl methyl by EPA Method 8260.
µg/L = Micrograms per liter.
LPH = Liquid-phase petroleum hydrocarbons.
NS = Not sampled.
NA = Not analyzed.
NM = Not measured.
NC = Not calculated.



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
OAKLAND EAST, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

North

QUADRANGLE LOCATION

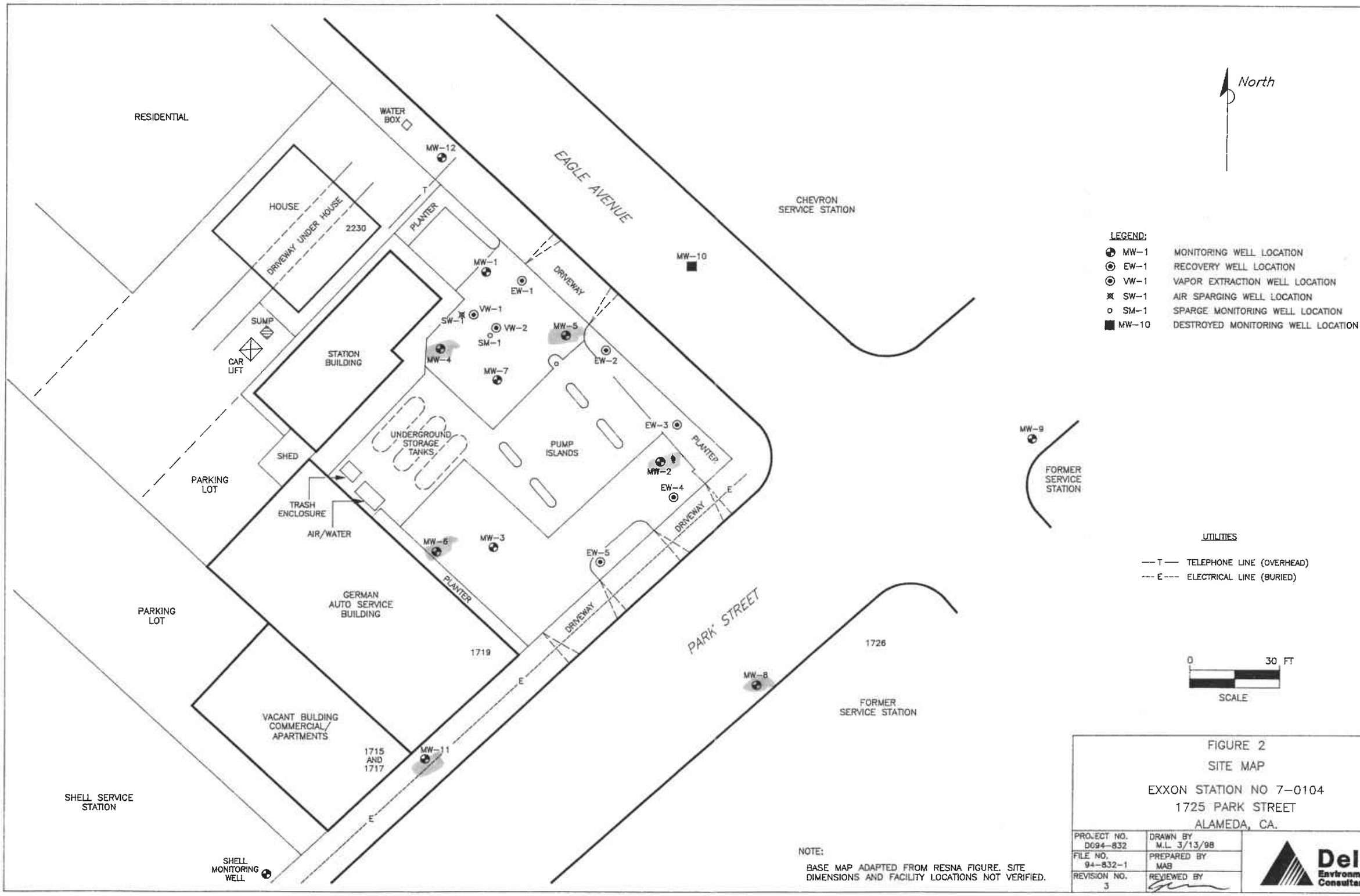
0 2000 FT

SCALE 1 : 24,000

FIGURE 1
SITE LOCATION MAP
EXXON STATION NO 7-0104
1725 PARK STREET
ALAMEDA, CA.

PROJECT NO. D094-832	DRAWN BY I.H. 9/27/94
FILE NO. ---	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY 10/5/94

Delta Environmental Consultants, Inc.



NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 2

SITE MAP

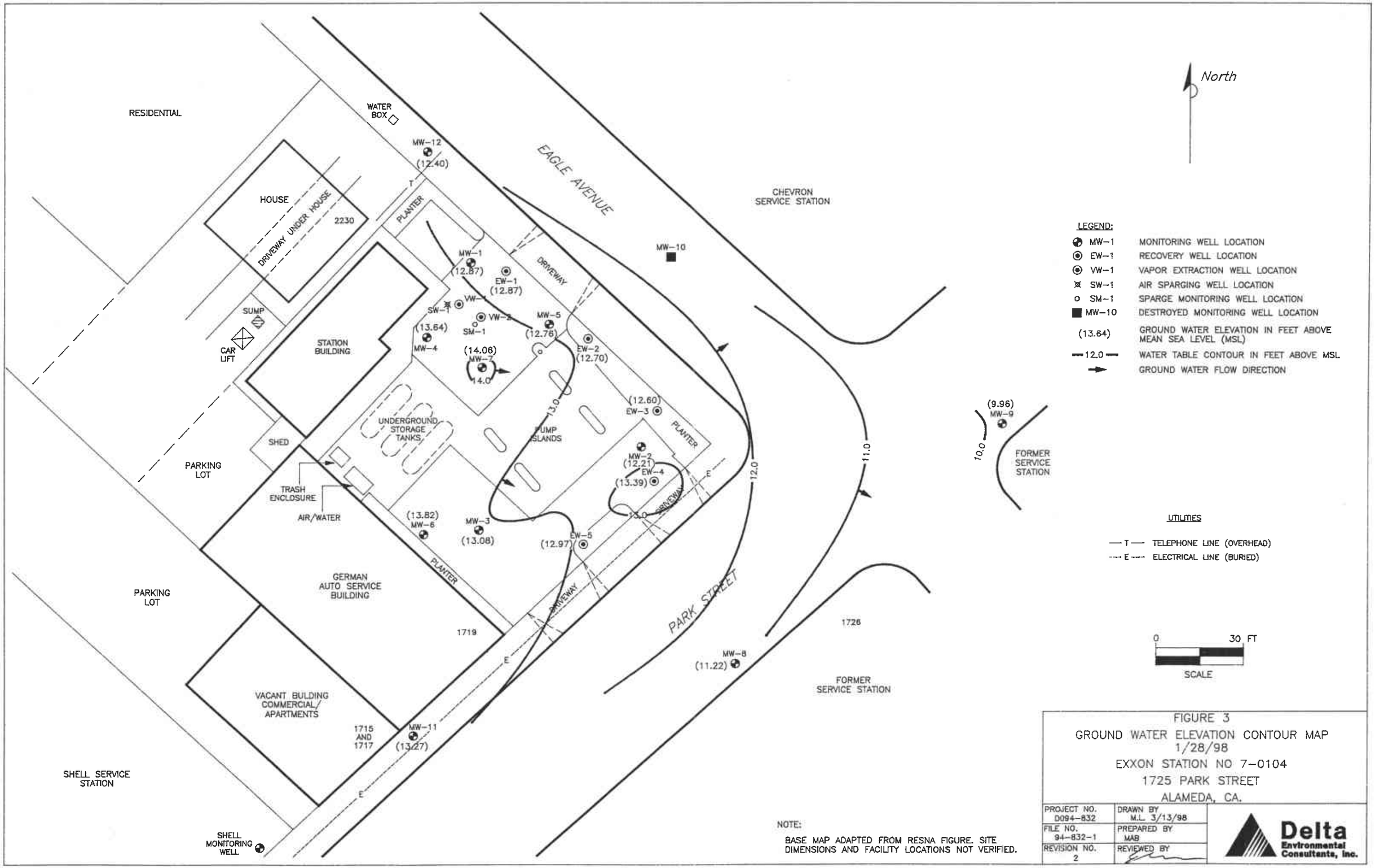
EXXON STATION NO 7-0104

1725 PARK STREET

ALAMEDA, CA.

PROJECT NO. D094-832	DRAWN BY M.L. 3/13/98
FILE NO. 94-832-1	PREPARED BY MAB
REVISION NO. 3	REVIEWED BY

Delta Environmental Consultants, Inc.



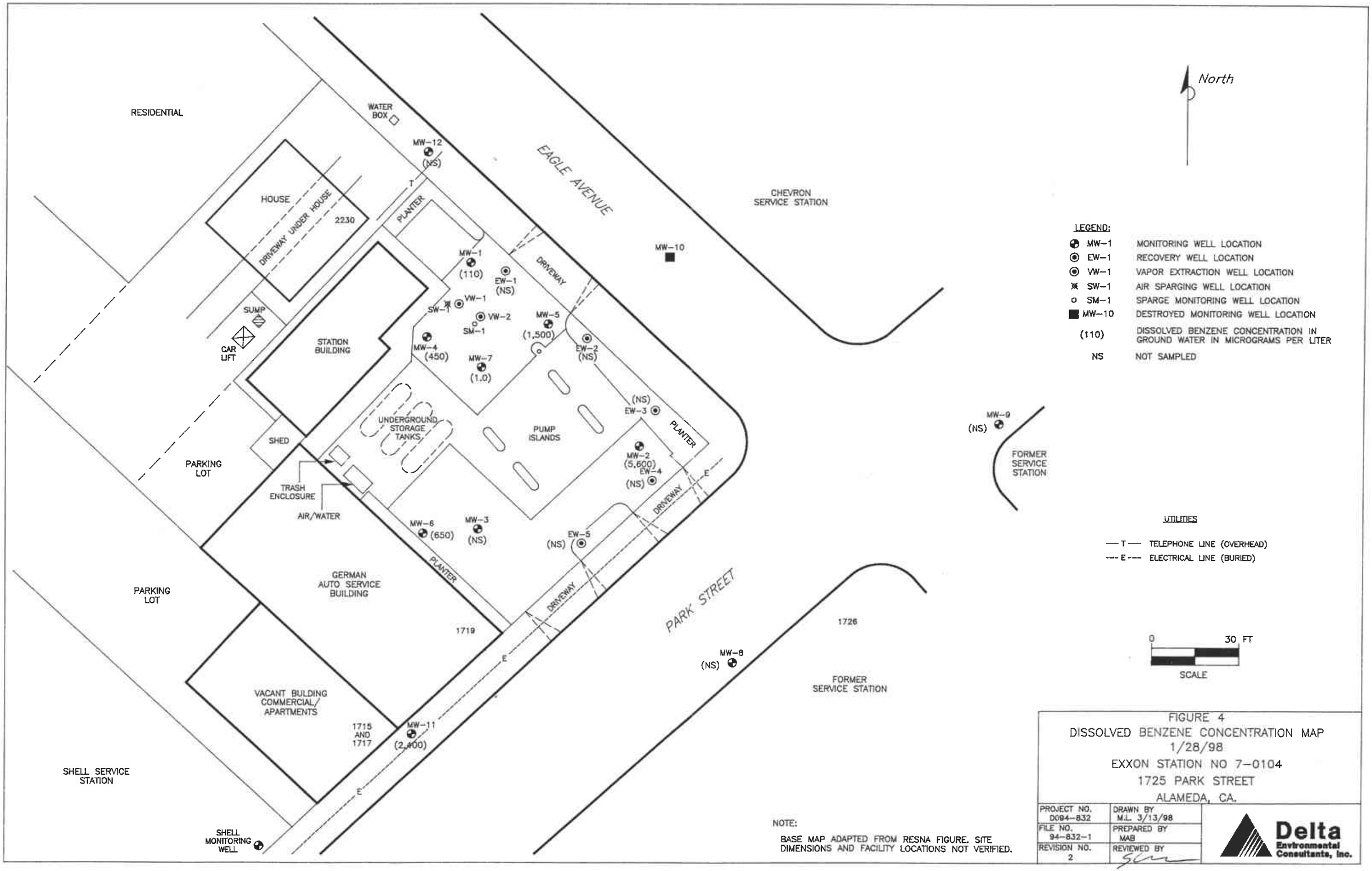
NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
1/28/98
EXXON STATION NO 7-0104
1725 PARK STREET
ALAMEDA, CA.

