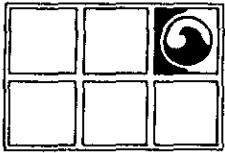


**ENVIRONMENTAL ASSESSMENT REPORT
FORMER TEXACO SERVICE STATION
3940 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA
JUNE 8, 1990**

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



GROUNDWATER TECHNOLOGY, INC.

4080-D Pike Lane, Concord, CA 94520

(415) 671-2387

**ENVIRONMENTAL ASSESSMENT REPORT
FORMER TEXACO SERVICE STATION
3940 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA
JUNE 8, 1990**

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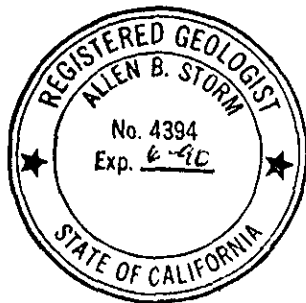
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R4080G.TW

TABLE OF CONTENTS

	PAGE
INTRODUCTION	1
BACKGROUND	1
WORK PERFORMED	3
SOIL BORINGS AND SOIL SAMPLING	3
MONITORING WELL INSTALLATION	5
GROUNDWATER MONITORING	6
GROUNDWATER SAMPLING	6
SUBSURFACE CONDITIONS	7
GEOLOGY	7
HYDROGEOLOGY	8
ANALYTICAL RESULTS	8
Soil	8
Groundwater	9
SUMMARY	12

LIST OF APPENDICES

APPENDIX

- A - DRILL LOGS
- B - ANALYTICAL RESULTS - SOIL
- C - GROUNDWATER MONITORING DATA
- D - ANALYTICAL RESULTS - GROUNDWATER

LIST OF FIGURES

FIGURE

1 - OLD SITE PLAN	2
2 - SITE PLAN (new construction)	4
3 - POTENTIOMETRIC SURFACE MAP	10
4 - DISSOLVED TOTAL PETROLEUM HYDROCARBON CONCENTRATIONS .	13
5 - DISSOLVED BENZENE CONCENTRATIONS	14

**TABLE OF CONTENTS
(Continued)**

LIST OF TABLES

TABLE		PAGE
1 -	GASOLINE HYDROCARBON CONCENTRATIONS IN SOIL (4/3/90)	8
2 -	HISTORICAL DISSOLVED GASOLINE HYDROCARBON CONCENTRATIONS (December 1987 - April 1990).....	11

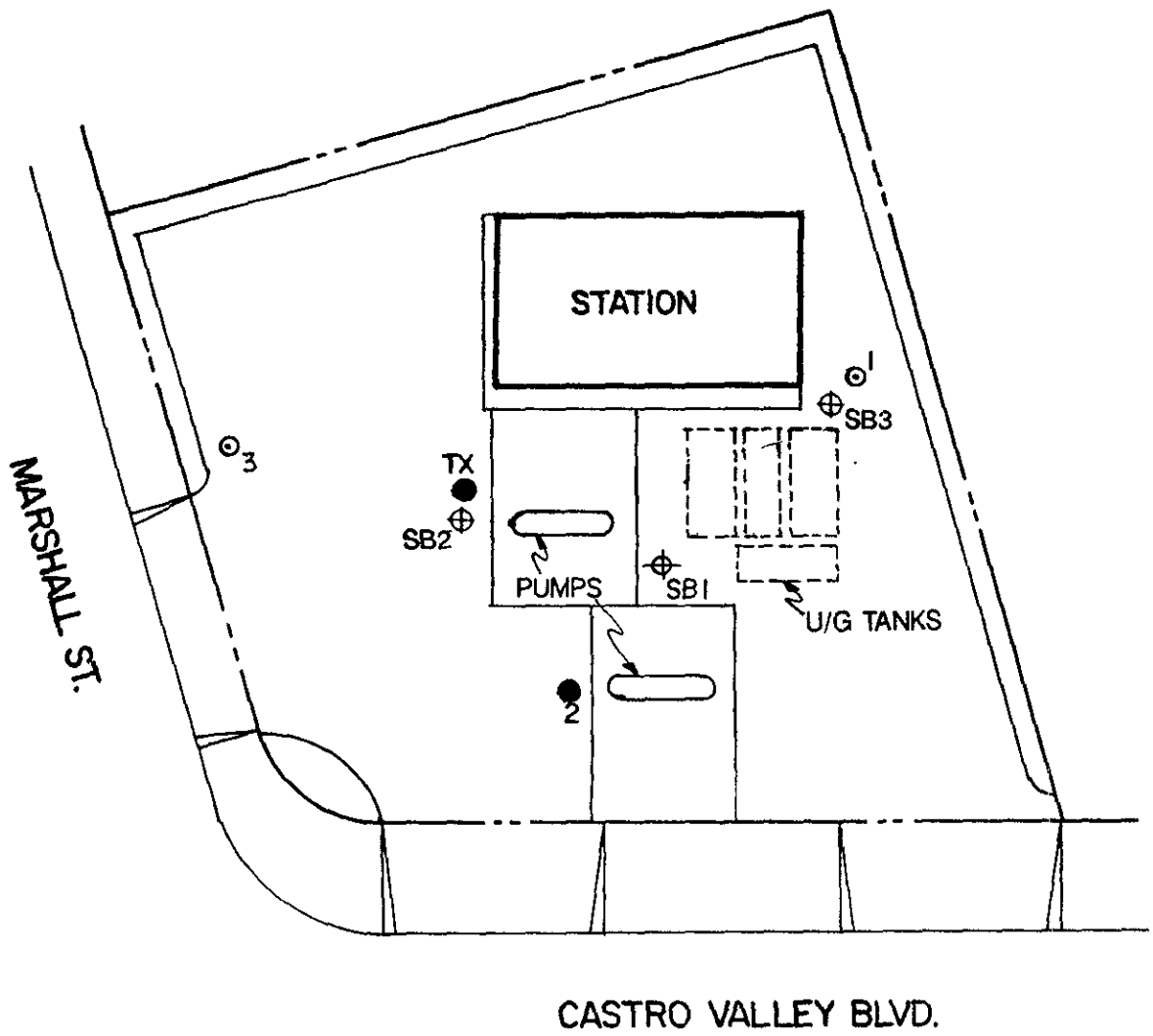
**ENVIRONMENTAL ASSESSMENT REPORT
FORMER TEXACO SERVICE STATION
3940 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA
JUNE 8, 1990**

INTRODUCTION

This environmental assessment report presents the findings and the results of the work performed at the former Texaco Service Station located at 3940 Castro Valley Boulevard, Castro Valley, California. The report covers the period from August 29, 1989, through April 1990. Included in this report are the results of the groundwater-monitoring and groundwater-sampling events that occurred on February 27, 1990, and April 12, 1990.

