BLAINE
TECH SERVICES inc

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January 25, 1999

Karen Petryna
Equiva Services LLC
P.O. Box 6249
Carson, CA 90749-6249

Fourth Quarter 1998 Groundwater Monitoring at
TEXACO-branded Service Station
3810 Broadway
Oakland, CA

Monitoring performed on December 21, 1998

Groundwater Monitoring Report **981221-L-1**

This report covers the routine monitoring of groundwater wells at this TEXACO-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, apprioriate calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Shell Martinez Manufacturing Complex.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an

independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

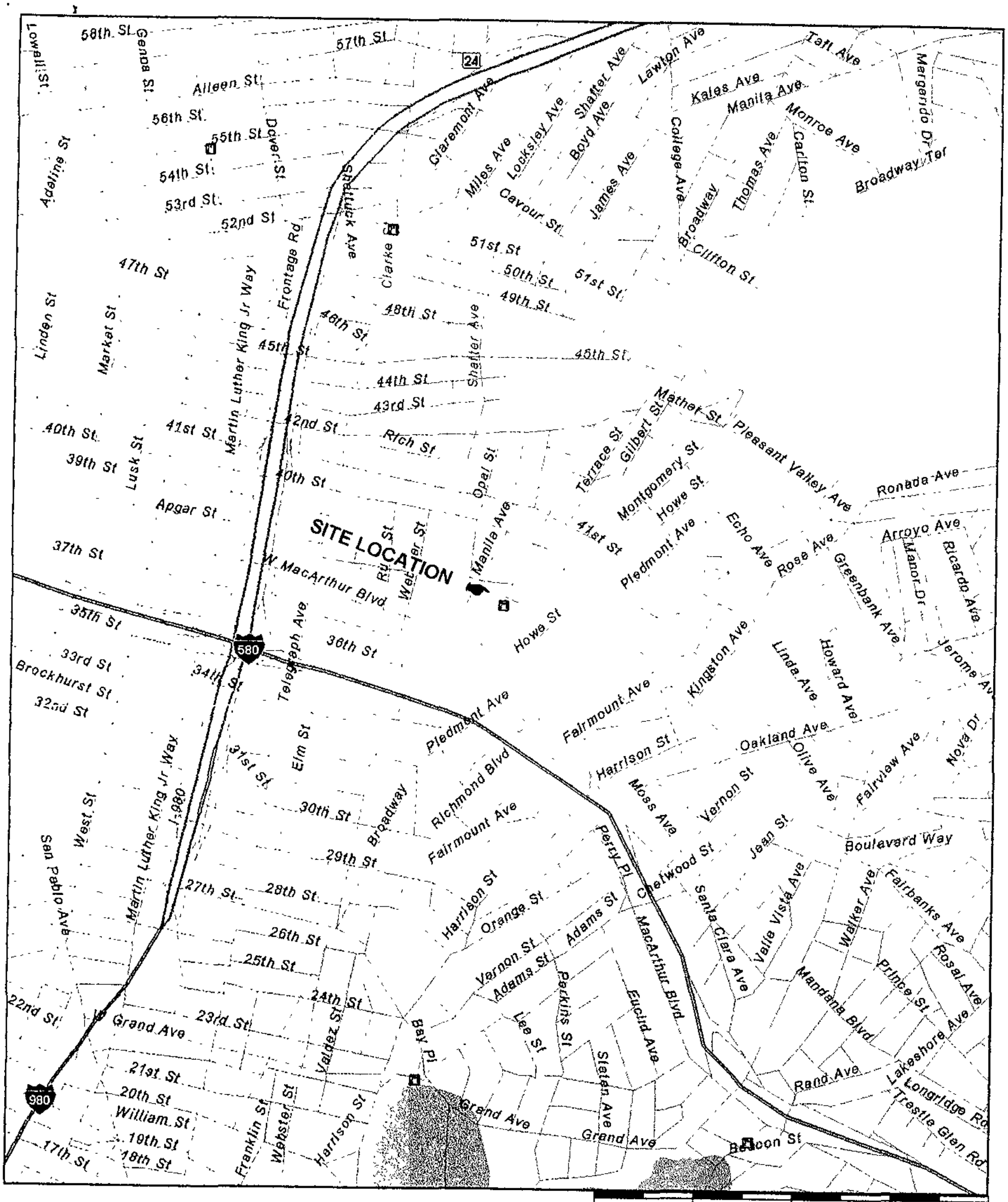
Yours truly,

Deidre Kerwin
Operations Manager

