PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN ENTRIX COMPANY

August 31, 1998
Project 340-086.9A

Mr. Richard Hiett
California Regional Water Quality Control Board – San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Re: **Quarterly Monitoring Report - First and Second Quarter 1998**
Former Texaco Service Station
1127 Lincoln Avenue at Bay Street
Alameda, California

Dear Mr. Hiett:

On behalf of Equilon Enterprises LLC, this letter transmits the results of first and second quarter 1998 groundwater monitoring and sampling conducted at the site referenced above.

If you have any questions or comments regarding this site, please contact me at your convenience at (408) 441-7500.

Sincerely,

Pacific Environmental Group, Inc.

Keith Winemiller, P.E.
Project Engineer

Enclosure

cc: Ms. Karen Petryna, Equiva Services LLC, P.O. Box 8080, Martinez, CA 94553
Mr. Leo Pagano, 1127 Lincoln Avenue, Alameda, CA 94602
Ms. Juliet Shin, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Alameda, CA 94502-6577

2025 Gateway Place, Suite 440 • San Jose, California 95110-1006 (408) 441-7500 FAX (408) 441-7539

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE

July 22, 1998

GROUNDWATER MONITORING AND SAMPLING
First and Second Quarter, 1998
at the
Former Texaco Service Station
1127 Lincoln Avenue
Alameda, California

This report presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on February 4, and May 8, 1998 at the site referenced above (see Figure 1, Site Vicinity Map). The gradient maps have been reviewed by a registered professional (see Figure 2 and Figure 4, Groundwater Elevation Contour Map). TPHg and benzene concentrations are shown on Figure 3 and Figure 5. Tables 1 and 2 list historical groundwater monitoring data and analytical results, respectively. Well MW-7 was not sampled during first quarter, 1998 monitoring due to a car parked over the well. During first quarter and second quarter, 1998 monitoring, well MW-5 was not sampled because the well was paved over.

The certified analytical report, chain-of-custody, field data sheets, bill of lading and quarterly summary report are in the Appendix. Equilon Enterprises LLC's Standard Operating Procedures may be found in the first quarter, 1995 monitoring report.

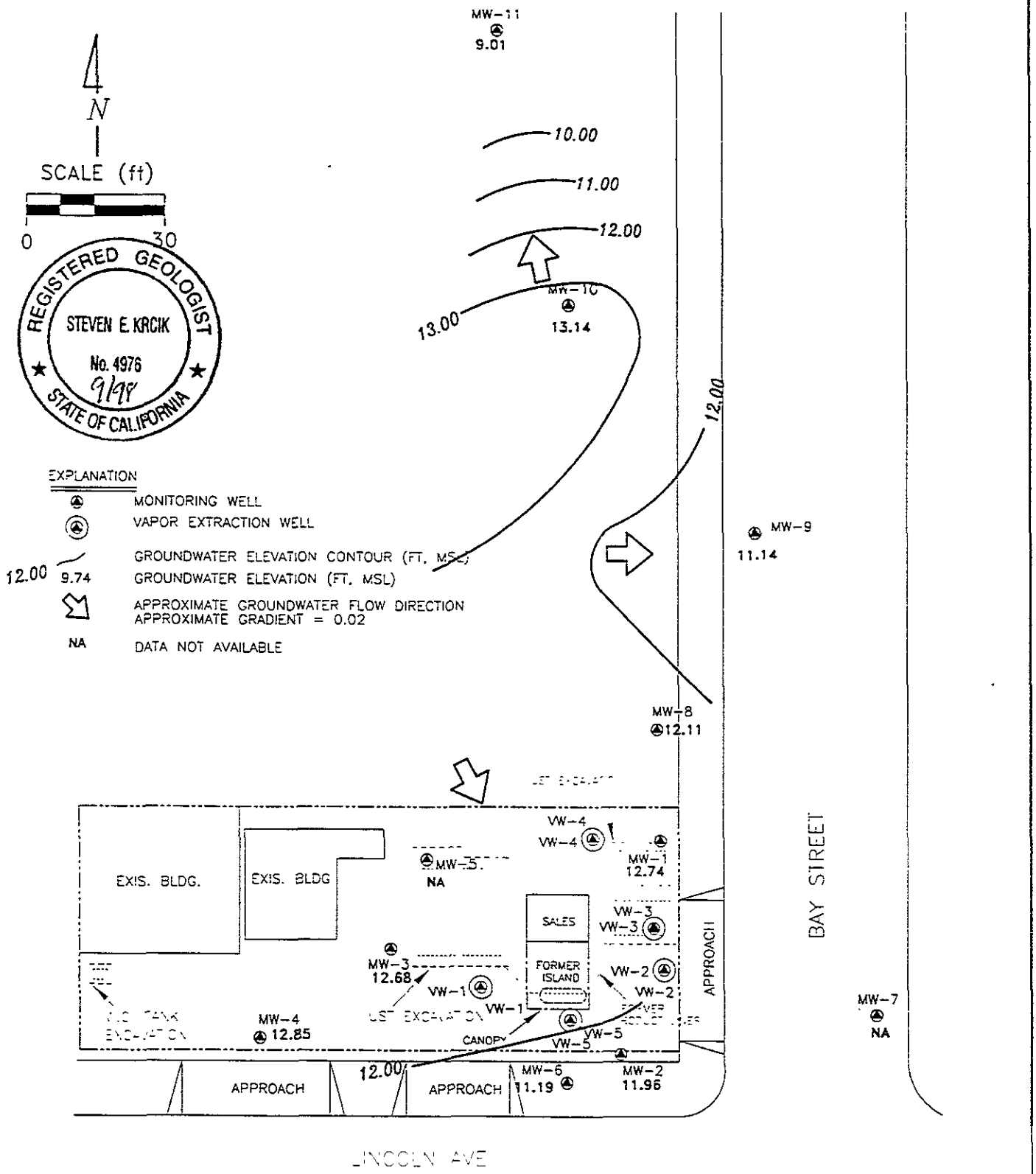
Deidre Kerwin
Operations Manager
Blaine Tech Services, Inc.

DK:mc

Streets Plus

SITE VICINITY MAP

Former Texaco Service Station, 1127 Lincoln Avenue, Alameda, California



TEXACO - ALAMEDA
Basemap from McKesson Engineering 05/04/1994

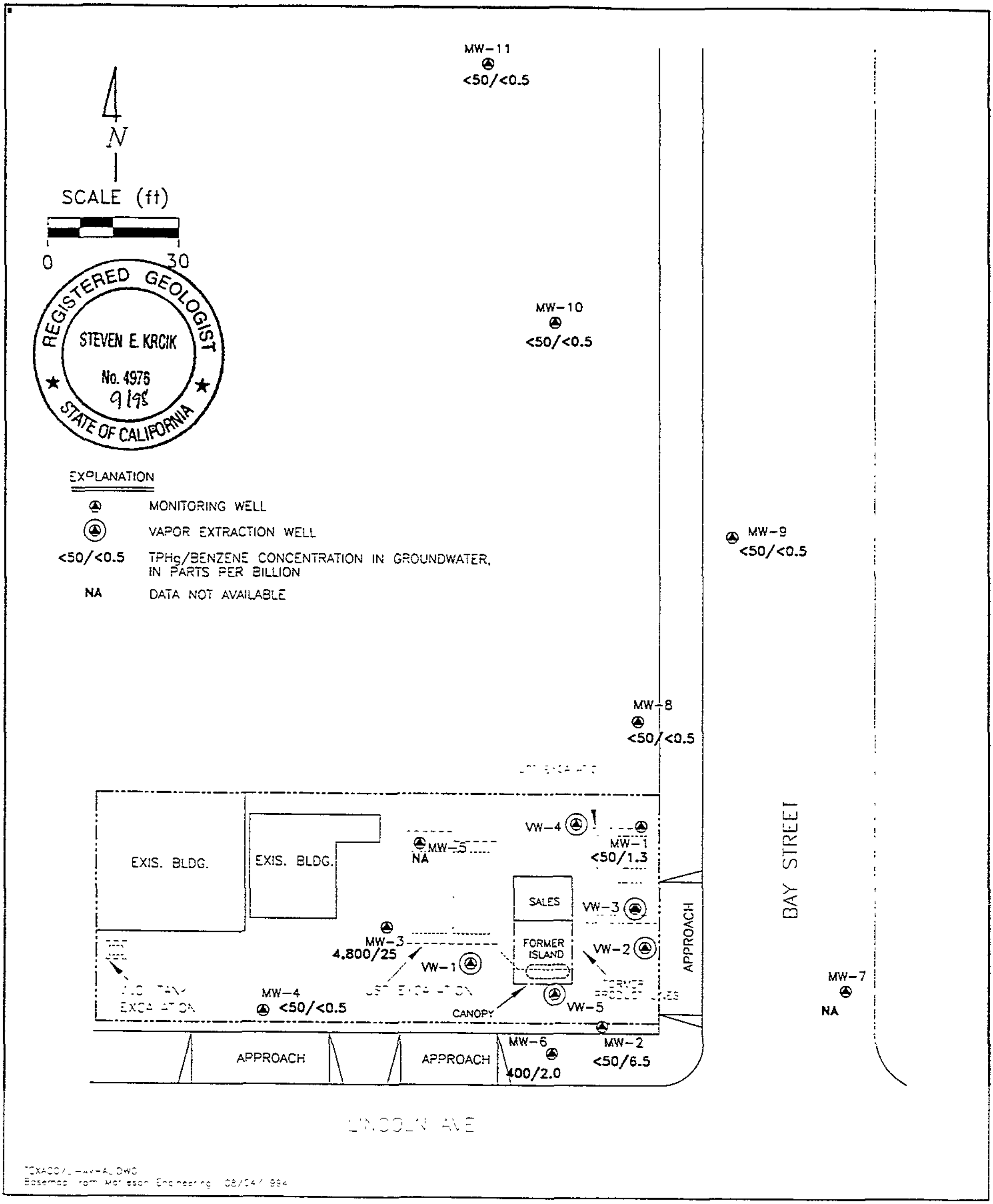
PREPARED BY

RRM
engineering contracting firm

Former Texaco Service Station
1127 Lincoln Avenue
Alameda, California

GROUNDWATER ELEVATION CONTOUR MAP,
FEBRUARY 4, 1998

FIGURE
2
PROJECT
[illegible]