BACKGROUND

The property on which the former Texaco Service Station was located has been cleared of all buildings, concrete pump islands, and associated debris by the present owner (Figure 1). During the construction phase, two groundwater-monitoring wells were destroyed, in accordance with regional guidelines, because these two groundwater-monitoring wells were located in the area of the new construction. The Alameda County Health Care Services Agency, directed by the Regional Water Quality Control Board, requested that an additional assessment be performed to fully evaluate the subsurface conditions of the property. The Alameda County Health Care Services (ACHCS), the lead agency, received a work plan on December 4, 1989. The work plan was approved on January 5, 1990.



LEGEND

- ⊙ MONITORING WELL
- ⊕ SOIL BORING
- ABANDONED MONITORING WELL

FIGURE 1
OLD SITE PLAN

TEXACO REFINING
& MARKETING INC.
CASTRO VALLEY, CALIFORNIA

0 FEET 30

GROUNDWATER
TECHNOLOGY, INC.

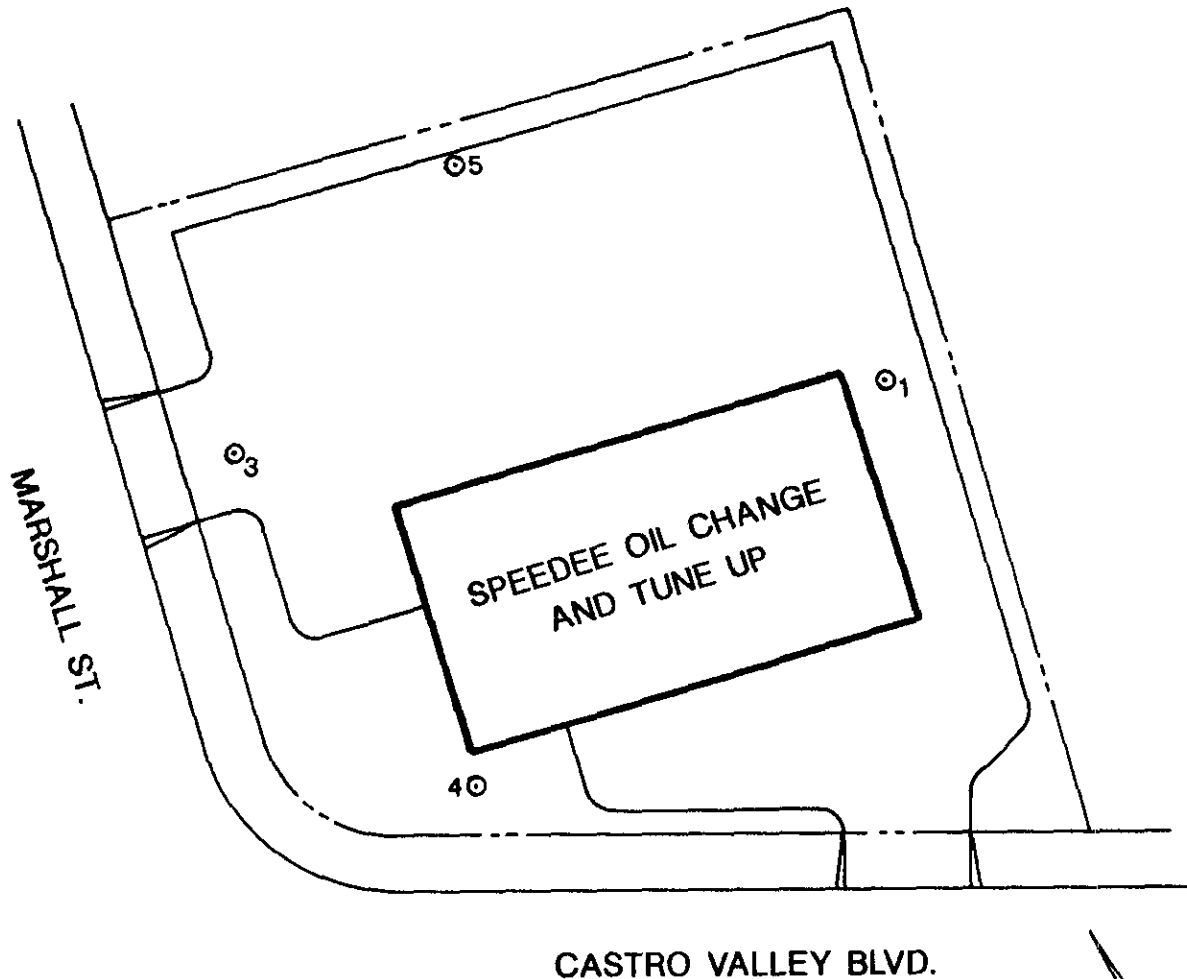
WORK PERFORMED

During this reporting period, four groundwater monitoring wells were monitored for depth-to-water (DTW) and groundwater samples were collected for laboratory analyses. Two additional groundwater-monitoring wells were installed at the site. During drilling, soil samples were collected. The new groundwater-monitoring wells were developed and purged of water for groundwater sample collection. A new site plan was constructed and all of the locations of the groundwater-monitoring wells were surveyed for elevation and location to an Alameda County benchmark.

SOIL BORINGS AND SOIL SAMPLING

Zone 7 of the Alameda County Flood Control and Water Conservation District issued a permit on February 6, 1990, for the construction of two groundwater-monitoring wells.

On April 3, 1990, two 4-inch groundwater-monitoring wells, MW-4 and MW-5, were installed on the site (Figure 2). A mobile truck-mounted drill rig with 10.5-inch, outside-diameter, hollow-stem augers system was used for the construction of the boreholes. Five-foot core barrels were used to continuously record the classification of the soil types encountered during the drilling for the construction of [REDACTED]. Monitoring well [REDACTED] was sampled with a split-spoon sampler because the type of soil encountered would not allow the use of the continuous core sampler. Soil removed from the boreholes was placed into 55-gallon steel drums for later removal and disposal. Soil samples were collected at approximate intervals of every 5-feet. Soil samples were collected by driving a clean 2-inch by 6-inch-long brass tube into



LEGEND
 ○ MONITORING WELL

FIGURE 2
 SITE PLAN

0 FEET 30

TEXACO REFINING
 & MARKETING INC.
 CASTRO VALLEY, CALIFORNIA



GROUNDWATER
 TECHNOLOGY, INC.

the soil core after removal of the core barrel. The brass tube ends were then covered with aluminum foil, fitted with plastic caps and sealed with tape. A cloth label bearing the sample number, time, date, preparer's initials, and the type of analysis requested was placed on the soil sample. The soil sample was sealed inside a plastic bag and placed on ice in an insulated cooler for transportation to a State of California-certified laboratory. Soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and for total petroleum hydrocarbon (TPH)-as-gasoline. A Chain-of-Custody Manifest accompanied the samples at all times.