DK/ap

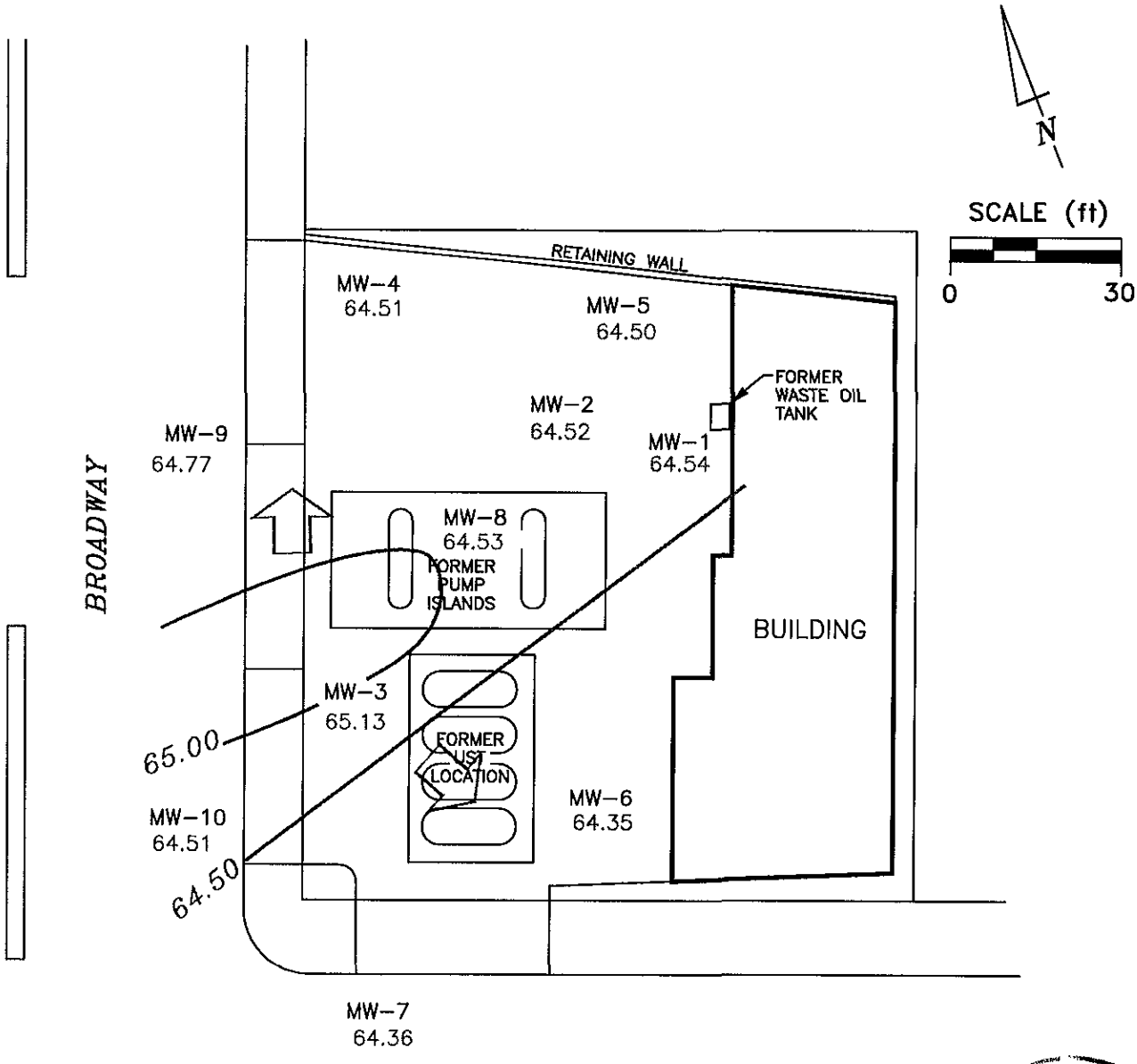
attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheet

cc: Keith Winemiller
Toxichem Management Systems, Inc.
1562 44th Ave.
San Francisco, Ca 94122



Site Vicinity Map

Former Texaco Service Station, 3810 Broadway, Oakland, CA



REGISTERED GEOLOGIST
STEVEN E. KROIK
No. 1978
9/00
STATE OF CALIFORNIA

EXPLANATION

MONITORING WELL

64.51 GROUNDWATER ELEVATION (FT, MSL)

65.00 GROUNDWATER ELEVATION CONTOUR (FT, MSL)

APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.01

Reference: BR-OA.dwg
Basemap from Fluor Daniel GTI

PREPARED BY

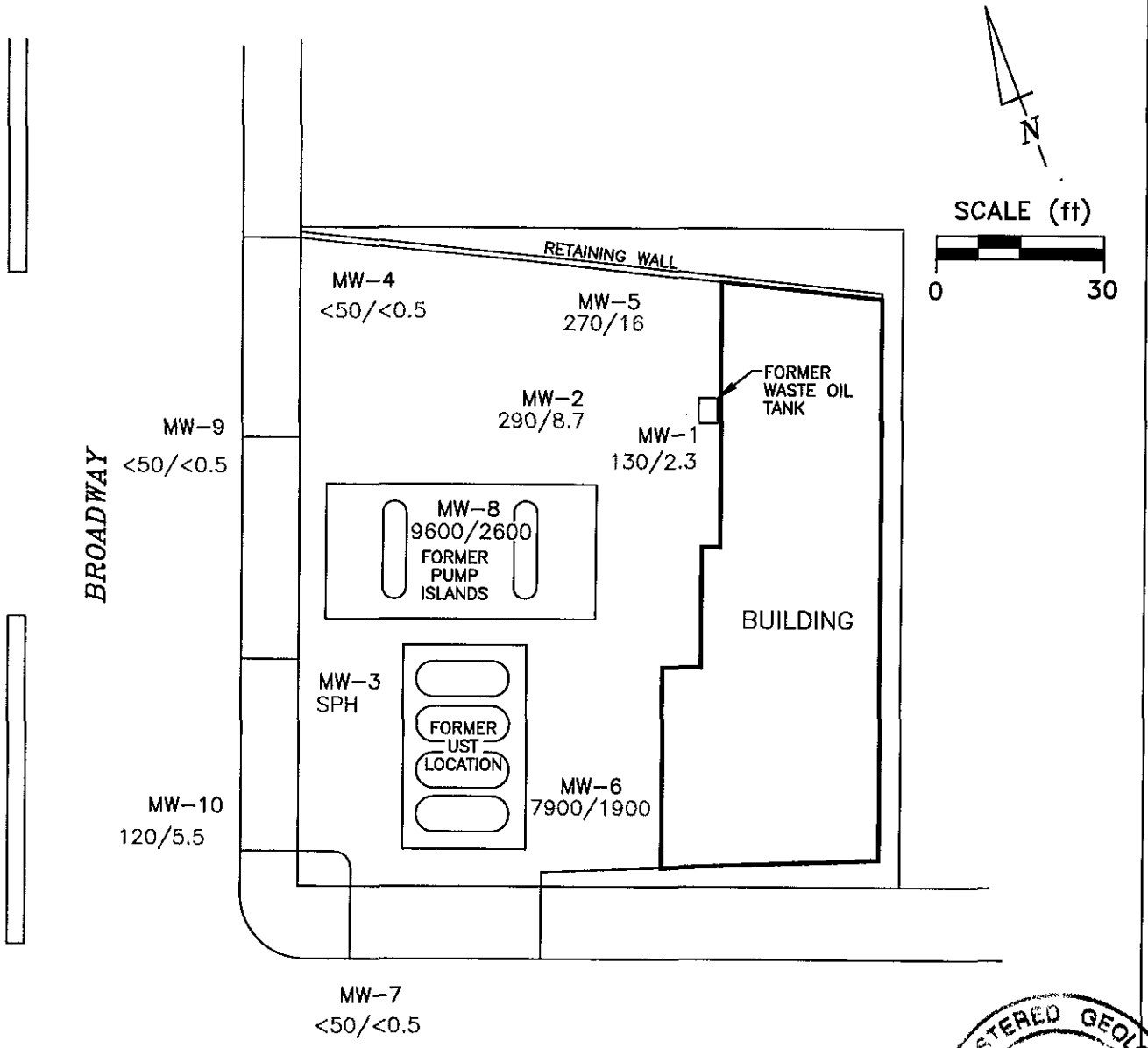
RRM
engineering contracting firm

FORMER TEXACO SERVICE STATION
3810 Broadway
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP, DECEMBER 21, 1998

