



Texaco Refining  
and Marketing Inc

108 Cutting Boulevard  
Richmond CA 94804

March 14, 1991

Mr. Scott O. Seery  
Alameda County Department of Environmental Health  
Hazardous Materials Division  
80 Swan Way, Room 200  
Oakland, CA 94612

RE: Revision of letter dated March 12, 1991 regarding the  
Former Texaco Service Station  
3940 Castro Valley Boulevard  
Castro Valley, California

Dear Mr. Seery:

This letter is a revision of my letter addressed to you dated March 12, 1991 and contains the same list of cc'd parties as shown in your letter addressed to Mr. Ron Zielinski of Texaco dated February 25, 1991.

Enclosed please find the Second and Third Quarterly Status Reports of 1990 for the former Texaco Station located at 3940 Castro Valley Boulevard, in Castro Valley, California. The reports were requested in your letter to Mr. R.R. Zielinski dated February 25, 1991. The Fourth Quarter Report is being finalized by Groundwater Technology, Inc. (GTI) and is due in our office by March 15, 1991. The Workplan for Additional Subsurface Investigation is being reviewed at this time and will be submitted to you on or by April 5, 1991.

If you have any questions, please feel free to contact Mr. Ron Zielinski (415) 236-1770.

Sincerely,

*Karel Detterman*  
Karel Detterman  
Environmental Geologist

pr: *GRJ*

cc: Mr. Rafat A. Shahid, Assistant Agency Director,  
Department of Environmental Health  
Mr. Edgar Howell, Chief, Hazardous Materials Division  
Mr. Gil Jensen, Alameda County District Attorney's Office  
Mr. Lester Feldman, RWQCB  
Mr. Howard Hatayama, DHS  
Mr. Bob Bohman, Castro Valley Fire Department  
Mr. James Chu, Alameda County Public Works Agency  
Mr. Dan Dineen, Lakeshore Financial  
Mr. Tim Watchers, GTI  
files

3940CV-3.11



Texaco Refining  
and Marketing Inc

108 Cutting Boulevard  
Richmond CA 94804

March 12, 1991

Mr. Scott O. Seery  
Alameda County Department of Environmental Health  
Hazardous Materials Division  
80 Swan Way, Room 200  
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RE: Former Texaco Service Station  
3940 Castro Valley Boulevard  
Castro Valley, California

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If you have any questions, please feel free to contact Mr. Ron Zielinski (415) 236-1770.

Sincerely,

*Karel Detterman*

Karel Detterman  
Environmental Geologist

Enclosures

pr: GRS

cc: Mr. Tom Callaghan  
Regional Water Quality Control Board

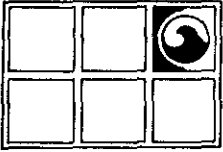
Mr. Dan Dineen  
Lake Shore Financial

3940CV-3.11

91 MAR 12 PM 4:46

**QUARTERLY STATUS REPORT  
FORMER TEXACO SERVICE STATION  
3940 CASTRO VALLEY BOULEVARD  
CASTRO VALLEY, CALIFORNIA  
OCTOBER 12, 1990**

**GROUNDWATER TECHNOLOGY, INC.  
CONCORD, CALIFORNIA**



**GROUNDWATER  
TECHNOLOGY, INC.**

4080-D Pike Lane, Concord, CA 94520

(415) 671-2387

**QUARTERLY STATUS REPORT  
FORMER TEXACO SERVICE STATION  
3940 CASTRO VALLEY BOULEVARD  
CASTRO VALLEY, CALIFORNIA  
OCTOBER 12, 1990**

**Prepared for:**

Mr. R. W. Conlon  
Texaco Environmental Services  
10 Universal City Plaza  
Universal City, CA 91608

Mr. R. R. Zielinski  
Texaco Refining and  
Marketing Inc.  
100 Cutting Blvd.  
Richmond, CA 94804

**Prepared by:**

GROUNDWATER TECHNOLOGY, INC.  
4080 Pike Lane, Suite D  
Concord, California 94520

*Tim Watchers*

Tim Watchers  
Project Geologist

*Peter A. Fuller*  
Peter A. Fuller  
Project Manager



*Allen B. Storm*  
Allen B. Storm  
Registered Geologist  
No. 4394

R4080H.TW

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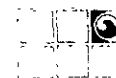
**QUARTERLY STATUS REPORT  
FORMER TEXACO SERVICE STATION  
3940 CASTRO VALLEY BOULEVARD  
CASTRO VALLEY, CALIFORNIA  
OCTOBER 12, 1990**

**INTRODUCTION**

This quarterly report presents the results of the groundwater monitoring and sampling events at the former Texaco Service Station located at 3940 Castro Valley Boulevard, Castro Valley, California. The report covers the period from May, through July, 1990.