MONITORING WELL INSTALLATION

The boring for monitoring well MW-5 was drilled to a depth of 45 feet. During the drilling of the borehole, groundwater was encountered at a depth of approximately 33 feet. The construction materials for the monitoring well consisted of 4-inch Schedule 40 polyvinyl chloride (PVC) well screen and casing.

Twenty feet of 2.020-inch machine-slotted PVC well screen fitted with an end cap was attached to 28 feet of 4-inch blank PVC casing to bring the monitoring well to grade. Number 2 sand was placed into the annular space of the borehole to a depth of 26-feet below grade. A 2-foot seal of hydrated bentonite pellets was placed on top of the sand and a sanitary seal of 11-sack sand slurry cement was poured to ground surface for well completion.

The boring for monitoring well MW-4 was also drilled to a depth of 45 feet. Groundwater was encountered at approximately 30-feet.

Twenty feet of 4-inch diameter, 2.020-inch, machined-slotted, PVC well screen and 25 feet of blank Schedule 40 PVC casing were used to construct the well. Number 2 sand was

placed into the annular space of the borehole to a depth of 23-feet below grade. A 2-foot seal of hydrated bentonite pellets was placed on top of the sand pack. An eleven sack sand slurry cement with a 3-1/2-inch slump was used for a sanitary seal. Both groundwater-monitoring wells were fitted with expansion-type 4-inch lockable compression plugs and were completed with traffic-rated street boxes. Drill logs of the completed groundwater-monitoring wells are presented in Appendix A.

GROUNDWATER MONITORING

Groundwater monitoring was performed in groundwater-monitoring wells MW-1 and MW-3 on February 27, 1990. Groundwater monitoring was performed on MW-1, MW-4 and MW-5 on April 10, 1990.

Groundwater monitoring was performed on MW-1, and MW-3 through MW-5 on April 12, 1990. The depth-to-water (DTW) in each well was measured from the top of the well casing using a water-level indicator graduated to 1/100 of a 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.

GROUNDWATER SAMPLING

Prior to sampling, the 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 their initial water levels before sampling with a U.S. Environmental Protection Agency (EPA)-approved Teflon^R 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 in acidified 40-milliliter glass vials, and sealed with Teflon^R septum caps so 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 for 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 modified EPA Methods 5030/8020/8015. Randomly chosen rinsate blanks were also analyzed using these EPA Methods.

The two existing groundwater-monitoring wells were purged of water and sampled on February 27, 1990. The two newly installed groundwater monitoring wells were purged of water and sampled on April 12, 1990.

SUBSURFACE CONDITIONS

GEOLOGY

Castro Valley is situated in an intermountain valley of the Diablo Range. The sediments encountered during drilling are late Quaternary Period alluvium which has a maximum thickness of 1,100 feet. The materials encountered during the construction of the monitoring wells were silty clays, silty sands, fine sands, and minor inclusions of gravels. These sediments are characteristic of older alluvium of the Pleistocene Epoch of the Quaternary Period.

HYDROGEOLOGY

The Castro Valley Groundwater Basin encompasses an area of approximately three and one-half square miles and is of minor importance as a source of groundwater. The Castro Valley water supply is primarily imported, although an emergency plan utilizing groundwater is under consideration. Depth to water in the on-site groundwater monitoring wells is approximately 20 feet. The depth to water encountered during drilling was approximately 30 to 33 feet below grade. Based on surface topography, the water beneath the site would be expected to flow towards the south.

ANALYTICAL RESULTS

Soil. The laboratory analytical results for the soil samples collected on April 3, 1990, and analyzed for the presence of BTEX and TPH are summarized in Table 1.

TABLE 1
SOIL SAMPLE ANALYSIS SUMMARY
4/3/90

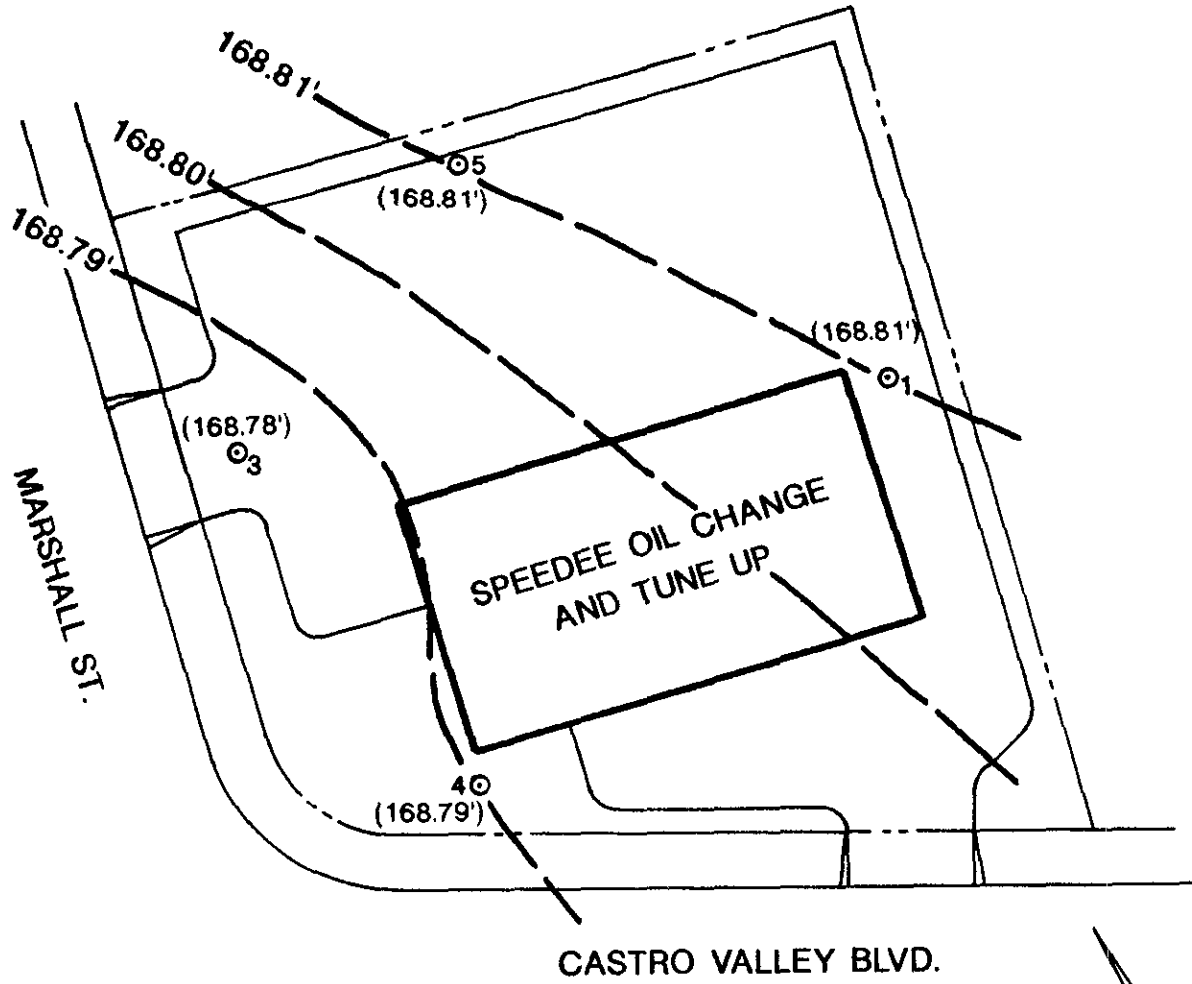
SAMPLE I.D.	DEPTH (ft.)	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	TPH-AS-GASOLINE
MW-4B	10	<PQL	<PQL	<PQL	<PQL	<PQL
MW-4C	15	<PQL	<PQL	<PQL	<PQL	<PQL
MW-4D	20	<PQL	<PQL	<PQL	<PQL	<PQL
MW-4E	25	<PQL	<PQL	<PQL	<PQL	40
MW-5B	10	<PQL	<PQL	<PQL	<PQL	<PQL
MW-5D	20	<PQL	<PQL	<PQL	<PQL	<PQL
MW-5F	30	<PQL	<PQL	<PQL	<PQL	<PQL