FIGURE:
1

PROJECT:
DAC04



REGISTERED GEOLOGIST
STEVEN E KRCIK
NO 4975
STATE OF CALIFORNIA

EXPLANATION

MONITORING WELL

<50/<0.5 TPHg/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION

SPH SEPARATE-PHASE HYDROCARBONS

Reference: BR-0A.dwg
Basemap from Fluor Daniel GTI

PREPARED BY

RRM
engineering contracting firm

FORMER TEXACO SERVICE STATION
3810 Broadway
Oakland, California

TPHg/BENZENE CONCENTRATION MAP, DECEMBER 21, 1998

FIGURE:
2

PROJECT:
DAC04

Table 1
Groundwater Elevation Data
3810 Broadway, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-1	06/28/96	86.69	21.77	64.92	0.00
	10/10/96	86.69	23.26	63.43	0.00
	11/07/96	86.69	23.27	63.42	0.00
	12/18/97	86.69	19.70	66.99	0.00
	04/06/98	86.69	16.88	69.81	0.00
	06/18/98	86.69	19.78	66.91	0.00
	08/31/98	86.69	21.71	64.98	0.00
	12/21/98	86.69	22.15	64.54	0.00
MW-2	06/28/96	85.83	22.10	63.73	1.35
	10/10/96	85.83	22.36	63.47	0.00
	11/07/96	85.83	22.39	63.45	0.01
	12/18/97	85.83	20.19	65.64	0.00
	04/06/98	85.83	18.00	67.83	0.00
	06/18/98	85.83	19.63	66.20	0.00
	08/31/98	85.83	21.01	64.82	0.00
	12/21/98	85.83	21.31	64.52	0.00
MW-3	06/28/96	83.18	19.04	64.14	0.00
	10/10/96	83.18	19.51	63.67	0.00
	11/07/96	NA	19.40	19.84	0.00
	12/18/97	83.18	18.79	64.39	0.00
	04/06/98	83.18	16.58	66.64	0.05
	06/18/98	83.18	NA*	NA	>2.0
	08/31/98	83.18	19.56	63.68	0.07
	12/21/98	83.18	20.23	65.13	2.73
MW-4	06/28/96	83.31	18.83	64.48	0.00
	10/10/96	83.31	19.84	63.47	0.00
	11/07/96	83.31	19.84	63.47	0.00
	12/18/97	83.31	17.77	65.54	0.00
	04/06/98	83.31	15.45	67.86	0.00
	06/18/98	83.31	16.89	66.42	0.00
	08/31/98	83.31	18.48	64.83	0.00
	12/21/98	83.31	18.80	64.51	0.00
MW-5	10/10/96	85.41	21.93	63.48	0.00
	11/07/96	85.41	21.96	63.45	0.00
	12/18/97	85.41	19.81	65.60	0.00
	04/06/98	85.41	17.43	67.98	0.00
	06/18/98	85.41	19.15	66.26	0.00
	08/31/98	85.41	20.46	64.95	0.00
	12/21/98	85.41	20.91	64.50	0.00

Table 1
Groundwater Elevation Data
3810 Broadway, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-6	10/10/96	86.09	22.44	63.65	0.00
	11/07/96	86.09	22.60	63.49	0.00
	12/18/97	86.09	22.28	63.81	0.00
	04/06/98	86.09	19.90	66.19	0.00
	06/18/98	86.09	20 49	65.60	0.00
	08/31/98	86 09	21.05	65.04	0.00
	12/21/98	86.09	21.74	64.35	0.00
MW-7	10/10/96	84.11	20.78	63.33	0.00
	11/07/96	84.11	20.80	63.31	0.00
	12/18/97	84.11	17.27	66.84	0.00
	04/06/98	84.11	15.91	68.20	0.00
	06/18/98	84.11	17.95	66.16	0.00
	08/31/98	84.11	19.40	64.71	0.00
	12/21/98	84.11	19.75	64.36	0.00
MW-8	10/10/96	84.01	20.82	63.19	0.00
	11/07/96	84.01	20.44	63.57	0.00
	12/18/97	84.01	19.36	64.65	0.00
	04/06/98	84.01	16.19	67.82	0.00
	06/18/98	84.01	17.75	66.26	0.00
	08/31/98		INACCESSIBLE	--	--
	12/21/98	84.01	19.48	64.53	0.00
MW-9	10/10/96	82.17	18.62	63.55	0.00
	11/07/96	NA	63.53	63.53	0.00
	12/18/97	82.17	16.42	65.75	0.00
	04/06/98	82.17	14.00	68.17	0.00
	06/18/98	82.17	15.33	66.84	0.00
	08/31/98	82.17	17.14	65.03	0.00
	12/21/98	82.17	17.40	64.77	0.00
MW-10	10/10/96	81.83	18.40	63.43	0.00
	11/07/96	81.83	18.43	63.40	0.00
	12/18/97	81.83	16.18	65.65	0.00
	04/06/98	81.83	14.39	67.44	0.00
	06/18/98	81.83	15.11	66.72	0.00
	08/31/98	81.83	17.03	64.80	0.00
	12/21/98	81.83	17.32	64.51	0.00

* Free product could not be accurately measured (>2.0 feet of product in well).

