HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

StID 2871

13"

September 15, 1999

Mr. Durtzer 3985 1st Street Livermore, CA 94550 Ms. Karen Petryna Equiva Services P.O. Box 8080 Martinez, CA 94553

Re: Fuel Leak Site Case Closure for 2730 Old First Street, Livermore, CA

Dear Mr. Durtzer and Ms. Petryna:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- up to 1,000ppm TPH as gasoline and 3.4ppm benzene exists in soil beneath the site;
- up to 14,000ppb TPHg and 810ppb benzene exists in groundwater beneath the site;
 and,
- a site safety plan must be prepared for construction workers in the event of excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.

If you have any questions, please contact me at (510) 567-6762.

eva chu

Hazardous Materials Specialist

enlosures:

1. Case Closure Letter

2. Case Closure Summary

c: Dave Clemens, City of Livermore, Planning Div., 1052 S. Livermore Ave., Livermore, CA 94550

files (gansbgr-15)

ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 2871 - 2730 Old First Street, Livermore, CA (2-6K, 2-4K, and 1-550 gallon tanks removed on June 5, 1990)

September 15, 1999

Mr. Bradley Durtzer 3985 1st Street Livermore, CA 94550

Ms. Karen Petryna Equiva Services P.O. Box 8080 Martinez, CA 94553

Dear Mr. Durtzer and Ms. Petryna:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection

Chuck Headlee, RWQCB Dave Deaner, SWRCB

Danielle Stefani, Livermore-Pleasanton Fire Department

Dale Gansbergr, 1038 Apache St, Livermore, CA 94550

files-ec (gansbgr-14)

CASE CLOSURE SUMMARY

Leaking Underground Fuel Storage Tank Programs

AGENCY INFORMATION

Date: March 1, 1999

Agency name: Alameda County-HazMat City/State/Zip: Alameda, CA 94502

Address: 1131 Harbor Bay Pkwy

Phone: (510) 567-6700

Responsible staff person: Eva Chu

Title: Hazardous Materials Spec.

MAITUKNIA REGIONAL WATER

II. CASE INFORMATION

MAR 1 1 1999

Site facility name: Livermore German Auto

Site facility address: 2730 Old First Street, Livermore, CA 94550

QUALITY CONTROL BOARD

RB LUSTIS Case No: N/A

Local Case No./LOP Case No.: 2871

URF filing date: 7/31/90

SWEEPS No: N/A

Responsible Parties:

1038 Apache Street

Addresses:

Phone Numbers:

Dale Gansberger

Karen Petryna

Texaco/Equiva Services

P.O.Box 8080 Livermore, CA 94550

Martinez, CA 94553

Tank Size in No: gal.:		Contents:	Closed in-place or removed?:	<u>Date:</u>
1	6,000	Gasoline	Removed	6/5/90
2	6,000	u	n .	"
3	4,000	"	n .	u
4	4,000	44	u	н
5	550	Waste Oil	u	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown Site characterization complete? YES

Date approved by oversight agency: 12/28/98

Monitoring Wells installed? Yes Number: 6

Yes, 7' to 27'bgs in well MW-3 Proper screened interval?

Highest GW depth below ground surface: 9.56' Lowest depth: 15.10'

Flow direction: NW

Most sensitive current use: Commercial

Are drinking water wells affected? Aguifer name: Mocho Subbasin No Nearest affected SW name: NA Is surface water affected?

Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County Livermore Fire Dept

> 4550 East Ave 1131 Harbor Bay Pkwy and

Alameda, CA 94502 Livermore, CA 94550

Treatment and Disposal of Affected Material:

<u>Material</u>	Amount (include units)	Action (Treatment or Disposal w/destination)	<u>Date</u>
Tank Soil Groundwater	5 USTs	Disposed at Erickson, Richmond, CA	6/5/90

I Contaminant Con	centrations E	Before and After Cl	eanup
Soil (pp	em)	Water	(ppb)
Before ¹	After ²	Before ³	After ⁴
1,000		110,000	14,000
3.4		4,800	810
26		3,000	530
17		2,600	640
100		12,000	1,600
NA		ND	ND
1,500		NA	NA
ND		NA	NA
	Soil (pp Before ¹ 1,000 3.4 26 17 100 NA 1,500	Soil (ppm) Before ¹ After ² 1,000 3.4 26 17 100 NA 1,500	Before¹ After² Before³ 1,000 110,000 3.4 4,800 26 3,000 17 2,600 100 12,000 NA ND 1,500 NA

NOTE: 1	soil sample collected from soil borings advanced through the tank pit at 20'-25'bgs, 10/93
2	no overexcavation was done at the site. Note that hydrocarbon contamination detected
	has been in soil collected from depths \geq 20'bgs, below current groundwater elevation.
3	maximum concentrations from well MW-3, 10/93
4	most recent sampling event, from well MW-4, 7/98

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the
Regional Board Basin Plan?
Does completed corrective action protect potential beneficial uses per the
Regional Board Basin Plan?
Does corrective action protect public health for current land use? YES
Site management requirements: A site safety plan must be prepared for construction workers in the
event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.
Should corrective action be reviewed if land use changes? YES
Monitoring wells Decommissioned: No, pending site closure
Number Decommissioned: 0 Number Retained: 6
List enforcement actions taken: Tyre 1 - 11/16/92
List enforcement actions rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: Date: 3/5/99

Reviewed by

Name: Madhulla Logan Title: Haz Mat Specialist

Signature: Mordhulla Legour Date: 3/3/99

Name: Thomas Peacock Title: Supervisor

Signature: Date: 3-8-99

VI. RWQCB NOTIFICATION

Date Submitted to RB: 3/9/99

RB Response: OF For Closure

RWQCB Staff Name: Chuck Headlee / A Title: EG

Signature: Chiel Aladell Date: 3/12/99

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site was formerly a gasoline service station with an auto repair facility. Currently the site is used only as an automotive repair shop.

Four gasoline USTs (2-6K, 2-4K gallon) and one 550-gallon waste oil UST were removed in June 1990. Soil samples collected beneath the USTs did not reveal remarkable levels of TPHg, BTEX, TPHd, TOG, or HVOC (see Fig 1, 2 and Table 1, 2). However, this Agency requested additional subsurface investigations due to the obvious hydrocarbon contamination noted in soil beneath at least three of the five USTs.