PREPARED BY

RRM

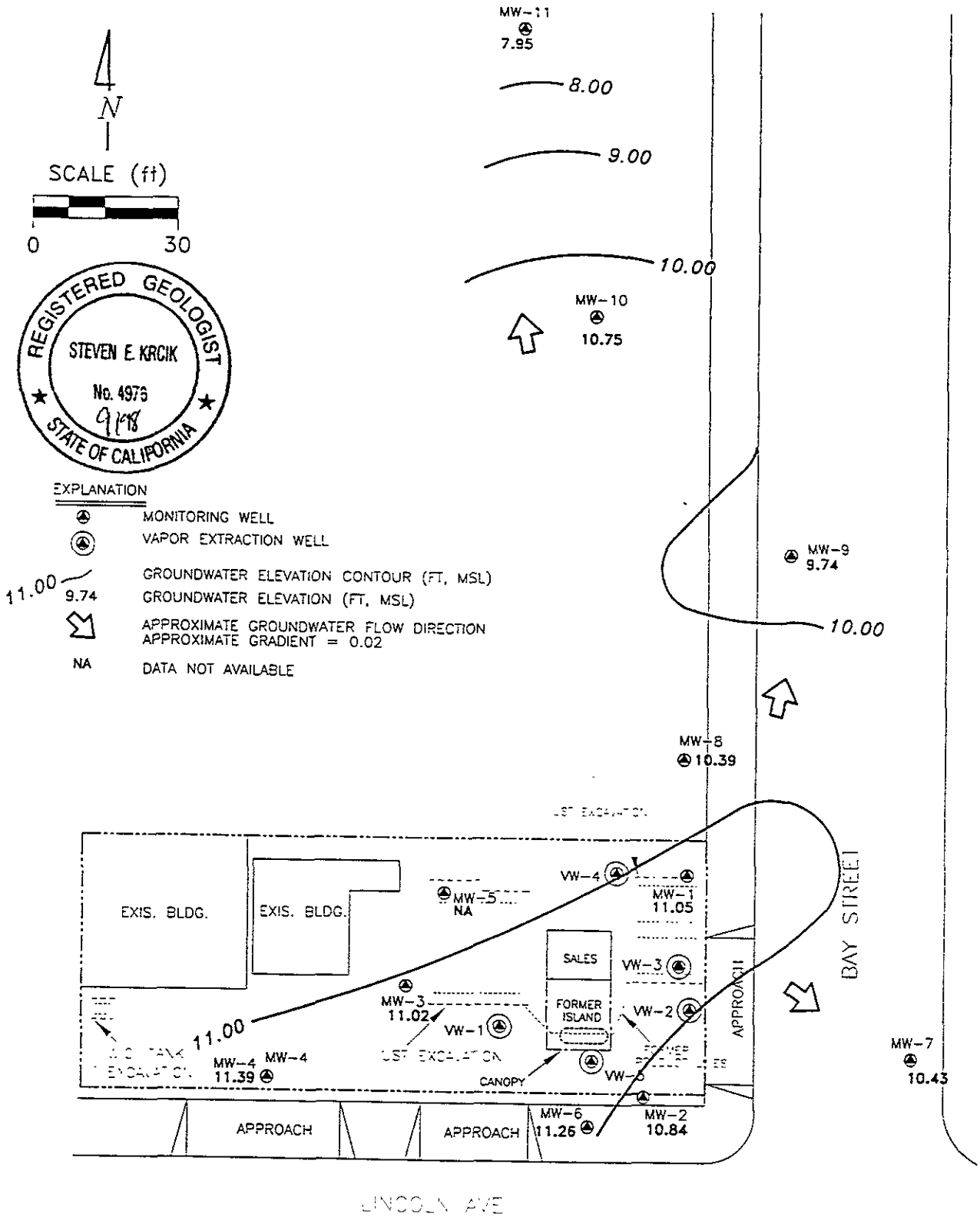
engineering contracting firm

Former Texaco Service Station
1127 Lincoln Avenue
Alameda, California

TPHg/BENZENE CONCENTRATIONS IN GROUNDWATER
FEBRUARY 4, 1998

FIGURE
3

PROJECT:
DA004



TEXACO_FAV-A.DWG
Basemap from Matteson Engineering 08/04/1994

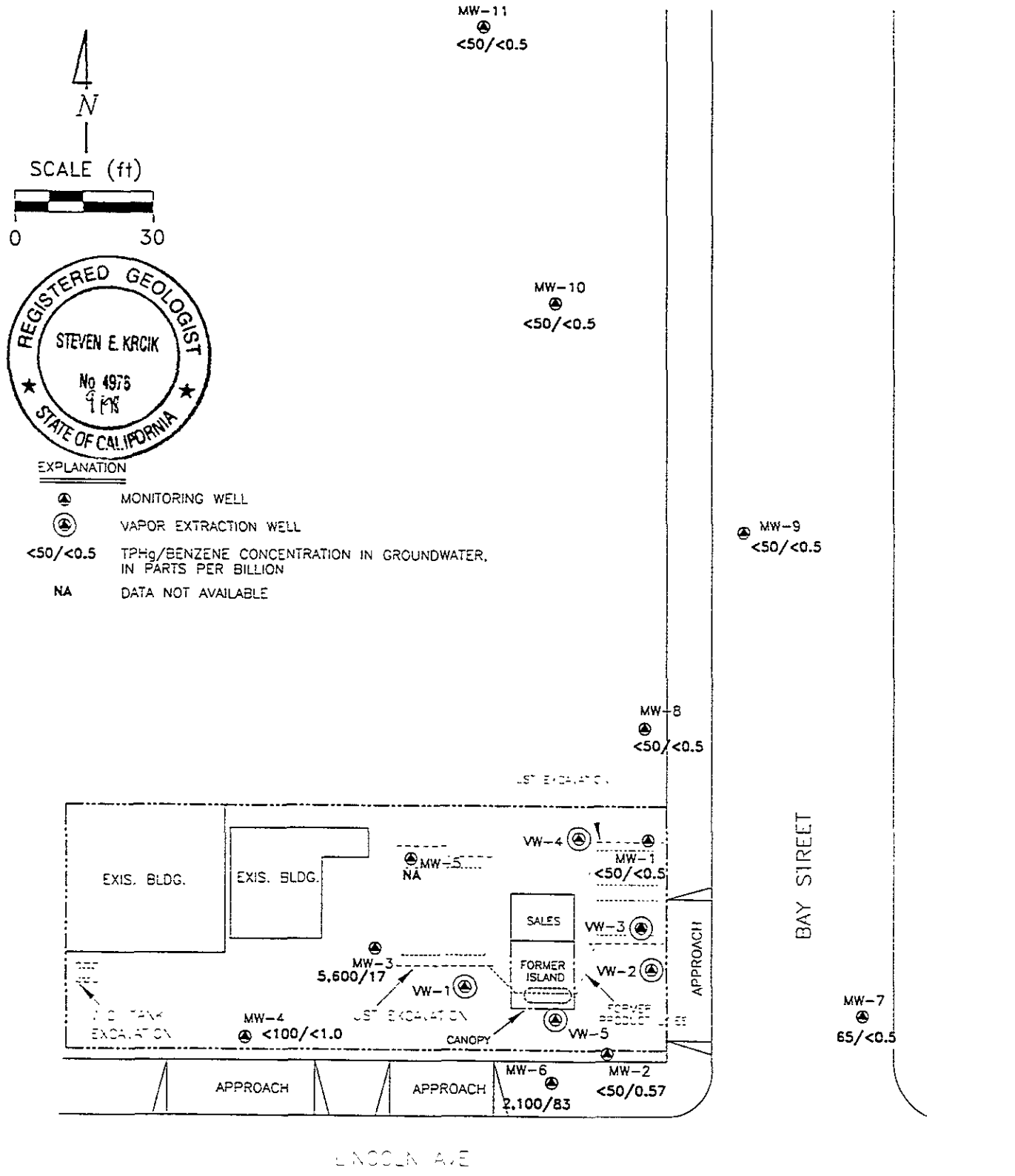
PREPARED BY

RRM
engineering contracting firm

Former Texaco Service Station
[illegible] Lincoln Avenue
Alameda, California

GROUNDWATER ELEVATION CONTOUR MAP,
MAY 8, 1998

FIGURE:
4
PROJECT:
DAC04



TEXACO/LINCOLN.DWG
Basemap from Matteson Engineering 08/04/ 994

PREPARED BY

RRM
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Former Texaco Service Station
1127 Lincoln Avenue
Alameda, California

TPHg/BENZENE CONCENTRATIONS IN GROUNDWATER
MAY 8, 1998

FIGURE
5
PROJECT
DA002

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	Free Product Thickness (feet)
MW-1	01/26/93	16.14	5.63	10.51	None
MW-1	02/04/93	16.14	6.02	10.12	None
MW-1	03/09/93	16.14	5.92	10.22	None
MW-1	05/06/93	16.14	6.76	9.38	None
MW-1	06/15/93	16.14	6.81	9.33	None
MW-1	07/26/93	16.14	NM	NM	NM
MW-1	08/31/93	16.14	NM	NM	NM
MW-1	09/27/93	16.14	NM	NM	NM
MW-1	10/19/93	16.14	NM	NM	NM
MW-1	11/15/93	16.14	NM	NM	NM
MW-1	12/17/93	16.14	NM	NM	NM
MW-1	02/07/94	16.14	NM	NM	NM
MW-1	05/20/94	16.14	NM	NM	NM
MW-1	08/22/94	16.14	7.78	8.36	None
MW-1	11/02/94	16.14	NM	NM	NM
MW-1	02/14/95	16.14	15.16	0.98	None
MW-1	05/19/95	16.14	13.90	2.24	None
MW-1	08/22/95	16.14	7.06	9.08	None
MW-1	10/25/95	16.14	NM	NM	NM
MW-1	02/09/96	16.14	NM	NM	NM
MW-1	04/11/96	16.14	NM	NM	NM
MW-1	08/01/96	16.14	NM	NM	NM
MW-1	11/11/96	16.14	NM	NM	NM
MW-1	02/04/97	16.14	5.40	10.74	None
MW-1	05/02/97	16.14	6.46	9.68	None
MW-1	07/31/97	16.14	6.98	9.16	None
MW-1	10/30/97	16.14	8.00	8.14	None
MW-1	02/04/98	16.14	3.40	12.74	None
MW-1	05/08/98	16.14	5.09	11.05	None

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	Free Product Thickness (feet)
MW-2	01/26/93	16.84	6.29	10.55	None
MW-2	02/04/93	16.84	6.60	10.24	None
MW-2	03/09/93	16.84	6.36	10.48	None
MW-2	05/06/93	16.84	6.37	10.47	None
MW-2	06/15/93	16.84	7.04	9.80	None
MW-2	07/26/93	16.84	NM	NM	NM
MW-2	08/31/93	16.84	NM	NM	NM
MW-2	09/27/93	16.84	NM	NM	NM
MW-2	10/19/93	16.84	NM	NM	NM
MW-2	11/15/93	16.84	NM	NM	NM
MW-2	12/17/93	16.84	NM	NM	NM
MW-2	02/07/94	16.84	NM	NM	NM
MW-2	05/20/94	16.84	NM	NM	NM
MW-2	08/22/94	16.84	8.08	8.76	None
MW-2	11/02/94	16.84	NM	NM	NM
MW-2	02/14/95	16.84	NM	NM	NM
MW-2	05/19/95	16.84	11.77	5.07	None
MW-2	08/22/95	16.84	7.22	9.62	None
MW-2	10/25/95	16.84	12.11	4.73	None
MW-2	02/09/96	16.84	NM	NM	NM
MW-2	04/11/96	16.84	11.20	5.64	None
MW-2	08/01/96	16.84	7.00	9.84	None
MW-2	11/11/96	16.84	NM	NM	NM
MW-2	02/04/97	16.84	5.48	11.36	None
MW-2	05/02/97	16.84	6.93	9.91	None
MW-2	07/31/97	16.84	9.10	7.74	None
MW-2	10/30/97	16.84	8.33	8.51	None
MW-2	02/04/98	16.84	4.88	11.96	None
MW-2	05/08/98	16.84	6.00	10.84	None