TOC= Top of Casing Elevation

MSL= Mean Sea Level

NA= Data Not Available

Table 2
Groundwater Analytical Data
3810 Broadway, Oakland, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)	TPHd (ppb)
MW-1	06/28/96	<100	<0.5	<1.0	<1.0	<2.0	--	<50
	10/10/96	520	9.2	53	17	70	22/16*	<400
	11/07/96	--	--	--	--	--	--	--
	12/18/97	2,200	<3	<3	<3	<3	<200	<50
	04/06/98	1,600	16.4	0.8	<0.5	<0.5	38.3	<50
	06/18/98	330	7.8	<0.5	<0.5	<0.5	<0.5	280
	08/31/98	<50	1.5	<0.5	<0.5	<0.5	<2.5	150
	12/21/98	130	2.3	0.90	<0.5	<0.5	110/13**	130
MW-2	06/28/96	--	--	--	--	--	--	
	10/10/96	99,000	4,100	9,400	2,300	9,900	390/<25*	1,800
	12/18/97	24,000	600	1,800	750	2,400	<2000	4,700
	04/06/98	20,100	252	448	430	1,410	<200	9.5
	06/18/98	20,000	240	370	270	790	<50	5,200
	08/31/98	72,000	270	990	630	1,700	<125	19,000
	12/21/98	290	8.7	18	9.7	38	10/29**	13,000
MW-3	06/28/96	--	--	--	--	--	--	
	10/10/96	110,000	6,600	16,000	2,200	12,000	<250	1,200
	11/07/96	--	--	--	--	--	--	--
	12/18/97	180,000	1,500	16,000	4,600	23,000	<3000	6,100,000
	04/06/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	06/18/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	08/31/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	12/21/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH
MW-4	06/28/96	<100	<0.5	<1.0	<1.0	<2.0	--	<50
	10/10/96	650	3.9	65	22	120	<5.0	<50
	11/07/96	--	--	--	--	--	--	--
	12/18/97	<50	<0.5	<0.5	<0.5	<0.5	<30	2,000
	04/06/98	<50	<0.5	<0.5	<0.5	<0.5	<30	<50
	06/18/98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	53
	08/31/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	60
	12/21/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50
MW-5	10/10/96	1,800	34	4.7	11	44	21/5.0*	<50
	11/07/96	--	--	--	--	--	--	--
	12/18/97	1,200	15	<1	15	<1	72	<50
	04/06/98	1,000	126	0.5	0.8	1.5	<30	<50
	06/18/98	110	6.9	<0.5	<0.5	<0.5	<0.5	100
	08/31/98	480	5.3	<2.5	<2.5	<2.5	<12	120
	12/21/98	270	16	2.9	1.3	<1.0	34/<2.0**	100

Table 2
Groundwater Analytical Data
3810 Broadway, Oakland, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)	TPHd (ppb)
MW-6	10/10/96	45,000	8,300	2,900	810	3,100	190/40*	500
	11/07/96	--	--	--	--	--	--	--
	12/18/97	60,000	12,000	9,800	1,800	8,600	<2000	1,900
	04/06/98	30,500	5,950	3,720	952	3,750	<1000	<50
	06/18/98	23,000	2,600	540	410	1,300	<250	1,100
	08/31/98	17,000	3,400	460	530	1,800	<250	1,800
	12/21/98	7,900	1,900	510	280	730	150/2.6**	930
MW-7	10/10/96	<50	0.6	<0.5	<0.5	<0.5	<5.0	<50
	11/07/96	--	--	--	--	--	--	--
	12/18/97	<50	<0.5	<0.5	<0.5	<0.5	<30	<50
	04/06/98	<50	<0.5	<0.5	<0.5	<0.5	<30	<50
	06/18/98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
	08/31/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50
	12/21/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50
MW-8	10/10/96	17,000	1,300	1,200	64	1,300	110/<5.0*	110
	11/07/96	--	--	--	--	--	--	--
	12/18/97	15,000	3,600	1,800	410	930	<600	630
	04/06/98	32,300	8,230	5,900	718	2,120	<1000	<50
	06/18/98	74,000	5,400	4,500	700	2,200	2,400	<50
	08/31/98	INACCESSIBLE		--	--	--	--	--
	12/21/98	9,600	2,600	410	220	300	700/<2.0**	1,200
MW-9	10/10/96	80	2.5	13	2.2	13	<5.0	520
	11/07/96	--	--	--	--	--	--	--
	12/18/97	<50	<0.5	<0.5	<0.5	<0.5	<30	<50
	04/06/98	<50	<0.5	<0.5	<0.5	<0.5	<30	<50
	06/18/98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	100
	08/31/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	57
	12/21/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	71
MW-10	10/10/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<50
	11/07/96	--	--	--	--	--	--	--
	12/18/97	350	6.9	0.87	0.88	0.77	<30	<50
	04/06/98	2,300	224	168	81.4	253	<30	<50
	06/18/98	7,200	310	210	83	280	<0.5	320
	08/31/98	460	51	8.2	5.1	10	<5.0	120
	12/21/98	120	5.5	<1.0	<1.0	<1.0	8.7/<2.0**	79

MTBE =Methyl-tert-butylether
ppb = parts per billion
TPHd= Total Petroleum Hydrocarbons as diesel.
TPHg = Total Petroleum Hydrocarbons as gasoline
< = Less than the detection limit for the specified method of analysis
*= MTBE confirmation by EPA 8240.
**= MTBE confirmation by EPA 8260.

APPENDIX

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 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: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9812E42-01

Sampled: 12/21/98
Received: 12/22/98
Extracted: 12/30/98
Analyzed: 01/05/99
Reported: 01/08/99

QC Batch Number: GC1230980HBPEXC
Instrument ID: GCHP19B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	130
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	88

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Renner
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, (925) 988-9600, FAX (925) 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: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9812E42-01

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 01/01/99
Reported: 01/08/99

QC Batch Number: GC010199BTEX04A
Instrument ID: GCHP4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**130**
Methyl t-Butyl Ether	**2.5**	**110**
Benzene	**0.50**	**2.3**
Toluene	**0.50**	**0.90**
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Unidentified HC		**C6-C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	120

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

SEQUOIA ANALYTICAL - ELAP #1271

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, (925) 988-9600, FAX (925) 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: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8260
Lab Number: 9812E42-01

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 01/06/99
Reported: 01/08/99

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	**2.0**	**13**

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	Q
Toluene-d8	88	110	Q
4-Bromofluorobenzene	86	115	99

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

SEQUOIA ANALYTICAL - ELAP #1271

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, (925) 988-9600, FAX (925) 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	Client Proj. ID: Texaco 3810 Broadway	Sampled: 12/21/98
1680 Rogers Avenue	Sample Descript: MW-2	Received: 12/22/98
San Jose, CA 95112	Matrix: LIQUID	Extracted: 01/06/99
	Analysis Method: EPA 8015 Mod	Analyzed: 01/07/99
Attention: Diedra Kerwin	Lab Number: 9812E42-02	Reported: 01/08/99

QC Batch Number: GC0106990HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**500**	**13000**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	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

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 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: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9812E42-02

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 01/01/99
Reported: 01/08/99

QC Batch Number: GC010199BTEX04A
Instrument ID: GCHP4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**290**
Methyl t-Butyl Ether	**2.5**	**10**
Benzene	**0.50**	**8.7**
Toluene	**0.50**	**18**
Ethyl Benzene	**0.50**	**9.7**
Xylenes (Total)	**0.50**	**38**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8260
Lab Number: 9812E42-02