**WORK PERFORMED**

There are four monitoring wells involved in the groundwater monitoring and sampling program for the above-mentioned site. During this reporting period, groundwater monitoring was performed two times (monitoring frequency was changed from quarterly to monthly beginning in June 1990) and groundwater sampling was performed once. The groundwater samples were analyzed for the presence of benzene, toluene, ethylbenzene, and xylenes (BTEX) and for total petroleum hydrocarbons (TPH)-as-gasoline concentrations. The results of the monitoring and groundwater sample analyses are discussed in the following sections.



## GROUNDWATER MONITORING

The four monitoring wells MW-1, MW-3, MW-4, and MW-5, were monitored for depth-to-water (DTW) and separate-phase hydrocarbons on June 11, and July 18, 1990. Groundwater monitoring was accomplished by using an electrical conductivity and optical probe to distinguish between groundwater and separate-phase hydrocarbons. The probe allows the DTW and depth-to-product (DTP) to be measured accurately to within 0.01 foot. A clean acrylic bailer was also used to inspect the water for odor, color, sheen, and turbidity. The groundwater monitoring was performed to determine the DTW, the thickness of separate-phase hydrocarbons, if any, the hydraulic gradient, and the local groundwater-flow direction. The July 18, 1990 monitoring data, along with the monitoring data collected since November 1987, are presented in Appendix A.

## GROUNDWATER SAMPLING

On June 11, 1990, prior to sampling, the four monitoring wells were purged of at least four well volumes of water, or until they bailed dry. The purged wells were then allowed to recover to at least 80 percent of the initial water levels before sampling with a U.S. Environmental Protection Agency (EPA)-approved Teflon<sup>R</sup> sampler. For quality control, a rinsate blank of the final rinse water from the cleaned sampler was also collected prior to taking each well sample. One trip blank, containing distilled water, accompanied the samples at all times. Groundwater samples were collected, placed into pre-acidified 40-milliliter glass vials, and sealed with Teflon<sup>R</sup> septum caps in such a way that no air was trapped inside. Each vial was immediately labeled and placed on ice in an insulated cooler for



delivery to a State of California-certified laboratory in Concord, California. A Chain-of-Custody Manifest was prepared and accompanied the samples at all times. The samples were analyzed for the presence of benzene, toluene, ethylbenzene, and xylenes (BTEX) and for total petroleum hydrocarbons (TPH)-as-gasoline using EPA Methods 5030, 8020, and modified 8015. One randomly chosen rinsate blank (MW3-B) was also analyzed using these EPA Methods. Because the sample from monitoring well MW-3 was broken in the lab, well MW-3 was purged and resampled on June 22, 1990 using the same procedures. Copies of the laboratory reports and the Chain-of-Custody Manifests are included in Appendix B.