TPH = Total Petroleum Hydrocarbons-as-gasoline
<PQL = Below Practical Quantitation Levels Concentrations in parts per million (ppm)

Analytical results for soil samples from the boring for monitoring well MW-5 were below detection limits for BTEX and TPH-as-gasoline in all of the soil samples analyzed. Results for the samples from the boring for monitoring well MW-4 were below detection limits for BTEX in all of the soil samples analyzed; however, 40 parts per million (ppm) of TPH-as-gasoline were reported for soil sample MW-4E recovered at a depth of 25 feet. Additional soil tests for the presence of lead at 25 feet in MW-4 indicated concentrations below the detection method limits of 0.25 ppm. The laboratory analytical reports for the soil samples and the Chain-of-Custody Manifest are presented in Appendix B.

Groundwater. The two new groundwater-monitoring wells were monitored for depth to water prior to well development on April 10, 1990. The DTW was 22.59 feet and 22.79 feet in groundwater-monitoring wells MW-4 and MW-5, respectively. All groundwater-monitoring wells were monitored for depth to water on April 12, 1990, for the construction of a potentiometric surface map. The potentiometric surface map depicts the approximate interpreted hydraulic gradient and flow direction of the subsurface water. The gradient is extremely flat with an apparent flow direction toward the southwest (Figure 3). Appendix C presents historical groundwater-monitoring data from November 1987 through April 1990.

Table 2 presents the historical results of groundwater sample analyses from December 1987 through April 1990, including the groundwater sampling events of February 27 and April 12, 1990. The analytical results of samples from groundwater-monitoring wells MW-1, and MW-3 reported no detectable hydrocarbons



- LEGEND
- ⊙ MONITORING WELL
 - () GROUNDWATER ELEVATION
 - - - GROUNDWATER CONTOUR

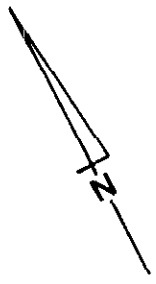
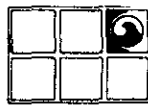


FIGURE 3
 POTENTIOMETRIC SURFACE MAP
 (4/12/90)



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 CASTRO VALLEY, CALIFORNIA

ML 6/90



GROUNDWATER
 TECHNOLOGY, INC.

TABLE 2
HISTORICAL DISSOLVED
GASOLINE HYDROCARBON CONCENTRATIONS
(ppb)
DECEMBER 1987 - APRIL 1990

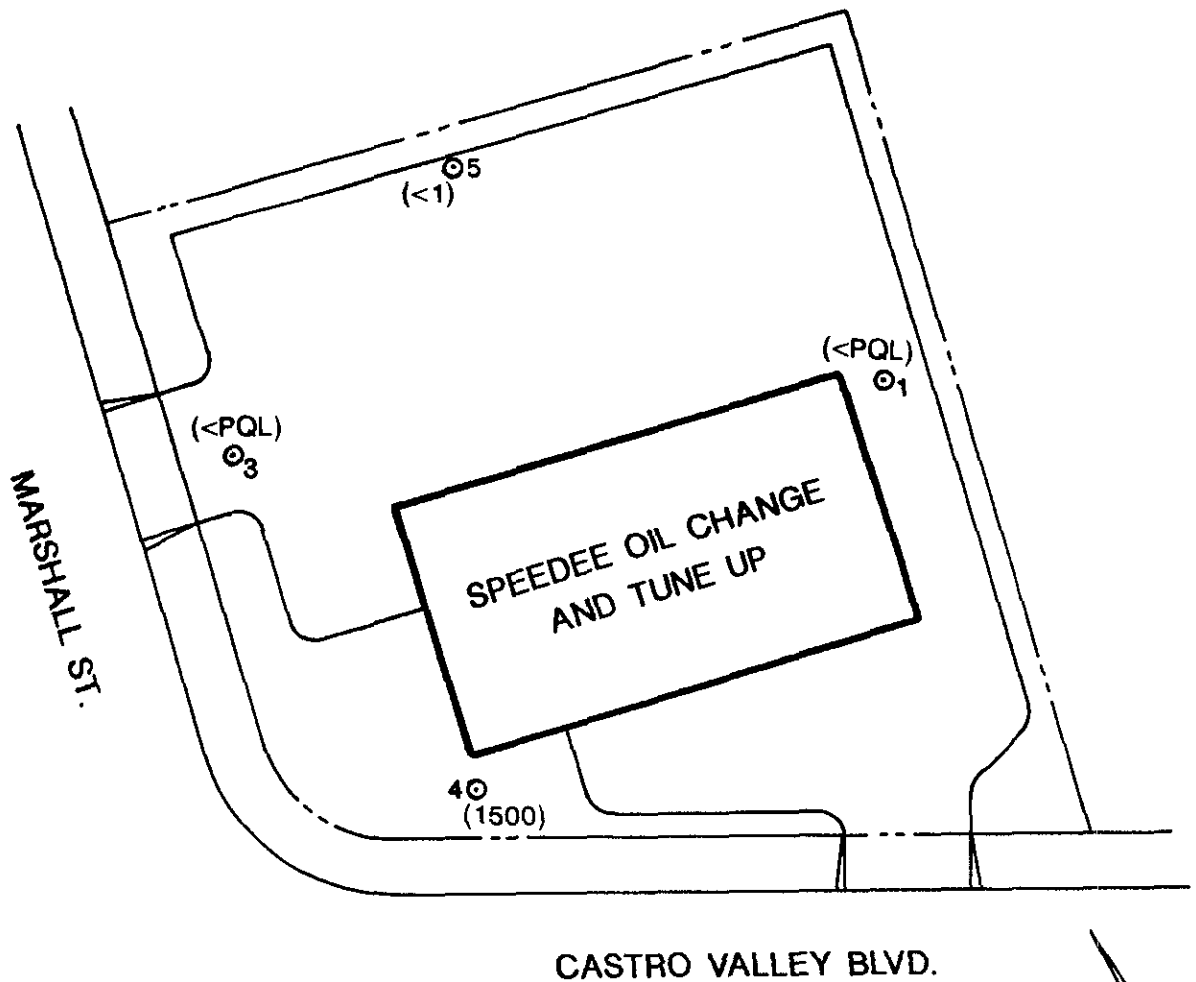
DATE		MW-1	MW-2	MW-3	MW-4	MW-5	TX
12/30/87	BTEX	220	389	<0.5			DRY
	TPH	2,100	2,400	<1			
06/07/88	BTEX	54	266	<PQL			DRY
	TPH	290	1,200	<PQL			
12/13/88	BTEX	30	893	<PQL			DRY
	TPH	370	4,000	<PQL			
08/29/89	BTEX	6	ABANDONED	<PQL			ABANDONED
	TPH	160		<PQL			
08/29/89	BTEX	<PQL		<PQL			
	TPH	<PQL		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