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 01/06/99
Reported: 01/08/99

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	**2.0**	**29**

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	Q
Toluene-d8	88	110	Q
4-Bromofluorobenzene	86	115	97

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9812E42-03

Sampled: 12/21/98
Received: 12/22/98
Extracted: 12/31/98
Analyzed: 01/05/99
Reported: 01/08/99

QC Batch Number: GC1231980HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	92

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9812E42-03

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 01/01/99
Reported: 01/08/99

QC Batch Number: GC010199BTEX04A
Instrument ID: GCHP4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	102

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-5
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9812E42-04

Sampled: 12/21/98
Received: 12/22/98
Extracted: 12/31/98
Analyzed: 01/06/99
Reported: 01/08/99

QC Batch Number: GC1231980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**100**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	102

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-5
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9812E42-04

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 01/04/99
Reported: 01/08/99

QC Batch Number: GC010499BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**100**	**270**
Methyl t-Butyl Ether	**5.0**	**34**
Benzene	**1.0**	**16**
Toluene	**1.0**	**2.9**
Ethyl Benzene	**1.0**	**1.3**
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	113

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-5
Matrix: LIQUID
Analysis Method: EPA 8260
Lab Number: 9812E42-04

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 01/06/99
Reported: 01/08/99

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.0	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	Q
Toluene-d8	88	110	Q
4-Bromofluorobenzene	86	115	97

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Texaco 3810 Broadway	Sampled: 12/21/98
1680 Rogers Avenue	Sample Descript: MW-6	Received: 12/22/98
San Jose, CA 95112	Matrix: LIQUID	Extracted: 12/31/98
	Analysis Method: EPA 8015 Mod	Analyzed: 01/06/99
Attention: Diedra Kerwin	Lab Number: 9812E42-05	Reported: 01/08/99

QC Batch Number: GC1231980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**930**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	102

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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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: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-6
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9812E42-05

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 01/04/99
Reported: 01/08/99

QC Batch Number: GC010499BTEX05A
Instrument ID: GCHP5

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2500	7900
Methyl t-Butyl Ether	125	150
Benzene	25	1900
Toluene	25	510
Ethyl Benzene	25	280
Xylenes (Total)	25	730
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	105

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

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Blaine Tech Services	Client Proj. ID: Texaco 3810 Broadway	Sampled: 12/21/98
1680 Rogers Avenue	Sample Descript: MW-6	Received: 12/22/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8260	Analyzed: 01/06/99
Attention: Diedra Kerwin	Lab Number: 9812E42-05	Reported: 01/08/99

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	**2.0**	**2.6**

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	Q
Toluene-d8	88	110	Q
4-Bromofluorobenzene	86	115	94

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-7
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9812E42-06

Sampled: 12/21/98
Received: 12/22/98
Extracted: 12/31/98
Analyzed: 01/06/99
Reported: 01/08/99

QC Batch Number: GC1231980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	96

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-7
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9812E42-06

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 12/31/98
Reported: 01/08/99

QC Batch Number: GC123198BTEX05A
Instrument ID: GCHP5

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9812E42-07

Sampled: 12/21/98
Received: 12/22/98
Extracted: 12/31/98
Analyzed: 01/06/99
Reported: 01/08/99

QC Batch Number: GC1231980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**1200**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	106

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: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9812E42-07

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 12/31/98
Reported: 01/08/99

QC Batch Number: GC123198BTEX05A
Instrument ID: GCHP5

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**9600**
Methyl t-Butyl Ether	**250**	**700**
Benzene	**50**	**2600**
Toluene	**50**	**410**
Ethyl Benzene	**50**	**220**
Xylenes (Total)	**50**	**300**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: EPA 8260
Lab Number: 9812E42-07

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 01/06/99
Reported: 01/08/99

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.0	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	Q
Toluene-d8	88	110	Q
4-Bromofluorobenzene	86	115	97

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-9
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9812E42-08

Sampled: 12/21/98
Received: 12/22/98
Extracted: 12/31/98
Analyzed: 01/06/99
Reported: 01/08/99

QC Batch Number: GC1231980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**71**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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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: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-9
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9812E42-08

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 12/31/98
Reported: 01/08/99

QC Batch Number: GC123198BTEX05A
Instrument ID: GCHP5

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-10
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9812E42-09

Sampled: 12/21/98
Received: 12/22/98
Extracted: 12/31/98
Analyzed: 01/06/99
Reported: 01/08/99

QC Batch Number: GC1231980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**79**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	95

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, (925) 988-9600, FAX (925) 988-9673
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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-10
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9812E42-09

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 12/31/99
Reported: 01/08/99

QC Batch Number: GC123198BTEX05A
Instrument ID: GCHP5

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**100**	**120**
Methyl t-Butyl Ether	**5.0**	**8.7**
Benzene	**1.0**	**5.5**
Toluene	1.0	N.D.
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	86

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway
Sample Descript: MW-10
Matrix: LIQUID
Analysis Method: EPA 8260
Lab Number: 9812E42-09

Sampled: 12/21/98
Received: 12/22/98

Analyzed: 01/06/99
Reported: 01/08/99

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.0	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	Q
Toluene-d8	88	110	Q
4-Bromofluorobenzene	86	115	96

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Perrner
Project Manager

Sequoia Analytical

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Diedra Kerwin

Client Project ID: Texaco 3810 Broadway
Matrix: Liquid

Work Order #: 9812E42 -06-09

Reported: Jan 11, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC123198802005A	GC123198802005A	GC123198802005A	GC123198802005A	GC123198802005A
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. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8122125	8122125	8122125	8122125	8122125
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Analyzed Date:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	290 µg/L
Result:	22	21	22	67	280
MS % Recovery:	110	105	110	112	97
Dup. Result:	23	22	23	70	290
MSD % Recov.:	115	110	115	117	100
RPD:	4.4	4.7	4.4	4.4	3.5
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS123198	LCS123198	LCS123198	LCS123198	LCS123198
Prepared Date:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Analyzed Date:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	290 µg/L
LCS Result:	20	20	20	63	280
LCS % Recov.:	100	100	100	105	97
MS/MSD Control Limits	60-140	60-140	60-140	60-140	
LCS Control Limits	70-130	70-130	70-130	70-130	50-150