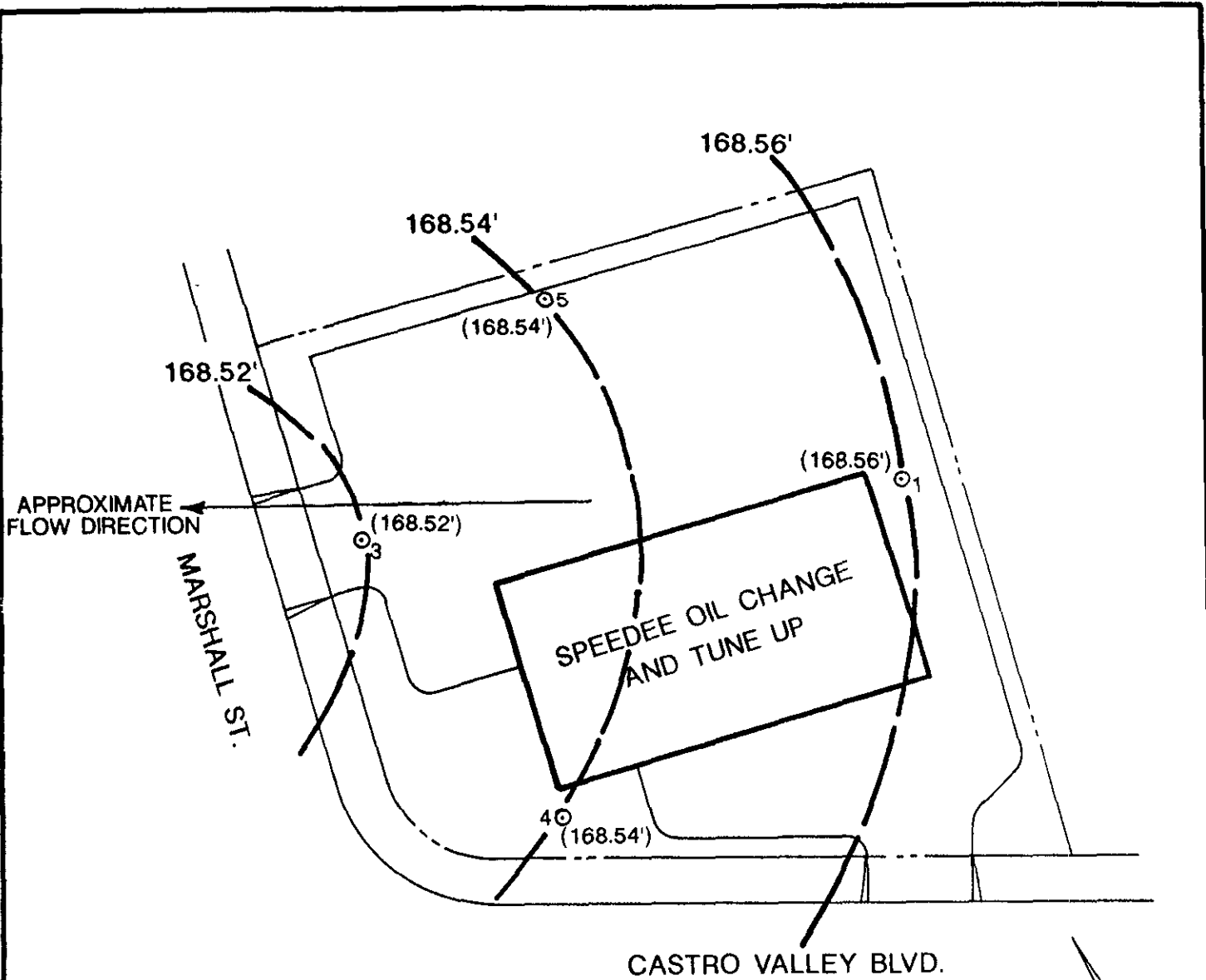
## RESULTS

### MONITORING

The July 18, 1990, monitoring data indicated groundwater levels of 21.96- to 23.90-feet below grade. These measurements indicate an average decrease of 0.26 foot when compared with the April 12, 1990, measurements. No separate-phase hydrocarbons or sheen were observed in the monitoring wells during the monitoring events of this reporting period.

The Potentiometric Surface Map (Figure 1) was prepared using the monitoring data from July 18, 1990. The interpreted groundwater-flow direction, as determined from the monitoring data, is towards the west with a gradient of approximately 0.0004 ft/ft. The groundwater-flow direction is consistent with previous potentiometric surface maps.





LEGEND

- ⊙ MONITORING WELL
- ( ) GROUNDWATER ELEVATION

FIGURE 1  
 POTENTIOMETRIC SURFACE MAP  
 (7/18/90)



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 & MARKETING INC.  
 CASTRO VALLEY, CALIFORNIA



GROUNDWATER  
 TECHNOLOGY, INC.