ppb = parts per billion
PQL = Practical Quantitation Levels
- = Not Sampled

at Practical Quantitation Levels on February 27, 1990. The analysis of the sample from MW-5 similarly reported no detectable hydrocarbons at detection limits of 1 ppb and 0.5 ppb for TPH-as-gasoline and BTEX constituents, respectively, on April 12, 1990. The April, 1990 results for groundwater-monitoring well MW-4 reported concentrations of 97 ppb benzene, 1 ppb toluene, 11 ppb ethylbenzene and 120 ppb xylenes for a total of 229 ppb BTEX. TPH-as-gasoline concentrations of 1,500 ppb were detected in the sample from groundwater-monitoring well MW-4. The laboratory analytical reports and the Chain-of-Custody Manifest reports are presented in Appendix D. Figures 4 and 5 illustrate that the April, 1990 dissolved total-petroleum-hydrocarbon and benzene concentrations were localized around groundwater-monitoring well MW-4.

SUMMARY

The former Texaco Service Station facilities on the site, including the building, and pump islands, have been destroyed and removed. During the demolition, two existing groundwater monitoring wells were abandoned. A new service building was constructed and two new groundwater-monitoring wells were constructed for replacement of the two abandoned groundwater-monitoring wells. Soil samples collected during the construction of the two new groundwater-monitoring wells indicated 40 ppm of TPH-as-gasoline in a soil sample from 25 feet in the boring for groundwater-monitoring well MW-4. Analytical results for soil samples from the boring for groundwater-monitoring well MW-5 were below Practical Quantitation Levels for BTEX and TPH-as-gasoline. The results of the groundwater sample analyses reported 1,500 ppb of TPH-as-gasoline and 229 ppb of BTEX in the sample from MW-4.



LEGEND
 ⊙ MONITORING WELL
 () TPH CONCENTRATION (ppb)
 PQL PRACTICAL QUANTITATION LEVEL

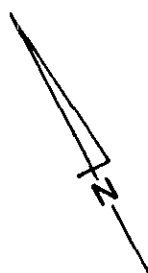
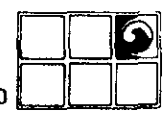


FIGURE 4
 DISSOLVED TOTAL PETROLEUM HYDROCARBON
 (TPH)-as-GASOLINE CONCENTRATIONS
 (4/12/90)

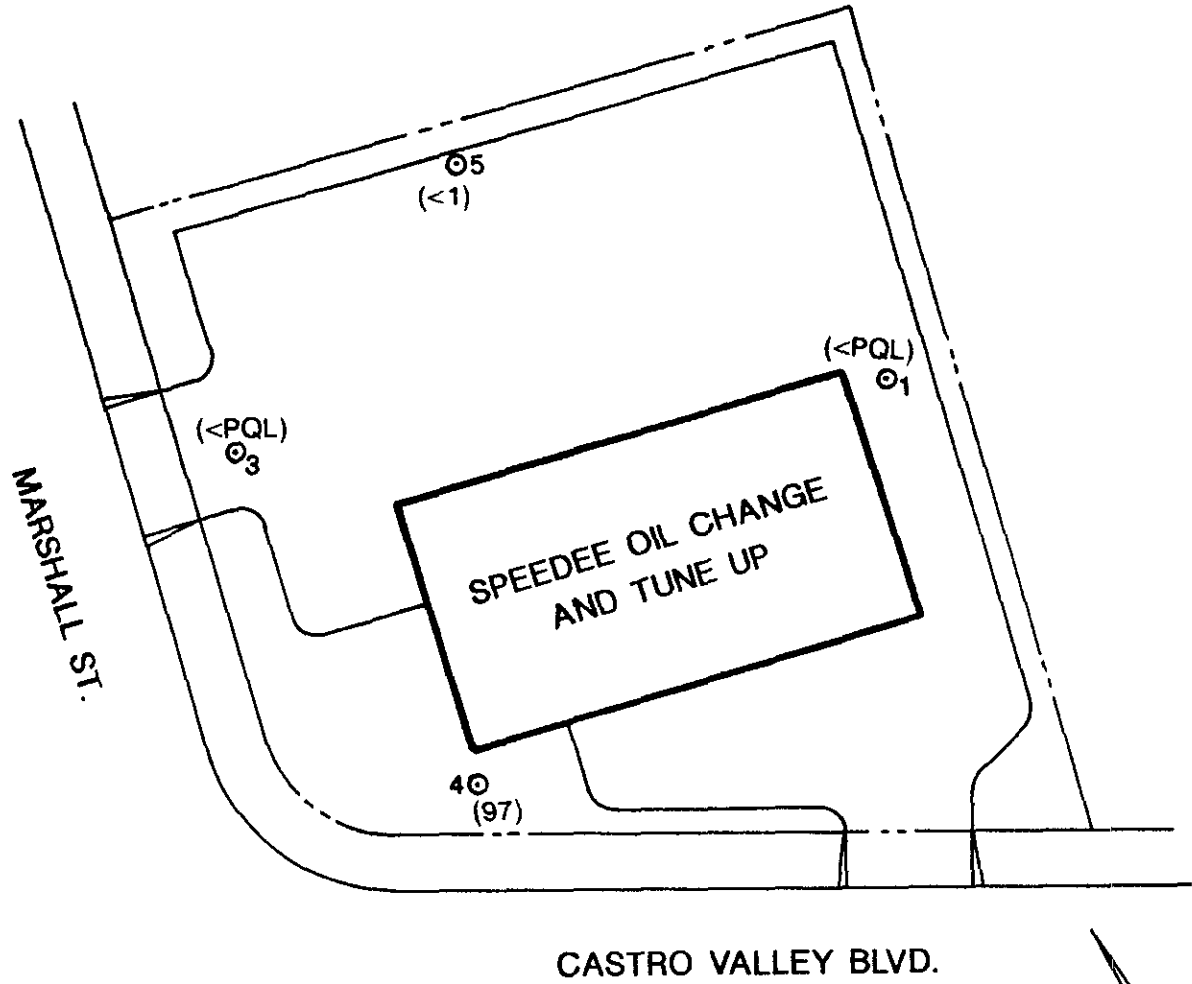


TEXACO REFINING
 & MARKETING INC.
 CASTRO VALLEY, CALIFORNIA

ML 6/90



GROUNDWATER
 TECHNOLOGY, INC.