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	Free Product Thickness (feet)
MW-3	01/26/93	16.86	5.82	11.04	None
MW-3	02/04/93	16.86	6.01	10.85	None
MW-3	03/09/93	16.86	5.88	10.98	None
MW-3	05/06/93	16.86	6.38	10.48	None
MW-3	06/15/93	16.86	NM	NM	NM
MW-3	07/26/93	16.86	7.22	9.64	None
MW-3	08/31/93	16.86	7.87	8.99	None
MW-3	09/27/93	16.86	8.58	8.28	None
MW-3	10/19/93	16.86	9.13	7.73	None
MW-3	11/15/93	16.86	8.84	8.02	None
MW-3	12/17/93	16.86	7.80	9.06	None
MW-3	02/07/94	16.86	8.43	8.43	None
MW-3	05/20/94	16.86	6.79	10.07	None
MW-3	08/22/94	16.86	8.32	8.54	None
MW-3	11/02/94	16.86	10.98	5.88	None
MW-3	02/14/95	16.86	7.93	8.93	None
MW-3	05/19/95	16.86	8.44	8.42	None
MW-3	08/22/95	16.86	7.54	9.32	None
MW-3	10/25/95	16.86	9.03	7.83	None
MW-3	02/09/96	16.86	7.05	9.81	None
MW-3	04/11/96	16.86	7.44	9.42	None
MW-3	08/01/96	16.86	7.08	9.78	None
MW-3	11/11/96	16.86	7.84	9.02	None
MW-3	02/04/97	16.86	5.17	11.69	None
MW-3	05/02/97	16.86	6.63	10.23	None
MW-3	07/31/97	16.86	7.32	9.54	None
MW-3	10/30/97	16.86	7.46	9.40	None
MW-3	02/04/98	16.86	4.18	12.68	None
MW-3	05/08/98	16.86	5.84	11.02	None

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	Free Product Thickness (feet)
MW-4	01/26/93	17.13	5.91	11.22	None
MW-4	02/04/93	17.13	6.14	10.99	None
MW-4	03/09/93	17.13	5.81	11.32	None
MW-4	05/06/93	17.13	6.49	10.64	None
MW-4	06/15/93	17.13	6.34	10.79	None
MW-4	07/26/93	17.13	7.29	9.84	None
MW-4	08/31/93	17.13	8.02	9.11	None
MW-4	09/27/93	17.13	NM	NM	NM
MW-4	10/19/93	17.13	9.14	7.99	None
MW-4	11/15/93	17.13	9.01	8.12	None
MW-4	12/17/93	17.13	7.91	9.22	None
MW-4	02/07/94	17.13	8.02	9.11	None
MW-4	05/20/94	17.13	6.85	10.28	None
MW-4	08/22/94	17.13	8.48	8.65	None
MW-4	11/02/94	17.13	10.52	6.61	None
MW-4	02/14/95	17.13	6.99	10.14	None
MW-4	05/19/95	17.13	7.61	9.52	None
MW-4	08/22/95	17.13	7.62	9.51	None
MW-4	10/25/95	17.13	8.62	8.51	None
MW-4	02/09/96	17.13	6.60	10.53	None
MW-4	04/11/96	17.13	6.54	10.59	None
MW-4	08/01/96	17.13	7.04	10.09	None
MW-4	11/11/96	17.13	7.95	9.18	None
MW-4	02/04/97	17.13	5.24	11.89	None
MW-4	05/02/97	17.13	6.61	10.52	None
MW-4	07/31/97	17.13	7.40	9.73	None
MW-4	10/30/97	17.13	7.52	9.61	None
MW-4	02/04/98	17.13	4.28	12.85	None
MW-4	05/08/98	17.13	5.74	11.39	None

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	Free Product Thickness (feet)
MW-5	01/26/93	15.59	NM	NM	NM
MW-5	02/04/93	15.59	NM	NM	NM
MW-5	03/09/93	15.59	5.45	10.14	None
MW-5	05/06/93	15.59	6.00	9.59	None
MW-5	06/15/93	15.59	7.81	7.78	None
MW-5	07/26/93	15.59	NM	NM	NM
MW-5	08/31/93	15.59	NM	NM	NM
MW-5	09/27/93	15.59	NM	NM	NM
MW-5	10/19/93	15.59	NM	NM	NM
MW-5	11/15/93	15.59	NM	NM	NM
MW-5	12/17/93	15.59	NM	NM	NM
MW-5	02/07/94	15.59	NM	NM	NM
MW-5	05/20/94	15.59	NM	NM	NM
MW-5	08/22/94	15.59	7.27	8.32	None
MW-5	11/02/94	15.59	NM	NM	NM
MW-5	02/14/95	15.59	NM	NM	NM
MW-5	05/19/95	15.59	11.55	4.04	None
MW-5	08/22/95	15.59	6.02	9.57	None
MW-5	10/25/95	15.59	11.05	4.54	None
MW-5	02/09/96	15.59	6.70	8.89	None
MW-5	04/11/96	15.59	12.21	3.38	None
MW-5	08/01/96	15.59	2.80	12.79	None
MW-5	11/11/96	15.59	NM	NM	NM
MW-5	02/04/97	15.59	NM	NM	NM
MW-5	05/02/97	15.59	7.01	8.58	None
MW-5	07/31/97	15.59	6.78	8.81	None
MW-5	10/30/97	15.59	7.69	7.90	None
MW-5	02/04/98	Well Inaccessible			
MW-5	05/08/98	Well Inaccessible			

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	Free Product Thickness (feet)
MW-6	01/26/93	17.05	6.63	10.42	None
MW-6	02/04/93	17.05	6.48	10.57	None
MW-6	03/09/93	17.05	6.68	10.37	None
MW-6	05/06/93	17.05	6.93	10.12	None
MW-6	06/15/93	17.05	7.00	10.05	None
MW-6	07/26/93	17.05	7.25	9.80	None
MW-6	08/31/93	17.05	7.83	9.22	None
MW-6	09/27/93	17.05	8.38	8.67	None
MW-6	10/19/93	17.05	8.76	8.29	None
MW-6	11/15/93	17.05	8.65	8.40	None
MW-6	12/17/93	17.05	7.78	9.27	None
MW-6	02/07/94	17.05	7.90	9.15	None
MW-6	05/20/94	17.05	6.95	10.10	None
MW-6	08/22/94	17.05	8.17	8.88	None
MW-6	11/02/94	17.05	10.56	6.49	None
MW-6	02/14/95	17.05	8.08	8.97	None
MW-6	05/19/95	17.05	8.51	8.54	None
MW-6	08/22/95	17.05	7.50	9.55	None
MW-6	10/25/95	17.05	8.61	8.44	None
MW-6	02/09/96	17.05	7.26	9.79	None
MW-6	04/11/96	17.05	7.41	9.64	None
MW-6	08/01/96	17.05	7.10	9.95	None
MW-6	11/11/96	17.05	8.04	9.01	None
MW-6	02/04/97	17.05	6.10	10.95	None
MW-6	05/02/97	17.05	7.07	9.98	None
MW-6	07/31/97	17.05	7.43	9.62	None
MW-6	10/30/97	17.05	7.59	9.46	None
MW-6	02/04/98	17.05	5.86	11.19	None
MW-6	05/08/98	17.05	5.79	11.26	None

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	Free Product Thickness (feet)
MW-7	01/26/93	16.65	6.53	10.12	None
MW-7	02/04/93	16.65	6.40	10.25	None
MW-7	03/09/93	16.65	6.52	10.13	None
MW-7	05/06/93	16.65	NM	NM	NM
MW-7	06/15/93	16.65	6.69	9.96	None
MW-7	07/26/93	16.65	NM	NM	NM
MW-7	08/31/93	16.65	NM	NM	NM
MW-7	09/27/93	16.65	7.97	8.68	None
MW-7	10/19/93	16.65	8.24	8.41	None
MW-7	11/15/93	16.65	8.22	8.43	None
MW-7	12/17/94	16.65	NM	NM	NM
MW-7	02/07/94	16.65	NM	NM	NM
MW-7	05/20/94	16.65	NM	NM	NM
MW-7	08/22/94	16.65	7.78	8.87	None
MW-7	11/02/94	16.65	9.70	6.95	None
MW-7	02/14/95	16.65	NM	NM	NM
MW-7	05/19/95	16.65	7.33	9.32	None
MW-7	08/22/95	16.65	6.72	9.93	None
MW-7	10/25/95	16.65	NM	NM	NM
MW-7	02/09/96	16.65	7.06	9.59	None
MW-7	04/11/96	16.65	NM	NM	NM
MW-7	08/01/96	16.65	6.94	9.71	None
MW-7	11/11/96	16.65	NM	NM	NM
MW-7	02/04/97	16.65	NM	NM	NM
MW-7	05/02/97	16.65	6.58	10.07	None
MW-7	07/31/97	16.65	7.04	9.61	None
MW-7	10/30/97	16.65	7.02	9.63	None
MW-7	02/04/98	Well Inaccessible			
MW-7	05/08/98	16.65	6.22	10.43	None

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	Free Product Thickness (feet)
MW-8	01/26/93	15.87	5.30	10.57	None
MW-8	02/04/93	15.87	5.62	10.25	None
MW-8	03/09/93	15.87	5.56	10.31	None
MW-8	05/06/93	15.87	5.99	9.88	None
MW-8	06/15/93	15.87	6.32	9.55	None
MW-8	07/26/93	15.87	6.75	9.12	None
MW-8	08/31/93	15.87	7.35	8.52	None
MW-8	09/27/93	15.87	7.86	8.01	None
MW-8	10/19/93	15.87	8.27	7.60	None
MW-8	11/15/93	15.87	8.17	7.70	None
MW-8	12/17/93	15.87	7.14	8.73	None
MW-8	02/07/94	15.87	7.26	8.61	None
MW-8	05/20/94	15.87	6.17	9.70	None
MW-8	08/22/94	15.87	7.63	8.24	None
MW-8	11/02/94	15.87	10.16	5.71	None
MW-8	02/14/95	15.87	7.32	8.55	None
MW-8	05/19/95	15.87	7.83	8.04	None
MW-8	08/22/95	15.87	6.98	8.89	None
MW-8	10/25/95	15.87	8.16	7.71	None
MW-8	02/09/96	15.87	4.89	10.98	None
MW-8	04/11/96	15.87	8.48	7.39	None
MW-8	08/01/96	15.87	6.60	9.27	None
MW-8	11/11/96	15.87	7.28	8.59	None
MW-8	02/04/97	15.87	5.39	10.48	None
MW-8	05/02/97	15.87	6.28	9.59	None
MW-8	07/31/97	15.87	6.84	9.03	None
MW-8	10/30/97	15.87	6.66	9.21	None
MW-8	02/04/98	15.87	3.76	12.11	None
MW-8	05/08/98	15.87	5.48	10.39	None
MW-9	08/22/95	14.44	6.00	8.44	None
MW-9	10/25/95	14.44	6.71	7.73	None
MW-9	02/09/96	14.44	4.87	9.57	None
MW-9	04/11/96	14.44	5.40	9.04	None
MW-9	08/01/96	14.44	5.69	8.75	None
MW-9	11/11/96	14.44	6.44	8.00	None
MW-9	02/04/97	14.44	4.30	10.14	None
MW-9	05/02/97	14.44	5.34	9.10	None
MW-9	07/31/97	14.44	5.97	8.47	None
MW-9	10/30/97	14.44	6.15	8.29	None
MW-9	02/04/98	14.44	3.30	11.14	None
MW-9	05/08/98	14.44	4.70	9.74	None