In September 1990 three soil borings were advanced through the former tank pit. Elevated hydrocarbon levels were identified in soil from 20' to 35'bgs (see Fig 3, Table 3). Six additional soil borings (G1 through G6) were advanced to delineate the lateral extent of soil contamination. A grab water sample was also collected from boring G2. Analytical results indicated soil contamination to be limited to the immediate vicinity of the tank pit at 20' to 30'bgs. And, groundwater appeared to be impacted by the tank release. (See Fig 4, Table 4)

In September and October 1993 three soil borings (B1 through B3) and three monitoring wells (MW1 through MW3) were advanced to better evaluate soil contamination at the former pump islands as well as groundwater quality beneath the site. Sediments noted below the first 4' to 6' of fill material, consisted of fine to coarse gravel with some clay and silt from 6' to 27' or 33'bgs. A 5' to 6' thick silty clay

aquitard was found underlying the gravel. Cross sections are presented in Figs 5 and 6. First groundwater was detected at 27' to 31'bgs, just above the silty clay, therefore, the monitoring wells were screened from7' to 27'bgs, in the fine to coarse gravel. Soil contamination was only noted in boring MW3 at 20' to 25'bgs. Groundwater contamination was found in all the monitoring wells, with the highest concentrations in well MW3. (See Fig 4, Table 5)

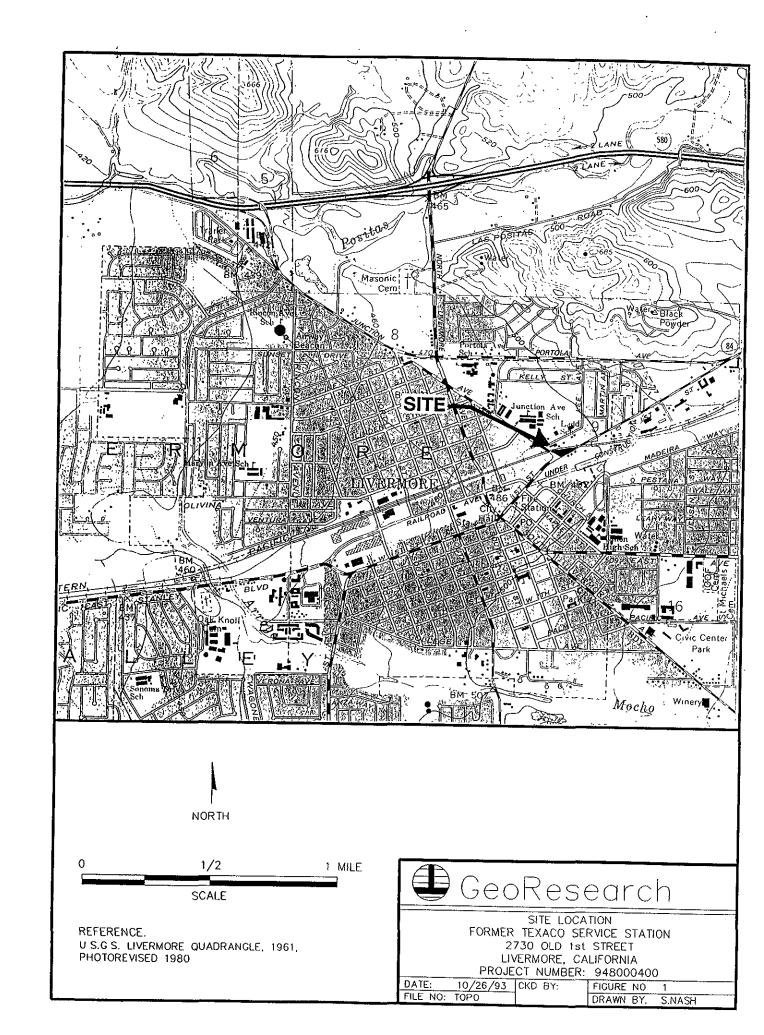
In April 1995 seven soil borings (B4 through B7 and MW-4 through MW-6) were drilled. Soil samples collected from borings B4, B5, and B7 were to evaluate potential release from the hydraulic lifts. And borings MW-4 through MW-6 were subsequently converted into groundwater monitoring wells. After several groundwater monitoring events, downgradient well MW-4 continues to contain elevated TPHg and BTEX constituents, indicating that the dissolved plume may have migrated offsite. In December 1996 two direct-push borings, B8 and B9, were drilled to delineate the lateral extent of groundwater contamination offsite. Groundwater was encountered at ~13.5′bgs. Soil and water samples collected did not contain TPHg, BTEX, or MTBE (see Fig 4, Table 6, 7, 8). It appears that the groundwater plume has stabilized and no longer migrating.

Groundwater monitoring well MW-3 has been sampled since 10/93, and well MW-4 since 5/95. Contaminant concentrations in MW-3 have shown a steady decline from 4,800ppb (in 10/93) to 16ppb benzene (in 7/98). Contaminant levels in well MW-4 have stabilized at approximately 800ppb benzene (in 7/98). (See Table 9)

A RBCA analysis was performed for the site. Based on the results of the RBCA, no onsite SSTLs were exceeded for the current use scenario as an automotive repair facility or for a future commercial development (see Table 10, 11, 12, 13).

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the dissolved hydrocarbon plume is not migrating;
- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.



F16 2

1006 Leslie Street San Mateo, Calif. 94402 (415) 572-8033

SITE PLAN

General & Engineering Contractors 431 W. Hatch Rd. Modesto, Calif. 95351 (209) 524-9553

	(209) 524-9553
SUBMITTED TO:	DESCRIPTION OF JOB:
SUBMITTED TO:	Job Livermore Caerman auto
	Address 2730 Old Fust St.
	City Luermore State CA
	Phone 443-3239 Date
	77.58.57 Date
SAMPLE DEPTHS 1) S.E. 6K SAS-12'6° 8) N. 4K SAS-14'	95(4K 6
3) S.E. 4K GAS-14' 10) COMP. SPUILS SOUTH	
TI TO OK CHISTIZ III COMP. SPOILS KORTH	
37 3.2. 4K 683-14 6" "12) PUNP ISLAND	
6) N.E. 4K GAS-14' 13) PUMP ISLAND 7) 550 W/O 8' 14) PUMP ISLAND	
7) 550 W/O 8' 14) PUMP ISLAND	
<u> </u>	

1555 Burke, Unit I · San Francisco, Ca 94124 · Phone (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 52109

DATE RECEIVED: 06/06/90

CLIENT: SEMCO

DATE REPORTED: 06/14/90%

CLIENT JOB NO.: GANSBERGER

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 5030 and 8015

LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range
1	#1-SE6K	NIT / 4
2	#2-NE6K	ND< 1 ND< 1
3	#3-4KSE	** 35
4	#4-6KW	ND<1
5	#5-4KG	ND<1
6	#6-4KGN	ND<1
7	#7-W/O	ND<1
8	#8-4KGN	ND<1
9	#9-4KG	ND<1
10	#10-COM	ND<1
11	#11-COMP	** 4
12	#12-PI	ND<1!
13	#13-PI	ND<1
14	14-PI	ND<1

mg/kg - parts per million (ppm) Minimum Detection Limit for Gasoline in Soil: 1mg/kg

** Reported in gasoline range but analysis does not match gasoline pattern

QAQC Summary:

Daily Standard run at 2mg/L: %DIFF Gasoline = <15 MS/MSD Average Recovery = 71%: Duplicate RPD

Richard Srna, Ph.D.