## **SAMPLING**

A summary of the results of analyses for dissolved TPH-as-gasoline and total BTEX constituents for the samples collected in June 1990 is presented in Table 1. Analyses results showed that the samples from monitoring wells MW-3 and MW-5 were below the Method Detection Limits (MDL) of 1 ppb of TPH-as-gasoline and the individual detection limits for each constituent of BTEX. The water sample from monitoring well MW-1 contained 190 ppb of TPH-as-gasoline. The water sample from monitoring well MW-4 contained 110 ppb of TPH-as-gasoline. A TPH-as-gasoline concentration distribution map was prepared from the June 11, 1990, sampling event and is presented as Figure 2. Benzene concentrations were found in the water samples from monitoring wells MW-1 and MW-4 with concentrations of 14 ppb and 18 ppb, respectively. Benzene concentrations are depicted on Figure 3.

One randomly chosen rinsate blank (MW-3B) was analyzed for BTEX and TPH-as-gasoline. This sample was collected from the cleaned surface sampler prior to sampling well MW-3 on June 11, 1990. The analytical results showed that the rinsate blank contained no TPH-as-gasoline or BTEX at MDL.

Table 2 compares the concentrations of the TPH-as-gasoline reported from the laboratory analyses of the samples from June 1990 with the analytical results of the earlier sampling events.

TABLE 1  
DISSOLVED GASOLINE  
HYDROCARBON CONCENTRATIONS  
in parts per billion

JUNE 11, 1990

CONSTITUENTS	MW-1	MW-3*	MW-4	MW-5
Benzene	14	<MDL	18	<MDL
Toluene	1	<MDL	<MDL	<MDL
Ethylbenzene	1	<MDL	<MDL	<MDL
Xylenes	2	<MDL	0.7	<MDL
Total BTEX	18	<MDL	18.7	<MDL
TPH-as-gasoline	190	<MDL	110	<MDL