PROJECT NO. D094-832	DRAWN BY M.L. 3/13/98
FILE NO. 94-832-1	PREPARED BY MAB
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc.



NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 4
DISSOLVED BENZENE CONCENTRATION MAP
1/28/98
EXXON STATION NO 7-0104
1725 PARK STREET
ALAMEDA, CA.

PROJECT NO. 0094-832	DRAWN BY M.L. 3/13/98
FILE NO. 94-832-1	PREPARED BY MAB
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc.

FIELD METHODS AND PROCEDURES

1.0 GROUND WATER AND LIQUID-PHASE PETROLEUM HYDROCARBON DEPTH ASSESSMENT

A water/hydrocarbon interface probe was used to assess the liquid-phase hydrocarbon (LPH) thickness, if present, and a water level indicator was used to measure the 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 hydrocarbon sheen.

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 floating LPH and the appearance of a LPH sheen.

3.0 MONITORING WELL PURGING AND SAMPLING

Monitoring wells were purged using a centrifugal pump until three well volumes of water had been removed. Ground water removed from the wells was discharged to the sanitary sewer after treatment through the ground water remediation system located at the subject site. 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 ensure sample integrity. Ground water samples were transported to the laboratory and analyzed within the EPA-specified holding times for the requested analyses.

ENCLOSURE B

Historical Ground Water Level Data and Analytical Results
(June 7, 1988 through February 25, 1994)

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	..... >	<		parts per billion	.....	>
MW-1	06/07/88	NM	NM	—	27,000	5,000	77	1,100	2,700
(17.35)	06/10/88#	NLPH	6.35	11.00					
	01/17/89	NLPH	5.81	11.54	6,800	2,000	91	800	1,600
	01/24/89#	NLPH	5.16	12.19					
	06/01/89	sheen	6.27	11.08	1,700	170	6.9	13	230
	09/18/89	NLPH	7.11	10.24	2,100	9.0	53	18	130
	10/20/89#	NLPH	7.28	10.07					
	11/22/89#	NLPH	7.02	10.33					
	12/11/89	NLPH	6.60	10.75	5,800	200	42	290	330
	02/13/90#	NLPH	6.02	11.33					
	03/07/90a#	NM	NM	—					
	03/13/90	NLPH	5.91	11.44	2,300	430	14	16	220
	04/18/90#	NLPH	6.18	11.17					
	05/23/90#	NLPH	6.29	11.06					
	06/14/90	NLPH	6.19	11.28	32,000	1,400	19	<5	120
	08/21/90#	NLPH	7.03	10.32					
	09/19/90	NLPH	7.26	10.09	950	290	2.9	<0.5	27
	12/17/90	NLPH	6.75	10.60	2,100	550	13	350	110
	01/31/91#	NLPH	6.78	10.57					
	02/25/91#	NLPH	6.59	10.76					
	03/19/91	NLPH	5.85	11.50	1,400	900	45	390	150
	04/22/91#	sheen	5.72	11.63					
	05/17/91#	NLPH	6.00	11.35					
	07/24/91	NLPH	6.79	10.56	9,700	1,300	670	950	2,100
	09/10/91#	NLPH	7.25	10.10					
	09/23/91#	NLPH	7.33	10.02					
	10/21/91#	NLPH	7.53	9.82					
	10/22/91	NM	NM	—	540	220	1.8	110	7.8
	11/18/91#	NLPH	7.13	10.22					
	12/11/91#	NLPH	7.25	10.10					
	01/21/92	NLPH	6.54	10.81	1,800	650	23	300	64
	02/20/92#	NLPH	4.82	12.53					
	03/19/92#	NLPH	5.24	12.11					
	04/24/92	NLPH	5.71	11.64	4,900	1,600	78	660	250
	05/13/92#	NLPH	5.99	11.36					
	06/24/92#	NLPH	6.65	10.70					
	07/16/92	NLPH	6.72	10.63	3,400	1,000	11	550	100
	08/19/92#	NLPH	7.07	10.28					
	09/24/92	NLPH	7.36	9.99	3,700	1,300	21	330	<10
	02/05/93	NLPH	5.21	12.14	11,000	2,400	160	1,400	790
	04/30/93	NLPH	5.88	11.47	6,500	330	320	640	1,300
	05/14/93#	NLPH	7.22	10.13					

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	. . . . . >	<	parts per billion		. . . . .	>
MW-1 cont.	07/15/93	NLPH	8.01	9.34	7,600	270	62	1,100	1,000
(17.35)	10/21/93#	NM	7.83	9.52					
	11/16/93	NLPH	8.69	8.66	840	18	1.4	72	17
	11/30/93#	NM	8.38	8.69					
	12/17/93#	NM	7.42	9.93					
	01/31/93#	NM	6.37	10.98					
	02/24-25/94	NLPH	6.23	10.84	810	15	9.0	98	58
MW-2	06/07/88	—	---	---	110,000	12,000	12,000	2,100	12,000
(16.67)	06/10/88#	NLPH	6.20	10.47					
	01/17/89	NLPH	5.96	10.71	30,000	6,600	3,300	1,600	7,700
	01/24/89#	NLPH	5.04	11.63					
	06/01/89	sheen	6.32	10.35	8,700	330	280	680	1,200
	09/18/89	NLPH	6.73	9.94	17,000	580	280	570	220
	10/20/89#	NLPH	6.87	9.80					
	11/22/89#	NLPH	6.80	9.87					
	12/11/89	NLPH	6.57	10.10	32,000	1,000	850	310	1,200
	02/13/90#	NLPH	6.12	10.55					
	03/13/90	NLPH	6.02	10.65	39,000	3,500	1,500	2,100	3,900
	04/18/90#	NLPH	6.35	10.32					
	05/23/90#	NLPH	6.28	10.39					
	06/14/90	NLPH	6.14	10.53	34,000	3,800	730	1,600	3,900
	08/21/90#	NLPH	6.70	9.97					
	09/19/90	NLPH	6.84	9.83	63,000	670	180	390	1,000
	12/17/90	NLPH	6.46	10.21	140,000	3,700	2,500	3,000	8,300
	01/31/91#	sheen	6.66	10.01					
	02/25/91#	NLPH	6.50	10.17					
	03/19/91	sheen	5.76	10.91	48,000	4,500	1,600	2,100	5,500
	04/22/91#	NLPH	5.78	10.89					
	05/17/91#	NLPH	6.01	10.66					
	07/24/91	NLPH	6.43	10.24	49,000	3,500	2,200	2,000	6,400
	09/10/91#	NLPH	6.81	9.86					
	09/23/91#	NLPH	6.82	9.85					
	10/21/91#	NLPH	7.01	9.66					
	10/22/91	—	---	---	34,000	3,700	1,100	1,800	5,200
	11/18/91#	NLPH	6.66	10.01					
	12/11/91#	NLPH	6.85	9.82					
	01/21/92	NLPH	6.22	10.45	21,000	4,600	1,300	1,700	5,100
	02/20/92#	NLPH	5.28	11.39					
	03/19/92#	NLPH	5.34	11.33					
	04/24/92	sheen	5.75	10.92	36,000	5,000	970	2,300	5,200
	05/13/92#	NLPH	5.95	10.72					

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		< ..... feet ..... >			< ..... parts per billion ..... >				
MW-2 cont.	06/24/92#	NLPH	6.39	10.28					
(16.67)	07/16/92	sheen	6.50	10.17	42,000	3,500	490	1,800	3,700
	08/19/92#	NLPH	6.69	9.98					
	09/24/92	sheen	6.74	9.93	26,000	3,600	670	1,700	3,300
	02/05/93#	0.01	5.56	11.10					
	04/30/93	sheen	5.78	10.89	280,000	11,000	6,500	5,500	160,000
	05/14/93#	NA	NA	—					
	07/15/93#	0.01	7.89	8.79					
	10/21/93#	NM	7.24	9.43					
	11/16/93#	0.02	8.37	8.32					
	11/30/93#	NM	7.93	8.74					
	12/17/93#	NM	7.74	8.93					
	01/31/94#	NM	6.32	10.35					
	02/24-25/94	NLPH	6.93	9.74	51,000	11,000	1,700	2,700	5,500
MW-3	06/07/88	NM	NM	—	28,000	6,000	80	940	1,900
(17.11)	06/10/88#	NLPH	6.05	11.06					
	01/17/89	NLPH	5.49	11.62	5,300	2,500	230	590	1,100
	01/24/89#	NLPH	5.38	11.73					
	06/01/89	NLPH	5.96	11.15	5,400	330	300	570	680
	09/18/89	NLPH	6.65	10.46	12,000	680	170	350	860
	10/20/89#	NLPH	6.88	10.23					
	11/22/89#	NLPH	6.74	10.37					
	12/11/89	NLPH	6.37	10.74	14,000	1,100	150	670	690
	02/13/90#	NLPH	5.58	11.53					
	03/13/90	NLPH	5.48	11.63	18,000	6,300	200	1,100	1,100
	04/18/90#	NLPH	6.01	11.10					
	05/23/90#	NLPH	6.14	10.97					
	06/14/90	NLPH	5.83	11.28	9,500	1,300	880	310	1,800
	08/21/90#	NLPH	6.67	10.44					
	09/19/90	NLPH	6.88	10.23	16,000	5,000	65	1,500	450
	12/17/90	NLPH	6.46	10.65	6,700	1,500	64	650	460
	01/31/91#	NLPH	6.24	10.87					
	02/25/91#	NLPH	6.18	10.93					
	03/19/91	NLPH	5.35	11.76	18,000	4,200	2,100	1,100	1,200
	04/22/91#	NLPH	5.72	11.39					
	05/17/91#	NLPH	5.55	11.56					
	07/24/91	NLPH	6.41	10.70	38,000	6,200	990	2,900	9,600
	09/10/91#	NLPH	6.80	10.31					
	09/23/91#	NLPH	6.80	10.31					
	10/21/91#	NLPH	7.09	10.02					
	10/22/91	NM	NM	—	23,000	3,400	150	2,500	4,400