1555 Burke, Unit I · San Francisco, Ca 94124 · Phone (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 52109

CLIENT: SEMCO

CLIENT JOB NO .: GANSBERGER "

DATE RECEIVED: 06/06/90

DATE REPORTED: 06/14/90

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 Methods 5030 and 8020

Concentration(ug/kg)

LAB	•			Ethyl	,
#	Sample Identification	Benzene	Toluene	Benzene	Xylenes

1	#1-SE6K	10	20	4	28
2	#2-NE6K	ND<3	7	9	61
3	#3-4KSE	10	11	12	43
4	#4-6KW	ND<3	4	4	20
5	#5-4KG	ND<3	ND<3	ND<3	ND<3
6	#6-4KGN	ND<3	ND<3	ND<3	ND<3
7	#7-W/O	ND<3	ND<3	ND<3	ND<3
8	#8-4KGN	ND<3	ND<3	ND<3	ND<3
9	#9-4KG	ND<3	ND<3	ND<3	ND<3
10	#10-COM	17	27	7	50
11	#11-COMP	ND<3	ND<3	ND<3	25
12	#12-PI	ND<3	ND<3	ND<3	ND<3
13	#13-PI	ND<3	ND<3	5	16
14	14-PI	3	14	10	65

mg/kg - parts per million (ppm)

Minimum Detection Limit in Soil: 3.0ug/kg

QAQC Summary:

Daily Standard run at 20ug/L: %DIFF = <15

MS/MSD Average Recovery = 93% : Duplicate RPD = 6%

Richard Srna, Ph.D.

Laboratory Director

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE 0 F ANALYSIS

LABORATORY NO.: 52109

DATE RECEIVED: 06/06/90

CLIENT: SEMCO

DATE REPORTED: 06/14/90

CLIENT JOB NO.: GANSBERGER

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB		Concentration (mg/kg)			
#	Sample Identification	Gasoline Range	Diesel Range		
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
		1			
7	#7~W/O	ND<1	ND<10		

mg/kg - parts per million (ppm)

Minimum Detection Limit for Gasoline and Diesel in Soil: 10mg/kg Minimum Detection Limit for Gasoline and Diesel in Water: img/L

#### QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 1: RPD Diesel = MS/MSD Average Recovery = 96%: Duplicate RPD = 6gas, 1d

d Srna, Ph.D.

Laborator Director

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 52109

CLIENT: SEMCO

CLIENT JOB NO.: GANSBERGER

DATE RECEIVED: 06/06/90

DATE REPORTED: 06/18/90

ANALYSIS FOR TOTAL PETROLEUM OIL AND GREASE by EPA Method 503E

# Sample Identification Concentration (mg/kg)
Total oil & grease

7 #7-W/O

ND<20

mg/kg - parts per million (ppm)

Minimum Detection Limit for oil & grease in Soil: 20mg/kg

Richard Srna, Ph.D.

Laboratory Director

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 52109-7

CLIENT: Semco

JOB NO.: Gansberger

DATE SAMPLED:06/06/90

DATE RECEIVED: 06/06/90

DATE ANALYZED: 06/14/90

EPA SW-846 METHOD 8010 HALOGENATED VOLATILE ORGANICS SAMPLE:#7-W/O

Compound	MDL (ug/kg)	RESULTS
(ug/kg)		
Chloromethane	5.0	ND <5.0
Bromomethane	5.0	ND <5.0
Vinyl chloride	10.0	ND <10.0
Dichlorodifluoromethane	5.0	ND <5.0
Chloroethane	5.0	ND <5.0
Methylene chloride	10.0	ND <10.0
Trichlorofluoromethane	5.0	ND <5.0
1,1-Dichloroethene	2.0	ND <2.0
1,1-Dichloroethane	5.0	ND <5.0
trans-1,2-Dichloroethene	5.0	ND <5.0
Chloroform	5.0	ND <5.0
1,2-Dichloroethane	5.0	ND <5.0
1,1,1-Trichloroethane	5.0	ND <5.0
Carbon tetrachloride	5.0	ND <5.0
Bromodichloromethane	5.0	ND <5.0
1,2-Dichloropropane	5.0	ND <5.0
cis-1,3-Dichloropropene	5.0	ND <5.0
Trichloroethylene	5.0	ND <5.0
1,1,2-Trichloroethane	5.0	ND <5.0
trans-1,3-Dichloropropene	5.0	ND <5.0
Dibromochloromethane	5.0	ND <5.0
2-Chloroethylvinyl ether	10.0	ND <10.0
Bromoform	5.0	ND <5.0
Tetrachloroethene /	:	
1,1,2,2-Tetrachloroethane	5.0	ND <5.0
Chlorobenzene	5.0	ND <5.0
1,3-Dichlorobenzene	5.0	ND <5.0
1,2-Dichlorobenzene	5.0	ND <5.0
1,4-Dichlorobenzene	5.0	ND <5.0
MDL = Method Detection Limit	· •	
ug/kg = parts per billion (pr	ob)	

ug/kg = parts per billion (ppb)

QA/QC Summary: Daily Standard %Diff= <15

MS/MSD average recovery = 97 % : MS/MSD RPD = < 7

Prichard Srng.Ph.D.

Laboratory Director

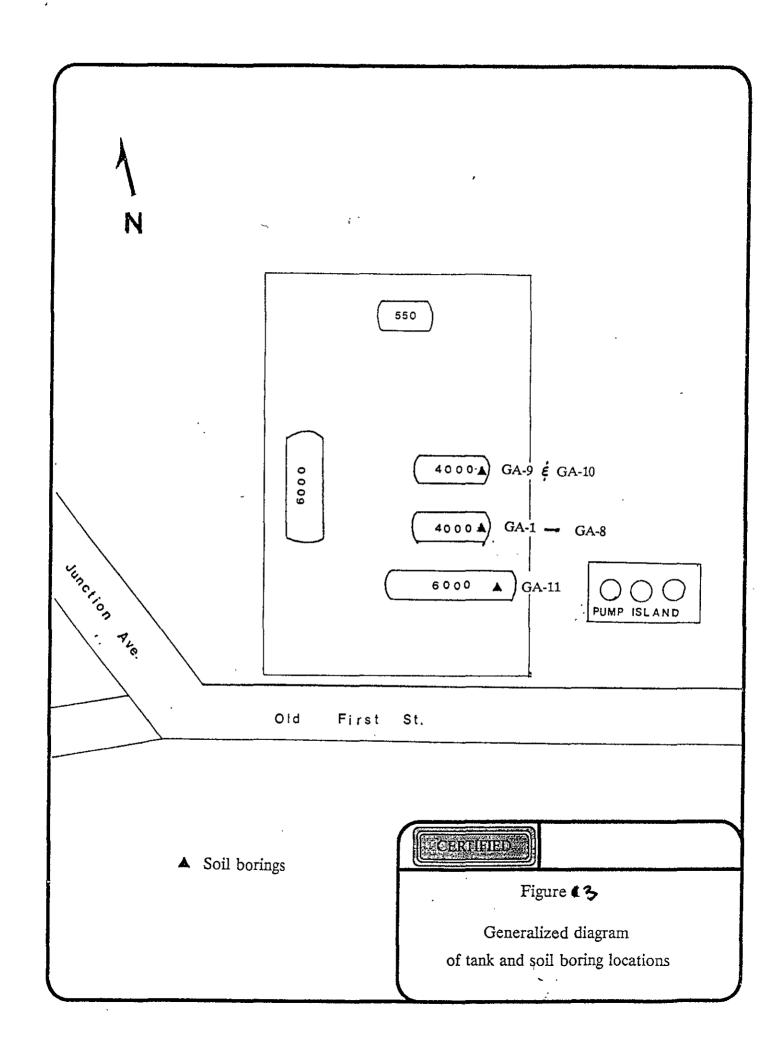
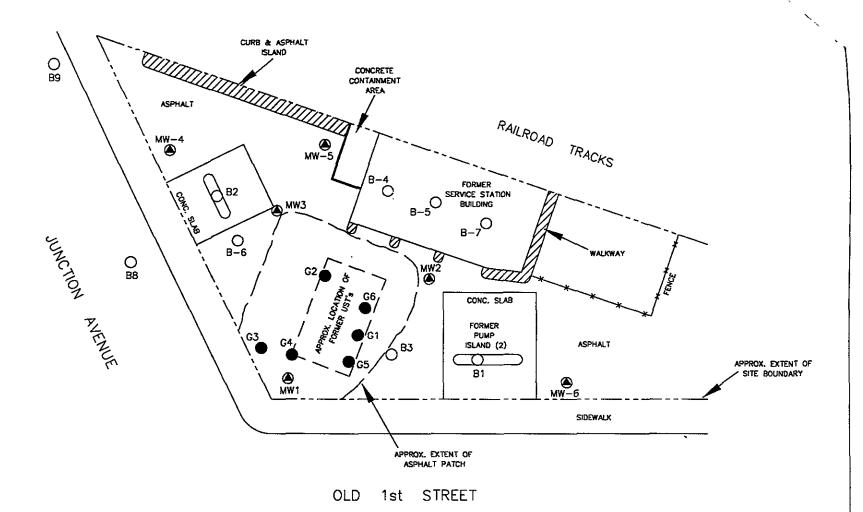