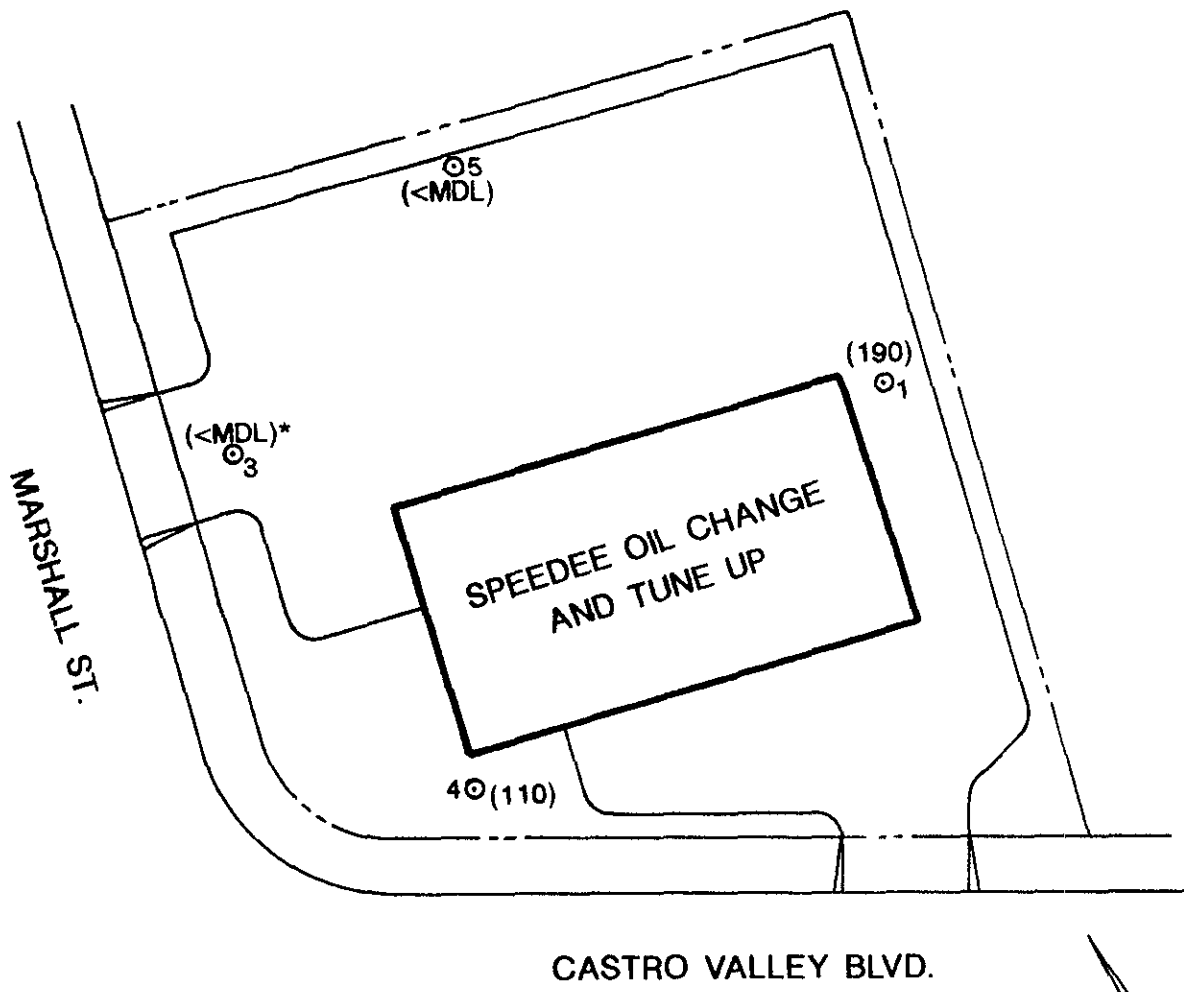
MW = Monitoring Well

TPH = Total Petroleum Hydrocarbons

MDL = Method Detection Limits

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

\* = Well MW-3 was resampled on 06/22/90. Original sample was broken in the laboratory.