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	Free Product Thickness (feet)
MW-10	08/22/95	15.04	6.86	8.18	None
MW-10	10/25/95	15.04	7.91	7.13	None
MW-10	02/09/96	15.04	4.45	10.59	None
MW-10	04/11/96	15.04	4.61	10.43	None
MW-10	08/01/96	15.04	6.25	8.79	None
MW-10	11/11/96	15.04	7.42	7.62	None
MW-10	02/04/97	15.04	4.00	11.04	None
MW-10	05/02/97	15.04	5.52	9.52	None
MW-10	07/31/97	15.04	6.68	8.36	None
MW-10	10/30/97	15.04	6.92	8.12	None
MW-10	02/04/98	15.04	1.90	13.14	None
MW-10	05/08/98	15.04	4.29	10.75	None
MW-11	08/22/95	10.61	5.12	5.49	None
MW-11	10/25/95	10.61	NM	NM	NM
MW-11	02/09/96	10.61	2.73	7.88	None
MW-11	04/11/96	10.61	3.00	7.61	None
MW-11	08/01/96	10.61	4.66	5.95	None
MW-11	11/11/96	10.61	5.85	4.76	None
MW-11	02/04/97	10.61	2.20	8.41	None
MW-11	05/02/97	10.61	3.95	6.66	None
MW-11	07/31/97	10.61	5.33	5.28	None
MW-11	10/30/97	10.61	5.76	4.85	None
MW-11	02/04/98	10.61	1.60	9.01	None
MW-11	05/08/98	10.61	2.66	7.95	None
ND = None Detected					
TOC = Top of Casing					
MSL = Mean Sea Level					

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	Methyl-tert-butylether (ppb)	TPHd (ppb)
MW-1	02/04/93	120	22	3.1	3.3	10	NS	NS
MW-1	05/06/93	710	320	3.1	4.2	20	NS	NS
MW-1	09/28/93	NS	NS	NS	NS	NS	NS	NS
MW-1	11/15/93	NS	NS	NS	NS	NS	NS	NS
MW-1	02/07/94	NS	NS	NS	NS	NS	NS	NS
MW-1	05/20/94	NS	NS	NS	NS	NS	NS	NS
MW-1	08/22/94	NS	NS	NS	NS	NS	NS	NS
MW-1	11/03/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-1	02/14/95	350	40	1.6	15	31	NS	NS
MW-1	05/19/95	220	35	2.4	7.2	23	NS	NS
MW-1	08/22/95	330	44	1.2	14	21	<10	NS
MW-1	10/25/95	<50	1.6	<0.5	<0.5	<0.5	NS	NS
MW-1	02/09/96	160	3.2	1.5	0.89	2.7	NS	NS
MW-1	04/11/96	1300	300	85	25	110	NS	NS
MW-1	08/01/96	3700	1100	80	46	210	NS	NS
MW-1	11/11/96	NS	NS	NS	NS	NS	NS	NS
MW-1	02/04/97	NS	NS	NS	NS	NS	NS	NS
MW-1	05/02/97	650	63	<3	4.3	2.2	<30	NS
MW-1	07/31/97	440	99	1.6	2.6	5.8	<30	NS
MW-1	10/30/97	290	48	0.5	0.93	1.9	<30	NS
MW-1	02/04/98	<50	1.3	<0.5	<0.5	<0.5	NS	NS
MW-1	05/08/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NS
MW-2	02/04/93	430	45	0.5	20	30	NS	NS
MW-2	05/06/93	2000	460	2.4	160	66	NS	NS
MW-2	09/28/93	NS	NS	NS	NS	NS	NS	NS
MW-2	11/15/93	NS	NS	NS	NS	NS	NS	NS
MW-2	02/07/94	NS	NS	NS	NS	NS	NS	NS
MW-2	05/20/94	NS	NS	NS	NS	NS	NS	NS
MW-2	08/22/94	NS	NS	NS	NS	NS	NS	NS
MW-2	11/02/94	NS	NS	NS	NS	NS	NS	NS
MW-2	02/14/95	NS	NS	NS	NS	NS	NS	NS
MW-2	05/19/95	580	75	19	5.1	30	NS	NS
MW-2	08/22/95	1200	130	8.3	84	86	<10	NS
MW-2	10/25/95	350	79	1.2	55	13	NS	NS
MW-2	02/09/96	<50	1.5	0.53	1.1	1.5	NS	NS
MW-2	04/11/96	80	1.5	<0.5	<0.5	<0.5	NS	NS
MW-2	08/01/96	330	42	0.55	20	8.1	NS	NS
MW-2	11/11/96	NS	NS	NS	NS	NS	NS	NS
MW-2	02/04/97	NS	NS	NS	NS	NS	NS	NS
MW-2	05/02/97	<50	1.5	<0.5	<0.5	0.50	<30	NS
MW-2	07/31/97	50	1.8	<0.5	<0.5	<0.5	74	NS
MW-2	10/30/97	63	3.1	<0.5	0.55	1.1	34	NS
MW-2	02/04/98	<50	6.5	<0.5	1.2	<0.5	NS	NS
MW-2	05/08/98	<50	0.57	<0.5	<0.5	<0.5	<2.5	NS

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	Methyl-tert-butylether (ppb)	TPHd (ppb)
MW-3	02/04/93	2900	180	13	210	350	NS	NS
MW-3	05/06/93	2700	270	6.2	300	720	NS	NS
MW-3	09/28/93	1800	92	1.7	99	240	NS	NS
MW-3	11/15/93	1900	100	2.4	85	280	NS	NS
MW-3	02/07/94	1400	69	3.3	100	320	NS	NS
MW-3	05/20/94	1100	64	19	120	180	NS	NS
MW-3	08/22/94	77	4.3	<0.5	2.0	5.6	NS	NS
MW-3	11/02/94	<50	0.75	<0.5	<0.5	<0.5	NS	NS
MW-3	02/14/95	1300	24	5.2	85	360	NS	NS
MW-3	05/19/95	5300	98	28	650	1700	NS	NS
MW-3	08/22/95	700	4.1	1.1	50	72	<10	NS
MW-3	10/25/95	<50	2.4	<0.5	<0.5	1.6	NS	NS
MW-3	02/09/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-3	04/11/96	2000	11	3.9	190	500	NS	NS
MW-3	08/01/96	1500	8.4	<0.5	160	150	NS	NS
MW-3	11/11/96	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-3	02/04/97	1500	12	1.3	210	330	<30	NS
MW-3	05/02/97	3100	35	<3	520	540	<30	NS
MW-3	07/31/97	1200	11	<0.5	140	100	<30	NS
MW-3	10/30/97	520	6.1	<0.5	58	46	<30	NS
MW-3	02/04/98	4,800	25	4.0	660	1,200	NS	NS
MW-3	05/08/98	5,600	17	6.7	300	590	11	NS
MW-4	02/04/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-4	05/06/93	<50	1.6	<0.5	1	2.1	NS	NS
MW-4	09/28/93	NS	NS	NS	NS	NS	NS	NS
MW-4	11/15/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-4	02/07/94	<50	<0.5	<0.5	<0.5	2.6	NS	NS
MW-4	05/20/94	82	6.2	7.6	3.3	17	NS	NS
MW-4	08/22/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-4	11/02/94	<50	<0.5	0.56	<0.5	<0.5	NS	NS
MW-4	02/14/95	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-4	05/19/95	66	0.77	0.63	0.87	3.6	NS	NS
MW-4	08/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10	NS
MW-4	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-4	02/09/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-4	04/11/96	NS	NS	NS	NS	NS	NS	NS
MW-4	08/01/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-4	11/11/96	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-4	02/04/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-4	05/02/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-4	07/31/97	<50	7.2	<0.5	0.66	2.0	<30	NS
MW-4	10/30/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-4	02/04/98	<50	<0.5	<0.5	<0.5	<0 5	NS	NS
MW-4	05/08/98	<100	<1 0	<1.0	<1.0	<1.0	<5.0	NS

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	Methyl-tert-butylether (ppb)	TPHd (ppb)
MW-5	02/04/93	NS	NS	NS	NS	NS	NS	NS
MW-5	05/06/93	6200	460	980	300	1200	NS	NS
MW-5	09/28/93	NS	NS	NS	NS	NS	NS	NS
MW-5	11/15/93	NS	NS	NS	NS	NS	NS	NS
MW-5	02/07/94	NS	NS	NS	NS	NS	NS	NS
MW-5	05/20/94	NS	NS	NS	NS	NS	NS	NS
MW-5	08/22/94	NS	NS	NS	NS	NS	NS	NS
MW-5	11/03/94	5700	800	400	4.7	600	NS	NS
MW-5	02/14/95	1300	290	76	21	140	NS	NS
MW-5	05/19/95	600	83	20	5.7	33	NS	NS
MW-5	08/22/95	8100	650	720	54	1700	<50	NS
MW-5	10/25/95	1500	290	85	15	170	NS	NS
MW-5	02/09/96	1000	120	49	26	130	NS	NS
MW-5	04/11/96	210	5.7	<0.5	9.2	22	NS	NS
MW-5	08/01/96	86	<0.5	<0.5	<0.5	5.3	NS	NS
MW-5	11/11/96	NS	NS	NS	NS	NS	NS	NS
MW-5	02/04/97	NS	NS	NS	NS	NS	NS	NS
MW-5	05/02/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-5	07/31/97	110	5.8	3.2	5.8	17	<30	NS
MW-5	10/30/97	50	0.84	<0.5	0.51	5.2	<30	NS
MW-5	02/04/98	Well Inaccessible						
MW-5	05/08/98	Well Inaccessible						
MW-6	02/04/93	2300	19	5.4	27	220	NS	NS
MW-6	05/06/93	540	44	0.9	7	6.7	NS	NS
MW-6	09/28/93	180	2.7	0.73	6.3	13	NS	NS
MW-6	11/15/93	180	2.2	0.91	5.4	16	NS	NS
MW-6	02/07/94	240	2.9	1.2	3.9	7.1	NS	NS
MW-6	05/20/94	600	4.5	2.2	24	66	NS	NS
MW-6	08/22/94	400	3.2	1	7.9	40	NS	NS
MW-6	11/02/94	150	1.6	1.3	6.5	27	NS	NS
MW-6	02/14/95	770	4.0	2.9	42	130	NS	NS
MW-6	05/19/95	2400	6.9	11	99	350	NS	NS
MW-6	08/22/95	190	1.0	1.7	5.2	18	<10	NS
MW-6	10/25/95	910	5.5	3.3	50	160	NS	NS
MW-6	02/09/96	4100	3.8	9.9	60	270	NS	NS
MW-6	04/11/96	NS	NS	NS	NS	NS	NS	NS
MW-6	08/01/96	2200	5.1	2.4	160	170	NS	NS
MW-6	11/11/96	1000	3.7	1.5	38	1100	<30	NS
MW-6	02/04/97	2500	21	3.1	180	320	<30	NS
MW-6	05/02/97	1600	33	1.6	92	180	<30	NS
MW-6	07/31/97	2600	8.8	5.8	140	280	<30	NS
MW-6	10/30/97	1100	3.5	<0.5	64	97	<30	NS
MW-6	02/04/98	400	2.0	0.55	3.3	36	NS	NS
MW-6	05/08/98	2100	83	11	150	250	110	NS