TABLE • 3

Bore Hole Location	Sample Number	Sample Depth	TPH-Gasoline (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Xylenes (ppb)	Geology
			<b></b>					
Middle								
Tank	GA-1	7.5'	ND	ND	ND	ND	ND	Backfill
	GA-2	20'	800	3400	19000	10000	61000	Moderately clayey gravel with san
	GA-3	25'	1000	1900	23000	13000	81000	Moderately clayey gravel with san
	GA-4	30'	1	1100	38	14	81	Gravelly clay with sand
	GA-5	35'	ND	42	20	10	39	Sandy gravel with clay lense(s)
	GA-6	40'	64	ND	290	150	320	Sandy gravel with clay lense(s)
	GA-7	45'	110	180	300	1400	7300	Silty to sandy gravel, minor clay
	GA-8	50°	ND	ND	ND	ND	ND	Silty to sandy gravel, minor clay
····								
North								
Tank	GA-9	7.5'	ND	ND	ND	ND	ND	Backfill, gravel with sand
	GA-10	20°	ND	ND	ND	ND	ND	Gravel with sand, minor fines
South*								
Tank	GA-11	20'	1500	2600	26000	17000	100000	Gravel with sand, minor fines

ND = < 1ppm TPH and < 3ppb BTEX
* Backfill material was too lose to hold in sample tube at 7.5'



## LEGEND :

MONITORING WELL LOCATION

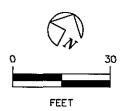
MW1 AND WELL NUMBER

SOIL BORING LOCATION
G6 AND BORING NUMBER

O SOIL BORING LOCATION
B-9 AND BORING NUMBER

SOURCE :

MODIFIED FROM
GEORESEARCH DWG.



# F164



#### TEXACO

REFINING AND MARKETING INC. ENVIRONMENT, HEALTH AND SAFETY

FORMER TEXACO SERVICE STATION

2730 OLD 1st ST. / JUNCTION AVE., LIVERMORE, CALIFORNIA

SCALE	1"=30'-0"	LOCATION #	61-857-1036		
DRAWN 8	Y AMA	DATE	09/30/1996		
CHECKED BY		DATE			
DRAWING NO (INTERMORE) OIL III INTERMO					

	irst Street						<del>                                     </del>
Soil Samp	le Analytica	l Results					<del> </del>
				,	ppm		<del> </del>
Boring#	Sample#	Depth (ft)	TPHG	8	T	E	X
G1	GA-1	7.5	nd	nd	nd	nd	nd
G1	GA-2	20	800	3.4	19	10	61
G1	GA-3	25	1000	1.9	23	13	81
G1	GA-4	30	1	1.1	0.038	0.014	0.08
G1	GA-5	35	nd	0.042	0.02	0.01	0.03
G1	GA-6	40	64	nd	0.29	0.15	0.32
G1	GA-7	45	110	0.18	0.3	1.4	7.3
G1	GA-8	50	nd	nd	nd	nd	nd
			, .		110	i Ri	ilu
G2	G-21	10	nd	nd	nd	nd	nd
G2	G-22	15	nd	nd	nd	nd	nd
G2	G-23	20	nd.	nd	nd	nd	nd
G2	G-24	25	2	0.31	0.32	0.025	0.15
G2	G-25	30	nd	0.07	nd	0.025	nd
G2	G-26	35	nd	0.006	0.006	0.018	
G2	G-27	40	18	nd	0.054	0.077	0.024
G2	G-28	45	27	nd	0.068	0.041	0.016
G2	G-29	50	nd	0.003	0.003	0.005	0.048
				,	0.000	0.003	0.016
G2	4GW-1	₹ 48	53	0.34	1.9	2.3	12
				,		2.3	14
G3	G-31	10	nd	nd	nd	ad	
G3	G-32	15	nd	nd	nd	nd	nd
G3	G-34	20	nd	nd	nd	nd	nd
G3	G-35	25	nd	0.047	nd	nd	nd
G3	G-36	30	nd	nd .		0.005	0.026
G3	G-37	35	nd	nd	nd	nd	nd
	<del></del> -		ING	- IN	nd	nd	nd
G4	G-41	10	nd	nd	54	200	
G4	G-42	15	nd	nd	nd	nd	nd
G4	G-43	20	nd	nd	nd nd	nd nd	nd
G4	G-44	25	nd	0.026	nd	nd	nd
G4 .	G-45	30	nd	nd	nd	nd nd	0.008
G4	G-46	35	nd	nd		nd nd	nd
G4	G-47	40	6	nd	nd 0.024	nd	nd
			<del></del>	ilu	0.024	0.019	0.018
G5	GA-11	20	1500	2.6	20	4=	
			1300	2.0	26	17	100
G6	GA-9	7.5	nd				
<del></del>	GA-10	1.0	nd	nd	nd	nd (	nd