**LEGEND**  
 ⊙ MONITORING WELL  
 ( ) TPH CONCENTRATION (ppb)  
 MDL METHOD DETECTION LIMIT  
 \* SAMPLED 6/22/90

**FIGURE 2**  
**DISSOLVED TOTAL PETROLEUM HYDROCARBON**  
**(TPH)-as-GASOLINE CONCENTRATIONS**  
**(6/11/90)**

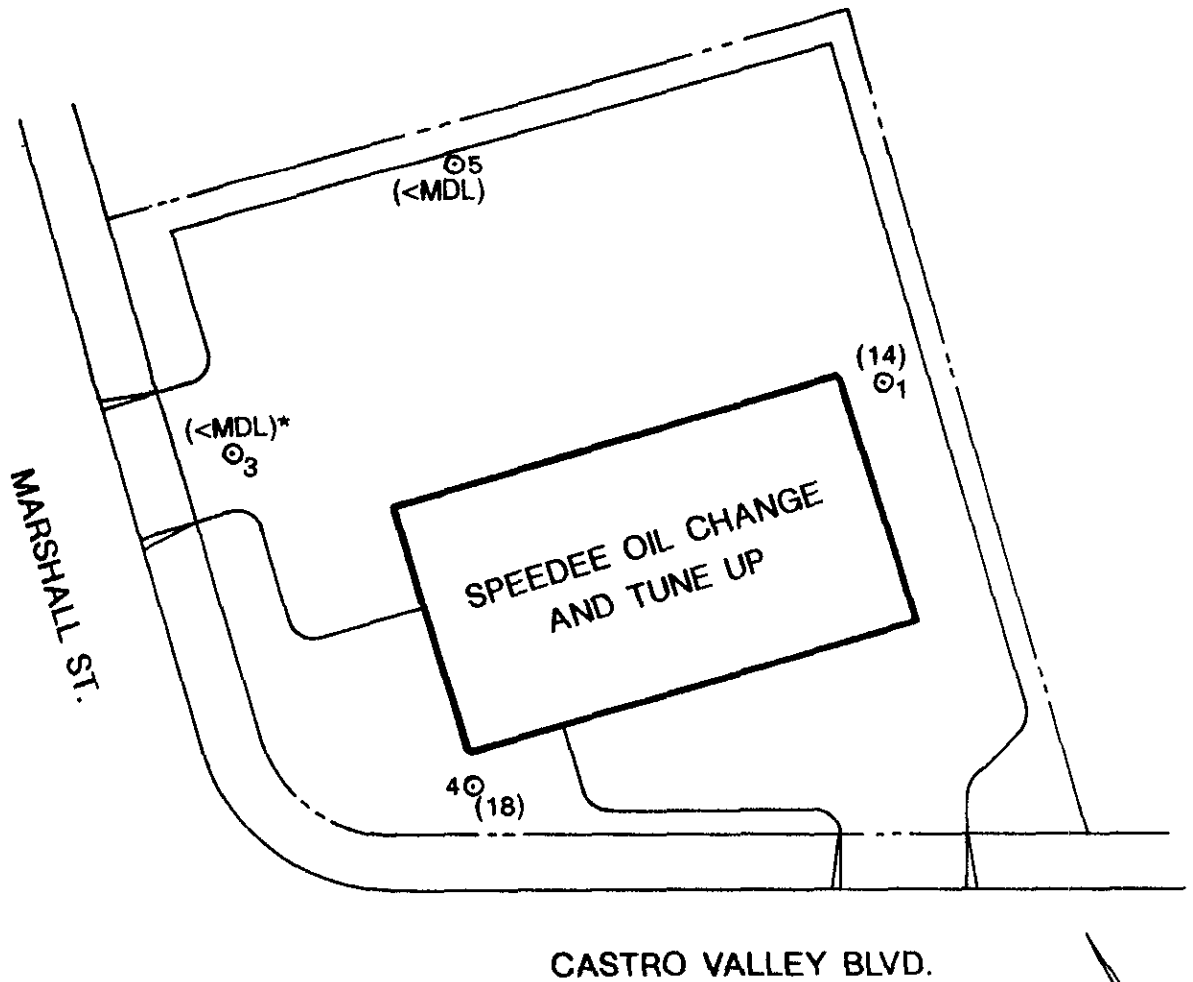


TEXACO REFINING  
 & MARKETING INC.  
 CASTRO VALLEY, CALIFORNIA

ML 7/90



**GROUNDWATER**  
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- LEGEND
- ⊙ MONITORING WELL
  - ( ) BENZENE CONCENTRATION (ppb)
  - MDL METHOD DETECTION LIMIT
  - \* SAMPLED 6/22/90

FIGURE 3  
DISSOLVED BENZENE CONCENTRATIONS  
(6/11/90)



**TABLE 2**  
**HISTORICAL REVIEW OF DISSOLVED**  
**GASOLINE HYDROCARBON CONCENTRATIONS**  
**in parts per billion**

DECEMBER 1987 - JUNE 1990

DATE		MW-1	MW-2	MW-3	MW-4	MW-5	TX
12/30/87	BTEX TPH-AS- GASOLINE	220 2,100	389 2,400	<0.5 <1			DRY
06/07/88	BTEX TPH-AS- GASOLINE	54 290	266 1,200	<PQL <PQL			DRY
12/13/88	BTEX TPH-AS- GASOLINE	30 370	893 4,000	<PQL <PQL			DRY
08/29/89	BTEX TPH-AS- GASOLINE	6 160	ABANDONED	<PQL <PQL			ABANDONED
02/27/90	BTEX TPH-AS- GASOLINE	<PQL <PQL		<PQL <PQL	*	*	
04/12/90	BTEX TPH-AS- GASOLINE	NS		NS	229 1,500	<MDL <MDL	
06/11/90	BTEX TPH-AS- GASOLINE	18 190		<MDL <MDL	19 110	<MDL <MDL	

MW = Monitoring Well  
 <PQL = Less than Practical Quantitation Levels per EPA Federal Register, November 13, 1985, Page 46906.  
 BTEX = Benzene, Toluene, Ethylbenzene, Xylenes  
 TPH = Total Petroleum Hydrocarbons  
 <MDL = Less than Method Detection Limits  
 TX = Monitoring Well  
 NS = Not Sampled  
 \* = Installed on 04/03/90

### SUMMARY

Between April 12 and July 18, 1990, groundwater levels decreased an average of 0.26 foot in monitoring wells MW-1, MW-3, MW-4 and MW-5. A Potentiometric Surface Map constructed from the July 18, 1990 monitoring data indicates an approximate groundwater-flow direction to the west with a hydraulic gradient of approximately 0.0004 ft/ft. The laboratory analyses of groundwater samples collected on June 11, 1990 reported monitoring wells MW-1 and MW-4 contained 190 ppb and 110 ppb of TPH-as-gasoline, respectively. Sampling analyses results reported benzene concentrations for samples from these wells at 14 ppb and 18 ppb, respectively. Analytical results for the samples from monitoring wells MW-1 and MW-3 were below the Method Detection Limit for TPH-as-gasoline as well as for all BTEX constituents.