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	>	<	parts per billion			>
MW-3 cont.	11/18/91#	NLPH	6.74	10.37					
(17.11)	12/11/91#	NLPH	6.79	10.32					
	01/21/92	NLPH	6.16	10.95	13,000	2,700	30	1,800	740
	02/20/92#	NLPH	4.89	12.22					
	03/19/92#	NLPH	4.85	12.26					
	04/24/92	NLPH	5.28	11.83	17,000	4,200	170	1,600	600
	05/13/92#	NLPH	5.58	11.53					
	06/24/92#	NLPH	6.22	10.89					
	07/16/92	NLPH	6.36	10.75	11,000	2,700	230	1,100	570
	08/19/92#	NLPH	6.65	10.46					
	09/24/92	NLPH	6.93	10.18	7,100	2,000	44	1,000	220
	02/05/93	NLPH	4.71	12.40	13,000	3,600	110	1,300	430
	04/30/93	NLPH	5.46	11.65	13,000	1,600	370	1,600	1,800
	05/14/93#	NLPH	6.53	10.58					
	07/15/93	NLPH	7.28	9.83	2,100	310	15	230	58
	10/21/93#	NM	7.42	9.69					
	11/16/93	NLPH	8.02	9.09	4,000	400	400	120	490
	11/30/93	—	7.79	9.32	—	—	—	—	—
	12/17/93#	NM	7.13	9.98					
	01/31/94#	NM	6.32	10.79					
	02/24-25/94	NLPH	6.04	11.07	3,300	280	52	150	400
MW-4	01/17/89	NLPH	5.36	11.98	19,000	1,000	1,500	360	2,200
(17.34)	01/24/89#	NLPH	5.46	11.88					
	06/01/89	NLPH	6.01	11.33	3,600	180	240	63	810
	09/18/89	NLPH	6.80	10.54	6,000	290	200	28	510
	10/20/89#	NLPH	7.08	10.26					
	11/22/89#	NLPH	6.82	10.52					
	12/11/89	NLPH	6.37	10.97	13,000	750	910	510	1,200
	02/13/90#	NLPH	5.49	11.85					
	03/07/90a#	NM	NM	—					
	03/13/90	NLPH	5.44	11.90	12,000	1,500	1500	470	28,000
	04/18/90#	NLPH	6.14	11.20					
	05/23/90#	NLPH	6.22	11.12					
	06/14/90	NLPH	5.92	11.42	12,000	5,700	400	1,300	760
	08/21/90#	NLPH	6.83	10.51					
	09/19/90	NLPH	7.07	10.27	5,500	670	180	390	1,000
	12/17/90	NLPH	6.50	10.84	14,000	1,400	620	540	2,100
	01/31/91#	NLPH	6.66	10.68					
	02/25/91#	NLPH	6.21	11.13					
	03/19/91	NLPH	5.29	12.05	11,000	1,500	740	620	2,100
	04/22/91#	NLPH	5.26	12.08					

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	. . . . . >	<	parts per billion			. . . . . >
MW-4 cont.	05/17/91#	NLPH	5.60	11.74					
(17.34)	07/24/91	NLPH	6.54	10.80	10,000	1,200	440	410	1,200
	09/10/91#	NLPH	7.04	10.30					
	09/23/91#	NLPH	7.14	10.20					
	10/21/91#	sheen	7.30	10.04					
	10/22/91	—	—	—	4,600	750	190	350	780
	11/18/91#	NLPH	6.90	10.44					
	12/11/91#	NLPH	7.01	10.33					
	01/21/92	NLPH	6.25	11.09	6,000	1,300	320	510	1,200
	02/20/92#	NLPH	4.79	12.55					
	03/19/92#	NLPH	4.70	12.64					
	04/24/92	sheen	5.25	12.09	11,000	1,700	630	710	1,600
	05/13/92#	sheen	5.62	11.72					
	06/24/92#	sheen	6.19	11.15					
	07/16/92	sheen	6.51	10.83	5,400	870	240	440	700
	08/19/92#	NLPH	6.85	10.49					
	09/24/92	NLPH	7.17	10.17	5,900	1,300	130	530	690
	02/05/93	NLPH	4.61	12.73	15,000	2,300	820	980	2,200
	04/30/93	NLPH	5.59	11.75	21,000	4,000	960	1,500	2,900
	05/14/93#	NLPH	6.50	10.84					
	07/15/93	NLPH	7.50	9.84	2,300	440	55	130	220
	10/21/93#	NM	7.77	9.57					
	11/16/93	NLPH	8.27	9.07	5,100	820	160	260	760
	11/30/93	—	8.02	9.32	—	—	—	—	—
	12/17/93#	NM	7.04	10.30					
	01/31/94#	NM	6.36	10.98					
	02/24-25/94	NLPH	5.78	11.56	9,800	2,200	190	660	1,200
MW-5	01/17/89	NLPH	5.39	11.32	26,000	8,700	3,900	990	5,900
(16.71)	01/24/89#	NLPH	5.51	11.20					
	06/01/89	sheen	5.83	10.88	5,200	240	220	130	690
	09/18/89	NLPH	6.52	10.19	8,000	340	150	140	460
	10/20/89#	NLPH	6.72	9.99					
	11/22/89#	NLPH	6.54	10.17					
	12/11/89	NLPH	6.21	10.50	15,000	720	320	450	870
	02/13/90#	NLPH	5.60	11.11					
	03/07/90#	NM	NM	—					
	03/13/90	NLPH	5.54	11.17	10,000	3,400	220	280	800
	04/18/90#	NLPH	5.75	10.96					
	05/23/90#	NLPH	5.98	10.73					
	06/14/90	NLPH	5.81	10.90	12,000	3,300	160	350	730
	08/21/90#	NLPH	6.51	10.20					

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California
(Page 6 of 11)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	>	<	parts per billion			>
MW-5 cont.	09/19/90	NLPH	6.70	10.01	8,500	1,800	85	120	460
(16.71)	12/17/90	sheen	6.24	10.47	18,000	2,300	810	430	1,400
	01/31/91#	NLPH	6.31	10.40					
	02/25/91#	NLPH	6.13	10.58					
	03/19/91	NLPH	5.32	11.39	17,000	2,900	610	580	1,200
	04/22/91#	sheen	5.30	11.41					
	05/17/91#	NLPH	5.59	11.12					
	07/24/91	NLPH	6.33	10.38	16,000	3,200	320	690	1,100
	09/10/91#	NLPH	6.66	10.05					
	09/23/91#	NLPH	6.75	9.96					
	10/21/91#	sheen	6.92	9.79					
	10/22/91	NM	NM	—	6,600	2,000	64	320	480
	11/18/91#	NLPH	6.55	10.16					
	12/11/91#	NLPH	6.64	10.07					
	01/21/92	sheen	6.07	10.64	14,000	4,000	190	630	1,300
	02/20/92#	NLPH	4.83	11.88					
	03/19/92#	sheen	4.83	11.88					
	04/24/92	sheen	5.32	11.39	12,000	2,600	120	620	530
	05/13/92#	sheen	5.61	11.10					
	06/24/92#	NLPH	6.17	10.54					
	07/16/92	sheen	6.25	10.46	20,000	4,000	48	880	720
	08/19/92#	sheen	6.53	10.18					
	09/24/92	sheen	6.80	9.91	9,300	2,200	31	330	250
	02/05/93b#	NLPH	4.70	12.01					
	04/30/93	sheen	5.43	11.28	30,000	5,900	450	1,900	1,500
	05/14/93#	NLPH	7.31	9.40					
	07/15/93#	0.07	7.93	8.84					
	10/21/93#	NM	7.25	9.46					
	11/15/93#	0.04	8.42	8.32					
	11/30/93#	—	8.10	8.61					
	12/17/93#	NM	7.43	9.28					
	01/31/94#	NM	5.95	10.76					
	02/24-25/94#	sheen	6.23	10.48					
MW-6	01/17/89	NLPH	5.59	11.97	38,000	7,400	9,300	2,000	9,900
(17.56)	01/24/89#	NLPH	5.27	12.29					
	06/01/89	sheen	6.25	11.31	23,000	1,900	2,500	2,000	6,000
	09/18/89	NLPH	6.95	10.61	17,000	650	410	650	320
	10/20/89#	NLPH	7.24	10.32					
	11/22/89#	NLPH	7.05	10.51					
	12/11/89	NLPH	6.63	10.93	29,000	1,100	810	330	1,500
	02/13/90#	NLPH	5.70	11.86					

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	>	<	parts per billion			>
MW-6 cont.	03/07/90#	NM	NM	---					
(17.56)	03/13/90	NLPH	5.63	11.93	38,000	12,000	15,000	2,500	12,000
	04/18/90#	NLPH	6.26	11.30					
	05/23/90#	NLPH	6.42	11.14					
	06/14/90	NLPH	6.19	11.37	38,000	9,100	7,800	2,900	12,000
	08/21/90#	NLPH	7.01	10.55					
	09/19/90	NLPH	7.23	10.33	22,000	4,200	300	1,400	3,400
	12/17/90	NLPH	6.66	10.90	20,000	3,100	4,100	890	2,700
	01/31/91#	NLPH	6.39	11.17					
	02/25/91#	NLPH	6.39	11.17					
	03/19/91	NLPH	5.57	11.99	180,000	11,000	55,000	5,600	28,000
	04/22/91#	NLPH	5.42	12.14					
	05/17/91#	NLPH	5.73	11.83					
	07/24/91	NLPH	6.72	10.84	48,000	5,400	2,300	2,000	9,000
	09/10/91#	NLPH	7.15	10.41					
	09/23/91#	NLPH	7.25	10.31					
	10/21/91#	NLPH	7.42	10.14					
	10/22/91	NM	NM	---	18,000	3,100	700	1,400	2,900
	11/18/91#	NLPH	7.08	10.48					
	12/11/91#	NLPH	7.17	10.39					
	01/21/92	NLPH	6.40	11.16	9,400	2,100	370	1,000	1,100
	02/20/92#	NLPH	5.06	12.50					
	03/19/92#	NLPH	4.86	12.70					
	04/24/92	NLPH	5.44	12.12	42,000	3,500	8,000	2,100	8,000
	05/13/92#	NLPH	5.83	11.73					
	06/24/92#	NLPH	6.50	11.06					
	07/16/92	NLPH	6.68	10.88	14,000	1,600	1,000	1,000	2,500
	08/19/92#	NLPH	7.00	10.56					
	09/24/92	NLPH	7.28	10.28	4,700	790	97	640	540
	02/05/93	NLPH	4.84	12.72	26,000	2,500	4,300	1,700	5,300
	04/30/93	NLPH	5.69	11.87	9,600	1,000	410	1,100	1,600
	05/14/93#	NLPH	6.52	11.04					
	07/15/93	NLPH	7.51	10.05	4,600	250	72	540	650
	10/21/93#	NM	7.85	9.71					
	11/16/93	NLPH	8.29	9.27	410	41	12	47	71
	11/30/93#	NM	8.08	9.48					
	12/17/93#	NM	7.27	10.29					
	01/31/94#	NM	6.62	10.94					
	02/24-25/94	NLPH	6.23	11.33	4,300	190	190	300	460