# TABLE & 6

# SOIL SAMPLES ANALYTICAL RESULTS 2730 OLD 1ST STREET LIVERMORE, CALIFORNIA,

SAMPLEID	DEPTH (FEET)	TPH-G	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES
B1-10	10	<1.0	<0.005	<0.005	<0.005	<0.005
B1-15	15	<1.0	<0.005	0.005	<0.005	<0.005
B2-5	5	<1.0	<0.005	<0.005	<0.005	<0.005
B2-11	11	<1.0	<0.005	<0.005	<0.005	<0.005
B3-10	10	<1.0	<0.005	<0.005	<0.005	<0.005
B3-15	15	<1.0	<0.005	<0.005	<0.005	<0.005
B3-20	20	<1.0	<0.005	<0.005	<0.005	<0.005
B3-26.5	26.5	<1.0	<0.005	<0.005	<0.005	<0.005
B3-30	30	<1.0	<0.005	<0.005	<0.005	<0.005
B3-35	35	<1.0	0.061	<0.005	<0.005	<0.005
B3-40	40	<1.0	<0.005	<0.005	<0.005	<0.005
MW1-5	5	<1.0	<0.005	<0.005	<0.005	<0.005
MW1-10	10	<1.0	<0.005	<0.005	<0.005	<0.005
MW1-15	15	<1.0	<0.005	<0.005	<0.005	<0.005
MW1-21	20	<1.0	<0.005	<0.005	<0.005	<0.005
MW2-5	5	<1.0	<0.005	<0.005	<0.005	<0.005
MW2-10	10	<1.0	<0.005	<0.005	<0.005	<0.005
MW2-15	15	<1.0	<0.005	<0.005	<0.005	<0.005

# TABLE # 5

SAMPLEID	DEPTH (FEET)	TPH-G	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES
MW2-20	20	<1.0	<0.005	<0.005	<0.005	<0.005
MW2-25	25	<1.0	<0.005	<0.005	<0.005	<0.005
MW2-30	30	<1.0	<0.005	<0.005	<0.005	<0.005
MW3-5	5	<1.0	<0.005	<0.005	<0.005	<0.005
MW3-10	10	<1.0	<0.005	<0.005	<0.005	<0.005
MW3-15	15	<1.0	<0.005	<0.005	<0.005	<0.005
MW3-20	20	160	0.60	0.18	2.3	10
MW3-25	25	910	4.5	5.8	88	18
MW3-30	30	<1.0	<0.005	<0.005	<0.005	0.065

#### **NOTES:**

1. All values are reported as milligrams per kilogram (mg/kg).

2. Depth measured in feet below ground surface (bgs).

3. TPH-G = Total petroleum hydrocarbons as gasoline (TPH-G).

4. <1.0 = Not detected above the indicated laboratory detection limit.

5. Laboratory Reports are presented in Appendix D.

6. Soil samples were analyzed by Mobile Chem Lab of Martinez, California

# TABLE \$ 6 CURRENT ANALYTICAL RESULTS FOR SOIL SAMPLES FORMER TEXACO SERVICE STATION 2730 OLD LIVERMORE ROAD LIVERMORE, CALIFORNIA

SAMPLE			т	PH			Ethyl-	Total
ID.	DEPTH	TRPH	Establishment of the second	GAS	Benzene	Toluene	Benzene	Xylenes
B5	5	220	<1	<1	<0.005	<0.005	<0.005	<0.005
B5	10	83	<1	<1	<0.005	<0.005	<0.005	<0.005
B4	5	450	<1	<1	<0.005	<0.005	<0.005	<0.005
B4	10	1500	<1	<1	<0.005	<0.005	<0.005	<0.005
B6	5	NA	<10	<1	<0.005	<0.005	<0.005	<0.015
B6	10	NA	<10	<1	<0.005	<0.005	<0.005	<0.015
B6	15	NA	<10	<1	<0.005	<0.005	<0.005	<0.015
B6	20	NA	<10	15	<0.005	0.023	0.09	0.24
B6	25	NA	<10	310	0.3	1.2	4.3	24
B6	28	NA	<10	3.3	0.2	0.15	0.1	0.59
B7	5	1300	7	<1	<0.005	<0.005	<0.005	<0.005
B7	9	1100	5.7	<1	<0.005	<0.005	<0.005	<0.005
MW4	5	NA	3.5	<1	<0.005	<0.005	<0.005	<0.005
MW4	10	NA	<1	<1	<0.005	<0.005	<0.005	<0.005
MW4	15	NA	<1	<1	<0.005	<0.005	<0.005	<0.005
MW4	20	NA	13	100	<0.5	<0.5	<0.5	1.6
MW4	25	NA	<1	<1	0.06	<0.005	0.038	0.041
MW4	30	NA	<1	<1	<0.005	<0.005	<0.005	<0.005
MW5	5	NA	<1	<1	<0.005	<0.005	<0.005	<0.005
MW5	10	NA	<1	<1	<0.005	< 0.005	<0.005	<0.005
MW5	15	NA	<1	<1	<0.005	<0.005	<0.005	<0.005
MW5	20	NA	<1	<1	<0.005	<0.005	<0.005	<0.005
MW5	25	NA	<1	<1	<0.005	<0.005	< 0.005	<0.005
MW5	28	NA	<1	<1	<0.005	<0.005	<0.005	<0.005
MW6	5	NA	<10	<1	<0.005	<0.005	<0.005	<0.015
MW6	10	NA	<10	<1	<0.005	<0.005	<0.005	<0.015
MW6	15	NA	<10	<1	<0.005	<0.005	<0.005	<0.015
MW6	25	NA	<10	<1	<0.005	<0.005	<0.005	<0.015
MW6	30	NA	<10	<1	<0.005	<0.005	<0.005	<0.015

#### Notes:

- 1. All values are reported in milligrams per kilogram (mg/kg)
- 2. Depth measured in feet below ground surface
- 3. <1.0 = Not detected above the indicated laboratory detection limit
- 4. TPH = Total petroleum hydrocarbons
- 5. TRPH = Total recoverable petroleum hydrocarbons
- 6. NA = Not analyzed

TABLE 7
SUMMARY OF LABORATORY ANALYSES
SOIL

<u>Date</u>	Sample <u>Number</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	Toluene	Ethyl- <u>benzene</u>	<u>Xylenes</u>	MTBE
12/11/96	B8(13)	<1	<0.005	<0.005	<0.005	<0.005	<0.3
	B9(13)	<1	<0.005	<0.005	<0.005	0.0064	<0.3

NOTE: The soil samples were collected at the depths below grade indicated in the ( ) of the respective sample number.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.

KEI-J96-1102.R1
February 5, 1997

TABLE 1 S
SUMMARY OF LABORATORY ANALYSES
WATER

<u>Date</u>	Sample Number	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Ethyl- benzene	Xylenes	MTBE
12/11/96	B8	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	B9	<50	<0.5	<0.5	<0.5	<0.5	<0.5

NOTE: Water samples were collected during drilling. The results of the analyses may not be representative of formation water, and should be used for comparative informational purposes only.

Results are in micrograms per liter ( $\mu g/L$ ), unless otherwise indicated.