**APPENDIX A**  
**GROUNDWATER MONITORING DATA**



**GROUNDWATER MONITORING DATA**  
**NOVEMBER 1987 - JULY 1990**

WELL ELEV.	TX	MW-1 192.46	MW-2	MW-3 190.48	MW-4 191.63	MW-5 191.55
11/19/87 DTW	20.90	NM	NM	NM		
	-					
12/30/87 DTW	NM	21.92	22.30	22.60		
	-	170.54	-	167.88		
06/07/88 DTW	21.51	23.35	23.83	20.90		
	-	169.11	-	169.58		
12/13/88 DTW	NM	23.17	23.69	20.92		
	-	169.29	-	169.56		
08/29/89 DTW	ABANDONED	23.70	ABANDONED	21.48		
		168.76		169.00		
02/27/90 DTW		23.25		21.58	*	*
		169.21		168.90		
04/12/90 DTW		23.65		21.70	22.84	22.74
		168.81		168.78	168.79	168.81
06/11/90 DTW		23.74		21.79	21.82	22.83
		168.72		168.69	169.81	168.72
07/18/90 DTW		23.90		21.96	23.09	23.01
		168.56		168.52	168.54	168.54

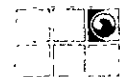
Surveyed to Alameda County datum on April 23, 1990

DTW = Depth to water (ft.)

NM = Not measured

\* = Installed on 04/03/90.

**APPENDIX B**  
**GROUNDWATER ANALYTICAL RESULTS**



**GROUNDWATER  
TECHNOLOGY, INC.**



# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

**Northwest Region**

4080 Pike Lane  
Concord, CA 94520  
(415) 685-7852  
(800) 544-3422 from inside California  
(800) 423-7143 from outside California

Client Number: 203-199-4080.  
Project ID: 3940 Castro Valley Blvd.  
Castro Valley, CA  
Work Order Number: D0-06-264

June 22, 1990

Tim Watchers  
Groundwater Technology, Inc.  
4080-D Pike Lane  
Concord, CA 94520

Enclosed please find the analytical results report prepared by GTEL for samples received on 06/13/90, under chain of custody number 72-4069.

GTEL is certified by the California State Department of Health Services to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

A formal quality control/quality assurance program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project was performed in strict adherence to our QA/QC program to ensure sample integrity and to meet quality control criteria.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,  
GTEL Environmental Laboratories, Inc.

Emma P. Popek  
Laboratory Director

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>

GTEL Sample Number		01	02	03	04
Client Identification		MW5	MW1	MW3B	MW3*
Date Sampled		06/11/90	06/11/90	06/11/90	06/11/90
Date Analyzed		06/16/90	06/16/90	06/20/90	06/20/90
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.3	< 0.3	14	< 0.3	N/A
Toluene	0.3	< 0.3	1	< 0.3	N/A
Ethylbenzene	0.3	< 0.3	1	< 0.3	N/A
Xylene, total	0.6	< 0.6	2	< 0.6	N/A
TPH as Gasoline	1	< 1	190	< 1	N/A
Detection Limit Multiplier		1	1	1	1

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. <PQL = less than practical quantitation levels, per EPA Federal Register, November 13, 1985, p. 46906.  
 \* Sample lost due to instrument failure. No backup available for analysis.  
 NA = Not Applicable

Client Number: 203-199-4080.  
 Project ID: 3940 Castro Valley Blvd.  
 Castro Valley, CA  
 Work Order Number: D0-06-264

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>

GTEL Sample Number		05			
Client Identification		MW4			
Date Sampled		06/11/90			
Date Analyzed		06/16/90			
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.3	18			
Toluene	0.3	<0.3			
Ethylbenzene	0.3	<0.3			
Xylene, total	0.6	0.7			
TPH as Gasoline	1	110			
Detection Limit Multiplier		1			

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. <PQL = less than practical quantitation levels, per EPA Federal Register, November 13, 1985, p. 46906.