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California
(Page 8 of 11)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		< . . . . . feet . . . . . >			< . . . . . parts per billion . . . . . >				
MW-7	01/09/90	NM	NM	---	17,000	380	180	330	1,300
(17.12)	02/13/90#	NLPH	4.98	12.14					
	03/13/90	NLPH	4.94	12.18	16,000	360	270	83	460
	05/23/90#	NLPH	5.87	11.25					
	06/14/90	NLPH	5.55	11.57	14,000	1,200	2,800	75	930
	09/19/90	NLPH	6.79	10.33	16,000	2,800	95	2,500	1,700
	12/17/90	NLPH	6.15	10.97	75,000	2,600	7,000	3,300	14,000
	01/31/91#	NLPH	6.64	10.48					
	02/25/91#	NLPH	5.80	11.32					
	03/19/91	NLPH	4.96	12.16	44,000	1,600	740	3,400	8,600
	04/22/91#	NLPH	4.82	12.30					
	05/17/91#	NLPH	5.18	11.94					
	07/24/91	NLPH	6.22	10.90	18,000	1,300	160	2,700	1,000
	09/10/91#	NLPH	6.71	10.41					
	09/23/91#	NLPH	6.84	10.28					
	10/21/91#	NLPH	7.00	10.12					
	10/22/91	---	---	---	10,000	990	26	1,900	490
	11/18/91#	NLPH	6.56	10.56					
	12/11/91#	NLPH	6.68	10.44					
	01/21/92	NLPH	5.99	11.13	23,000	2,200	3,000	1,800	6,100
	02/20/92#	NLPH	4.36	12.76					
	03/19/92#	NLPH	4.22	12.90					
	04/24/92	NLPH	4.84	12.28	25,000	1,400	220	2,100	2,600
	05/13/92#	NLPH	5.24	11.88					
	06/24/92#	NLPH	6.04	11.08					
	07/16/92	NLPH	6.19	10.93	8,700	470	45	970	86
	08/19/92#	NLPH	6.55	10.57					
	09/24/92	NLPH	6.83	10.29	9,200	560	48	1,300	54
	02/05/93	NLPH	4.11	13.01	33,000	1,100	2,300	1,200	4,200
	04/30/93b	NLPH	5.29	11.83	13,000	240	85	710	320
	05/14/93#	NLPH	5.91	11.21					
	07/15/93	NLPH	7.07	10.05	6,900	200	30	500	48
	10/21/93#	NM	7.55	9.57					
	11/16/93	NLPH	7.85	9.27	7,400	300	85	480	120
	11/30/93#	NM	7.66	9.46					
	12/17/93#	NM	6.75	10.37					
	01/31/94#	NM	6.22	10.90					
	02/24-25/94	NLPH	5.52	11.60	7,200	470	120	400	330

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	>	<	parts per billion			>
MW-8	05/14/93	NLPH	6.54	9.79	<50	<0.5	<1.0	<0.5	<0.5
(16.33)	07/15/93	NLPH	6.57	9.76	<50	<0.5	<0.5	<0.5	<0.5
	10/21/93#	NM	6.83	9.50					
	11/16/93	NLPH	7.15	9.18	<50	<0.5	<0.5	<0.5	<0.5
	11/30/93	---	6.94	9.39	---	---	---	---	---
	12/17/93#	NM	6.48	9.85					
	01/31/94#	NM	6.13	10.20					
	02/24-25/94	NLPH	5.80	10.53	<50	<0.5	<0.5	<0.5	<0.5
MW-9	05/14/93	NLPH	6.61	9.01	<50	<0.5	<1.0	<0.5	<0.5
(15.62)	07/15/93	NLPH	6.79	8.83	<50	<0.5	<0.5	<0.5	<0.5
	10/21/93#	NM	6.97	8.65					
	11/16/93	NLPH	7.12	8.50	<50	<0.5	<0.5	<0.5	<0.5
	11/30/93	---	6.98	8.64	---	---	---	---	---
	12/17/93#	NM	6.73	8.87					
	01/31/94#	NM	6.71	8.91					
	02/24-25/94	NLPH	6.45	9.17	<50	<0.5	<0.5	<0.5	<0.5
MW-10	05/14/93	NLPH	6.91	9.88	97	<0.5	<0.5	9.8	22
(16.79)	07/15/93	NLPH	7.47	9.32	160	<0.5	<0.5	15	19
	10/21/93#	NM	7.57	9.22					
	11/16/93	NLPH	8.17	8.62	<50	<0.5	<0.5	<0.5	<0.5
	11/30/93	---	7.96	8.83	---	---	---	---	---
	12/17/93#	NM	7.25	9.54					
	01/31/94#	NM	6.66	10.13					
	02/24-25/94	NLPH	6.53	10.26	280	<0.5	<0.5	12	7.0
EW-1	10/21/93#	NM	6.67	9.55					
(16.22)	12/17/93#	NM	10.09	6.13					
	01/31/94#	NM	5.38	10.84					
	02/24-25/94	NLPH	5.58	10.64	1,000	140	4.5	15	120
EW-2	10/21/93#	NM	6.71	9.34					
(16.05)	12/17/93#	NM	14.95	1.10					
	01/31/94#	NM	5.35	10.70					
	02/24-25/94	LPH	14.30	1.75	5,200	1,200	390	63	410
EW-3	10/21/93#	NM	6.55	9.47					
(16.02)	12/17/93#	NM	15.65	0.37					
	01/31/94#	NM	5.34	10.68					
	02/24-25/94	NLPH	21.00	-4.98	91	<0.5	<0.5	<0.5	<0.5

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California
(Page 10 of 11)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	>	<	parts per billion			>
EW-4	10/21/93#	NM	6.13	9.48					
(15.61)	12/17/93#	NM	14.60	1.01					
	01/31/94#	NM	5.08	10.53					
	02/24-25/94	LPH	14.88	0.73	4,600	1,900	140	13	450
EW-5	10/21/93#	NM	6.77	9.74					
(16.51)	12/17/93#	NM	14.20	2.31					
	01/31/94#	NM	5.64	10.87					
	02/24-25/94	NLPH	11.95	4.56	1,000	140	45	3.4	190
Field	12/11/89	---	---	—	<50	0.88	0.95	0.62	1.7
Blanks	12/17/90	---	---	—	<50	<0.5	<0.5	<0.5	<0.5
	03/19/91	---	---	—	<50	<0.5	<0.5	<0.5	<0.5
	07/24/91	---	—	—	<50	<0.5	<0.5	<0.5	<0.6
	10/22/91	---	—	—	<50	<0.5	<0.5	<0.5	<0.5
	01/21/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5
	07/16/92	---	---	—	<50	<0.5	<0.5	<0.5	<0.5
Travel	06/14/90	—	---	---	<50	<0.5	<0.5	<0.5	<0.5
Blanks	09/19/90	---	---	---	<50	0.8	<0.5	0.6	1.0
	04/24/92	—	---	—	<50	<0.5	<0.5	<0.5	<0.5
	09/24/92	—	---	—	230	<0.5	<0.5	<0.5	<0.5
	Maximum Contaminant Levels (MCLs) (DHS)				—	1.0	—	680	1,750
	Drinking Water Action Level (DWAL) (DHS)				—	—	100	—	—

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California
(Page 11 of 11)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		< ..... feet ..... >			< ..... parts per billion ..... >				

Notes:

TOC	=	Elevation of top of well casing; datum is mean sea level, revised February 10, 1994.
SUBJ	=	Results of subjective evaluation, liquid-phase product thickness (PT) in feet
DTW	=	Depth to water
Elev.	=	Elevation of groundwater; datum is mean sea level; adjusted for free-phase petroleum hydrocarbons when present using the equation: Elev. = TOC - [DTW + (PT * 0.8)] where PT is the product thickness
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA method 5030/8015
BTEX	=	Benzene, Toluene, Ethylbenzene, and total Xylenes analyzed using EPA method 5030/8020
NM	=	Not Monitored
NLPH	=	No liquid-phase petroleum hydrocarbons present in well
LPH	=	Liquid-phase petroluem hydrocarbons present in well, thickness not measured, or not measurable.
NA	=	Well not accessible on this date
<	=	Less than the indicated detection limit shown by the laboratory
---	=	Not applicable
#	=	Well not sampled on this date
a	=	03/07/90 sampling: Total Dissolved Solids were detected in samples from MW-1 and MW-4 at 910 parts-per-million (ppm) and 370 ppm, respectively.
b	=	a peak eluting before benzene was present in the groundwater samples from MW-5 and MW-7, and is suspected to be methyl-tert-butyl-ether (MTBE).

ENCLOSURE C

Alameda County Health Services Reduction
Sampling Letter Dated November 1, 1996

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

StID 3601

November 1, 1996

Ms. Marla Guensler
Exxon-Environmental Engineering
P.O.Box 4032
Concord, CA 94524-4032

RE: Groundwater Sampling at Exxon RAS #7-0104, 1725 Park St, Alameda, CA

Dear Ms. Guensler:

I have completed review of Delta Environmental Consultants, Inc's September 1996 Quarterly Ground Water Monitoring Report for the above referenced site. There is adequate groundwater data at this time where the sampling frequency of the monitoring wells may be reduced as follows:

1. Quarterly sampling of wells MW-6 and MW-11;
2. Semi-annual sampling of wells MW-1, MW-2, MW-4, MW-5, MW-7, and MW-10 in the first and third quarters; and,
3. Discontinue sampling of wells MW-3, MW-8, MW-9, MW-12, and EW-1 through EW-5.

It is also noted that most of the wells indicate the possible presence of MTBE in groundwater. In the next sampling event, groundwater from wells MW-2, MW-5, and MW-11 should be analyzed for MTBE using EPA Method 8260. Once confirmed, method 8260 is no longer necessary. And, MTBE can continue to be quantified using method 8020.