Table ♣ <a>♠</a> Groundwater Analytical Data 2730 Old First Street, Livermore, CA

Number   Sampled   Option		<u> </u>		JIG T HOL OUTCO	L. LIVEITIOIE	Ethyl-		
Number   Sampled   (ppb)   (	Well	Date	TPHa	Renzene	Toluono		Valen	
MW-1   10/20/93   260   22   0.6   5.5   4.9   NA								
MW-1   03/17/94   190   6.9   16   4.5   22   NA								
MW-1   06/22/94   1,200   190   5.4   20   5.9   NA								
MW-1								
MW-1   12/28/94   110   12   0.50   0.57   1.3   NA	MW-1							~
MW-1   03/29/95   58   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5	MW-1							
MW-1   05/09/95   350   19   15   11   45   NA   MW-1   08/21/95   <50   <0.5   <0.5   <0.5   <0.5   <0.5   <10   MW-1   11/14/95   <50   <0.5   <0.5   <0.5   <0.5   <0.5   <10   MW-1   11/14/95   <50   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   MW-1   11/14/95   <50   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5	MW-1							
MW-1         08/21/95         <50         <0.5         <0.5         <0.5         <10           MW-1         11/14/95         <50	MW-1							
MW-1	MW-1	08/21/95						
MW-1         01/18/96         <50         <0.5         <0.5         <0.5         NA           MW-1         05/10/96         <50	MW-1	11/14/95						
MW-1         05/10/96         <50         <0.5         0.53         <0.5         1.3         NA           MW-1         08/14/96         <50	MW-1	01/18/96						
MW-1         08/14/96         <50         <0.5         <0.5         <0.5         <0.5         NA           MW-1         11/22/96         73         2.1         2.3         2.6         9.8         <30	MW-1	05/10/96				~~~~		
MW-1         11/22/96         73         2.1         2.3         2.6         9.8         <30           MW-1         02/11/97         <50	MW-1	08/14/96		· · · · · · · · · · · · · · · · · · ·				
MW-1         02/11/97         <50         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5	MW-1	11/22/96						
MW-1         02/06/98         <50         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5	MW-1	02/11/97	<50					
MW-2         10/20/93         10,000         310         24         220         560         NA           MW-2         03/17/94         1,300         37         1.3         12         26         NA           MW-2         06/22/94         6,200         340         14         38         130         NA           MW-2         09/15/94         Not sampled - well dry	MW-1	02/06/98						
MW-2         03/17/94         1,300         37         1.3         12         26         NA           MW-2         06/22/94         6,200         340         14         38         130         NA           MW-2         09/15/94         Not sampled - well dry         Well dry         NA         NA           MW-2         12/28/94         2,300         76         3.2         9.5         35         NA           MW-2         03/29/95         3,700         140         14         29         95         NA           MW-2         05/09/95         2,000         46         24         21         61         NA           MW-2         08/21/95         910         11         <0.5								<30
MW-2         03/17/94         1,300         37         1.3         12         26         NA           MW-2         06/22/94         6,200         340         14         38         130         NA           MW-2         09/15/94         Not sampled - well dry         09/15/94         2,300         76         3.2         9.5         35         NA           MW-2         12/28/94         2,300         76         3.2         9.5         35         NA           MW-2         03/29/95         3,700         140         14         29         95         NA           MW-2         05/09/95         2,000         46         24         21         61         NA           MW-2         08/21/95         910         11         <0.5		10/20/93	10,000	310	24	220	560	NA
MW-2         06/22/94         6,200         340         14         38         130         NA           MW-2         09/15/94 Not sampled - well dry         32         9.5         35         NA           MW-2         12/28/94         2,300         76         3.2         9.5         35         NA           MW-2         03/29/95         3,700         140         14         29         95         NA           MW-2         05/09/95         2,000         46         24         21         61         NA           MW-2         08/21/95         910         11         <0.5		03/17/94	1,300	37				
MW-2         09/15/94         Not sampled - well dry           MW-2         12/28/94         2,300         76         3.2         9.5         35         NA           MW-2         03/29/95         3,700         140         14         29         95         NA           MW-2         08/21/95         910         11         <0.5				340				
MW-2         03/29/95         3,700         140         14         29         95         NA           MW-2         05/09/95         2,000         46         24         21         61         NA           MW-2         08/21/95         910         11         <0.5		09/15/94	Not sampled -	well dry				11/4
MW-2         03/29/95         3,700         140         14         29         95         NA           MW-2         05/09/95         2,000         46         24         21         61         NA           MW-2         08/21/95         910         11         <0.5					3.2	9.5	35	NΔ
MW-2         05/09/95         2,000         46         24         21         61         NA           MW-2         08/21/95         910         11         <0.5		03/29/95	3,700	140				
MW-2         08/21/95         910         11         <0.5         8.5         8.9         <10           MW-2         11/14/95         860         5.8         0.97         6.0         7.0         10           MW-2         01/18/96         470         3.5         <0.5			2,000	46	24			
MW-2         11/14/95         860         5.8         0.97         6.0         7.0         10           MW-2         01/18/96         470         3.5         <0.5         2.2         2.0         NA           MW-2         05/10/96         420         0.86         <0.5         1.2         1.5         NA           MW-2         08/14/96         <50         <0.5         <0.5         <0.5         <0.5         NA           MW-2         11/22/96         870         1.5         <0.5         2.2         2.4         <30           MW-2         02/11/97         210         1.4         <0.5         1.5         <0.5         <30           MW-2         02/06/98         <50         <0.5         <0.5         <0.5         <0.5         <30           MW-3         10/20/93         110,000         4,800         3,000         2,600         12,000         NA           MW-3         10/20/93         110,000         4,800         3,000         2,600         12,000         NA           MW-3         06/22/94         29,000         3,400         1,200         1,400         4,800         NA           MW-3         09/15/94			910	11				
MW-2         01/18/96         470         3.5         <0.5         2.2         2.0         NA           MW-2         05/10/96         420         0.86         <0.5				5.8	0.97			
MW-2         05/10/96         420         0.86         <0.5         1.2         1.5         NA           MW-2         08/14/96         <50				3.5	<0.5			
MW-2         08/14/96         <50         <0.5         <0.5         <0.5         <0.5         NA           MW-2         11/22/96         870         1.5         <0.5				0.86	<0.5	1.2		
MW-2         11/22/96         870         1.5         <0.5         2.2         2.4         <30           MW-2         02/11/97         210         1.4         <0.5				<0.5	<0.5			
MW-2         02/11/97         210         1.4         <0.5         1.5         <0.5         <30           MW-2         02/06/98         <50				1.5	<0.5			
MW-2         02/06/98         <50         <0.5         <0.5         <0.5         <0.5         <30           MW-3         10/20/93         110,000         4,800         3,000         2,600         12,000         NA           MW-3         03/17/94         47,000         1,700         570         1,400         4,800         NA           MW-3         06/22/94         29,000         3,400         1,200         1,400         4,900         NA           MW-3         09/15/94         34,000         3,500         930         1,800         5,700         NA           MW-3         12/28/94         45,000         2,700         1,400         2,000         6,800         NA           MW-3         03/29/95         7,500         120         54         45         410         NA           MW-3         05/09/95         22,000         1,000         700         680         3,300         NA           MW-3         08/21/95         1,300         33         29         30         110         <10				1.4	<0.5	1.5		
MW-3         10/20/93         110,000         4,800         3,000         2,600         12,000         NA           MW-3         03/17/94         47,000         1,700         570         1,400         4,800         NA           MW-3         06/22/94         29,000         3,400         1,200         1,400         4,900         NA           MW-3         09/15/94         34,000         3,500         930         1,800         5,700         NA           MW-3         12/28/94         45,000         2,700         1,400         2,000         6,800         NA           MW-3         03/29/95         7,500         120         54         45         410         NA           MW-3         05/09/95         22,000         1,000         700         680         3,300         NA           MW-3         08/21/95         1,300         33         29         30         110         <10	MW-2	02/06/98	<50	<0.5	<0.5			
MW-3         03/17/94         47,000         1,700         570         1,400         4,800         NA           MW-3         06/22/94         29,000         3,400         1,200         1,400         4,900         NA           MW-3         09/15/94         34,000         3,500         930         1,800         5,700         NA           MW-3         12/28/94         45,000         2,700         1,400         2,000         6,800         NA           MW-3         03/29/95         7,500         120         54         45         410         NA           MW-3         05/09/95         22,000         1,000         700         680         3,300         NA           MW-3         08/21/95         1,300         33         29         30         110         <10								
MW-3         03/17/94         47,000         1,700         570         1,400         4,800         NA           MW-3         06/22/94         29,000         3,400         1,200         1,400         4,900         NA           MW-3         09/15/94         34,000         3,500         930         1,800         5,700         NA           MW-3         12/28/94         45,000         2,700         1,400         2,000         6,800         NA           MW-3         03/29/95         7,500         120         54         45         410         NA           MW-3         05/09/95         22,000         1,000         700         680         3,300         NA           MW-3         08/21/95         1,300         33         29         30         110         <10			110,000	4,800	3,000	2,600	12.000	NA
MW-3         06/22/94         29,000         3,400         1,200         1,400         4,900         NA           MW-3         09/15/94         34,000         3,500         930         1,800         5,700         NA           MW-3         12/28/94         45,000         2,700         1,400         2,000         6,800         NA           MW-3         03/29/95         7,500         120         54         45         410         NA           MW-3         05/09/95         22,000         1,000         700         680         3,300         NA           MW-3         08/21/95         1,300         33         29         30         110         <10								
MW-3         09/15/94         34,000         3,500         930         1,800         5,700         NA           MW-3         12/28/94         45,000         2,700         1,400         2,000         6,800         NA           MW-3         03/29/95         7,500         120         54         45         410         NA           MW-3         05/09/95         22,000         1,000         700         680         3,300         NA           MW-3         08/21/95         1,300         33         29         30         110         <10					1,200			
MW-3         12/28/94         45,000         2,700         1,400         2,000         6,800         NA           MW-3         03/29/95         7,500         120         54         45         410         NA           MW-3         05/09/95         22,000         1,000         700         680         3,300         NA           MW-3         08/21/95         1,300         33         29         30         110         <10								
MW-3         03/29/95         7,500         120         54         45         410         NA           MW-3         05/09/95         22,000         1,000         700         680         3,300         NA           MW-3         08/21/95         1,300         33         29         30         110         <10						2,000		
MW-3         05/09/95         22,000         1,000         700         680         3,300         NA           MW-3         08/21/95         1,300         33         29         30         110         <10					54			
MW-3         08/21/95         1,300         33         29         30         110         <10           MW-3         11/14/95         22,000         860         550         770         3,100         <200						680		
MW-3         11/14/95         22,000         860         550         770         3,100         <200           MW-3         01/18/96         19,000         800         570         590         2,100         NA           MW-3         05/10/96         1,200         76         8.5         7.7         92         NA           MW-3         08/14/96         1,100         25         8.7         16         80         NA           MW-3         11/22/96         1,900         59         39         46         220         <30				33	29	30		
MW-3         01/18/96         19,000         800         570         590         2,100         NA           MW-3         05/10/96         1,200         76         8.5         7.7         92         NA           MW-3         08/14/96         1,100         25         8.7         16         80         NA           MW-3         11/22/96         1,900         59         39         46         220         <30					550	770		
MW-3         05/10/96         1,200         76         8.5         7.7         92         NA           MW-3         08/14/96         1,100         25         8.7         16         80         NA           MW-3         11/22/96         1,900         59         39         46         220         <30           MW-3         02/11/97         3,900         150         61         120         450         <30           MW-3         02/06/98         180         2.9         <0.5         2.9         9.1         <30           MW-3         07/21/08         700         10         10         10         2.9         9.1         <30						590		
MW-3     08/14/96     1,100     25     8.7     16     80     NA       MW-3     11/22/96     1,900     59     39     46     220     <30					8.5	7.7		
MW-3     11/22/96     1,900     59     39     46     220     <30					8.7	16		
MW-3 02/11/97 3,900 150 61 120 450 <30 MW-3 02/06/98 180 2.9 <0.5 2.9 9.1 <30 MW-3 07/21/09 700 100 100 100 100 100 100 100 100 100					39	46		
MW-3 02/06/98 180 2.9 <0.5 2.9 9.1 <30			·		61	120		
MM/ 2   07/21/00   700   40   40								
	MW-3	07/31/98	780	16	4.7	25		