SEQUOIA ANALYTICAL
Elap #1271

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

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Diedra Kerwin

Client Project ID: Texaco 3810 Broadway
Matrix: Liquid

Work Order #: 9812E42-01-03

Reported: Jan 11, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC010199802004A	GC010199802004A	GC010199802004A	GC010199802004A	GC010199802004A
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. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8122170	8122170	8122170	8122170	8122170
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/1/99	1/1/99	1/1/99	1/1/99	1/1/99
Analyzed Date:	1/1/99	1/1/99	1/1/99	1/1/99	1/1/99
Instrument I.D.#:	HP4	HP4	HP4	HP4	HP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	330 µg/L
Result:	24	20	21	71	300
MS % Recovery:	120	100	105	118	91
Dup. Result:	23	20	20	69	300
MSD % Recov.:	115	100	100	115	91
RPD:	4.3	0.0	4.9	2.9	0.0
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS010199	LCS010199	LCS010199	LCS010199	LCS010199
Prepared Date:	1/1/99	1/1/99	1/1/99	1/1/99	1/1/99
Analyzed Date:	1/1/99	1/1/99	1/1/99	1/1/99	1/1/99
Instrument I.D.#:	HP4	HP4	HP4	HP4	HP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	330 µg/L
LCS Result:	23	20	21	71	290
LCS % Recov.:	115	100	105	118	88
MS/MSD Control Limits	60-140	60-140	60-140	60-140	
LCS Control Limits	70-130	70-130	70-130	70-130	50-150

SEQUOIA ANALYTICAL
Elap #1271

Peggy Penner
Project Manager

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· Sequoia Analytical

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Diedra Kerwin

Client Project ID: Texaco 3810 Broadway
Matrix: Liquid

Work Order #: 9812E42-05

Reported: Jan 11, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC010499802005A	GC010499802005A	GC010499802005A	GC010499802005A	GC010499802005A
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. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8122030	8122030	8122030	8122030	8122030
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99
Analyzed Date:	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	290 µg/L
Result:	20	21	21	65	270
MS % Recovery:	100	105	105	108	93
Dup. Result:	21	22	22	69	290
MSD % Recov.:	105	110	110	115	100
RPD:	4.9	4.7	4.7	6.0	7.1
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS010499	LCS010499	LCS010499	LCS010499	LCS010499
Prepared Date:	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99
Analyzed Date:	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	290 µg/L
LCS Result:	20	21	20	63	270
LCS % Recov.:	100	105	100	105	93
MS/MSD Control Limits	60-140	60-140	60-140	60-140	
LCS Control Limits	70-130	70-130	70-130	70-130	50-150

SEQUOIA ANALYTICAL
ELAP #1271

Peggy Penner
Project Manager

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Diedra Kerwin

Client Project ID: Texaco 3810 Broadway
Matrix: Liquid

Work Order #: 9812E42-04

Reported: Jan 11, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC010499802002A	GC010499802002A	GC010499802002A	GC010499802002A	GC010499802002A
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:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8122037	8122037	8122037	8122037	8122037
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99
Analyzed Date:	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	330 µg/L
Result:	15	14	15	51	240
MS % Recovery:	75	70	75	85	73
Dup. Result:	18	17	19	61	290
MSD % Recov.:	90	85	95	102	88
RPD:	18.2	19.4	23.5	17.9	18.9
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS010499	LCS010499	LCS010499	LCS010499	LCS010499
Prepared Date:	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99
Analyzed Date:	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	330 µg/L
LCS Result:	20	20	21	68	330
LCS % Recov.:	100	100	105	113	100
MS/MSD Control Limits	60-140	60-140	60-140	60-140	
LCS Control Limits	70-130	70-130	70-130	70-130	50-150

SEQUOIA ANALYTICAL
Elap #1271

Peggy Penner
Project Manager

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Diedra Kerwin

Client Project ID: Texaco 3810 Broadway
Matrix: Liquid

Work Order #: 9812E42-01-02, 04-05, 07, 09

Reported: Jan 11, 1999

QUALITY CONTROL DATA REPORT

Analyte:	MTBE
QC Batch#:	MS0105998260S2A
Analy. Method:	EPA 8260
Prep. Method:	EPA 5030
Analyst:	N. Nelson
MS/MSD #:	8122065
Sample Conc.:	N.D.
Prepared Date:	1/5/99
Analyzed Date:	1/5/99
Instrument I.D.#:	GCMS2
Conc. Spiked:	50 µg/L
Result:	57
MS % Recovery:	114
Dup. Result:	52
MSD % Recov.:	104
RPD:	9.2
RPD Limit:	0-25

LCS #:	LCS010699
Prepared Date:	1/6/99
Analyzed Date:	1/6/99
Instrument I.D.#:	GCMS2
Conc. Spiked:	50 µg/L
LCS Result:	48
LCS % Recov.:	96

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

SEQUOIA ANALYTICAL
Elap #1271

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Ave
San Jose, CA 95112
Attention: Diedra Kerwin

Client Project ID: Texaco 3810 Broadway

QC Sample Group: 9812E42-10

Reported: Jan 8, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/8020, 601/602
Analyst: Hankermeyer

ANALYTE	1,1-DCE	TCE	hlorobenzene	Benzene	Toluene	hlorobenzene
QC Batch #:	GC0104990VOA24A					
Sample No.:	9812B23-02					
Date Prepared:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Date Analyzed:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Instrument I.D.#:	gchp24_2	gchp24_2	gchp24_2	gchp24_2	gchp24_2	gchp24_2
Sample Conc., ug/L:	1.7	N.D	N.D.	N.D.	N.D.	N D
Conc. Spiked, ug/L:	25	25	25	25	25	25
Matrix Spike, ug/L:	35	25	31	25	26	26
% Recovery:	133	100 0	124	100.0	104	104
Matrix pike Duplicate, ug/L:	34	26	30	26	26	26
% Recovery:	129	104	120	104	104	104
elative % Difference:	3.1	3.9	3.3	3 9	0.0	0.0
RPD Control Limits:	0-50	0-50	0-50	0-50	0-50	0-50

LCS Batch#:	VWLCS010499A					
Date Prepared:	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99
Date Analyzed:	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99	1/4/99
Instrument I.D.#:	gchp24_2	gchp24_2	gchp24_2	gchp24_2	gchp24_2	gchp24_2
Conc. Spiked, ug/L:	25	25	25	25	25	25
Recovery, ug/L:	29	24	25	26	26	26
LCS % Recovery:	116	96	100.0	104	104	104