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

c: Richard Munsch, Delta, 3164 Gold Camp Drive, Suite 200, Rancho Cordova, CA 95670

exxon1.2

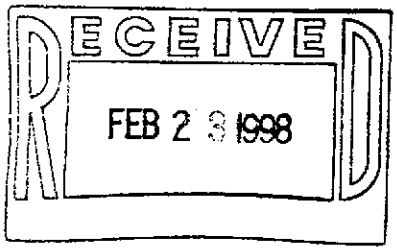
Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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

Delta Environmental Consults	Client Proj. ID: Exxon 7-0104, D094-832	Sampled: 01/28/98
3164 Gold Camp Drive, #200	Sample Descript: MW1	Received: 01/28/98
Rancho Cordova, CA 95670	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/03/98
Attention: Richard Munsch	Lab Number: 9801F83-01	Reported: 02/13/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	820
Methyl t-Butyl Ether	2.5	* N.D.
Benzene	0.50	110
Toluene	0.50	2.8
Ethyl Benzene	0.50	170
Xylenes (Total)	0.50	14
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Bromofluorobenzene	71	136	91



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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Delta Environmental Consults	Client Proj. ID: Exxon 7-0104, D094-832	Sampled: 01/28/98
3164 Gold Camp Drive, #200	Sample Descript: MW2	Received: 01/28/98
Rancho Cordova, CA 95670	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/03/98
Attention: Richard Munsch	Lab Number: 9801F83-02	Reported: 02/13/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	29000
Methyl t-Butyl Ether	500	* 28000
Benzene	100	5600
Toluene	50	410
Ethyl Benzene	50	1500
Xylenes (Total)	50	720
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Bromofluorobenzene	71	136	88

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Delta Environmental Consults	Client Proj. ID: Exxon 7-0104, D094-832	Sampled: 01/28/98
3164 Gold Camp Drive, #200	Sample Descript: MW4	Received: 01/28/98
Rancho Cordova, CA 95670	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/03/98
Attention: Richard Munsch	Lab Number: 9801F83-03	Reported: 02/13/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	1700
Methyl t-Butyl Ether	200	* 4900
Benzene	5.0	450
Toluene	0.50	6.8
Ethyl Benzene	5.0	220
Xylenes (Total)	0.50	73
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Bromofluorobenzene	71	136	94

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Delta Environmental Consults	Client Proj. ID: Exxon 7-0104, D094-832	Sampled: 01/28/98
3164 Gold Camp Drive, #200	Sample Descript: MW5	Received: 01/28/98
Rancho Cordova, CA 95670	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/03/98
Attention: Richard Munsch	Lab Number: 9801F83-04	Reported: 02/13/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	6500
Methyl t-Butyl Ether	200	* 15000
Benzene	50	1500
Toluene	5.0	34
Ethyl Benzene	5.0	73
Xylenes (Total)	5.0	57
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Bromofluorobenzene	71	136	85

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Delta Environmental Consults	Client Proj. ID: Exxon 7-0104, D094-832	Sampled: 01/28/98
3164 Gold Camp Drive, #200	Sample Descript: MW6	Received: 01/28/98
Rancho Cordova, CA 95670	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/03/98
Attention: Richard Munsch	Lab Number: 9801F83-05	Reported: 02/13/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	15000
Methyl t-Butyl Ether	250	* 2400
Benzene	50	650
Toluene	50	2300
Ethyl Benzene	50	900
Xylenes (Total)	50	2700
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Bromofluorobenzene	71	136	85

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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

Delta Environmental Consults	Client Proj. ID: Exxon 7-0104, D094-832	Sampled: 01/28/98
3164 Gold Camp Drive, #200	Sample Descript: MW7	Received: 01/28/98
Rancho Cordova, CA 95670	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/03/98
Attention: Richard Munsch	Lab Number: 9801F83-06	Reported: 02/13/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**100**
Methyl t-Butyl Ether	**10**	*** 250**
Benzene	**0.50**	**1.0**
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**0.67**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Bromofluorobenzene	71	136	90

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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

Delta Environmental Consults	Client Proj. ID: Exxon 7-0104, D094-832	Sampled: 01/28/98
3164 Gold Camp Drive, #200	Sample Descript: MW11	Received: 01/28/98
Rancho Cordova, CA 95670	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 02/04/98
Attention: Richard Munsch	Lab Number: 9801F83-07	Reported: 02/13/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**35000**
Methyl t-Butyl Ether	**200**	*** 6800**
Benzene	**50**	**2400**
Toluene	**50**	**3500**
Ethyl Benzene	**50**	**1700**
Xylenes (Total)	**50**	**7900**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Bromofluorobenzene	71	136	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Delta Environmental Consults
3164 Gold Camp Drive, #200
Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Proj. ID: Exxon 7-0104, D094-832
Lab Proj. ID: 9801F83

Received: 01/28/98
Reported: 02/13/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 46 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

The results given were analyzed by Legend Analytical Services.

For ease of review, the results were typed onto Sequoia Analytical templates.

MTBE NOTE:
* - Samples are being analyzed for MTBE by 8260.

TPGBMW NOTE: Multiple dilutions were done and the compounds that needed special dilutions were as follows:

Sample #1 - Benzene and Ethylbenzene had a dilution of 1:10.
Sample #2 - Benzene had a dilution of 1:200. MTBE had a dilution of 1:250.
Sample #3 - Benzene and Ethylbenzene had a dilution of 1:10. MTBE had a dilution of 1:100.
Sample #4 - Benzene and MTBE had a of 1:100.
Sample #6 - MTBE had a dilution of 1:5.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: Delta Environmental — Page 1 of 1

Address: 3164 Gold Camp DR Rancho Cordova

Site Location: Alameda

Project #:

Consultant Project #: D094-832

Consultant Work Release #: 19432522

Project Contact: Richard Mansch

Phone #: 916-638-2085

Laboratory Work Release #:

EXXON Contact: Marla

Phone #:

EXXON RAS #: 7-0104

Sampled by (print): Chris Hill

Sampler's Signature: [signature]

Shipment Method: Delta

Air Bill #:

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ Standard (10 day)

ANALYSIS REQUIRED 9801F83

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE		Temperature: ____ Inbound Seal: Yes No Outbound Seal: Yes No
MW1	1-28-98	1011	Water	Hcl	6	01	X			X		
MW2		0839			6	02	X			X		
MW4		0935			6	03	X			X		
MW5		0819			6	04	X			X		
MW6		0908			6	05	X			X		
MW7		0949			6	06	X			X		
MW11	1-28-98	0744			6	07	X			X		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
[signature] Delta	1-28-98	1232	[signature] Sequoia	1/28/98	1232	
[signature] Sequoia			[signature] CSC	1-29	0950	
[signature] CSC	1-29.		Taren P.	1/29/98	1300	

Pink - Client
Yellow - Sequoia
White - Sequoia

LEGEND

Analytical Services

3636 N. Laughlin Road, Suite 110 Santa Rosa, California 95403 707.526.7200 Fax 707.541.2333 E-Mail: info@legendlab.com

Michael Gregory
Sequoia Analytical Lab.
680 Chesapeake Dr.
Redwood City, CA 94063

Date: 02/10/1998
LEGEND Client Acct. No: 63100
LEGEND Job No: 98.00150
Received: 01/29/1998

Client Reference Information

Delta/WO#9801F83

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Facsimile transmission of this report is non-confidential. If received in error, please contact sender immediately at the number listed and return the information to us by mail. Please refer to the enclosed "Key to Result Flags" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2313.

Submitted by:

Jennifer L. Roseberry
Project Manager

Enclosure(s)

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-01
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281276

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
5030/M8015	--						02/03/1998	3940
DILUTION FACTOR*	1						02/03/1998	3940
as Gasoline	0.82		0.050	mg/L	5030		02/03/1998	3940
8020 (GC,Liquid)	--						02/03/1998	3940
Benzene	110	FC	5.0	ug/L	8020		02/04/1998	3941
Toluene	2.8		0.50	ug/L	8020		02/03/1998	3940
Ethylbenzene	170	FC	5.0	ug/L	8020		02/04/1998	3941
Xylenes (Total)	14		0.50	ug/L	8020		02/03/1998	3940
SURROGATE RESULTS	--						02/03/1998	3940
Bromofluorobenzene (SURR)	91			% Rec.	5030		02/03/1998	3940

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-01
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281276

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
8260 (GCMS, Liq, MTBE)								
DILUTION FACTOR*	1						02/03/1998	29
Methyl-tert-butyl ether	ND		2.0	ug/L	8260		02/03/1998	29
SURROGATE RESULTS	--						02/03/1998	29
4-Bromofluorobenzene (SURR)	102			% Rec.	8260		02/03/1998	29
Toluene-d8 (SURR)	101			% Rec.	8260		02/03/1998	29
1,2-Dichloroethane-d4 (SURR)	104			% Rec.	8260		02/03/1998	29

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-02
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281277

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
5030/M8015	--						02/03/1998	3940
DILUTION FACTOR*	100						02/03/1998	3940
as Gasoline	29		5.0	mg/L	5030		02/03/1998	3940
8020 (GC,Liquid)	--						02/03/1998	3940
Benzene	5,600	FG	100	ug/L	8020		02/04/1998	3941
Toluene	410		50	ug/L	8020		02/03/1998	3940
Ethylbenzene	1,500		50	ug/L	8020		02/03/1998	3940
Xylenes (Total)	720		50	ug/L	8020		02/03/1998	3940
SURROGATE RESULTS	--						02/03/1998	3940
Bromofluorobenzene (SURR)	88			% Rec.	5030		02/03/1998	3940

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-02
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281277

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
8260 (GCMS, Liq, MTBE)								
DILUTION FACTOR*	250						02/05/1998	30
Methyl-tert-butyl ether	28,000		500	ug/L	8260		02/05/1998	30
SURROGATE RESULTS	--						02/05/1998	30
4-Bromofluorobenzene (SURR)	103			% Rec.	8260		02/05/1998	30
Toluene-d8 (SURR)	102			% Rec.	8260		02/05/1998	30
1,2-Dichloroethane-d4 (SURR)	100			% Rec.	8260		02/05/1998	30

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-03
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281278

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
5030/M8015	--						02/03/1998	3940
DILUTION FACTOR*	1						02/03/1998	3940
as Gasoline	1.7		0.050	mg/L	5030		02/03/1998	3940
8020 (GC,Liquid)	--						02/03/1998	3940
Benzene	450	FC	5.0	ug/L	8020		02/04/1998	3941
Toluene	6.8		0.50	ug/L	8020		02/03/1998	3940
Ethylbenzene	220	FC	5.0	ug/L	8020		02/04/1998	3941
Xylenes (Total)	73		0.50	ug/L	8020		02/03/1998	3940
SURROGATE RESULTS	--						02/03/1998	3940
Bromofluorobenzene (SURR)	94			% Rec.	5030		02/03/1998	3940

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-03
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281278