# Groundwater Analytical Data 2730 Old First Street, Livermore, CA

		T 2700 C	JIG THISCOLLEC	st, Liverniore			
Well	Data	TOUL			Ethyl-		
Number	Date Sampled	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
MW-4	05/09/95		2,500	1,800	1,200	5,000	NA
MW-4	08/21/95	<del></del>	99	60	57	140	<10
MW-4	11/14/95		2,600	1,600	1,600	4,500	<200
MW-4	01/18/96		1,400	790	800	2,100	NA
MW-4	05/10/96		1,900	890	770	2,200	NA
MW-4	08/14/96		700	200	350	800	NA
MW-4	11/22/96		1,000	530	600	1,700	<600
MW-4	02/11/97		1,000	620	790	2,500	<600
MW-4	02/06/98	1,700	220	110	34	220	<30
MW-4	07/31/98	14,000	810	530	640	1,600	<25
1414/5	05/00/05						
MW-5	05/09/95	2,000	100	95	67	310	NA
MW-5	08/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-5	11/14/95	<50	<0.5	0.93	<0.5	1.8	<10
MW-5	01/18/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-5	05/10/96	<50	<0.5	<0.5	<0.5	1.7	NA
MW-5	08/14/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-5	11/22/96	90	2.1	4.6	2.6	12	<30
MW-5	02/11/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-5	02/06/98	<50	<0.5	<0.5	<0.5	<0.5	<30
17141.0	05:00 05						
MW-6	05/09/95	850	54	47	35	160	NA
MW-6	08/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-6	11/14/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-6	01/18/96	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-6	05/10/96	<50	0.99	1.0	0.98	3.3	NA
MW-6	08/14/96	<50	<0.5	√ <0.5	<0.5	<0.5	NA
MW-6	11/22/96	<50	0.64	0.85	0.43	1.4	<30
MW-6	02/11/97	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-6	02/06/98	No Long	er Sampled				
MOL							
MCLs		NA	1.0	NA	680	1,750	
DWAL		NA	NA	100	NA	NA	
MTDC 14							
	ethyl-tert-bu		<u></u>				
ICHG = 10	iai retroleu	m Hydrocarbon	as gasoline				
DWAL 5	opted Maxi	mum Contamin	ant Levels in	Drinking Wa	ter		
DVVAL = H	ecommende	ed Drinking Wa	ter Action Lev	/el			
NA = Not A							
ppo = pans	per billion	<u> </u>					