LEGEND

- ⊙ MONITORING WELL
- () BENZENE CONCENTRATION (ppb)
- PQL PRACTICAL QUANTITATION LEVEL

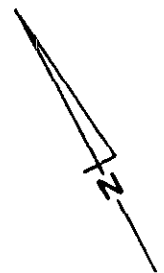


FIGURE 5
DISSOLVED BENZENE CONCENTRATIONS
(4/12/90)



Groundwater samples from the other monitoring wells contained no detectable hydrocarbons. The gradient of the groundwater is extremely flat with an apparent flow direction toward the southwest.

**APPENDIX A
DRILL LOGS**

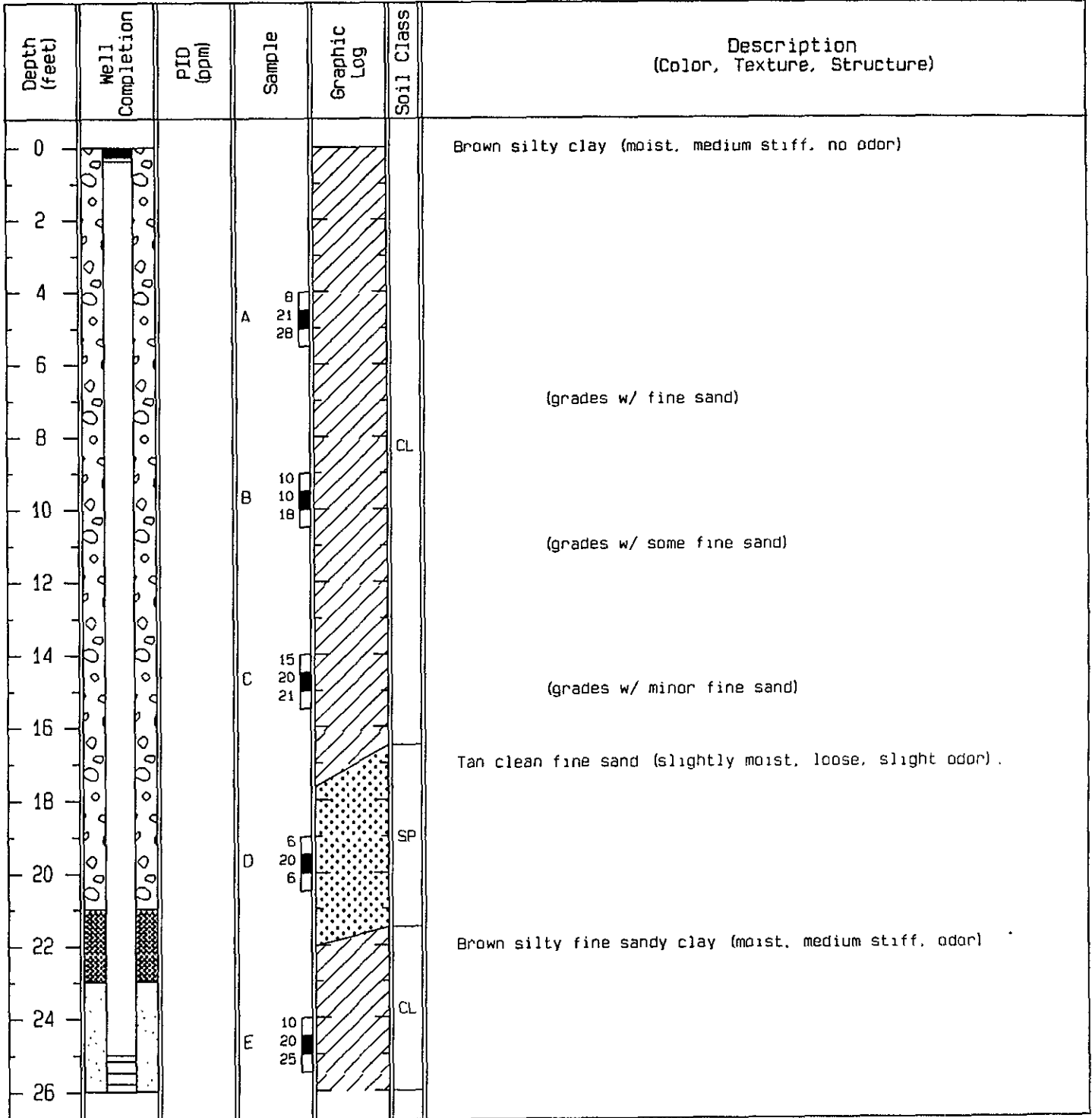
Monitoring Well 4

Drilling Log

Project Texaco/Castro Valley Owner Texaco Refining and Marketing
 Location Castro Valley Rd. Project Number 203 150 4080
 Date Drilled 4/03/90 Total Depth of Hole 45 ft. Diameter 10.5 in.
 Surface Elevation _____ Water Level Initial 30 ft. 24-hour _____
 Screen: Dia 4 in. Length 20 ft. Slot Size 0.020 in.
 Casing: Dia 4 in. Length 25 ft. Type PVC
 Filter Pack Material Lonestar #22 Sand Pack
 Drilling Company Sierra Pacific Drilling Drilling Method Hollow Stem Auger
 Driller Derald Harris Log by Steve Kranyak
 Geologist/Engineer Allen B. Storm License No. FG. 4394

See Site Map
For Boring Location

NOTES:



Monitoring Well 4

Drilling Log

Project Texaco/Castro Valley

Owner Texaco Refining and Marketing

Location Castro Valley Rd.

Project Number 203 150 4080

Depth (feet)	Well Completion	PID (ppm)	Sample	Graphic Log	Soil Class	Description (Color, Texture, Structure)			
26			NR		CL	(grades more fine sand)			
28									Tan fine sand (wet, loose, ? odor)
30								SP	Encountered water 4/03/90 (1630 hours).
32									(grades w/ gravels + silts)
34							G		Brown silty clayey fine sandy gravel (wet, medium dense, no odor)
36									
38									
40							H		
42									
44							NR		
46						Bottom of boring. Installed monitor well			
48									
50									
52									
54									
56									
58									

Monitoring Well 5 Drilling Log

Project Texaco/Castro Valley Owner Texaco Refining and Marketing
 Location Castro Valley Rd. Project Number 203 150 4080
 Date Drilled 4/03/90 Total Depth of Hole 45 ft. Diameter 10.5 in
 Surface Elevation _____ Water Level Initial 33 ft. 24-hour _____
 Screen: Dia 4 in Length 17 ft. Slot Size 0.020 in.
 Casing: Dia 4 in. Length 28 ft. Type PVC
 Filter Pack Material Lonestar #22 Sand Pack
 Drilling Company Sierra Pacific Drilling Drilling Method Hollow Stem Auger
 Driller Derald Harris Log by Steve Kranyak
 Geologist/Engineer Allen B. Storm License No AG. 4394

See Site Map
For Boring Location

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0				5" Asphalt over 7" base course.		
2				Dark grey silty clay (moist, medium stiff, no odor)		
4			A	CL	(grades light brown)	
6				SM	Tan silty fine sand.	
8				CL	Light brown silty clay (moist, medium stiff, no odor).	
10			B		Tan silty fine sand (slightly moist, loose, no odor).	
12						
14			C		(grades to no silt)	
16						
18						
20			D		(grades w/ some silt)	
22						
24			E		Tan fine to coarse sand (moist, loose, no odor)	
26				SW		

Monitoring Well 5

Drilling Log

Project Texaco/Castro Valley

Owner Texaco Refining and Marketing

Location Castro Valley Rd.

Project Number 203 150 4080

Depth (feet)	Well Completion	PID (ppm)	Sample	Graphic Log	Soil Class	Description (Color, Texture, Structure)					
26						(grades w/ silts, clays, + gravel)					
28									(grades more dense)		
30						F					
32											
34										▼ Encountered water 4/03/90 (0945 hours)	
36						G				SW	
38											
40						H					(as above)
42											
44						NR					
46						Bottom of boring Installed monitor well.					
48											
50											
52											
54											
56											
58											

APPENDIX B
SOIL ANALYTICAL RESULTS

Table 1a

ANALYTICAL RESULTS

Aromatic Volatile Organics and
 Total Petroleum Hydrocarbons as Gasoline in Soil
 EPA Methods 5030, 8020 and modified 8015^a

a Results rounded to two significant figures. <PQL = less than practical quantitation levels, per EPA Federal Register, November 13, 1985, p. 46906.

GTEL Sample Number	01	02	03	04
Client Identification	MW5B	MW5D	MW5F	MW4B
Date Extracted	04/13/90	04/13/90	04/13/90	04/13/90
Date Analyzed	04/17/90	04/17/90	04/17/90	04/17/90
Analyte	Concentration, mg/Kg			
Benzene	< PQL	< PQL	< PQL	< PQL
Toluene	< PQL	< PQL	< PQL	< PQL
Ethylbenzene	< PQL	< PQL	< PQL	< PQL
Xylene, total	< PQL	< PQL	< PQL	< PQL
TPH as gasoline	< PQL	< PQL	< PQL	< PQL
Detection limit multiplier	1	1	1	1

GTEL Sample Number	05	06	07	
Client Identification	MW4C	MW4D	MW4E	
Date Extracted	04/13/90	04/13/90	04/13/90	
Date Analyzed	04/17/90	04/17/90	04/17/90	
Analyte	Concentration, mg/Kg			
Benzene	< PQL	< PQL	< PQL	
Toluene	< PQL	< PQL	< PQL	
Ethylbenzene	< PQL	< PQL	< PQL	
Xylene, total	< PQL	< PQL	< PQL	
TPH as gasoline	< PQL	< PQL	40	
Detection limit multiplier	1	1	1	

Project Number: 203-199-4080
 Work Order Number: D0-04-173
 Location: 3490 Castro Valley Blvd.
 Castro Valley, CA.
 Date Sampled: 03-Apr-90

Table 1a
ANALYTICAL RESULTS

Organic Lead in Soil

California DHS Method (LUFT Manual)

GTEL Sample Number		01			
Client Identification		MW4E			
Date Prepared		04/09/90			
Date Analyzed		04/09/90			
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Lead, organic	0.25	<0.25			
Detection Limit Multiplier		1			

APPENDIX C
GROUNDWATER MONITORING DATA

**APPENDIX C
GROUNDWATER MONITORING DATA**

WELL	ELEV. ^a	TX	MW-1 192.46	MW-2	MW-3 190.48	MW-4 191.63	MW-5 191.55
11/19/87	DTW ^b	20.90	NM ^c	NM	NM		
12/30/87	DTW	NM	21.92	22.30	22.60		
06/07/88	DTW	21.51	23.35	23.83	20.90		
12/13/88	DTW	*	23.17	23.69	20.92		
08/29/89	DTW		23.70	*	27.48		
02/27/90	DTW		23.25		21.58		
04/10/90	DTW		23.66		NM	22.59	22.79
04/12/90	DTW		23.65		21.70	22.84	22.74

- a - Surveyed to Alameda County datum on April 23, 1990
- b - DTW = Depth to water
- c - NM = Not measured
- d - * abandoned

APPENDIX D
GROUNDWATER ANALYTICAL RESULTS

Project Number: 203-199-4080
 Work Order Number: D0-03-011
 Location: 3940 Castro Valley Blvd.
 Castro Valley, CA.
 Date Sampled: 27-Feb-90

Table 1a

ANALYTICAL RESULTS

**Aromatic Volatile Organics and
 Total Petroleum Hydrocarbons as Gasoline in Water
 EPA Methods 5030, 8020 and modified 8015^a**

a Results rounded to two significant figures. <PQL = Less than practical quantitation levels, per EPA Federal Register, November 13, 1985, p. 46906.