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
8260 (GCMS, Liq, MTBE)								
DILUTION FACTOR*	100						02/05/1998	30
Methyl-tert-butyl ether	4,900		200	ug/L	8260		02/05/1998	30
SURROGATE RESULTS	--						02/05/1998	30
4-Bromofluorobenzene (SURR)	102			% Rec.	8260		02/05/1998	30
Toluene-d8 (SURR)	103			% Rec.	8260		02/05/1998	30
1,2-Dichloroethane-d4 (SURR)	99			% Rec.	8260		02/05/1998	30

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-04
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281279

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
5030/M8015	--						02/03/1998	3940
DILUTION FACTOR*	10						02/03/1998	3940
as Gasoline	6.5		0.50	mg/L	5030		02/03/1998	3940
8020 (GC,Liquid)	--						02/03/1998	3940
Benzene	1,500	FF	50	ug/L	8020		02/04/1998	3941
Toluene	34		5.0	ug/L	8020		02/03/1998	3940
Ethylbenzene	73		5.0	ug/L	8020		02/03/1998	3940
Xylenes (Total)	57		5.0	ug/L	8020		02/03/1998	3940
SURROGATE RESULTS	--						02/03/1998	3940
Bromofluorobenzene (SURR)	85			% Rec.	5030		02/03/1998	3940

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-04
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281279

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
8260 (GCMS, Liq. MTBE)								
DILUTION FACTOR*	100						02/05/1998	30
Methyl-tert-butyl ether	15,000		200	ug/L	8260		02/05/1998	30
SURROGATE RESULTS	--						02/05/1998	30
4-Bromofluorobenzene (SURR)	100			% Rec.	8260		02/05/1998	30
Toluene-d8 (SURR)	101			% Rec.	8260		02/05/1998	30
1,2-Dichloroethane-d4 (SURR)	95			% Rec.	8260		02/05/1998	30

Client Name: Sequoia Analytical Lab. Date: 02/10/1998
Client Acct: 63100 ELAP Cert: 2193
LEGEND Job No: 98.00150 Page: 10

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-05
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281280

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
5030/M8015	--						02/03/1998	3940
DILUTION FACTOR*	100						02/03/1998	3940
as Gasoline	15		5.0	mg/L	5030		02/03/1998	3940
8020 (GC,Liquid)	--						02/03/1998	3940
Benzene	650		50	ug/L	8020		02/03/1998	3940
Toluene	2,300		50	ug/L	8020		02/03/1998	3940
Ethylbenzene	900		50	ug/L	8020		02/03/1998	3940
Xylenes (Total)	2,700		50	ug/L	8020		02/03/1998	3940
SURROGATE RESULTS	--						02/03/1998	3940
Bromofluorobenzene (SURR)	85			% Rec.	5030		02/03/1998	3940

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-05
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281280

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
8260 (GCMS, Liq, MTBE)								
DILUTION FACTOR*	100						02/05/1998	30
Methyl-tert-butyl ether	2,400		200	ug/L	8260		02/05/1998	30
SURROGATE RESULTS	--						02/05/1998	30
4-Bromofluorobenzene (SURR)	101			% Rec.	8260		02/05/1998	30
Toluene-d8 (SURR)	102			% Rec.	8260		02/05/1998	30
1,2-Dichloroethane-d4 (SURR)	100			% Rec.	8260		02/05/1998	30

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-06
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281281

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
5030/M8015	--						02/03/1998	3940
DILUTION FACTOR*	1						02/03/1998	3940
as Gasoline	0.10		0.050	mg/L	5030		02/03/1998	3940
8020 (GC,Liquid)	--						02/03/1998	3940
Benzene	1.0		0.50	ug/L	8020		02/03/1998	3940
Toluene	ND		0.50	ug/L	8020		02/03/1998	3940
Ethylbenzene	ND		0.50	ug/L	8020		02/03/1998	3940
Xylenes (Total)	0.67		0.50	ug/L	8020		02/03/1998	3940
SURROGATE RESULTS	--						02/03/1998	3940
Bromofluorobenzene (SURR)	90			% Rec.	5030		02/03/1998	3940

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-06
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281281

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
8260 (GCMS, Liq, MTBE)								
DILUTION FACTOR*	5						02/05/1998	30
Methyl-tert-butyl ether	250		10	ug/L	8260		02/05/1998	30
SURROGATE RESULTS	--						02/05/1998	30
4-Bromofluorobenzene (SURR)	110			% Rec.	8260		02/05/1998	30
Toluene-d8 (SURR)	104			% Rec.	8260		02/05/1998	30
1,2-Dichloroethane-d4 (SURR)	97			% Rec.	8260		02/05/1998	30

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-07
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281282

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE.Liquid)								
5030/M8015	--						02/04/1998	3941
DILUTION FACTOR*	100						02/04/1998	3941
as Gasoline	35		5.0	mg/L	5030		02/04/1998	3941
8020 (GC,Liquid)	--						02/04/1998	3941
Benzene	2,400		50	ug/L	8020		02/04/1998	3941
Toluene	3,500		50	ug/L	8020		02/04/1998	3941
Ethylbenzene	1,700		50	ug/L	8020		02/04/1998	3941
Xylenes (Total)	7,900		50	ug/L	8020		02/04/1998	3941
SURROGATE RESULTS	--						02/04/1998	3941
Bromofluorobenzene (SURR)	91			% Rec.	5030		02/04/1998	3941

Ref: Delta/WO#9801F83

SAMPLE DESCRIPTION: 9801F83-07
Date Taken: 01/28/1998
Time Taken:
LEGEND Sample No: 281282

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
8260 (GCMS, Liq, MTBE)								
DILUTION FACTOR*	100						02/05/1998	30
Methyl-tert-butyl ether	6,800		200	ug/L	8260		02/05/1998	30
SURROGATE RESULTS	--						02/05/1998	30
4-Bromofluorobenzene (SURR)	100			% Rec.	8260		02/05/1998	30
Toluene-d8 (SURR)	102			% Rec.	8260		02/05/1998	30
1,2-Dichloroethane-d4 (SURR)	93			% Rec.	8260		02/05/1998	30

Ref: Delta/WO#9801F83

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
TPH (Gas/BTXE,Liquid)								
as Gasoline	99.0	0.495	0.50		mg/L	02/02/1998	cjy	3940
Benzene	93.0	18.60	20.0		ug/L	02/02/1998	cjy	3940
Toluene	93.2	18.64	20.0		ug/L	02/02/1998	cjy	3940
Ethylbenzene	94.1	18.81	20.0		ug/L	02/02/1998	cjy	3940
Xylenes (Total)	94.5	56.69	60.0		ug/L	02/02/1998	cjy	3940
Bromofluorobenzene (SURR)	88.0	88	100		% Rec.	02/02/1998	cjy	3940
TPH (Gas/BTXE,Liquid)								
as Gasoline	100.2	0.501	0.50		mg/L	02/03/1998	cjy	3940
Benzene	95.2	19.04	20.0		ug/L	02/03/1998	cjy	3940
Toluene	95.0	18.99	20.0		ug/L	02/03/1998	cjy	3940
Ethylbenzene	94.5	18.90	20.0		ug/L	02/03/1998	cjy	3940
Xylenes (Total)	95.7	57.43	60.0		ug/L	02/03/1998	cjy	3940
Bromofluorobenzene (SURR)	91.0	91	100		% Rec.	02/03/1998	cjy	3940
TPH (Gas/BTXE,Liquid)								
as Gasoline	100.4	0.502	0.50		mg/L	02/03/1998	cjy	3940
Benzene	97.0	19.40	20.0		ug/L	02/03/1998	cjy	3940
Toluene	96.1	19.22	20.0		ug/L	02/03/1998	cjy	3940
Ethylbenzene	96.5	19.29	20.0		ug/L	02/03/1998	cjy	3940
Xylenes (Total)	97.9	58.72	60.0		ug/L	02/03/1998	cjy	3940
Bromofluorobenzene (SURR)	94.0	94	100		% Rec.	02/03/1998	cjy	3940
TPH (Gas/BTXE,Liquid)								
as Gasoline	103.2	0.516	0.50		mg/L	02/04/1998	cjy	3941
Benzene	94.1	18.81	20.0		ug/L	02/04/1998	cjy	3941
Toluene	94.5	18.90	20.0		ug/L	02/04/1998	cjy	3941
Ethylbenzene	95.0	19.00	20.0		ug/L	02/04/1998	cjy	3941
Xylenes (Total)	95.6	57.38	60.0		ug/L	02/04/1998	cjy	3941
Bromofluorobenzene (SURR)	90.0	90	100		% Rec.	02/04/1998	cjy	3941
TPH (Gas/BTXE,Liquid)								
as Gasoline	99.4	0.497	0.50		mg/L	02/04/1998	cjy	3941
Benzene	93.0	18.59	20.0		ug/L	02/04/1998	cjy	3941
Toluene	91.8	18.35	20.0		ug/L	02/04/1998	cjy	3941
Ethylbenzene	92.7	18.54	20.0		ug/L	02/04/1998	cjy	3941
Xylenes (Total)	93.4	56.05	60.0		ug/L	02/04/1998	cjy	3941
Bromofluorobenzene (SURR)	90.0	90	100		% Rec.	02/04/1998	cjy	3941

Ref: Delta/WO#9801F83

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
8260 (GCMS, Liq, MTBE)								
Methyl-tert-butyl ether	113.5	45.4	40.0		ug/L	02/03/1998	datl	29
4-Bromofluorobenzene (SURR)	105.0	105	100		% Rec.	02/03/1998	datl	29
Toluene-d8 (SURR)	100.0	100	100		% Rec.	02/03/1998	datl	29
1,2-Dichloroethane-d4 (SURR)	104.0	104	100		% Rec.	02/03/1998	datl	29

Ref: Delta/WO#9801F83

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
8260 (GCMS, Liq, MTBE)								
Methyl-tert-butyl ether	91.3	36.5	40.0		ug/L	02/05/1998	datl	30
4-Bromofluorobenzene (SURR)	100.0	100	100		% Rec.	02/05/1998	datl	30
Toluene-d8 (SURR)	94.0	94	100		% Rec.	02/05/1998	datl	30
1,2-Dichloroethane-d4 (SURR)	85.0	85	100		% Rec.	02/05/1998	datl	30

Ref: Delta/WO#9801F83

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
TPH (Gas/BTXE,Liquid)							
as Gasoline	ND	0.050		mg/L	02/02/1998	cjy	3940
Benzene	ND	0.50		ug/L	02/02/1998	cjy	3940
Toluene	ND	0.50		ug/L	02/02/1998	cjy	3940
Ethylbenzene	ND	0.50		ug/L	02/02/1998	cjy	3940
Xylenes (Total)	ND	0.50		ug/L	02/02/1998	cjy	3940
Bromofluorobenzene (SURR)	91			% Rec.	02/02/1998	cjy	3940
TPH (Gas/BTXE,Liquid)							
as Gasoline	ND	0.050		mg/L	02/03/1998	cjy	3940
Benzene	ND	0.50		ug/L	02/03/1998	cjy	3940
Toluene	ND	0.50		ug/L	02/03/1998	cjy	3940
Ethylbenzene	ND	0.50		ug/L	02/03/1998	cjy	3940
Xylenes (Total)	ND	0.50		ug/L	02/03/1998	cjy	3940
Bromofluorobenzene (SURR)	91			% Rec.	02/03/1998	cjy	3940
TPH (Gas/BTXE,Liquid)							
as Gasoline	ND	0.050		mg/L	02/03/1998	cjy	3940
Benzene	ND	0.50		ug/L	02/03/1998	cjy	3940
Toluene	ND	0.50		ug/L	02/03/1998	cjy	3940
Ethylbenzene	ND	0.50		ug/L	02/03/1998	cjy	3940
Xylenes (Total)	ND	0.50		ug/L	02/03/1998	cjy	3940
Bromofluorobenzene (SURR)	92			% Rec.	02/03/1998	cjy	3940
TPH (Gas/BTXE,Liquid)							
as Gasoline	ND	0.050		mg/L	02/04/1998	cjy	3941
Benzene	ND	0.50		ug/L	02/04/1998	cjy	3941
Toluene	ND	0.50		ug/L	02/04/1998	cjy	3941
Ethylbenzene	ND	0.50		ug/L	02/04/1998	cjy	3941
Xylenes (Total)	ND	0.50		ug/L	02/04/1998	cjy	3941
Bromofluorobenzene (SURR)	89			% Rec.	02/04/1998	cjy	3941
TPH (Gas/BTXE,Liquid)							
as Gasoline	ND	0.050		mg/L	02/04/1998	cjy	3941
Benzene	ND	0.50		ug/L	02/04/1998	cjy	3941
Toluene	ND	0.50		ug/L	02/04/1998	cjy	3941
Ethylbenzene	ND	0.50		ug/L	02/04/1998	cjy	3941
Xylenes (Total)	ND	0.50		ug/L	02/04/1998	cjy	3941
Bromofluorobenzene (SURR)	85			% Rec.	02/04/1998	cjy	3941

Ref: Delta/WO#9801F83

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
8260 (GCMS, Liq, MTBE)							
Methyl-tert-butyl ether	ND	2.0		ug/L	02/03/1998	datl	29
4-Bromofluorobenzene (SURR)	109			% Rec.	02/03/1998	datl	29
Toluene-d8 (SURR)	110			% Rec.	02/03/1998	datl	29
1,2-Dichloroethane-d4 (SURR)	104			% Rec.	02/03/1998	datl	29

Ref: Delta/WO#9801F83

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
8260 (GCMS, Liq, MTBE)							
Methyl-tert-butyl ether	ND	2.0		ug/L	02/05/1998	datl	30
4-Bromofluorobenzene (SURR)	106			% Rec.	02/05/1998	datl	30
Toluene-d8 (SURR)	105			% Rec.	02/05/1998	datl	30
1,2-Dichloroethane-d4 (SURR)	98			% Rec.	02/05/1998	datl	30

Ref: Delta/WO#9801F83

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Flags	Units	Date Analyzed	Run Batch	Sample Spiked
TPH (Gas/BTXE,Liquid)												281271
as Gasoline	100.8	95.8	5.0	0.50	ND	0.504	0.479		mg/L	02/02/1998	3940	281271
Benzene	104.1	99.2	4.7	3.67	ND	3.82	3.64		ug/L	02/02/1998	3940	281271
Toluene	107.8	103.9	3.7	33.37	ND	35.98	34.67		ug/L	02/02/1998	3940	281271
Bromofluorobenzene (SURR)	88.0	87.0	1.1	100	90	88	87		% Rec.	02/02/1998	3940	281271
TPH (Gas/BTXE,Liquid)												281305
as Gasoline	104.2	102.4	1.7	0.50	ND	0.521	0.512		mg/L	02/04/1998	3941	281305
Benzene	102.0	102.0	0.0	3.91	ND	3.99	3.99		ug/L	02/04/1998	3941	281305
Toluene	96.8	99.0	2.2	37.48	0.54	36.81	37.63		ug/L	02/04/1998	3941	281305
Bromofluorobenzene (SURR)	91.0	94.0	3.2	100	94	91	94		% Rec	02/04/1998	3941	281305

Ref: Delta/WO#9801F83

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Flags	Units	Date Analyzed	Run Batch	Sample Spiked
8260 (GCMS, Liq, MTBE)												281196
Methyl-tert-butyl ether	108.0	109.0	0.9	40.0	6.5	49.7	50.1		ug/L	02/03/1998	29	281196
4-Bromofluorobenzene (SURR)	104.0	101.0	2.9	100	106	104	101		% Rec.	02/03/1998	29	281196
Toluene-d8 (SURR)	100.0	100.0	0.0	100	103	100	100		% Rec.	02/03/1998	29	281196
1,2-Dichloroethane-d4 (SURR)	100.0	98.0	1.9	100	101	100	98		% Rec.	02/03/1998	29	281196

Ref: Delta/WO#9801F83

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Flags	Units	Date Analyzed	Run Batch	Sample Spiked
8260 (GCMS, Liq, MTBE)												281321
Methyl-tert-butyl ether	105.0	116.5	10.4	40.0	ND	42.0	46.6		ug/L	02/05/1998	30	281321
4-Bromofluorobenzene (SURR)	100.0	112.0	11.3	100	101	100	112		% Rec.	02/05/1998	30	281321
Toluene-d8 (SURR)	100.0	109.0	8.6	100	100	100	109		% Rec.	02/05/1998	30	281321
1,2-Dichloroethane-d4 (SURR)	93.0	104.0	11.1	100	85	93	104		% Rec.	02/05/1998	30	281321

Sequoia Analytical
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Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: Delta Environmental		Page 1 of 1
Address: 3164 Gold Camp DR Rancho Cordova		Site Location: Alameda
Project #:	Consultant Project #: DD94-832	Consultant Work Release #: 19432522
Project Contact: Richard Mensch	Phone #: 916-638-2085	Laboratory Work Release #:
EXXON Contact: Mecla	Phone #:	EXXON RAS #: 7-0104
Sampled by (print): Chris Hill	Sampler's Signature:	
Shipment Method: Delta	Air Bill #:	

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ Standard (10 day)

ANALYSIS REQUIRED 9801F83

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE		Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
MW1	1-28-98	1011	Water	HCl	6	01	X			X		
MW2		0939			6	02	X			X		
MW4		0935			6	03	X			X		
MW5		0819			6	04	X			X		
MW6		0903			6	05	X			X		
MW7		0949			6	06	X			X		
MW11	1-28-98	0744			6	07	X			X		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Delta	1-28-98	1232	Smiti Hosa/Sequoia	1/28/98	1232	
Smiti Hosa/Sequoia			COC	1-29	0950	
COC	1-29.		Tarap	1/29/98	1300	

Pink - Client
Yellow - Sequoia
White - Sequoia

KEY TO RESULT FLAGS

*	: RPD between sample duplicates exceeds 30%.
*M	: RPD between sample duplicates or MS/MSD exceeds 20%.
+	: Correlation coefficient for the Method of Standard Additions is less than 0.995.
<	: Sample result is less than reported value.
B-I	: Value is between Method Detection Limit and Reporting Limit.
B-0	: Analyte found in blank and sample.
C	: The result confirmed by secondary column or GC/MS analysis.
CNA	: Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
COMP	: Sample composited by equal volume prior to analysis.
CV	: 2-Chloroethylvinyl ether cannot be determined in a preserved sample.
CWT	: Due to the sample matrix, constant weight could not be achieved.
D-	: The result has an atypical pattern for Diesel analysis.
D1	: The result for Diesel is an unknown hydrocarbon which consists of a single peak.
DB	: ND for hydrocarbons, non-discrete baseline rise detected.
DH	: The result appears to be a heavier hydrocarbon than Diesel.
DL	: The result appears to be a lighter hydrocarbon than Diesel.
DR	: Elevated Reporting Limit due to Matrix.
DS	: Surrogate diluted out of range.
DX	: The result for Diesel is an unknown hydrocarbon which consists of several peaks.
FA	: Compound quantitated at a 2X dilution factor.
FB	: Compound quantitated at a 5X dilution factor.
FC	: Compound quantitated at a 10X dilution factor.
FD	: Compound quantitated at a 20X dilution factor.
FE	: Compound quantitated at a 50X dilution factor.
FF	: Compound quantitated at a 100X dilution factor.
FG	: Compound quantitated at a 200X dilution factor.
FH	: Compound quantitated at a 500X dilution factor.
FI	: Compound quantitated at a 1000X dilution factor.
FJ	: Compound quantitated at a greater than 1000x dilution factor.
FK	: Compound quantitated at a 25X dilution factor.
FL	: Compound quantitated at a 250X dilution factor.
G-	: The result has an atypical pattern for Gasoline.
G1	: The result for Gasoline is a single peak.
GH	: The result appears to be a heavier hydrocarbon than Gasoline.
GL	: The result appears to be a lighter hydrocarbon than Gasoline.
GX	: The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
HT	: Analysis performed outside of the method specified holding time.
HTC	: Confirmation analyzed outside of the method specified holding time.
HTP	: Prep procedure performed outside of the method specified holding time.
HTR	: Received after holding time expired, analyzed ASAP after receipt.
HX	: Peaks detected within the quantitation range do not match standard used.
J	: Value is estimated.
MI	: Matrix Interference Suspected.
MSA	: Value determined by Method of Standard Additions.
MSA*	: Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
NI1	: Sample spikes outside of QC limits; matrix interference suspected.
NI2	: Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.
NI3	: Matrix Spike values exceed established QC limits, post digestion spike is in control.
NI4	: MS/MSD outside of control limits, serial dilution within control.
P	: There is >40% difference between primary and confirmation analysis.
P7	: pH of sample > 2; sample analyzed past 7 days.
RSC	: Refer to subcontract laboratory report for QC data.
S2	: Matrix interference confirmed by repeat analysis.
SCN	: Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.
SIM	: Analysis performed by Selective Ion Monitoring.
TND	: Conc. of the total analyte ND; therefore this analyte is ND also.
UMDL	: Undetected at the Method Detection Limit.
UTD	: Unable to perform requested analysis.

Sequoia Analytical

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Delta Environmental Consultants
3164 Gold Camp Drive, #200
Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Project ID: Exxon 7-0104, D094-832
Matrix: Liquid
Work Order #: 9801F83 -01-06
Reported: Feb 19, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC020298BTEX	GC020298BTEX	GC020298BTEX	GC020298BTEX	GC020298BTEX
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C.J.Y.	C.J.Y.			C.J.Y.
Sample Conc.:	N.D.	N.D.			N.D.
Prepared Date:	2/2/98	2/2/98			2/2/98
Analyzed Date:	2/2/98	2/2/98			2/2/98
Conc. Spiked:	3.67 µg/L	33.37 µg/L			0.50 mg/L
Result:	3.82	35.98			0.504
MS % Recovery:	104.1	107.8			100.8
Dup. Result:	3.64	34.67			0.479
MSD % Recov.:	99.2	103.9			95.8
RPD:	4.8	3.7			5.1
RPD Limit:	0-25	0-25			0-25
LCS #:	LCS020298	LCS020298	LCS020298	LCS020298	LCS020298
Prepared Date:	2/2/98	2/2/98	2/2/98	2/2/98	2/2/98
Analyzed Date:	2/2/98	2/2/98	2/2/98	2/2/98	2/2/98
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	0.50 mg/L
LCS Result:	18.6	18.64	18.81	56.69	0.495
LCS % Recov.:	93	93.2	94.1	94.5	99
MS/MSD LCS Control Limits	85-115	85-115			85-115

SEQUOIA ANALYTICAL

Mike Gregory
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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Delta Environmental Consultants	Client Project ID:	Exxon 7-0104, D094-832	
3164 Gold Camp Drive, #200	Matrix:	Liquid	
Rancho Cordova, CA 95670			
Attention: Richard Munsch	Work Order #:	9801F83-01, 02, 03, 04, 07	Reported: Feb 19, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC020498BTEX	GC020498BTEX	GC020498BTEX	GC020498BTEX	GC020498BTEX
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C.J.Y.	C.J.Y.			C.J.Y.
Sample Conc.:	N.D.	N.D.			N.D.
Prepared Date:	2/4/98	2/4/98			2/2/98
Analyzed Date:	2/4/98	2/4/98			2/2/98
Conc. Spiked:	3.91 µg/L	37.48 µg/L			0.50 mg/L
Result:	3.99	36.81			0.521
MS % Recovery:	102	96.8			104.2
Dup. Result:	3.99	37.63			0.512
MSD % Recov.:	102	99			102.4
RPD:	0.0	2.2			1.7
RPD Limit:	0-25	0-25			0-25
LCS #:	LCS020498	LCS020498	LCS020498	LCS020498	LCS020498
Prepared Date:	2/4/98	2/4/98	2/4/98	2/4/98	2/4/98
Analyzed Date:	2/4/98	2/4/98	2/4/98	2/4/98	2/4/98
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	0.50 mg/L
LCS Result:	18.81	18.9	19	57.38	0.516
LCS % Recov.:	94.1	94.5	95	95.6	103.2
MS/MSD LCS Control Limits	85-115	85-115			85-115

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Delta Environmental Consultants	Client Project ID:	Exxon 7-0104, D094-832	
3164 Gold Camp Drive, #200	Matrix:	Liquid	
Rancho Cordova, CA 95670			
Attention: Richard Munsch	Work Order #:	9801F83-01	Reported: Feb 19, 1998

QUALITY CONTROL DATA REPORT

Analyte:	MTBE
QC Batch#:	GC020398MTBE
Analy. Method:	EPA 8260
Prep. Method:	N.A.
Analyst:	DAT1
Sample Conc.:	6.5
Prepared Date:	2/3/98
Analyzed Date:	2/3/98
Conc. Spiked:	40 µg/L
Result:	49.7
MS % Recovery:	108
Dup. Result:	50.1
MSD % Recov.:	109
RPD:	0.80
RPD Limit:	0-20

LCS #:	LCS020398
Prepared Date:	2/3/98
Analyzed Date:	2/3/98
Conc. Spiked:	40 µg/L
LCS Result:	45.4
LCS % Recov.:	113.5

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Delta Environmental Consultants
3164 Gold Camp Drive, #200
Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Project ID: Exxon 7-0104, D094-832
Matrix: Liquid
Work Order #: 9801F83-02-07

Reported: Feb 19, 1998

QUALITY CONTROL DATA REPORT

Analyte:	MTBE
QC Batch#:	GC020598MTBE
Analy. Method:	EPA 8260
Prep. Method:	N.A.

Sample Conc.:	N.D.
Prepared Date:	2/5/98
Analyzed Date:	2/5/98
Conc. Spiked:	40 µg/L
Result:	42
MS % Recovery:	105
Dup. Result:	46.6
MSD % Recov.:	116.5
RPD:	10.4
RPD Limit:	0-20

LCS #:	LCS020598
Prepared Date:	2/5/98
Analyzed Date:	2/5/98
Conc. Spiked:	40 µg/L
LCS Result:	36.5
LCS % Recov.:	91.3

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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

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

Delta Environmental Consults	Client Proj. ID: Exxon 7-0104,D094-832	Sampled: 10/08/97
3164 Gold Camp Drive, #200	Sample Descript: MW-6	Received: 10/09/97
Rancho Cordova, CA 95670	Matrix: LIQUID	
	Analysis Method: EPA 8260	Analyzed: 10/17/97
Attention: Richard Munsch	Lab Number: 9710694-02	Reported: 10/20/97

QC Batch Number: MS101597MTBEF2A
Instrument ID: F2

Oxygenate Compounds (EPA 8260)

Analyte	Detection Limit ug/L	Sample Results ug/L
Ethanol	25000	N.D.
t-Butanol	5000	N.D.
Metyl t-Butyl Ether (MTBE)	**100**	**700**
Di-Isopropyl Ether (DIPE)	100	N.D.
Ethyl t-Butyl Ether (ETBE)	100	N.D.
t-Amyl Methyl Ether (TAME)	100	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Delta Environmental Consults
3164 Gold Camp Drive, #200
Rancho Cordova, CA 95670

Attention: Richard Munsch

Client Proj. ID: Exxon 7-0104,D094-832
Sample Descript: MW-6
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9710694-02

Sampled: 10/08/97
Received: 10/09/97

Analyzed: 10/16/97
Reported: 10/20/97

QC Batch Number: GC101697BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	51000
Methyl t-Butyl Ether	500	580
Benzene	100	870
Toluene	100	7300
Ethyl Benzene	100	2600
Xylenes (Total)	100	12000
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	108

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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

Delta Environmental Consults	Client Proj. ID: Exxon 7-0104,D094-832	Sampled: 10/08/97
3164 Gold Camp Drive, #200	Sample Descript: MW-11	Received: 10/09/97
Rancho Cordova, CA 95670	Matrix: LIQUID	
	Analysis Method: EPA 8260	Analyzed: 10/17/97
Attention: Richard Munsch	Lab Number: 9710694-01	Reported: 10/20/97

QC Batch Number: MS101597MTBEF2A
Instrument ID: F2

Oxygenate Compounds (EPA 8260)

Analyte	Detection Limit ug/L	Sample Results ug/L
Ethanol	25000	N.D.
t-Butanol	5000	N.D.
Metyl t-Butyl Ether (MTBE)	**100**	**1300**
Di-Isopropyl Ether (DIPE)	100	N.D.
Ethyl t-Butyl Ether (ETBE)	100	N.D.
t-Amyl Methyl Ether (TAME)	100	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	89

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Delta Environmental Consults
3164 Gold Camp Drive, #200
Rancho Cordova, CA 95670

Attention: Richard Munsch

Client Proj. ID: Exxon 7-0104,D094-832
Sample Descript: MW-11
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9710694-01

Sampled: 10/08/97
Received: 10/09/97

Analyzed: 10/16/97
Reported: 10/20/97

QC Batch Number: GC101697BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	42000
Methyl t-Butyl Ether	500	1100
Benzene	100	1700
Toluene	100	2500
Ethyl Benzene	100	1400
Xylenes (Total)	100	9900
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	114

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Delta Environmental Consults
3164 Gold Camp Drive, #200
Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Proj. ID: Exxon 7-0104,D094-832

Lab Proj. ID: 9710694

Received: 10/09/97

Reported: 10/20/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 6 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Delta Environmental Consultants
3164 Gold Camp Drive, #200
Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Project ID: Exxon 7-0104, D094-832
Matrix: Liquid
Work Order #: 9710694 -01, 02
Reported: Oct 28, 1997

QUALITY CONTROL DATA REPORT

Analyte:	MTBE
QC Batch#:	MS101597MTBEF2A
Analy. Method:	EPA 8260
Prep. Method:	N.A.
Analyst:	L. Zhu
MS/MSD #:	971087801
Sample Conc.:	N.D.
Prepared Date:	10/15/97
Analyzed Date:	10/15/97
Instrument I.D.#:	F2
Conc. Spiked:	50 µg/L
Result:	65
MS % Recovery:	130
Dup. Result:	61
MSD % Recov.:	122
RPD:	6.3
RPD Limit:	0-25

LCS #:	LCS101697
Prepared Date:	10/16/97
Analyzed Date:	10/16/97
Instrument I.D.#:	F2
Conc. Spiked:	50 µg/L
LCS Result:	60
LCS % Recov.:	120

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

SEQUOIA ANALYTICAL

Mike Gregory
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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Delta Environmental Consultants
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Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Project ID: Exxon 7-0104, D094-832
Matrix: Liquid
Work Order #: 9710694-01, 02

Reported: Oct 28, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC101697BTEX02A	GC101697BTEX02A	GC101697BTEX02A	GC101697BTEX02A	GC101697BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	971073401	971073401	971073401	971073401	971073401
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Analyzed Date:	10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.9	9.6	9.8	29	64
MS % Recovery:	99	96	98	97	107
Dup. Result:	10	9.4	9.6	29	64
MSD % Recov.:	100	94	96	97	107
RPD:	1.0	2.1	2.1	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK101697	BLK101697	BLK101697	BLK101697	BLK101697
Prepared Date:	10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Analyzed Date:	10/16/97	10/16/97	10/16/97	10/16/97	10/16/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	10	9.9	10	30	67
LCS % Recov.:	100	99	100	100	112
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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

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EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: Delta Environmental Consultants			**Page** 1 of 1
Address: 3164 Gold Camp Dr. Rancho			**Site Location:** Alameda
Project #:	**Consultant Project #:** 204-832		**Consultant Work Release #:** AB2522
Project Contact: ~~Alameda~~ Richmond	**Phone #:** 638-2085		**Laboratory Work Release #:**
EXXON Contact: Mark Ercenbrack	**Phone #:**		**EXXON RAS #:** 7-0104
Sampled by (print): Jay Stropes	**Sampler's Signature:**		
Shipment Method: Delta	**Air Bill #:**		

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ Standard (10 day)

ANALYSIS REQUIRED 9710694

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE to the Highest	oxygenates	Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
MW-11	10-8-97	1145	H2O	HCl	4		X			↓	X	
MW-6	↓	1230	↓	↓	↓		↓			↓	↓	
											~~X~~	

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
[signature] /Delta	10/9/97	0800	Smith/Sequoia [signature]	10/9/97	0800	
Smith/Sequoia [signature]	10-9			10-9	1010	
	10-9			10/9/97	(illegible)	

Pink - Client
Yellow - Sequoia
White - Sequoia