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130	70-130

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

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note

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Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112
Attention: Diedra Kerwin

Client Project ID: Texaco 3810 Broadway

QC Sample Group: 9812E42-03-09

Reported. Jan 8, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	A. PORTER
ANALYTE	Diesel

QC Batch #: GC1231980HBPEXB

Sample No.:	9812E42-03
Date Prepared:	12/31/98
Date Analyzed:	1/5/99
Instrument I.D.#:	GCHP5B
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	920
% Recovery:	92
Matrix pike Duplicate, ug/L:	760
% Recovery:	76
elative % Difference:	19
RPD Control Limits:	0-50

LCS Batch#: BLK123198BS

Date Prepared:	12/31/98
Date Analyzed:	1/5/99
Instrument I.D.#:	GCHP5B
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	1200
LCS % Recovery:	120

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

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

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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Blaine Tech Services
1680 Rogers Ave.
San Jose, CA 95112
Attention: Diedra Kerwin

Client Project ID: Texaco 3810 Broadway

QC Sample Group: 9812E42-01

Reported: Jan 8, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	A. PORTER
ANALYTE	Diesel

QC Batch #: GC1230980HBPEXC

Sample No.:	9812E42-02
Date Prepared:	12/30/98
Date Analyzed:	1/5/99
Instrument I.D.#:	GCHP5B
Sample Conc., ug/L:	5000
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	5300
% Recovery:	30
Matrix pike Duplicate, ug/L:	14000
% Recovery:	900
elative % Difference:	187
RPD Control Limits:	0-50

LCS Batch#: BLK123098CS

Date Prepared:	12/30/98
Date Analyzed:	1/5/99
Instrument I.D.#:	GCHP5B
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	790
LCS % Recovery:	79

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

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

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

SEQUOIA ANALYTICAL

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, (925) 988-9600, FAX (925) 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 Ave.
San Jose, CA 95112
Attention: Diedra Kerwin

Client Project ID: Texaco 3810 Broadway

QC Sample Group: 9812E42-02

Reported: Jan 8, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015A
Analyst: A. PORTER

ANALYTE Diesel

QC Batch #: GC0106990HBPEXB

LCS ID: BLK010699BS/BSD
Date Prepared: 1/6/99
Date Analyzed: 1/6/99
Instrument I.D.#: GCHP4B

Conc. Spiked, ug/L: 1000

Blank Spike, ug/L: 810
% Recovery: 81

Blank pike Duplicate, ug/L: 760
% Recovery: 76

elative % Difference: 6.4

% Recovery Control Limits: 50-150

RPD Control Limits: 0-50

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

SEQUOIA ANALYTICAL

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.

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Diedra Kerwin

Client Proj. ID: Texaco 3810 Broadway

Lab Proj. ID: 9812E42

Received: 12/22/98

Reported: 01/08/99

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 35 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

The MTBE confirmations by EPA 8260 were all analyzed past hold time. MTBE did not confirm for all samples therefore the MTBE results reported by EPA 8020 should be considered suspect.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

680 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233
819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: TRMI EH&S	Project Name: 981221-L1
Address: Texaco Loc.#618571071, 3810 Broadway	Billing Address (if different): 108 Cutting Boulevard
City: Oakland State: CA Zip Code:	Richmond, California 94804
Telephone: (510)236-3541 FAX #: (510)237-7821	engineer: Karen Petryna
Report To: Blaine Tech Sampler:	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Working Days ☐ 3 Working Days ☐ 2 - 8 Hours ☐ 7 Working Days ☐ 2 Working Days ☐ 5 Working Days ☐ 24 Hours

98 12E42

☐ Drinking Water ☒ Waste Water ☐ Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-g/BTEX/MTBE	TPH Diesel	O&G/TRPH (418.1)	Nitrate	Sulfate	Total Sulfide			Comments
1. MW-1	12-21 1204	WATER	5	40ml VOAS	01	X	X							*MTBE CONFIRMATION BY 8260
2. MW-2	1543		5		02	X	X							
3. MW-4	1143		5	1LTR AMB	03	X	X							
4. MW-5	1347		5		04	X	X							
5. MW-6	1420		5		05	X	X							
6. MW-7	1050		5		06	X	X							
7. MW-8	1510		5		07	X	X							
8. MW-9	1123		5		08	X	X							
9. MW-10	1230		5		09	X	X							
10.														

Pink - Client
Yellow - Sequoia
White - Sequoia

Relinquished By:	Date: 12/22/98	Time: 10:50	Received By:	Date: 12-22-98	Time: 1052
Relinquished By:	Date: 12-22-98	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date: 12/22/98	Time: 1301

Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment FS

Page of

Well Gauging Data

Project Name: TEX # 61857107 1
Project Number: 98122 1-L1

Date: 12/21/98
Recorded By: LAD GILCHRIST

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-1		28.83 W	2.0		22.15		
MW-2		33.73	2.0		21.31		
MW-3		←	2.0	17.50	20.23	2.73	DOUBLE CHECKED DTP
MW-4		35.00	2.0		18.80		
MW-5		33.44	2.0		20.91		
MW-6		32.65 W	2.0		21.74		
MW-7		33.85	2.0		19.75		
MW-8		33.48 W	2.0		19.48		
MW-9		34.10	2.0		17.40		
MW-10		33.46	2.0		17.32		

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 #: 98121-C	Texaco ID#: 6185710711
Sampler: Lad / John	Date: 12/21/98
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 28.83	Depth to Water: 22.15
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
- Extraction Pump
- Other: _____

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

1.06	x	3	=	3.18 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
11:50	59.6	6.8	1000	>200	2	Grey, V. Silted
11:59	59.6	6.8	800	>200	3	
~~11:02~~ 1202	57.2	6.6	440	>200	4	muddy/sandy

Did well dewater? Yes (No) Gallons actually evacuated: 4

Sampling Time: ~~11:04~~ 1204 Sampling Date: 12-21-98

Sample I.D.: MW-1 Laboratory: (Sequoia)

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

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

TEXACO WELL MONITORING DATA SHEET

Project #: 981221 - L1	Texaco ID#: 6185710 11
Sampler: Lad1 John	Date: 12/21/98
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8 ___
Total Well Depth: 33.73	Depth to Water: 21.31
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
- x Teflon Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