GTEL Sample Number	01	02	03	
Client Identification	MW-3B	MW-3	MW-1	
Date Analyzed	03/07/90	03/07/90	03/07/90	
Analyte	Concentration, ug/L			
Benzene	<PQL	<PQL	<PQL	
Toluene	<PQL	<PQL	<PQL	
Ethylbenzene	<PQL	<PQL	<PQL	
Xylene, total	<PQL	<PQL	<PQL	
TPH as gasoline	<PQL	<PQL	<PQL	
Detection limit multiplier	1	1	1	



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- 1446

CUSTODY RECORD

ANALYSIS REQUEST

Project Manager: Jan Prati Phone #: _____
 Address: 671 Concord Site location: Castro Valley
3940 Castro Valley Blvd., CA
 Project Number: 2031594080 Project Name: Castro Valley

I attest that the proper field sampling procedures were used during the collection of these samples. Sampler Name (Print): Steve Kravak

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix				Method Preserved					Sampling			
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER	DATE	TIME
MIX-3B			1	✓						✓		✓			2/27/90	3:20
MIX-3			2	✓						✓		✓			↑	3:35
MIX-1B			1	✓						✓		✓			↓	3:40
MIX-1			2	✓						✓		✓		2/27/90	3:45	

BTEX 802 <input type="checkbox"/> 8020 <input type="checkbox"/> with 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"/> 8010 <input type="checkbox"/> DCA only <input type="checkbox"/>	EPA 602 <input type="checkbox"/> 8020 <input type="checkbox"/>	EPA 608 <input type="checkbox"/> 8080 <input type="checkbox"/> PCBs only <input type="checkbox"/>	EPA 610 <input type="checkbox"/> 8310 <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"/> TTLC <input type="checkbox"/>	Corrosivity <input type="checkbox"/> Flashpoint <input type="checkbox"/> Reactivity <input type="checkbox"/>	ON HOLD
--	--	--	---	--	--	--	---	--	---	---	--	---	---	--	---	--	----------------

SPECIAL HANDLING
 24 HOURS
 EXPEDITED 48 Hours
 SEVEN DAY
 OTHER _____ (#) BUSINESS DAYS
 QA/QC CLP Level Blue Level
 FAX

SPECIAL DETECTION LIMITS (Specify)
PQL's as per EPA
 SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:
 Lab Use Only _____ Storage Location _____
 Lot #: _____ Work Order # _____

Relinquished by Sampler: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]

Date: 2/28/90 Time: 4:15 PM
 Date: _____ Time: _____
 Date: 2/28/90 Time: 1:10

Project Number: 203-199-4080
 Work Order Number: D0-04-296
 Location: 3940 Castro Valley
 Castro Valley, CA.
 Date Sampled: 12-Apr-90

Table 1a

ANALYTICAL RESULTS

**Aromatic Volatile Organics and
 Total Petroleum Hydrocarbons as Gasoline in Water
 EPA Methods 5030, 8020 and modified 8015^a**

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.

GTEL Sample Number		01	02	03	
Client Identification		MW5B	MW5	MW4	
Date Analyzed		04/16/90	04/16/90	04/16/90	
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	97	
Toluene	0.5	<0.5	<0.5	1	
Ethylbenzene	0.5	<0.5	<0.5	11	
Xylene, total	0.5	<0.5	<0.5	120	
TPH as gasoline	1	<1	<1	1500	
Detection limit multiplier		1	1	1	



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CHAIN-OF-CUSTODY RECORD
AND ANALYSIS REQUEST

72-4403

CUSTODY RECORD

Project Manager: *Tim Watchers*
Phone #: *685-9250*
Address: *Concord GTI 3940 Castro Valley, C.V.*
Project Number: *203150 9080*
Site location: *Tex / Castro Valley*
Project Name: *Tex / Castro Valley*

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

Sampler Name (Print): *Bob Haburchak*

ANALYSIS REQUEST

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix					Method Preserved					Sampling	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER	DATE
<i>rip B</i>			<i>1</i>	<i>X</i>						<i>X</i>				<i>4/12/08</i>	<i>0830</i>
<i>MW50</i>			<i>1</i>							<i>X</i>					
<i>MW5</i>			<i>2</i>												<i>1230</i>
<i>MW40</i>			<i>1</i>												
<i>MW4</i>			<i>2</i>												<i>0740</i>

<input type="checkbox"/> BTEX 602	<input type="checkbox"/> 8020	<input type="checkbox"/> with MTBE	<input type="checkbox"/>
<input type="checkbox"/> BTEX/TPH Gas	<input type="checkbox"/> 602/8015	<input type="checkbox"/> 8020/8015	<input type="checkbox"/> MTBE
<input type="checkbox"/> TPH as Gas	<input type="checkbox"/> Diesel	<input type="checkbox"/> Jet Fuel	<input type="checkbox"/>
<input type="checkbox"/> Product I.D. by GC (SIMDIS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Total Oil & Grease	<input type="checkbox"/> 413.1	<input type="checkbox"/> 413.2	<input type="checkbox"/> 503A
<input type="checkbox"/> Total Petroleum Hydrocarbons	<input type="checkbox"/> 418.1	<input type="checkbox"/> 418.1	<input type="checkbox"/> 503E
<input type="checkbox"/> EPA 801	<input type="checkbox"/> 8010	<input type="checkbox"/> DCA only	<input type="checkbox"/>
<input type="checkbox"/> EPA 602	<input type="checkbox"/> 8020	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> EPA 608	<input type="checkbox"/> 8080	<input type="checkbox"/> PCBs only	<input type="checkbox"/>
<input type="checkbox"/> EPA 610	<input type="checkbox"/> 8310	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> EPA 624	<input type="checkbox"/> 8240	<input type="checkbox"/> NBS #130	<input type="checkbox"/>
<input type="checkbox"/> EPA 625	<input type="checkbox"/> 8270	<input type="checkbox"/> NBS #25	<input type="checkbox"/>
<input type="checkbox"/> ERTOX Metals	<input type="checkbox"/> Pesticides	<input type="checkbox"/> Herbicides	<input type="checkbox"/>
<input type="checkbox"/> TCLP Metals	<input type="checkbox"/> VOA	<input type="checkbox"/> Semi VOA	<input type="checkbox"/>
<input type="checkbox"/> EPA Priority Pollutant Metals	<input type="checkbox"/> HSL	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> LEAD 7430	<input type="checkbox"/> 7430	<input type="checkbox"/> 60140	<input type="checkbox"/> 60140
<input type="checkbox"/> CAM Metals	<input type="checkbox"/> STLC	<input type="checkbox"/> STLC	<input type="checkbox"/>
<input type="checkbox"/> Corrosivity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPECIAL HANDLING
 24 HOURS
 EXPEDITED 48 Hours
 SEVEN DAY
 OTHER _____ (#) BUSINESS DAYS
 QAVOC CLP Level Blue Level
 FAX

SPECIAL DETECTION LIMITS (Specify)
report detection limits not C/PQL

SPECIAL REPORTING REQUIREMENTS (Specify)
yes

REMARKS: *pg 1 of 1*
report all three xylene isomers, acidified, normal
turnover

Lab Use Only _____ Storage Location _____
 Lot #: _____ Work Order #: _____

Date: *04/12/08* Time: *0830* Received by: *[Signature]*

Date: *04/12/08* Time: *1230* Received by: *[Signature]*

Date: *04/12/08* Time: *0740* Received by: *[Signature]*

Relinquished by Sampler: *[Signature]*
 Relinquished by: *[Signature]*
 Relinquished by: *[Signature]*

Received by Laboratory: *[Signature]*

Date: *4-13-08* Time: *10:10*