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	Methyl-tert-butylether (ppb)	TPHd (ppb)
MW-7	02/04/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-7	05/06/93	NS	NS	NS	NS	NS	NS	NS
MW-7	09/28/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-7	11/15/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-7	02/07/94	NS	NS	NS	NS	NS	NS	NS
MW-7	05/20/94	NS	NS	NS	NS	NS	NS	NS
MW-7	08/22/94	130	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-7	11/02/94	73	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-7	02/14/95	NS	NS	NS	NS	NS	NS	NS
MW-7	05/19/95	<50	<0.5	<0.5	<0.5	2.3	NS	NS
MW-7	08/22/95	400	<0.5	<0.5	<0.5	0.76	<10	NS
MW-7	10/25/95	NS	NS	NS	NS	NS	NS	NS
MW-7	02/09/96	NS	NS	NS	NS	NS	NS	NS
MW-7	04/11/96	NS	NS	NS	NS	NS	NS	NS
MW-7	08/01/96	460	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-7	11/11/96	NS	NS	NS	NS	NS	NS	NS
MW-7	02/04/97	NS	NS	NS	NS	NS	NS	NS
MW-7	05/02/97	150	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-7	07/31/97	100	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-7	10/30/97	74	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-7	02/04/98	Well Inaccessible						
MW-7	05/08/98	65	<0.5	<0.5	<0.5	1.0	<2.5	NS
MW-8	02/04/93	540	150	3.7	5.2	10	NS	NS
MW-8	05/06/93	22000	9,400	46	390	520	NS	NS
MW-8	09/28/93	8000	1,700	22	30	75	NS	NS
MW-8	11/15/93	2000	840	8.8	15	42	NS	NS
MW-8	02/07/94	1700	460	0.6	13	5	NS	NS
MW-8	05/20/94	110	98	1.4	1.3	3.4	NS	NS
MW-8	08/22/94	51	16	<0.5	<0.5	<0.5	NS	NS
MW-8	11/02/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-8	02/14/95	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-8	05/19/95	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-8	08/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10	NS
MW-8	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-8	02/09/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-8	04/11/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-8	08/01/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-8	11/11/96	<50	1.3	<0.5	<0.5	0.67	<30	NS
MW-8	02/04/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-8	05/02/97	<50	1.6	<0.5	<0.5	<0.5	<30	NS
MW-8	07/31/97	960	520	<0.5	2.3	6.4	<30	NS
MW-8	10/30/97	150	51	<0.5	2.5	<0.5	<30	NS
MW-8	02/04/98	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-8	05/08/98	<50	<0.5	<0.5	<0.5	<0.5	5.4	NS

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	Methyl-tert-butylether (ppb)	TPHd (ppb)
MW-9	08/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10	NS
MW-9	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-9	02/09/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-9	04/11/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-9	08/01/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-9	11/11/96	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-9	02/04/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-9	05/02/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-9	07/31/97	120	4.3	3.0	3.2	9.8	<30	NS
MW-9	10/30/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-9	02/04/98	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-9	10/30/97	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NS
MW-10	08/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10	NS
MW-10	10/25/95	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-10	02/09/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-10	04/11/96	<50	0.67	1.8	1.3	7.7	NS	NS
MW-10	08/01/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-10	11/11/96	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-10	02/04/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-10	05/02/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-10	07/31/97	85	2.6	1.4	2.3	6.8	<30	NS
MW-10	10/30/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-10	02/04/98	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-10	05/08/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NS
MW-11	08/22/95	<50	<0.5	<0.5	<0.5	<0.5	<10	NS
MW-11	10/25/95	NS	NS	NS	NS	NS	NS	NS
MW-11	02/09/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-11	04/11/96	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-11	08/01/96	76	6.8	5.3	2.7	9.1	NS	NS
MW-11	11/11/96	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-11	02/04/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-11	05/02/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-11	07/31/97	170	11	4.5	6.4	19	<30	NS
MW-11	10/30/97	<50	<0.5	<0.5	<0.5	<0.5	<30	NS
MW-11	02/04/98	<50	<0.5	<0.5	<0.5	<0.5	NS	NS
MW-11	05/08/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NS

ppb = parts per billion
NS = Not Sampled
TPHg = Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel

APPENDIX

ANALYTICAL REPORT

Our Quality Control Is Your Quality Assurance

LOG NO: G98-02-195

Received: 09 FEB 98

Mailed: FEB 25 1998

Ms. Rebecca Digerness
Texaco Refining and Marketing
108 Cutting Boulevard
Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP9001L

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
02-195-1	MW1	04 FEB 98
02-195-2	MW2	04 FEB 98
02-195-3	MW3	04 FEB 98
02-195-4	MW4	04 FEB 98
02-195-5	MW6	04 FEB 98

PARAMETER	02-195-1	02-195-2	02-195-3	02-195-4	02-195-5
GRO (8015M.TX)					
Date Analyzed	02/12/98	02/12/98	02/12/98	02/12/98	02/12/98
Dilution Factor, Times	1	1	1	1	1
Benzene, ug/L	1.3	6.5	25	<0.5	2.0
Toluene, ug/L	<0.5	<0.5	4.0	<0.5	0.55
Ethylbenzene, ug/L	<0.5	1.2	660	<0.5	3.3
Total Xylene Isomers, ug/L	<0.5	<0.5	1200	<0.5	36
Carbon Range, .	C6-C12	C6-C12	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	<50	<50	4800	<50	400
Other GRO (8015M.TX)	---	---	---	---	---
Surrogates **					
a,a,a-Trifluorotoluene Rep., ug/L	52.5	54.5	50.0	51.9	50.3
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0	50.0	50.0	50.0

LOG NO: G98-02-195

Received: 09 FEB 98

Ms. Rebecca Digerness
Texaco Refining and Marketing
108 Cutting Boulevard
Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP9001L

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
02-195-6	MW8	04 FEB 98
02-195-7	MW9	04 FEB 98
02-195-8	MW10	04 FEB 98
02-195-9	MW11	04 FEB 98

PARAMETER	02-195-6	02-195-7	02-195-8	02-195-9
GRO (8015M.TX)				
Date Analyzed	02/12/98	02/12/98	02/12/98	02/12/98
Dilution Factor, Times	1	1	1	1
Benzene, ug/L	<0.5	<0.5	<0.5	<0.5
Toluene, ug/L	<0.5	<0.5	<0.5	<0.5
Ethylbenzene, ug/L	<0.5	<0.5	<0.5	<0.5
Total Xylene Isomers, ug/L	<0.5	<0.5	<0.5	<0.5
Carbon Range, .	C6-C12	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	<50	<50	<50	<50
Other GRO (8015M.TX)	---	---	---	---
Surrogates **				
a,a,a-Trifluorotoluene Rep., ug/L	53.2	52.0	55.1	53.0
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0	50.0	50.0

LOG NO: G98-02-195

Received: 09 FEB 98

Ms. Rebecca Digerness
Texaco Refining and Marketing
108 Cutting Boulevard
Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP9001L

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
02-195-10	EB	04 FEB 98

PARAMETER	02-195-10
GRO (8015M.TX)	
Date Analyzed	02/12/98
Dilution Factor, Times	1
Benzene, ug/L	<0.5
Toluene, ug/L	<0.5
Ethylbenzene, ug/L	<0.5
Total Xylene Isomers, ug/L	<0.5
Carbon Range, .	C6-C12
TPH (Gasoline Range), ug/L	<50
Other GRO (8015M.TX)	---
Surrogates **	
a,a,a-Trifluorotoluene Rep., ug/L	51.9
a,a,a-Trifluorotoluene Th., ug/L	50.0

LOG NO: G98-02-195

Received: 09 FEB 98

Ms. Rebecca Digerness
Texaco Refining and Marketing
108 Cutting Boulevard
Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP9001L

REPORT OF ANALYTICAL RESULTS

Karen Petryna
1127 Lincoln Ave., Alameda

Greta Galoustian, Laboratory Director

: ORDER PLACED FOR CLIENT: Texaco Refining and Marketing 9802195 :
: VOC ANALYTICAL : GLEN LAB : 09:51:50 25 FEB 1998 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9802195*1	MW1	GAS.BTX.TESNC	02.12.98	8015M.TX	536-43	9810014	1030
9802195*2	MW2	GAS.BTX.TESNC	02.12.98	8015M.TX	536-43	9810014	1030
9802195*3	MW3	GAS.BTX.TESNC	02.12.98	8015M.TX	536-43	9810014	1030
9802195*4	MW4	GAS.BTX.TESNC	02.12.98	8015M.TX	536-23	985023	7424
9802195*5	MW6	GAS.BTX.TESNC	02.12.98	8015M.TX	536-23	985023	7424
9802195*6	MW8	GAS.BTX.TESNC	02.12.98	8015M.TX	536-23	985023	7424
9802195*7	MW9	GAS.BTX.TESNC	02.12.98	8015M.TX	536-23	985023	7424
9802195*8	MW10	GAS.BTX.TESNC	02.12.98	8015M.TX	536-23	985023	7424
9802195*9	MW11	GAS.BTX.TESNC	02.12.98	8015M.TX	536-23	985023	7424
9802195*10	EB	GAS.BTX.TESNC	02.12.98	8015M.TX	536-23	985023	7424

***

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

AQUEOUS SAMPLES

		------ METHOD BLANK ------			---------- LAB CONTROL ----------								---------- MATRIX QC ----------							
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RDL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: GAS*985023 Method: 8015M.TX - Modified 8015																						
Benzene	ug/L	0	0.5	-	89	-	-	-	76	155	-	-	-	91	-	90	-	70	153	1	25	-
Toluene	ug/L	0	0.5	-	91	-	-	-	72	121	-	-	-	85	-	83	-	69	119	2	25	-
Ethylbenzene	ug/L	0	0.5	-	92	-	-	-	72	115	-	-	-	89	-	92	-	68	116	3	25	-
Total Xylene Isomers	ug/L	0	0.5	-	97	-	-	-	68	115	-	-	-	80	-	82	-	61	118	2	25	-
TPH (Gasoline Range)	ug/L	0	50	-	96	-	-	-	85	120	-	-	-	102	-	99	-	78	124	3	25	-
[a,a,a Trifluorotoluene]	Percent	108	-	-	97	-	-	-	85	118	-	-	-	117	-	117	-	85	118	-	-	-
Batch: GAS*9810014 Method: 8015M.TX - Modified 8015																						
Benzene	ug/L	0	0.5	-	92	-	101	-	76	155	10	-	-	122	-	116	-	70	153	2	25	-
Toluene	ug/L	0	0.5	-	90	-	99	-	72	121	9	-	-	77	-	80	-	69	119	4	25	-
Ethylbenzene	ug/L	0	0.5	-	90	-	101	-	72	115	12	-	-	-	NC	-	NC	-	-	-	-	NC
Total Xylene Isomers	ug/L	0	0.5	-	91	-	99	-	68	115	9	-	-	-	NC	-	NC	-	-	-	-	NC
TPH (Gasoline Range)	ug/L	0	50	-	95	-	90	-	85	120	5	-	-	-	NC	-	NC	78	124	-	25	NC
[a,a,a-Trifluorotoluene]	Percent	105	-	-	98	-	106	-	85	118	-	-	-	100	-	100	-	85	118	-	-	-

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 09:51:35 25 FEB 1998 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9802195*1							
8015M.TX	a,a,a-Trifluorotoluene	Re9810014	02/12/98	52.5	50.0	105	
9802195*2							
8015M.TX	a,a,a-Trifluorotoluene	Re9810014	02/12/98	54.5	50.0	109	
9802195*3							
8015M.TX	a,a,a-Trifluorotoluene	Re9810014	02/12/98	50.0	50.0	100	
9802195*4							
8015M.TX	a,a,a-Trifluorotoluene	Re985023	02/12/98	51.9	50.0	104	
9802195*5							
8015M.TX	a,a,a-Trifluorotoluene	Re985023	02/12/98	50.3	50.0	101	
9802195*6							
8015M.TX	a,a,a-Trifluorotoluene	Re985023	02/12/98	53.2	50.0	106	
9802195*7							
8015M.TX	a,a,a-Trifluorotoluene	Re985023	02/12/98	52.0	50.0	104	
9802195*8							
8015M.TX	a,a,a-Trifluorotoluene	Re985023	02/12/98	55.1	50.0	110	
9802195*9							
8015M.TX	a,a,a-Trifluorotoluene	Re985023	02/12/98	53.0	50.0	106	
9802195*10							
8015M.TX	a,a,a-Trifluorotoluene	Re985023	02/12/98	51.9	50.0	104	

G98-02-195

Texaco Refining and Marketing Inc,
Environment Health & Safety
108 Cutting Boulevard
Richmond, California 94804
Phone: (510) 236-3541
FAX: (510) 237-7821

Chain-of-Custody

Forward Results to the Attention of Rebecca Digerness

Texaco Project Coordinator: Karen Petryna

Laboratory: B C Analytical
Turn Around Time: normal (10 day)
Samplers (PRINT NAME): Mike Tell
Sampler Signature: [signature]
Date Samples Collected: 2/4/98

Site Name: Texaco Loc.# 624881450
Site Address: 1127 Lincoln Ave. Alameda, CA
Contractor Project Number: 7CC214-T2
Contractor Name: Blaine Tech Services, Inc.
Address: 1680 Rogers Ave., San Jose, CA 95112
Project Contact: Kent Brown
Phone/FAX: (408) 573-0555 / (408) 573-7771

KEP
624881450
FKEP9001L

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	TPH gas/BTEX	TPH Diesel	O&G/TRPH (418.1)	TPH Ex. (CB-C36+)	VOCs 8240/624	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead			Comments
MW1		2/4/98 1330	3	VOA		HCl	X										
MW2		1235	3				X										
MW3		1253	3				X										
MW4		1220	3				X										
MW5		1315	3				X										
MW8		1148	3				X										
MW9		1127	3				X										
MW10		1112	3				X										
MW11		1048	3				X										
EB		1055	3				X										

Relinquished by: Mike Tell
(Signature) [signature] Date: 2/4/98 Time: 1401

Relinquished by:
(Signature) Date: Time:

Relinquished by:
(Signature) Date: Time:

Method of Shipment

Received by:
(Signature) [signature] Date: 2/9/98 Time: 1405

Received by:
(Signature) Date: Time:

Received by:
(Signature) Date: Time:

Lab Comments:

P:\GWM\FORMS\TEX-COC.XLS

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
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Kent Brown

Client Proj. ID: Texaco 624881450/980508-Z1
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9805640-01

Sampled: 05/08/98
Received: 05/11/98

Analyzed: 05/21/98
Reported: 06/02/98

QC Batch Number: GC052198BTEX04A
Instrument ID: GCHP4

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	74

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

SEQUOIA ANALYTICAL - ELAP #1210

Pegg. Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Blaine Tech Services	Client Proj. ID: Texaco 624881450/980508-Z1	Sampled: 05/08/98
1680 Rogers Avenue	Sample Descript: MW-2	Received: 05/11/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/22/98
Attention: Kent Brown	Lab Number: 9805640-02	Reported: 06/02/98

QC Batch Number: GC052298BTEX04A
Instrument ID: GCHP4

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	**0.50**	**0.57**
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	70

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Blaine Tech Services	Client Proj. ID: Texaco 624881450/980508-Z1	Sampled: 05/08/98
1680 Rogers Avenue	Sample Descript: MW-3	Received: 05/11/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/22/98
Attention: Kent Brown	Lab Number: 9805640-03	Reported: 06/02/98

QC Batch Number: GC052298BTEX04A
Instrument ID: GCHP4

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	5600
Methyl t-Butyl Ether	2.5	11
Benzene	0.50	17
Toluene	0.50	6.7
Ethyl Benzene	0.50	300
Xylenes (Total)	0.50	590
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Texaco 624881450/980508-Z1	Sampled: 05/08/98
1680 Rogers Avenue	Sample Descript: MW-4	Received: 05/11/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/22/98
Attention: Kent Brown	Lab Number: 9805640-04	Reported: 06/02/98

QC Batch Number: GC052298BTEX04A
Instrument ID: GCHP4

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	N.D.
Methyl t-Butyl Ether	5.0	N.D.
Benzene	1.0	N.D.
Toluene	1.0	N.D.
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	69 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Texaco 624881450/980508-Z1	Sampled: 05/08/98
1680 Rogers Avenue	Sample Descript: MW-6	Received: 05/11/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/22/98
Attention: Kent Brown	Lab Number: 9805640-05	Reported: 06/02/98

QC Batch Number: GC052298BTEX04A
Instrument ID: GCHP4

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	2100
Methyl t-Butyl Ether	2.5	110
Benzene	0.50	83
Toluene	0.50	11
Ethyl Benzene	0.50	150
Xylenes (Total)	0.50	250
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Kent Brown

Client Proj. ID: Texaco 624881450/980508-Z1
Sample Descript: MW-7
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9805640-06

Sampled: 05/08/98
Received: 05/11/98

Analyzed: 05/22/98
Reported: 06/02/98

QC Batch Number: GC052298BTEX04A
Instrument ID: GCHP4

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**65**
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**1.0**
Chromatogram Pattern:		
Unidentified HC		****

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	68 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Kent Brown

Client Proj. ID: Texaco 624881450/980508-Z1
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9805640-07

Sampled: 05/08/98
Received: 05/11/98

Analyzed: 05/22/98
Reported: 06/02/98

QC Batch Number: GC052298BTEX04A
Instrument ID: GCHP4

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	**2.5**	**5.4**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	66 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Pennell
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
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Kent Brown

Client Proj. ID: Texaco 624881450/980508-Z1
Sample Descript: MW-9
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9805640-08

Sampled: 05/08/98
Received: 05/11/98

Analyzed: 05/22/98
Reported: 06/02/98

QC Batch Number: GC052298BTEX04A
Instrument ID: GCHP4

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	70

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
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
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Kent Brown

Client Proj. ID: Texaco 624881450/980508-Z1
Sample Descript: MW-10
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9805640-09

Sampled: 05/08/98
Received: 05/11/98

Analyzed: 05/22/98
Reported: 06/02/98

QC Batch Number: GC052298BTEX04A
Instrument ID: GCHP4

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	72

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Perrner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Texaco 624881450/980508-Z1 Sample Descript: MW-11 Matrix: LIQUID	Sampled: 05/08/98 Received: 05/11/98
Attention: Kent Brown	Analysis Method: 8015Mod/8020 Lab Number: 9805640-10	Analyzed: 05/22/98 Reported: 06/02/98

QC Batch Number: GC052298BTEX04A
Instrument ID: GCHP4

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	79

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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1455 McDowell Blvd North, Ste D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Kent Brown

Client Proj. ID: Texaco 624881450/980508-Z1
Sample Descript: EB
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9805640-11

Sampled: 05/08/98
Received: 05/11/98

Analyzed: 05/24/98
Reported: 06/02/98

QC Batch Number: GC052498BTEX04A
Instrument ID: GCHP4

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	69 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Kent Brown

Client Project ID: Texaco 624881450/ 980508-Z1
Matrix: Liquid

Work Order #: 9805640 -01

Reported: Jun 3, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC052198802004A	GC052198802004A	GC052198802004A	GC052198802004A	GC052198802004A
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.S.	A.S.	A.S.	A.S.	A.S.
MS/MSD #:	98050735	98050735	98050735	98050735	-
Sample Conc.:	1.1	1.2	N.D.	N.D.	-
Prepared Date:	5/21/98	5/21/98	5/21/98	5/21/98	-
Analyzed Date:	5/21/98	5/21/98	5/21/98	5/21/98	-
Instrument I.D.#:	GC4	GC4	GC4	GC4	-
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	-
Result:	19.5	19.9	19.6	60	-
MS % Recovery:	92	94	98	100	-
Dup. Result:	20.1	21.4	20.5	61	-
MSD % Recov.:	95	101	103	102	-
RPD:	3.0	7.3	4.5	1.7	-
RPD Limit:	0-25	0-25	0-25	0-25	-
LCS #:	LCS052198	LCS052198	LCS052198	LCS052198	LCS052198
Prepared Date:	5/21/98	5/21/98	5/21/98	5/21/98	5/21/98
Analyzed Date:	5/21/98	5/21/98	5/21/98	5/21/98	5/21/98
Instrument I.D.#:	GC4	GC4	GC4	GC4	GC4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L
LCS Result:	19	20.7	26	69.4	471
LCS % Recov.:	95	104	130	116	94
MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL
Elap #2142

Peggy Penner
Project Manager

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

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Kent Brown

Client Project ID: Texaco 624881450 / 980508-Z1
Matrix: Liquid
Work Order #: 9805640-02-10
Reported: Jun 3, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC052298802007A	GC052298802007A	GC052298802007A	GC052298802007A	GC052298802007A
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.S.	A.S.	A.S.	A.S.	A.S.
MS/MSD #:	98050913	98050913	98050913	98050913	-
Sample Conc.:	5.7	N.D.	N.D.	N.D.	-
Prepared Date:	5/22/98	5/22/98	5/22/98	5/22/98	-
Analyzed Date:	5/22/98	5/22/98	5/22/98	5/22/98	-
Instrument I.D.#:	GC7	GC7	GC7	GC7	-
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	-
Result:	23.3	18.3	19.3	59.6	-
MS % Recovery:	88	92	97	99	-
Dup. Result:	23.9	18.7	19.8	60.4	-
MSD % Recov.:	91	94	99	101	-
RPD:	2.5	2.2	2.6	1.3	-
RPD Limit:	0-25	0-25	0-25	0-25	-
LCS #:	LCS052298	LCS052298	LCS052298	LCS052298	LCS052298
Prepared Date:	5/22/98	5/22/98	5/22/98	5/22/98	5/22/98
Analyzed Date:	5/22/98	5/22/98	5/22/98	5/22/98	5/22/98
Instrument I.D.#:	GC7	GC7	GC7	GC7	GC7
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L
LCS Result:	18.5	18.5	19.9	60.7	454
LCS % Recov.:	93	93	100	101	91
MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL
Elap #2142

Peggy Penner
Project Manager

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

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

Sequoia Analytical

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Kent Brown	Client Proj. ID: Texaco 624881450/980508-Z1 Lab Proj. ID: 9805640	Received: 05/11/98 Reported: 06/02/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 14 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

980 5640

Texaco Refining and Marketing Inc,
Environment Health & Safety
108 Cutting Boulevard
Richmond, California 94804
Phone: (510) 236-3541
FAX: (510) 237-7021

Chain-of-Custody

Page ___ of ___

Forward Results to the Attention of Rebecca Digerness

Texaco Project Coordinator: Karen Petryna

Site Name: Texaco Loc.# 624881450
Site Address: 1127 Lincoln Ave. Alameda, CA
Contractor Project Number: 980509-R7
Contractor Name: Blaine Tech Services, Inc.
Address: 1680 Rogers Ave., San Jose, CA 95112
Project Contact: Kent Brown
Phone/FAX: (408) 573-0555 / (408) 573-7771

Laboratory: ~~B-C Analytical~~ SEQUOIA
Turn Around Time: normal (10 day)
Samplers (PRINT NAME): STEVE CHESNEY
Sampler Signature: Steph C Chesney
Date Samples Collected: 5/8/98

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	ANALYSIS: TPH gas/BTEX	TPH Diesel	O&G/TRPH (418.1)	TPH Ex. (C8-C36+)	VOCs 8240/624	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead			Comments
MW-1	1	5/8/98 12:18	3	HCLVOA	W	HCL	X										
MW-2	2	12:34															
MW-3	3	13:19															
MW-4	4	12:59															
MW-6	5	13:41															
MW-7	6	11:58															
MW-8	7	11:33															
MW-9	8	11:20															
MW-10	9	11:05															
MW-11	10	10:46															
EB	11	10:51	↓	↓	↓	↓	2										

Relinquished by: (Signature) Steph C Chesney — Date: 5/8/98 — Time: 2:30
Relinquished by: (Signature) [signature] — Date: 5/11/98 — Time:
Relinquished by: (Signature) — Date: — Time:
Method of Shipment:

Received by: (Signature) [signature] — Date: 5/11/98 — Time: 2:30
Received by: (Signature) — Date: — Time:
Received by: (Signature) Jeri Dennis — Date: 5-11-98 — Time: 1500
Lab Comments:

P:\GWMW\FORMS\TEX-COC.XLS

Project Name: 624881450

Project Number: 980204-T2

Well Gauging Data

Date: 2-4-98

Recorded By: MT

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (In.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW1		19.10	4		3.40		
MW2		19.25	4		4.88		
MW3		19.00	4		4.18		
MW4		20.25	4		4.28		
MW5		INACCESSIBLE			—		INACCESSIBLE, Vault / well damaged / Abandoned
MW6		19.6	2		5.86		
MW7		INACCESSIBLE			—		Cap broken over well
MW8		19.75	4		3.76		
MW9		14.25	4		3.30		
MW10		14.00	4		1.90		
MW11		14.15	4		1.60		

TOC = Top of casing

DTB = Depth to bottom in feet below TOC

DTP = Depth to product in feet below TOC

DTW = Depth to water in feet below TOC

PT = Product thickness in feet

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6024884450
Sampler: LT	Date: 2/4
Well I.D.: MW1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.10	Depth to Water: 3.40
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method: S.S. Bailer / Teflon Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: _____

Sampling Method: S.S. Bailer ✓ / Teflon Bailer / Extraction Port / Other: _____

10.2 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 30.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1323	61.4	7.2	405	100	11	
1325	61.9	7.1	245	69	22	
1327	62.0	7.0	230	41	31	

Did well dewater? Yes (No) Gallons actually evacuated: 31

Sampling Time: 1330 Sampling Date: 2/4

Sample I.D.: MW1 Laboratory: [redacted] VOC

Analyzed for: (Tph-G BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6024884450
Sampler: LT	Date: 2/4
Well I.D.: MW2	Well Diameter: 2 3 ~~4~~ 6 8 ___
Total Well Depth: 19.25	Depth to Water: 4.95
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible ✓
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer ✓
- Teflon Bailer
- Extraction Port
- Other: _____

1 Case Volume (Gals.)		Specified Volumes		Calculated Volume
9.3	x	3	=	27.9 Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1226	62.0	6.9	927	>200	10	
1228	62.4	6.8	910	101	20	
1229	63.1	6.8	900	112	28	

Did well dewater? Yes (No)

Gallons actually evacuated: 28

Sampling Time: 1255

Sampling Date: 2/4

Sample I.D.: MW2

Laboratory: [redacted] VOC

Analyzed for: (Tph-G BTEX) Tph-D

Other:

Equipment Blank I.D.:

Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6024884450
Sampler: LT	Date: 2/4
Well I.D.: MW3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.60	Depth to Water: 4.16
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method: S.S. Bailer / Teflon Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: S.S. Bailer / Teflon Bailer / Extraction Port / Other: ___

1 Case Volume (Gals.)	x Specified Volumes	= Calculated Volume
10.0	3	30.0 Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1244	63.9	7.0	975	93	10	
1246	64.3	6.8	817	89	20	
1248	64.8	6.8	781	70	30	

Did well dewater? Yes (No) Gallons actually evacuated: 30

Sampling Time: 1253 Sampling Date: 2/4

Sample I.D.: MW3 Laboratory: [redacted] VOC

Analyzed for: (Tph-G BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6124881450
Sampler: LAT	Date: 2/4
Well I.D.: MW4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 20.25	Depth to Water: 4.28
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method: S.S. Bailer / Teflon Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: _____

Sampling Method: S.S. Bailer ✓ / Teflon Bailer / Extraction Port / Other: _____

10.4 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 31.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1211	64.1	6.9	459	72	11	
1213	65.3	6.7	443	34	22	
1215	66.0	6.7	445	21	32	

Did well dewater? Yes (No) Gallons actually evacuated: 32

Sampling Time: 1220 Sampling Date: 2/4

Sample I.D.: MW4 Laboratory: [redacted] VOC

Analyzed for: (Tph-G BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6024884450
Sampler: LAT	Date: 2/4
Well I.D.: MW5	Well Diameter: 2 3 4 6 8 ___
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method: S.S. Bailer, Teflon Bailer, Middleburg, Electric Submersible, Extraction Pump, Other: _____

Sampling Method: S.S. Bailer, Teflon Bailer, Extraction Port, Other: _____

_____ X _____ = _____ Gals.
1 Case Volume (Gals.) Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
	This well has been abandoned. The vault has been completely					
	concreted as well as well. No sign of well. Vault lid was left					
	over wet concrete & is removable. [redacted]					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date: 2/4

Sample I.D.: MW5 Laboratory: [redacted] VOC

Analyzed for: (Tph-G BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6024884450
Sampler: LT	Date: 2/4
Well I.D.: MW6	Well Diameter: ~~2~~ 3 ~~4~~ 6 8 ___
Total Well Depth: 19.61	Depth to Water: 5.26
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer X
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer
- Teflon Bailer X
- Extraction Port
- Other: _____

2.2 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1303	63.0	7.1	461	>200	2.25	
1307	63.6	7.1	375	>200	4.5	
1311	63.9	7.0	372	>200	6.75	

Did well dewater? Yes ~~No~~ Gallons actually evacuated: 6.75

Sampling Time: 1315 Sampling Date: 2/4

Sample I.D.: MW6 Laboratory: [redacted] VOC

Analyzed for: Tph-G BTEX Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6024884450
Sampler: MT	Date: 2/4
Well I.D.: MW7	Well Diameter: 2 3 4 6 8 ___
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method: S.S. Bailer, Teflon Bailer, Middleburg, Electric Submersible, Extraction Pump, Other: _____

Sampling Method: S.S. Bailer, Teflon Bailer, Extraction Port, Other: _____

_____ (1 Case Volume (Gals.)) X _____ (Specified Volumes) = _____ (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1023	INACCESSIBLE -					
1200	INACCESSIBLE, vehicle parked over well.					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: Sampling Date: 2/4

Sample I.D.: MW7 Laboratory: [redacted] VOC

Analyzed for: (Tph-G BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6024884450
Sampler: LAT	Date: 2/4
Well I.D.: MW8	Well Diameter: 2 3 ④ 6 8 ___
Total Well Depth: 19.75	Depth to Water: 3.70
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method: S.S. Bailer / Teflon Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: S.S. Bailer / Teflon Bailer / Extraction Port / Other: ___

10.4	x	3	=	31.2 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1137	60.9	7.0	350	171	11	
1139	61.6	6.8	405	131	22	
1141	62.2	6.7	410	123	32	

Did well dewater? Yes (No) Gallons actually evacuated: 32

Sampling Time: 1145 Sampling Date: 2/4

Sample I.D.: MW8 Laboratory: [redacted] VOC

Analyzed for: (Tph-G BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6024884450
Sampler: LAT	Date: 2/4
Well I.D.: MW9	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.25	Depth to Water: 5.30
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible X
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

7.2 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 21.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1119	60.2	7.3	134	173	5	
1121	61.3	7.2	123	117	16	
1122	62.0	7.1	119	103	22	

Did well dewater? Yes (No) Gallons actually evacuated: 22

Sampling Time: 1127 Sampling Date: 2/4

Sample I.D.: MW9 Laboratory: [redacted] VOC

Analyzed for: (Tph-G BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6024884450
Sampler: LAT	Date: 2/4
Well I.D.: MW10	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 14.00	Depth to Water: 1.90
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method: S.S. Bailer / Teflon Bailer / Middleburg / Electric Submersible X / Extraction Pump / Other: _____

Sampling Method: S.S. Bailer X / Teflon Bailer / Extraction Port / Other: _____

7.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 25.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1105	57.8	7.0	162	>200	8	
1107	60.4	7.0	192	>200	16	
1109	61.2	6.9	182	>200	24	

Did well dewater? Yes (No) Gallons actually evacuated: 24

Sampling Time: 1112 Sampling Date: 2/4

Sample I.D.: MW10 Laboratory: [redacted] VOC

Analyzed for: (Tph-G BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980204-T2	Texaco ID#: 6024084450
Sampler: LT	Date: 2/4
Well I.D.: MW11	Well Diameter: 2 3 ④ 6 8 ___
Total Well Depth: 14.5	Depth to Water: 1.60
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method: S.S. Bailer / Teflon Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: _____

Sampling Method: S.S. Bailer ✓ / Teflon Bailer / Extraction Port / Other: _____

8.2	x	3	=	24.6	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1040	56.9	7.4	424	22	9	
1041	59.2	7.4	200	17	18	
1043	60.0	7.4	172	8	25	

Did well dewater? Yes (No) Gallons actually evacuated: 25

Sampling Time: 1045 Sampling Date: 2/4

Sample I.D.: MW11 Laboratory: [redacted] VOC

Analyzed for: (Tph-G BTEX) Tph-D Other:

Equipment Blank I.D.: [illegible] Analyzed for same as primary sample

Well Gauging Data

Project Name: Texaco #624881450
Project Number: 1127 LINCOLN AVE. ALAMEDA, CA 980508-Z1

Date: 5/8/98
Recorded By: STEVE C.

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-1		18.85			5.09		Gauged at time of Sample
MW-2		19.63			6.00		
MW-3		19.57			5.84		Gauged at time of sample
MW-4		20.14			5.74		
MW-5		does not exist, filled in & abandoned					
MW-6		19.46			5.79		
MW-7		19.44			6.22		2"
MW-8		19.63			5.49		
MW-9		19.45			4.70		
MW-10		19.39			4.29		
MW-11		19.10			2.66		

TOC = Top of casing
DTB = Depth to bottom in feet below TOC
DTP = Depth to product in feet below TOC
DTW = Depth to water in feet below TOC
PT = Product thickness in feet

TEXACO WELL MONITORING DATA SHEET

Project #: 980508-Z1	Texaco ID#: 624881450
Sampler: Steve C.	Date: 5/8/98
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 18.95	Depth to Water: 5.09
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible X
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

9.0	x	3	=	27.0 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
12:09	62.0	6.3	216	>200	9	Odor
12:11	62.4	6.2	217	>200	18	
12:12	62.6	6.2	217	>200	27	

Did well dewater? Yes (No)	Gallons actually evacuated: 27
Sampling Time: 12:18	Sampling Date: 5/8/98
Sample I.D.: MW-1	Laboratory: ~~BC Analytical~~ Sequoia
Analyzed for: (Tph-G) (BTEX) Tph-D	Other:
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980508-Z1	Texaco ID#: 624891450
Sampler: Steve C.	Date: 5/8/98
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.63	Depth to Water: 6.00
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible X
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer X
- Extraction Port
- Other: _____

8.12 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 24.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
12:27	62.7	6.4	240	>200	9	
12:29	64.9	6.0	1370	>200	17	
12:30	65.9	6.0	1600	>200	25	

Did well dewater? Yes (No) Gallons actually evacuated: 25

Sampling Time: 12:34 Sampling Date: 5/9/98

Sample I.D.: MW-2 Laboratory: ~~BC Analytical~~ Sequoia

Analyzed for: ~~Tph-G~~ (BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 990509-Z1	Texaco ID#: 624881450
Sampler: Steve C.	Date: 5/5/98
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.57	Depth to Water: 5.84
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible X
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

9.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 27 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
13:11	67.0	6.6	48.5	720	9	muddy
13:12	66.3	6.4	1327	"	18	
13:14	66.1	6.4	1357	"	27	

Did well dewater? Yes (No) Gallons actually evacuated: 27

Sampling Time: 13:19 Sampling Date: 5/6/98

Sample I.D.: MW-3 Laboratory: ~~BC Analytical~~ Sequoia

Analyzed for: (Tph-G) ~~BTEX~~ Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 960508-Z1	Texaco ID#: 6245814502
Sampler: Steve C.	Date: 5/6/96
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 20.14	Depth to Water: 5.74
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible X
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

9.6	x	3	=	25.9 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
12:51	67.5	6.3	1050	32ei	9	
12:53	67.7	6.6	495	"	18	
12:55	67.5	6.5	486	"	27	

Did well dewater? Yes (No)

Gallons actually evacuated: 27

Sampling Time: 12:59

Sampling Date: 5/6/96

Sample I.D.: MW-4

Laboratory: ~~BC Analytical~~ Sequoia

Analyzed for: ~~Tph-G~~ ~~BTEX~~ Tph-D Other:

Equipment Blank I.D.:

Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980506-Z1	Texaco ID#: 62488145c
Sampler: Steve C.	Date: 5/4/99
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 14.10	Depth to Water: 2.66
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer X
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer (X)
- Teflon Bailer X
- Extraction Port
- Other: _____

1.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
13:31	65.4	6.7	638	>200	2	odor
13:34	65.3	6.5	609	>200	4	
13:38	65.5	6.7	596	>200	6	

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Time: 13:41 Sampling Date: 5/5/99

Sample I.D.: MW-6 Laboratory: ~~DC Analytical~~ SCG Mid

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980509-Z1	Texaco ID#: 624881450
Sampler: Steve C.	Date: 5/6/99
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.44	Depth to Water: 6.22
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method: S.S. Bailer / Teflon Bailer X / Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: S.S. Bailer / Teflon Bailer X / Extraction Port / Other: _____

2.25 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.75 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
11:46	63.9	6.7	176	>200	2.25	muddy
11:50	64.3	6.7	217	>200	4.50	
11:54	64.1	6.7	223	>200	6.75	

Did well dewater? Yes (No) Gallons actually evacuated: 6.75

Sampling Time: 11:58 Sampling Date: 5/8/99

Sample I.D.: MW-7 Laboratory: ~~BC Analytical~~ Sequoia

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980508-21	Texaco ID#: 6249814.50
Sampler: Steve C.	Date: 5/9/99
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.63	Depth to Water: 5.48
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible X
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

8.5	x	3	=	25.5 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
11:27	63.4	6.4	254	>200	9	muddy
11:28	64.2	6.3	216	>200	19	
11:29	64.6	6.3	176	>200	27	

Did well dewater? Yes (No) Gallons actually evacuated: 27

Sampling Time: 11:33 Sampling Date: 5/9/99

Sample I.D.: MW-9 Laboratory: ~~BC Analytical~~ Sequoia

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980506-Z1	Texaco ID#: 624881450
Sampler: Steve C.	Date: 5/6/98
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.95	Depth to Water: 4.70
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible X
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

6.4 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 19.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
11:13	63.4	6.5	256	>200	7	
11:14	64.2	6.5	229	>200	14	
11:15	64.3	6.4	233	>200	20	

Did well dewater? Yes (No) Gallons actually evacuated: 20

Sampling Time: 11:20 Sampling Date: 5/6/98

Sample I.D.: MW-9 Laboratory: ~~BC Analytical~~ Sequoia

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980508-Z1	Texaco ID#: 624981450
Sampler: Steve C.	Date: 5/8/98
Well I.D.: MW-10	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.39	Depth to Water: 4.29
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible X
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

6.67 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 20.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
10:59	62.8	6.6	277	7200	7	
10:59	62.5	6.4	369	>200	14	
11:00	62.1	6.4	373	7200	21	

Did well dewater? Yes (No)

Gallons actually evacuated: 21

Sampling Time: ~~MW-10~~ 11:05

Sampling Date: 5/8/98

Sample I.D.: MW-10

Laboratory: ~~BC Analytical~~ Sequoia

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.:

Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 980509	Texaco ID#: 6248814500
Sampler: Steve C.	Date: 5/9/99
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.10	Depth to Water: 2.66
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible X
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer X
- Teflon Bailer
- Extraction Port
- Other: _____

7.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 22.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
10:39	62.9	6.6	425	>200	9	
10:40	64.6	6.4	180	>200	16	
10:41	65.1	6.3	157	>200	24	

Did well dewater? Yes (No) Gallons actually evacuated: 24

Sampling Time: 10:46 Sampling Date: 5/9/99

Sample I.D.: MW-4 Laboratory: ~~BC Analytical~~ Sequoia

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.: EB @ 10:51 Analyzed for same as primary sample Yes

SOURCE RECORD

BILL OF LADING

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT TEXACO FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE-WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED TO THE DESTINATION DESIGNATED BY TRMI EH&S.

Contractor: Blaine Tech Services, Inc.
Address: 1680 Rogers Ave.
City, State, ZIP: San Jose, CA 95112
Phone: (408) 573-0555

is authorized by TRMI EH&S to recover, collect, apportion into loads, and haul the NON HAZARDOUS WELL PURGEWATER that is drawn from wells at the Texaco facility listed below and to deliver that purgewater to an appropriate destination designated by TRMI EH&S in either Redwood City, California or in Richmond, California. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Texaco facility to the designated destination point; from one Texaco facility to the designated destination point via another Texaco facility; from a Texaco facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of TRMI EH&S.

This SOURCE RECORD **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Texaco facility described below:

Texaco#: Texaco #624881450
Address: 1127 LINCOLN AVE.
City, State, ZIP: ALAMEDA, CA

WELL I.D.	GALS.	WELL I.D.	GALS.
Purge Water =			
	199.75		

Total gals. 199.75

added rinse water 10

Total Gals. Recovered 209.75

Job#: 980204-TE
Date: 2-4-98
Time: 1400
Signature: [signature]

REC'D AT: BT3
Date: 2-4-98
Time: 1425
Signature: [signature]

SOURCE RECORD

BILL OF LADING

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT TEXACO FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE-WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED TO THE DESTINATION DESIGNATED BY TRMI EH&S.

Contractor: Blaine Tech Services, Inc.
Address: 1680 Rogers Ave.
City, State, ZIP: San Jose, CA 95112
Phone: (408) 573-0555

is authorized by TRMI EH&S to recover, collect, apportion into loads, and haul the NON HAZARDOUS WELL PURGEWATER that is drawn from wells at the Texaco facility listed below and to deliver that purgewater to an appropriate destination designated by TRMI EH&S in either Redwood City, California or in Richmond, California. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Texaco facility to the designated destination point; from one Texaco facility to the designated destination point via another Texaco facility; from a Texaco facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of TRMI EH&S.

This SOURCE RECORD BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Texaco facility described below:

Texaco#: ___ Texaco #624881450
Address: ___ 1127 LINCOLN AVE.
City, State, ZIP: ___ ALAMEDA, CA
Sample No.

WELL I.D.	GALS.	WELL I.D.	GALS.
Purge			
water	210.75		

Total gals. _____

added rinse water 10

Total Gals. Recovered 220.75

Job#: 980508-Z1
Date: 5/8/98
Time: 1500
Signature: Stephen Cleary

REC'D AT:
Date:
Time:
Signature:

PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN ET COMPANY

QUARTERLY SUMMARY REPORT

Former Texaco Service Station/Current Auto Repair Facility
1127 Lincoln Avenue, Alameda, California
Alameda County
First Quarter, 1998

HISTORY OF INVESTIGATIVE AND REMEDIAL ACTIONS

Four underground fuel tanks and one underground waste oil tank were removed in September 1989. Eleven soil borings were drilled in March 1981 and eight of the borings were converted into three groundwater monitoring wells (MW-1 through MW-3) and five vapor extraction wells (VW-1 through VW-5). Five additional ground water monitoring wells (MW-4 through MW-8) and (MW-9 through MW-11) were installed in June 1992 and May 1995, respectively. Nine soil borings were also drilled in February 1995. A dual soil vapor extraction and groundwater extraction remedial system operated from September 1993 through September 1996. Monitoring well MW-5 was connected to the vapor extraction system in September 1993 and MW-1 and MW-2 were connected to the extraction system in November 1993. MW-1, MW-2, and MW-5 were used as combined extraction/recovery wells.

WORK PERFORMED DURING THIS QUARTER

Ground water monitoring and sampling of the monitoring wells was performed.

CHARACTERIZATION STATUS

SOIL: The extent of petroleum hydrocarbons in soil have been delineated.

GROUND WATER: The extent of petroleum hydrocarbons appears to be predominantly defined.

REMEDIATION STATUS

A dual soil vapor extraction and groundwater extraction system previously operated at the site (see above).

WORK TO BE PERFORMED NEXT QUARTER

Continuation of the quarterly ground water monitoring and sampling program.

WATER WELL SURVEY

A water well survey has not been conducted for the site. The predominant ground water flow direction is to the north-northwest.

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