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

2.0 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
13:29	61.6	6.6	1250	> 200	2	Steam, odor, dk grey
13:35	60.2	6.5	1258	> 200	4	"
13:41	62.2	6.76	1338	> 200	6	Steam, odor, grey

Did well dewater? Yes No — Gallons actually evacuated: 6

Sampling Time: 13:43 — Sampling Date: 12/21/98

Sample I.D.: MW-2 — Laboratory: (Sequoia)

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

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

TEXACO WELL MONITORING DATA SHEET

Project #: 981221-L1	Texaco ID#: 6185710711
Sampler: Lad & John	Date: 12/21/98
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: ✓	Depth to Water: 20.23
Depth to Free Product: 17.50	Thickness of Free Product: 2.73

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: * DISP. BAILER
- S.S. Bailer
- ~~X 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
		FREE PRODUCT				
		NO SAMPLE				
	+ BAILED OUT APPROX 2.0 GAL'S S.P.H.					
	AND 2 GAL'S OF H_2O					
	+ INSTALLED SKIMMER					

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

Sampling Time: Sampling Date:

Sample I.D.: ~~MW-3~~ Laboratory: (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 #: 981221-L1	Texaco ID#: 6185719711
Sampler: Ladi/John	Date: 12/21/98
Well I.D.: MW-4	Well Diameter: ② 3 4 6 8 ___
Total Well Depth: 35.00	Depth to Water: 18.80
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
- X Teflon Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

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

2.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 7.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
11:31	64.2	6.8	600	>200	3	V. Light Brn
11:39	64.6	6.8	600	>200	6	
11:42	62.0	6.8	600	>200	8	

Did well dewater? Yes (No) Gallons actually evacuated: 8

Sampling Time: 11:43 Sampling Date: 12-21-98

Sample I.D.: MW-4 Laboratory: (Sequoia)

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

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

TEXACO WELL MONITORING DATA SHEET

Project #: 981221-L1	Texaco ID#: 6185710711
Sampler: Lad / John	Date: 12/21/98
Well I.D.: MW-5	Well Diameter: ② 3 4 6 8 ___
Total Well Depth: 33.44	Depth to Water: 20.91
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
- Extraction Pump
- Other: _____

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

1 Case Volume (Gals.)		Specified Volumes		Calculated Volume
20	x	3	=	6 Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
13:40	63.0	7.0	3000	>200	2	odor/light grey
13:43	63.0	7.0	2400	>200	4	
13:45	62.2	7.0	2400	7200	6	

Did well dewater? Yes (No)	Gallons actually evacuated: 6
Sampling Time: 13:47	Sampling Date: 12-21-98
Sample I.D.: MW-5	Laboratory: (Sequoia)
Analyzed for: (Tph-G) BTEX (Tph-D)	Other: MTBE
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 981221-L1	Texaco ID#: 6185/1071
Sampler: Lad / John	Date: 12/21/98
Well I.D.: MW-6	Well Diameter: ② 3 4 6 8 ___
Total Well Depth: 32.65	Depth to Water: 21.74
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	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: _____

1.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
2:05	62.6	7.0	1600	>200	2.	gray, odor
2:10	61.6	7.2	1600	>200	4.	"
2:15	60.6	7.0	1600	>200	6.	"

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

Sampling Time: 14:20 Sampling Date: 12/21/98

Sample I.D.: MW-6 Laboratory: (Sequoia)

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

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

TEXACO WELL MONITORING DATA SHEET

Project #: 981221 - L1	Texaco ID#: 6185 7/07/
Sampler: Lad / John	Date: 12/21/98
Well I.D.: MW-7	Well Diameter: ② 3 4 6 8 ___
Total Well Depth: 33.85	Depth to Water: 19.75
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
- X Teflon Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

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

2.4 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 7.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
10:42	62.8	6.8	600	7200	3	lt. brn.
10 45	63.0	6.8	600	>200	6 5	
10:48	63.4	6.8	600	>200	9 8	

Did well dewater? Yes (No) Gallons actually evacuated: 8.

Sampling Time: 1050 Sampling Date: 12-21-98

Sample I.D.: MW-7 Laboratory: Sequoia

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

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

TEXACO WELL MONITORING DATA SHEET

Project #: 981221 -L1	Texaco ID#: 6185710 71
Sampler: Lad + John	Date: 12/21/98
Well I.D.: MW-8	Well Diameter: ② 3 4 6 8 ____
Total Well Depth: 33.48	Depth to Water: 19.48
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	radius^2 * 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
2.2	x	3	=	6.6 Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
14:50	64.0	7.0	2800	>200	3	Grey/odor
15:00	63.6	6.8	1720.	>200	6	odor
1508	63.2	6.3	1272	7200.	7	

Did well dewater? Yes (No)	Gallons actually evacuated: 7.
Sampling Time: 1510	Sampling Date: 12/21/98
Sample I.D.: MW-8	Laboratory: (Sequoia)
Analyzed for: (Tph-G) (BTEX) (Tph-D)	Other: MTBE
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 981221-L	Texaco ID#: 6185710 7 1
Sampler: Lad / John	Date: 12/21/98
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 34.10	Depth to Water: 17.40
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	radius^2 * 0.164

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

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

2.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 8.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
11:08	65.0	6.8	800	> 200	3	Lt. Brn.
11:12	65.2	6.6	600	> 200	6	
11:16	65.4	6.8	606	> 200	9	

Did well dewater? Yes No — Gallons actually evacuated: 9

Sampling Time: 11:23 — Sampling Date: 12-21-98

Sample I.D.: MW-9 — Laboratory: Sequoia

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

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

TEXACO WELL MONITORING DATA SHEET

Project #: 981221-C1	Texaco ID#: 61857/071
Sampler: Carl / John	Date: 12/21/98
Well I.D.: MW-10	Well Diameter: ② 3 4 6 8 ___
Total Well Depth: 33.46	Depth to Water: 17.32
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
- Extraction Pump
- Other: _____

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

2.6	x	3	=	7.8 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1221	62.2	6.7	1100.	7200.	3	
1225	65.2	6.7	1000.	7200	6	
1229	64.6	6.7	1000.	7200	9	

Did well dewater? Yes (No)	Gallons actually evacuated: 9
Sampling Time: 1230	Sampling Date: 12-21-98
Sample I.D.: MW-10	Laboratory: Sequoia
Analyzed for: (Tph-G) (BTEX) (Tph-D)	Other: MTBE
Equipment Blank I.D.:	Analyzed for same as primary sample