**Table 1**

**ANALYTICAL RESULTS**

**Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water**

**EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>**

GTEL Sample Number		01			
Client Identification		MW3			
Date Sampled		06/22/90			
Date Analyzed		06/28/90			
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.3	< 0.3			
Toluene	0.3	< 0.3			
Ethylbenzene	0.3	< 0.3			
Xylene, total	0.6	< 0.6			
TPH as Gasoline	1	< 1			
Detection Limit Multiplier		1			

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. <PQL = less than practical quantitation levels, per EPA Federal Register, November 13, 1985, p. 46906.





4080- Pike Lane  
Concord, CA 94520  
415-685-7852

800-544-3422 (In CA)  
800-423-7143 (Outside CA)

**CHAIN-OF-CUSTODY RECORD  
AND ANALYSIS REQUEST**

72-4494

**CUSTODY RECORD**

**ANALYSIS REQUEST**

**I-BOX**

Project Manager:

Tim Watchers

Phone #: 685-9250

FAX #:

Address:

GTEL Concord

Site location:

39415 Castro Valley Blvd. CA

Project Number:

Project Name:

203 499-150 4080

Travis Castro Valley

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print):

Brennan Fleener

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix					Method Preserved					Sampling	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	ICE	NONE	OTHER	DATE
TB			1	✓									6/22	9:30	
RBW3			1	✓									6/22	13:22	
MW3		01	2	✓									6/22	13:15	

BTEX 602 <input type="checkbox"/> 8020 <input type="checkbox"/> with MTBE <input type="checkbox"/>	BTEX/TPH Gas 602/8015 <input type="checkbox"/> 8020/8015 <input type="checkbox"/> MTBE <input type="checkbox"/>	TPH as <input type="checkbox"/> Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Jet Fuel <input type="checkbox"/>	Product I.D. by GC (SIMDIS) <input type="checkbox"/>	Total Oil & Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> 503A <input type="checkbox"/>	Total Petroleum Hydrocarbons: 418.1 <input type="checkbox"/> 503E <input type="checkbox"/>	EPA 601 <input type="checkbox"/> 6010 <input type="checkbox"/> DCA only <input type="checkbox"/>	EPA 602 <input type="checkbox"/> 6020 <input type="checkbox"/>	EPA 608 <input type="checkbox"/> 6080 <input type="checkbox"/> PCBs only <input type="checkbox"/>	EPA 610 <input type="checkbox"/> 6310 <input type="checkbox"/>	EPA 624 <input type="checkbox"/> 8240 <input type="checkbox"/> NBS +15 <input type="checkbox"/>	EPA 625 <input type="checkbox"/> 8270 <input type="checkbox"/> NBS +25 <input type="checkbox"/>	EPTOX: Metals <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/>	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi VOA <input type="checkbox"/>	EPA Priority Pollutant Metals <input type="checkbox"/> HSL <input type="checkbox"/>	LEAD 7420 <input type="checkbox"/> 7421 <input type="checkbox"/> 239.2 <input type="checkbox"/> 6010 <input type="checkbox"/> Org. Lead <input type="checkbox"/>	CAM Metals <input type="checkbox"/> STLC <input type="checkbox"/> TTL <input type="checkbox"/>	Corrosivity <input type="checkbox"/> Flashpoint <input type="checkbox"/> Reactivity <input type="checkbox"/>
--	---	--	--	--	--	--	--	---	--	---	---	--	---	---	--	--	--

Received by:

Date: 6/22/90 4:46

Received by:

Date:

Received by Laboratory:

Date:

Way bill #

SHIRLEY J. SOWAL

**SPECIAL HANDLING**

- 24 HOURS
- EXPEDITED 48 Hours
- SEVEN DAY
- OTHER \_\_\_\_\_ (#) BUSINESS DAYS
- QA/QC CLP Level  Blue Level
- FAX

**SPECIAL DETECTION LIMITS (Specify)**

Report detection levels  
not < PQL

**SPECIAL REPORTING REQUIREMENTS (Specify)**

Yes

**REMARKS:**

Acidified  
normal turnaround

**Lab Use Only**

Lot #:

**Storage Location**

Work Order #:

Relinquished by Sampler:

Relinquished by:

Relinquished by: