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SECOND QUARTER 1992 GROUNDWATER MONITORING REPORT

FOR

FORMER TEXACO SERVICE STATION 3940 CASTRO VALLEY BOULEVARD CASTRO VALLEY, CALIFORNIA

Sept 1992

Project No. F3091.32 September 1992



42501 Albrae Street Fremont, California 94538 Phone: (510) 440-3300 FAX: (510) 651-2233

> September 24, 1992 Project No. F3091.32

Texaco Environmental Services 108 Cutting Boulevard Richmond, CA 94804

Attention: Mr. Ron Zielinski

Subject: Second Quarter 1992 Groundwater Monitoring

Former Texaco Service Station

3940 Castro Valley Boulevard, Castro Valley, California

Dear Mr. Zielinski:

This quarterly monitoring report summarizes the groundwater sampling and analyses performed during June 1992 for the subject site in Castro Valley, Alameda County, California (Figure 1). Current groundwater monitoring and sampling analytical data acquired during this investigation are included.

Site Description and Background

The site is located on the northeast corner of Castro Valley Boulevard and Marshall Street in Castro Valley, California. It is situated near the crest of a hill on the north side of Interstate 580 in an area of commercial and multi-unit residential development. Formerly a Texaco Service Station, the site is currently a Speedee Oil Change and Tune-up Facility.

Underground fuel storage tanks were removed from the site in June 1984, and one groundwater monitoring well was installed in the tank excavation area by Groundwater Technology, Inc. (GTI). Three additional wells were installed at the site by GTI in 1987 with the intent of defining the areal extent of dissolved hydrocarbon constituents in the groundwater. Two monitoring wells, TX and MW-2, were destroyed in 1989 as part of the construction of the current business. Groundwater monitoring wells MW-4 and MW-5 were installed in 1990, and quarterly monitoring and sampling at the site was conducted by GTI. Details regarding the history of the site may be found in a workplan developed for the site by GTI dated April 9, 1991.

RESNA began quarterly groundwater monitoring at the site in October 1991. In January 1992, three additional groundwater monitoring wells were installed by RESNA (RESNA, March 1992). Two of the new wells, designated MW-6 and MW-7 are located off-site, and MW-8 is located on-site.

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Groundwater Sampling

RESNA collected groundwater samples from the seven groundwater monitoring wells associated with the site (Figure 2) in accordance with RESNA's groundwater sampling protocol (Appendix A) on June 30, 1992. Groundwater monitoring data is summarized on Table 1. Groundwater sampling parameters were recorded on sampling log sheets and are presented in Appendix A with RESNA's groundwater sampling protocol. The groundwater purged from the wells and the equipment runse water were placed in drains approved by the Department of Transportation. The water was left on site pending transport to a licensed facility.

Laboratory Analyses

The groundwater samples were transported to RESNA Environmental Laboratory (RESNA), located in Fremont, California. RESNA, state-certified laboratory No. 1211, analyzed the samples for the presence of total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethyl benzene, and total xylenes (BTEX). Testing methods used were EPA 8015 and 8020, respectively.

Summary of Laboratory Results

The results of the groundwater analyses are summarized in Table 2. The analytical reports and chain-of-custody documents are attached in Appendix B. TPHg was detected in MW-1 and MW-4 at concentrations of 67 ppb and 76 ppb, respectively. Benzene was detected in MW-1 and MW-4 at concentrations of 1.3 and 2.4 parts per billion (ppb), respectively. Ethyl benzene was reported in MW-4 at 3.3 ppb. Petroleum hydrocarbons were not detected in wells MW-3, MW-5, MW-6, MW-7, and MW-8. TPHg and benzene concentrations detected quarterly are shown on Figure 5.

Groundwater Gradient

RESNA's interpretation of the gradient is based on the groundwater elevation contour map generated from measurements obtained during this quarter—shown on Figure 3. The apparent groundwater gradient and flow direction underlying the site is approximately 0.0004 to the southwest.

References

- RESNA Industries Inc., February 1992, Fourth Quarter 1991, Groundwater Monitoring Report for Former Texaco Service Station, 3940 Castro Valley Boulevard, Castro Valley, California.
- RESNA Industries Inc., March 1992, Soil and Groundwater Investigation, Former Texaco Service Station, 3940 Castro Valley Boulevard, Castro Valley, California.
- RESNA Industries Inc., May 1992, First Quarter 1992, Groundwater Monitoring Report for Former Texaco Service Station, 3940 Castro Valley Boulevard, Castro Valley, California.
- Groundwater Technology, Inc., April 9, 1991, Work Plan for Additional Subsurface Investigation, Former Texaco Service Station, 3940 Castro Valley Boulevard, Castro Valley, California.

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Reporting Requirements

A copy of this report should be forwarded by Texaco to the following agencies:

Alameda County Health Care Services Agency Hazardous Materials Program

80 Swan Way, Room 200 Oakland, California 94621

Attention: Mr. Scott Seery

California Regional Water Quality Control Board

San Francisco Bay Region

2101 Webster Street, Room 500 Oakland, California 94612 Attention: Mr. Richard Hiett

Disclaimer

This report has been prepared solely for the use of Texaco and any reliance on this report by third parties shall be at such party's sole risk.

Limitations

The discussion presented in this report are based on the following:

1. Observations by field personnel.

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- 2. The results of laboratory analyses performed by a state-certified laboratory.
- 3. Our understanding of the regulations of the State of California and Alameda County.

It is possible that variations in the soil or groundwater conditions could exist beyond the points explored in this investigation. Also, changes in the groundwater conditions could occur at some time in the future due to variations in rainfall, temperature, regional water usage, or other factors.

The service performed by RESNA has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the environmental profession currently practicing under similar conditions in the Castro Valley area. Please note that contamination of soil and groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

RESNA includes in this report chemical analytical data from a state-certified laboratory. The analytical results are performed according to procedures suggested by the U.S. EPA and State of California.

Sincerely,

RESNA Industries Inc.

Nissa/L. Nack Staff Geologist

NLN/JLN/sw Enclosures

REGISTERED GEOLOGIS. JAMES LEWIS NELSON

No. 1463 CERT/FIED

ENGINEERING GEOLOGIST OF CALIFORNIA GEOLOGIST

ames L. Nelson C.E.G. 1463

Senior Program Geologist

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TABLE 1
GROUNDWATER MONITORING DATA

Well Number	Sampling Date	Top of Casing Elevation (ft.)	Depth to Water (ft.)	Groundwater Elevation (ft.)	Change in Groundwater Elevation	Well Depth (ft.)	Observations
ΤX	11/19/87	_	Dry	_		20.90	installed to 25 feet
	12/20/87		Dry				
	12/30/87		Dry Dry			21.51	
	06/07/88 12/13/88		Dry				
	08/29/92		22,				Destroyed prior to contion of new building.
MW-1	12/30/87	192.46		170.54			
	06/07/88			169.11 169.29			
	12/13/88			168.76			
	08/29/89 02/27/90			169.21			
	04/21/90			168.81			
	06/11/90			168.72			
	07/18/90			168.56			
	08/22/90			168.39			
	09/27/90			168.25			
	10/10/90			168.21 168.01			
	11/15/90 12/11/90			168.92			
	01/09/91			167.78			
	01/23/91			167.85			
	02/22/91			167.88			
	03/20/91			168.51			
	04/11/91			169.05 168.94			
	05/14/91			168.85			
	06/10/91 07/16/91		23.89	168.57			
	08/09/91		23.96	168.50			
	09/11/91		24.16	168.30			
	12/11/91		24.68	167.78		39.30	Cloudy
resurvey	02/28/92	192.45	23.72	168.73	0.95	39.24	Cloudy
	03/30/92		23.25	169.20 169.01	0.47 -0.19	39.24 39.25	Cloudy
MW-2	06/30/92		23.44 22.30	109.01	-0.19	37.23	
MIW-2	12/20/87 06/07/88		23.83				
	12/13/88		23.69				
	08/29/89						Destroyed prior to construction of new new building
MW-3	12/30/87	190.48		167.88 169.58			
	06/07/88 12/13/88			169.56			
	08/29/89			169.00			
	02/27/90			168.90			
	04/12/90			168.78			
	06/11/90			168.69			
	07/18/90			168.52 168.38			
	08/22/90			168.24			
	09/27/90 10/10/90			168.20			
	11/15/90			167.98			
	12/11/90			165.94			

TABLE 1
GROUNDWATER MONITORING DATA

Well Number	Sampling Date	Top of Casing Elevation _(ft.)	Depth to Water (ft.)	Groundwater Elevation (ft.)	Change in Groundwater Elevation	Well Depth (ft.)	Observations
		•		142 27			
MW-3	01/09/91			167.77			
(Con't)	01/23/91			167.83			
	02/22/91			167.80			
	03/20/91			168.52			
	04/11/91			169.34			
	05/14/91			168.94			
	06/10/91		01.00	168.84			
	07/16/91		21.93	168.55			
	08/09/91		21.99	168.49			
	09/11/91		22.22	168.26 167.81		34.41	Cloudy
	12/11/91	100.50	22.67		0.93	54.41	Cloudy
resurvey	02/28/92	190.50	21.76	168.74		34.45	Cloudy
	03/30/92		21.32	169.18	0.44 -0.17	34.43 34.43	Cloudy
	06/30/92		21.49	169.01	-0.17	34,43	Cloudy
MW-4	04/12/90	191.63		168.79		_	
	06/11/90			169.81			
	07/18/90			168.54			
	08/22/90			168.39			
	09/27/90			168.25			
	10/10/90			167.20			
	11/15/90			167.99			
	12/11/90			167.94			
	01/09/91			167.79			
	01/23/91			167.84			
	02/22/91			167.86			
	03/20/91			168.52			
	04/11/91			169.03			
	05/14/91			168.95			
	06/10/91		02.06	168.84			
	07/16/91		23.06 23.14	168.57 168.49			
	08/09/91			168.27			
	09/11/91		23.36 23.75	167.88		42.20	Clear to cloudy
	10/11/91		23.73	167.76	-0.12	42.50	Clear to cloudy
	11/12/91		23.80	167.83	0.07	42.20	Cloudy
	12/11/91	191.64	23.79	167.85	0.02	42.25	Cloudy
resurvey	01/28/92	191.04	22.90	168.74	0.89	41.22	Cloudy/clear
	02/28/92		22.46	169.18	0.44	42.15	Cloudy/clear
	03/30/92 06/30/92		22.64	169.00	-0.18	42.10	Cloudy
	04/40/00	101 55		168.81			
MW-5	04/12/90	191.55		168.72			
	06/11/90			168.54			
	07/18/90			168.40			
	08/22/90			168.26			
	09/27/90			169.22			
	10/10/90 11/15/90			168.01			
				167.96			
	12/11/90 01/09/91			167.80			
				167.86			
	01/23/91 02/22/91			167.89			
				168.54			
	03/20/91			169.05			
	04/11/91			107.03			

TABLE 1
GROUNDWATER MONITORING DATA

Well Number	Sampling Date	Top of Casing Elevation (ft.)	Depth to Water (ft.)	Groundwater Elevation (ft.)	Change in Groundwater Elevation	Well Depth (ft.)	Observations
	05/14/04			168.98			
MW-5	05/14/91			168.87			
Con't	06/10/91		00.05	168.60			
	07/16/91		22.95				
	08/09/91		23.01	168.54 168.29			
	09/11/91		23.26			41.05	Cloudy to clear
	12/11/91		23.70	167.85	0.01	41.03	Cloudy to clear
resurvey	02/28/92	191.56	22.80	168.76	0.91	 40.87	Claude
	03/30/92		22.35	169.21	0.45		Cloudy
	06/30/92		22.54	169.02	-0.19	41.55	Silty
MW-6	01/28/92	187.30	19.55	167.75		37.30	Cloudy
******	02/28/92		18.62	168.68	0.93	37.30	Cloudy to clear
	03/30/92		18.20	169.10	0.42	37.41	Cloudy to clear
	06/30/92		18.38	168.92	-0.18	37.23	Clear
MW-7	01/28/92	189.34	21.53	167.81		37.40	Cloudy
74T 44 - \	02/28/92	107.54	20.61	168.73	0.92	37.34	Cloudy
	03/30/92		20.17	169.17	0.44	37.32	Cloudy
			20.37	168.97	-0.20	37.22	Clear
•	06/30/92		20.57	100.71	0.20	V	
MW-8	01/28/92	193.62	25.77	167.85		39.77	Cloudy
	02/28/92		24.89	168.73	0.88	38.96	Cloudy
	03/30/92		24.42	169.20	0.47	39.10	Cloudy
	06/30/92		24.61	169.01	-0.19	39.04	Clear/cloudy

ft. Feet
gal. Gallons
Temp. Temperature
°C Degrees Celcius
Cond. Conductivity
μmhos/cm Micromhos per centimeter

NOTE: Information obtained prior to October 1991 provided by Groundwater Technology, Inc.

TABLE 2
SUMMARY OF GROUNDWATER ANALYSES DATA

Well Number	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)	TPHg (ppb)
TX	12/30/87				~~	
	06/07/88					
	12/13/88					
	08/29/89	Well Aba	ndoned			
MW-1	12/30/87	15	12	3	190	2,100
	06/07/88	12	<pql< td=""><td><pql< td=""><td>17</td><td>290</td></pql<></td></pql<>	<pql< td=""><td>17</td><td>290</td></pql<>	17	290
	12/13/88	3	<pql< td=""><td><pql< td=""><td><pql< td=""><td>370</td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>370</td></pql<></td></pql<>	<pql< td=""><td>370</td></pql<>	370
	08/29/89	6	<pql< td=""><td><pql< td=""><td><pql< td=""><td>160</td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>160</td></pql<></td></pql<>	<pql< td=""><td>160</td></pql<>	160
	03/07/90	<pqľ< td=""><td>⟨PQL</td><td>⟨PQL</td><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pqľ<>	⟨PQL	⟨PQL	<pql< td=""><td><pql< td=""></pql<></td></pql<>	<pql< td=""></pql<>
	04/16/90	~ QD				
	06/11/90	14	1	1	2	39
	08/22/90	0.3	<mdl̂< td=""><td><mdl< td=""><td><mdl< td=""><td>130</td></mdl<></td></mdl<></td></mdl̂<>	<mdl< td=""><td><mdl< td=""><td>130</td></mdl<></td></mdl<>	<mdl< td=""><td>130</td></mdl<>	130
	09/12/90	7	<mdl< td=""><td>2</td><td>3</td><td>92</td></mdl<>	2	3	92
		2	<mdl< td=""><td>0.6</td><td>ĭ</td><td>40</td></mdl<>	0.6	ĭ	40
	10/10/90		<mdl< td=""><td><mdl< td=""><td><mdl .<="" td=""><td>18</td></mdl></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl .<="" td=""><td>18</td></mdl></td></mdl<>	<mdl .<="" td=""><td>18</td></mdl>	18
	11/15/90	8.0		<mdl< td=""><td><mdl <mdl<="" td=""><td><mdl< td=""></mdl<></td></mdl></td></mdl<>	<mdl <mdl<="" td=""><td><mdl< td=""></mdl<></td></mdl>	<mdl< td=""></mdl<>
	12/11/90	<mdl< td=""><td><mdl< td=""><td></td><td><mdl< td=""><td>33</td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td></td><td><mdl< td=""><td>33</td></mdl<></td></mdl<>		<mdl< td=""><td>33</td></mdl<>	33
	01/09/91	0.7	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	02/22/91	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td></td><td>17</td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td></td><td>17</td></mdl<></td></mdl<>	<mdl< td=""><td></td><td>17</td></mdl<>		17
	05/14/91	1	<0.3	0.4	0.8	<10
	09/11/91	< 0.3	< 0.3	<0.3	< 0.6	<10
	10/11/91					
	11/12/91		.0.5			-0.5
	12/11/91	< 0.5	<0.5	< 0.5	< 0.5	< 0.5
	01/28/92					
	02/28/92				1.0	000
	03/31/92	<0.5	<0.5	<0.5	1.3	280
	06/30/92	1.3	<0.5	<0.5	<0.5	(6//)
MW-2	12/30/87	220	16	3	150	2,400
	06/07/88	220	<pql< td=""><td>32</td><td>46</td><td>1,200</td></pql<>	32	46	1,200
	12/13/88	640	23	120	110	4,000
	08/29/89	Well Aba	ndoned			
MW-3	12/30/87	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	06/07/88	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""></pql<></td></pql<>	<pql< td=""></pql<>
	12/13/88	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""></pql<></td></pql<>	<pql< td=""></pql<>
	08/29/89	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""></pql<></td></pql<>	<pql< td=""></pql<>
	03/07/90	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""></pql<></td></pql<>	<pql< td=""></pql<>
	04/16/90	4 &F	- 4-	- ~-	- ~-	
	06/11/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	08/22/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
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	09/12/90	<mdl< td=""><td>~\(\/\) \\</td><td></td><td>< V !!</td><td>C IVII</td></mdl<>	~\(\/\) \\		< V !!	C IVII

TABLE 2 — continued
SUMMARY OF GROUNDWATER ANALYSES DATA

Well Number	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)	TPHg (ppb)
MW-3	10/10/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
(Con't)	11/15/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
(00 4)	12/11/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	01/09/91	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	02/22/91	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	05/14/91	< 0.3	<0.3	< 0.3	< 0.6	<10
	09/11/91	< 0.3	< 0.3	< 0.3	< 0.6	<10
	10/11/91					
	11/12/91			*****		
	12/11/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	01/28/92	~0.5				
	02/28/92					***
	03/31/92	< 0.5	<0.5	< 0.5	1.0	<50
	06/30/92	<0.5	<0.5	<0.5	< 0.5	<50
	00/30/92	~0.5	~0.5	~0.3	70.5	450
MW-4	04/16/90	97	1	11	120	1,500
	06/11/90	18	<mdl< td=""><td><mdl< td=""><td>0.7</td><td>110</td></mdl<></td></mdl<>	<mdl< td=""><td>0.7</td><td>110</td></mdl<>	0.7	110
	08/22/90	4	<mdl< td=""><td><mdl< td=""><td>1</td><td>50</td></mdl<></td></mdl<>	<mdl< td=""><td>1</td><td>50</td></mdl<>	1	50
	09/12/90	6	<mdl< td=""><td>0.5</td><td>1</td><td>49</td></mdl<>	0.5	1	49
	10/10/90	4	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td>77</td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td>77</td></mdl<></td></mdl<>	<mdl< td=""><td>77</td></mdl<>	77
	11/15/90	2	<mdl< td=""><td>0.4</td><td><mdl< td=""><td>49</td></mdl<></td></mdl<>	0.4	<mdl< td=""><td>49</td></mdl<>	49
	12/11/90	6	<mdl< td=""><td>1</td><td><mdl< td=""><td>79</td></mdl<></td></mdl<>	1	<mdl< td=""><td>79</td></mdl<>	79
	01/09/91	6	<mdl< td=""><td>$\bar{3}$</td><td><mdl< td=""><td>120</td></mdl<></td></mdl<>	$\bar{3}$	<mdl< td=""><td>120</td></mdl<>	120
	02/22/91	ī	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td>120</td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td>120</td></mdl<></td></mdl<>	<mdl< td=""><td>120</td></mdl<>	120
	05/14/91	29	<0.3	9	1	370
	09/11/91	0.8	< 0.3	1	< 0.6	22
	10/11/91	1.0	< 0.5	$1.\bar{5}$	< 0.5	< 50
	11/12/91	1.6	< 0.5	1.3	< 0.5	< 50
	12/11/91	0.8	<0.5	0.9	<0.5	<50
	01/28/92	26	0.8	28	2.0	1,200
	02/28/92	68	5.3	68	240	9,400
	03/31/92	<0.5	< 0.5	3.2	1.1	360
	06/30/92	2.4	< 0.5	3.3	< 0.5	76
MW-5	04/16/91	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	06/11/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	08/22/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	09/12/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	10/10/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	11/15/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	12/11/90	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	01/09/91	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	02/22/91	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>
	02/22/91	<mdl< td=""><td><widl< td=""><td><midl,< td=""><td><nidf< td=""><td><nidl< td=""></nidl<></td></nidf<></td></midl,<></td></widl<></td></mdl<>	<widl< td=""><td><midl,< td=""><td><nidf< td=""><td><nidl< td=""></nidl<></td></nidf<></td></midl,<></td></widl<>	<midl,< td=""><td><nidf< td=""><td><nidl< td=""></nidl<></td></nidf<></td></midl,<>	<nidf< td=""><td><nidl< td=""></nidl<></td></nidf<>	<nidl< td=""></nidl<>

TABLE 2 — continued

SUMMARY OF GROUNDWATER ANALYSES DATA

Well Number	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)	TPHg (ppb)
MW-5	05/14/91	< 0.3	< 0.3	< 0.3	<0.6	<10
(Con't)	09/11/91	< 0.3	< 0.3	< 0.3	< 0.6	<10
()	10/11/91					
	11/12/91	***				
	12/11/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	01/28/92					
	02/28/92					
	03/31/92	< 0.5	< 0.5	<0.5	1.2	<50
	06/30/92	<0.5	< 0.5	<0.5	<0.5	<50
MW-6	01/28/92	< 0.5	< 0.5	< 0.5	< 0.5	<50
	02/28/92	< 0.5	1.3	< 0.5	5.1	280
	03/31/92	< 0.5	< 0.5	< 0.5	< 0.5	<50
	06/30/92	< 0.5	<0.5	< 0.5	<0.5	<50
MW-7	01/28/92	<0.5	< 0.5	< 0.5	< 0.5	<50
14144 /	02/28/92	< 0.5	0.6	< 0.5	1.8	<50
	03/31/92	< 0.5	< 0.5	< 0.5	< 0.5	<50
	06/30/92	< 0.5	<0.5	< 0.5	< 0.5	<50
MW-8	01/28/92	<0.5	<0.5	< 0.5	<0.5	<50
2.217 0	02/28/92	< 0.5	< 0.5	< 0.5	0.9	69
	03/31/92	< 0.5	< 0.5	< 0.5	4.3	62
	06/30/92	< 0.5	< 0.5	< 0.5	< 0.5	<50

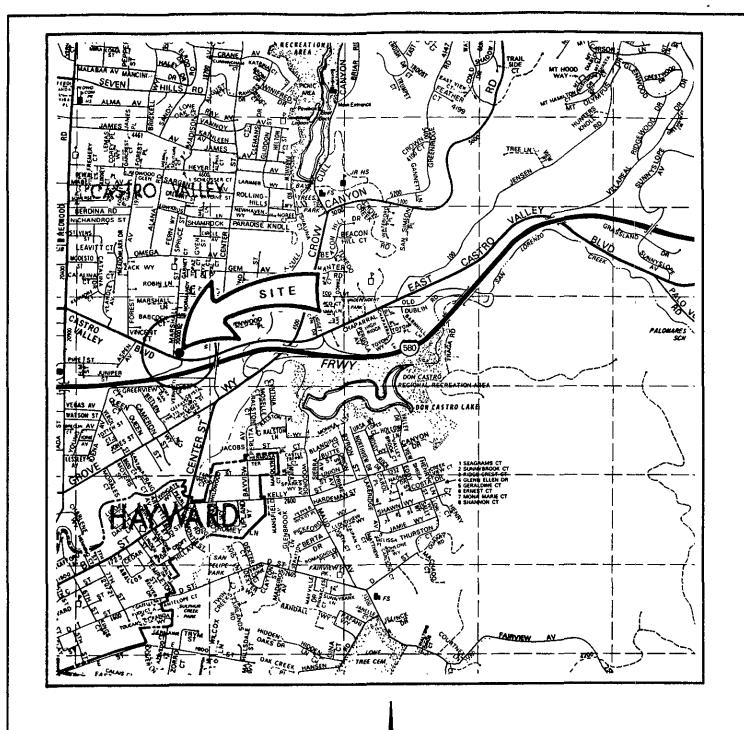
MDL Method detection limit PQL Practical quantitation level

TPHg Total petroleum hydrocarbons as gasoline

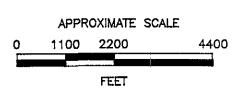
< 0.5 Not detected at or above the indicated method detection limit

ppb Parts per billion
Not sampled

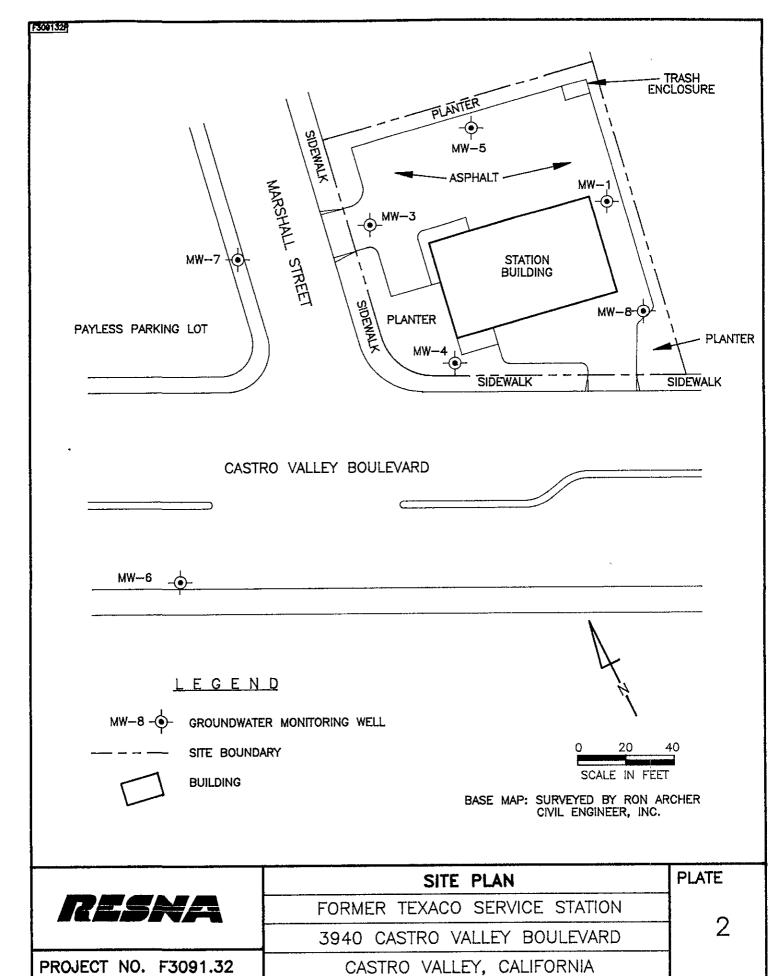
NOTE: Data obtained prior to October 1991 provided by Groundwater Technology, Inc.



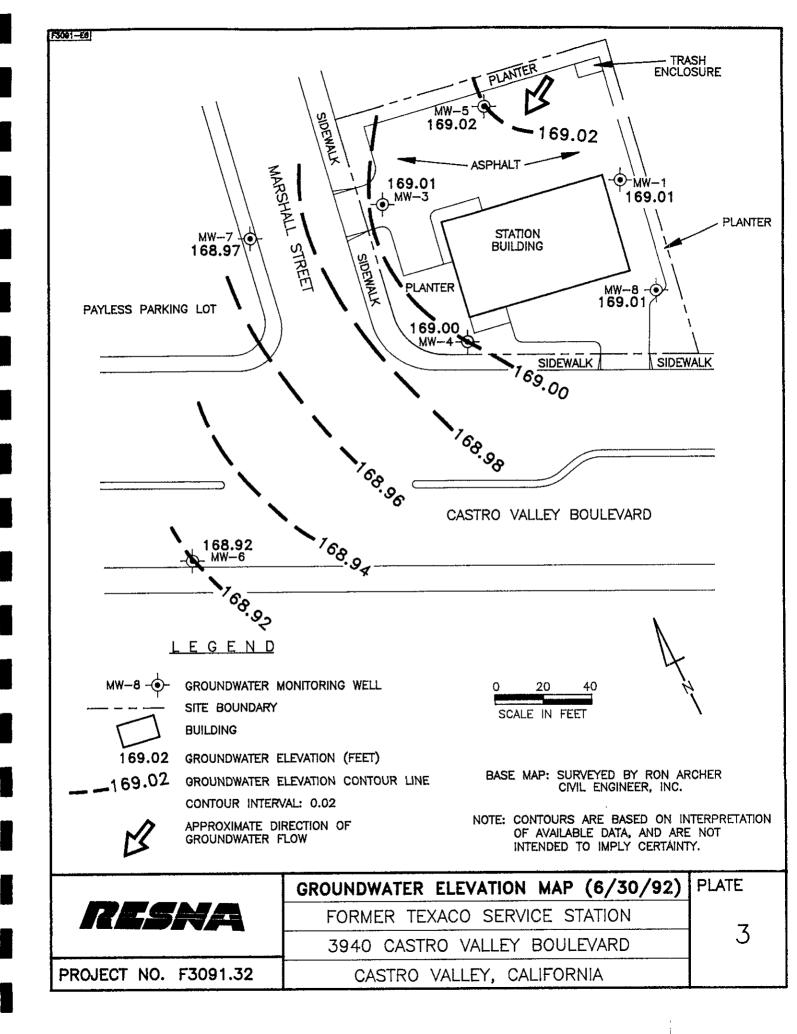
SOURCE: THOMAS BROTHER'S GUIDE ALAMEDA COUNTY, CALIFORNIA 1991 PHOTOREVISED 1981

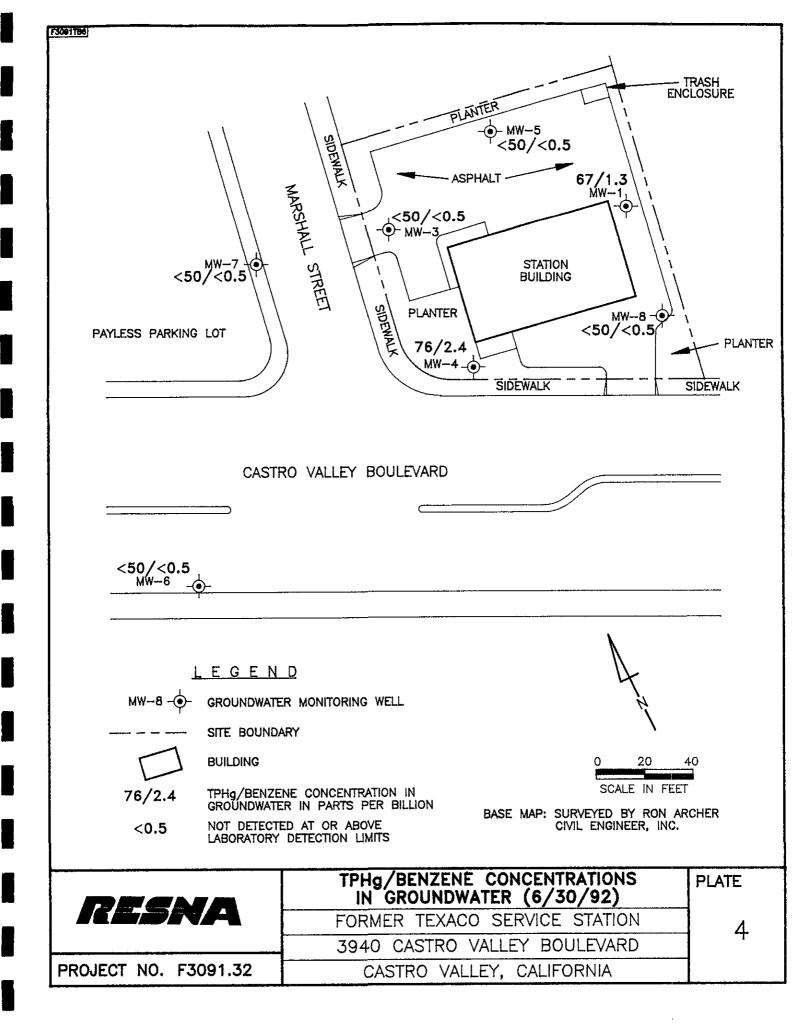


	SITE LOCATION MAP	PLATE
RESNA	FORMER TEXACO SERVICE STATION	
	3940 CASTRO VALLEY BOULEVARD	
PROJECT NO. F3091.32	CASTRO VALLEY, CALIFORNIA	



V.........





APPENDIX A GROUNDWATER SAMPLING PROTOCOL AND SAMPLING LOGS



GROUNDWATER SAMPLING PROTOCOL

The static water level in each well that contained groundwater was measured with a Solinst® water-level indicator; this instrument is accurate to the nearest 0.01 foot. The groundwater depths were subtracted from wellhead elevations in order to calculate the differences in groundwater elevations. The wellhead elevations were measured on January 28, 1992 by Ron Archer, Civil Engineer, Inc., a licensed land surveyor of Pleasanton, California.

Groundwater samples collected for subjective evaluation were collected by gently lowering approximately half of the length of a clean Teflon® bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. These samples were checked for measurable floating hydrocarbon product.

Before analytical water samples were collected from the groundwater monitoring wells, the wells were purged until stabilization of the temperature, pH, and conductivity was obtained. Approximately four well casing volumes were purged before those characteristics stabilized. The quantity of water purged from the wells was calculated as follows:

1 well casing volume = $\prod r^2h$ (7.48) where:

r = Radius of the well casing in feet.

h = column of water in the well in feet (well depth -

depth to water)

7.48 = Conversion constant from cubic feet to gallons

Gallons of water purged/gallons in 1 well casing volume = well casing volumes removed.

After purging, each well was allowed to recharge to the approximate initial water level. Groundwater samples were then collected with an Environmental Protection Agency (EPA) approved Teflon® sampler which had been cleaned with Alconox® and deionized water. The water samples were carefully poured into 40-milliliter glass vials, which were filled so as to produce a positive meniscus. Each sample container was preserved with hydrochloric acid, sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace which would allow volatilization to occur. The samples were promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a chain-of-custody record, to a California-certified laboratory.



SAMPLING LOG

Job Name:	Texaco Castro Valley	Date: 6/30/92
Job No.:	3-30091-32 Sampled by:	
Phase: .	Laboratory:	<u>kesna</u>
Wells Secure:	Yes ☐ No if no, then ∞mi	ment:
Drums at Site	: Full	_ Empty

Well No.	Depth to Water (ft)	Well Depth (ft)	Time (W°L)	Purge Volume (gai)	For Temp.	Cond. (umho/cm)	рН	Observations
		39,25	10120	10.4 21	69.4 68.6 67,8	2030 2010 1960	6,69 6,67 6,70	No odor Nosheeu Clear/eloudy
Mw-3	21.49	34,43		8,3 17 25 34	70.0 68.1 67.0	1940 1910 1960	6.68 6.73	No odor No Sheen cloudy
mw-4	3364	a42.10	10:30	12.8 26 39 52	69,7 69,2 68,7	1960	6.72 6.69 6.74	No odor Nosheen Clear/cloudy
Mw-5	22,54	41,55	००००	37	68,5 69,9 68,7	1870 1880 1790	6.69 6.71 6.73	No odor No Sheen silty/clear
MW-6	18.39	37.23	9;30	12.4 24 36 50	70.0	2410	6.65 6.70 667	clear

42501 Albrae Street Fremont, California 94538 (510) 440-3300

Sheet 1 of 2



SAMPLING LOG

Job Name:	Texaco Castro Valley	Date: 6-30-92
Job No.:	3-3009/-32 Sampled by: K	Sutherland
Phase: .	Laboratory:	esna
Wells Secure:	Yes No If no, then comment	:
Drums at Site	: Full	Empty

	Well No.	Depth to Water (ft)	Well Depth (ft)	Time (W*L)	Purge Volume (gal)	F° Temp. ₩0)	Cond. (umho/cm)	рН	Observations
2			37,22		11.1 22 33 44	67.3	202	6.81	No odor Wosheen Clear
5	Mmg	24.61	39,04	10:10	9,5 20 30 40	69.4 68.5 69. 8	2140 2180 2020	6.67 6.80	No odor NaSheen clear/cloudy
						v			

42501 Albrae Street Fremont, California 94538 (510) 440-3300

Sheet $\frac{\partial}{\partial x}$ of $\frac{\partial}{\partial x}$

APPENDIX B LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORD



ANALYSIS REPORT

Attention: Project:	RESN 42501 Frem AGS	Albrae St. ont, CA 945 19521-L, Pr	38 oject 3-30091- ey, Castro Val	Dat BTI TPI 32 TPI					
Detection I	_imit:	Benzene ppb 0.5	Toluene ppb 0.5	Ethyl- benzene ppb 0.5	Total Xylenes ppb 0.5	TPHg ppb 50	TPHd ppb 50		
SAMPLE Laboratory Id	entificati	on							
BB-1 W1207004		ND	ND	ND	ND	ND	NR		
MW-6 W1207005		ND	ND	ND	ND	ND	NR		
MW-7 W1207006		ND	ND	ND	ND	ND	NR		
MW-3 W1207007		ND	ND	ND	ND	ND	NR		
MW-5 W1207008		ND	ND	ND	ND	ND	NR		

ppb = parts per billion = μ g/L = micrograms per liter.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd-Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

July 16, 1992
Date Reported

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.



1020lab fem

ANALYSIS REPORT

Attention: Project:	RESI 42501 Frem AGS	l Albrae St. ont, CA 945 19521-L, Pro	38 oject 3-30091- ey, Castro Val	Dat BTI TPI -32 TPI	te Sampled: te Received: EX Analyzed: Hg Analyzed: Hd Analyzed: trix:	06-30-92 07-01-92 07-13-92 07-13-92 NR Water		
Detection I	Limit:	Benzene ppb 0.5	Toluene ppb 0.5	Ethyl- benzene <u>ppb</u> 0.5	Total Xylenes ppb 0.5	TPHg ppb 50	TPHd <u>ppb</u> 50	
SAMPLE Laboratory Id	lentificat	ion						
MW-8 W1207009		ND	ND	ND	ND	ND	NR	
MW-1 W1207010		1.3	ND	ND	ND	67	NR	
MW-4 W1207011		2.4	ND	3.3	ND	76	NR	

ANALYTICAL PROCEDURES

BTEX- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd-Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

July 16, 1992
Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1211)

ppb = parts per billion = μ g/L = micrograms per liter.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

Texaco Refining and Marketing Inc

108 Cutting Boulevard Richmond CA 94804

October 7, 1992

ENV - STUDIES, SURVEYS & REPORTS
Groundwater Monitoring Report
3940 Castro Valley Blvd., Castro Valley, CA

SSAL

Mr. Scott Seery Alameda County Health Care Services Agency Hazardous Materials Program 80 Swan Way, Room 200 Oakland, California 94612

Dear Mr. Seery:

Enclosed please find the Groundwater Monitoring Report for the second quarter dated September 24, 1992 for the former Texaco service station located at 3940 Castro Valley Blvd., Castro Valley, California.

Please call me at (510) 236-3611 if you have any questions.

Sincerely,

TEXACO ENVIRONMENTAL SERVICES

Karel Detterman

Project Coordinator

KLD:kdk

p:\kld\3940cv\3940cv.sep

Attachment

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

: GRT



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PROJECT NO. PROJECT NAME/SITE TEXALOR 3-30091-32 3940 castro Valley B SAMPLERS (SIGN) (PRINT) (PRINT) (PRINT) (DATE TIME					Coston Valle						ANALYSIS REQUESTED										Ny5252					
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