Site Name; Former Texaco S/S   Completed By: Sarkis Soghomonian   Date Completed: 12/8/1997   1 C   Calculation Option: 3			RBCA SITE	E ASSESSI	/IENT					Tier 2 W	orksheet 9.		
Site Location: 2730 Old First St., Livemore, CA   Date Completed: 12/8/1997   Target Risk (Class A & B) 1.0E-6	Site Name;	Former Texaco S/S		Completed 5	By: Sarkis Soc			100 100				•	
Target Risk (Class A & B) 1.0E-6	Site Locatio	n: 2730 Old First St., Livermore, CA										1 OF 1	
CAS No.   Name   (mg/kg)   Residential: (on-site)   (on-site)			LUES	Target Risk (Class C) 1.0E-5 PEL exposure limit?									
CONSTITUENTS OF CONCERN         Representative Concentration         Soil Leaching to Groundwater         X         Ingestion, Inhalation and Dermal Contact         X         Construction Worker         Applicable SSTL         SSTL Exceeded ?         Required Contact           CAS No.         Name         (mg/kg)         Residential: (on-site)         Commercial: (on-site)         Commercial: (on-site)         Commercial: (on-site)         Commercial: (on-site)         (mg/kg)         "■" If yes Only if "yes Only if		•			SSTL Result	ts For Complete Ex	posure Pathwa	ays ("x" if Comp	olete)	- · · · · · · · · · · · · · · · · · · ·			
CAS No.         Name         (mg/kg)         (on-site)         (on-si	CONSTITUE	ENTS OF CONCERN	-				1 4 2 1 2 1 1		Construction		Exceeded	Required CRF	
71-43-2 Benzene-CA       5.0E-3       NA       NA       NA       NA       NA       9.2E-1       3.3E+1       9.2E-1       □       <1	CAS No.	Name	(mg/kg)			,		1	1	(mg/kg)	"■" if ves	Only if "yes" left	
100-41-4 Ethylbenzene       5.0E-3       NA       NA       NA       NA       NA       NA       NA       NA       NA       Res       >Res       □       <1	71-43-2	Benzene-CA	5.0E-3	NA	NA	NA	NA	9.2E-1	3.3E+1				
1634-04-4     Methyl t-Butyl Ether     3.0E-1     NA     NA     NA     NA     1.7E+2     2.4E+2     1.7E+2     □     <1       108-88-3     Toluene     5.0E-3     NA     NA     NA     NA     NA     >Res     >Res     >Res     □     <1	100-41-4	Ethylbenzene	5.0E-3	NA	NA	NA	NA	>Res	>Res		·	<1	
108-88-3 Toluene 5.0E-3 NA NA NA NA >Res >Res >Res □ <1	1634-04-4	Methyl t-Butyl Ether	3.0E-1	NA	NA	NA	NA	1.7E+2		<del></del>	<del> </del>		
	108-88-3	Toluene	5.0E-3	NA	NA	NA	NA				· · · · · · · · · · · · · · · · · · ·	·	
1330-20-7   Xylene (mixed isomers)	1330-20-7	Xylene (mixed isomers)	5.0E-3	NA	NA	NA	NA			<del> </del>			

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Software: GSI RBCA Spreadsheet Version, v 1.0

Serial: G-411-EHX-166

**	-	RBCA SIT	E ASSESSI	MENT						Tier 2 Workshi	eet 9.2	
	Former Texaco S/S i: 2730 Old First St., Livermore, CA			y: Sarkis Sogh ted: 12/8/1997	omonian							1 OF 1
SI	JBSURFACE SOIL SSTL (> 3 FT BGS)	VALUES	Targe	k (Class A & B) t Risk (Class C) lazard Quotient	1.0E-5		posure limit? posure limit?		Calc	ulation Option	: 3	
	, , , , , , ,	<del> </del>	go		Results For Compl	lete Exposure	Pathways ("x" if	Complete)				
CONSTITUE	NTS OF CONCERN	Representative Concentration	Soi	Leaching to	Groundwater	Soil	Volatilization to Indoor Air	1	olatilization to	Applicable SSTL	SSTL Exceeded 1	Required CRF
CAS No.	Name	(mg/kg)	Residential: (on-site)	Commercial: (on-site)	Regulatory(MCL): (on-site)	Residentia (on-site)	: Commercial: (on-site)	Residential: (on-site)	Commercial: (on-site)	(mg/kg)	"■" If yes	Only if "yes" left
71-43-2	Benzene-CA	3.0E-2	NA	NA	NA	NA	NA	NA	3.0E+0	3.0E+0		<1
100-41-4	Ethylbenzene	4.5E-2	NA	NΑ	NA .	NA	NA	NA	>Res	>Res		.<1
	Methyl t-Butyl Ether	3.0E-1	NA	NA	NA	NA	NA	NA	>Res	>Res		<1
108-88-3	Toluene	4.6E-2	NA	NA	NA	NA	NA	NA	>Res	>Res		<1
1330-20-7	Xylene (mixed isomers)	8.0E-2	NA	NA	NA	NA	NA	NA	>Res	>Res		<1

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Software: GSI RBCA Spreadsheet Version: v 1.0

Senal: G-411-EHX-166

City No.		RBC	A SITE AS	SESSMENT						Tier 2 Wo	rksheet 9.3	
	Former Texaco S/S n: 2730 Old First St., Livermore, CA			ly: Sarkis Sogi eted: 12/8/1991								1 OF 1
	GROUNDWATER SSTL VA	LUES	Targe	ik (Class A & B) t Risk (Class C) lazard Quotient	1.0E-5		posure limit? posure limit?	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Calcu	ulation Option	: 3	7 0, 1
	•	_				iplete Exposu	re Pathways ("x" if	Complete)	-		· · · · · · · · · · · · · · · · · · ·	·
CONSTITUE	NTS OF CONCERN	Representative Concentration		Groundwater	Ingestion	1 !	water Volatilization o Indoor Air	1 1	er Volatilization i	Applicable SSTL	SSTL Exceeded ?	Required CRF
CAS No.	Name	(mg/L)	Residential: (on-site)	Commercial: (on-site)	Regulatory(MCL): (on-site)	Residential (on-site)	Commercial:	Residential (on-site)	Commercial (on-site)	(mg/L	" <b>=</b> " If yes	Only if "yes" left
	Benzene-CA	1.3E-2	NA	NA	NA	NA	NA	NA	1.1E+2	1.1E+2		<1
100-41-4	Ethylbenzene	7.4E-3	NA	NA	NA	NA	NA	NA	>Sol	>Sol		<1
1634-04-4	Methyl t-Butyl Ether	5.0E-4	NA	NA	NA.	NA	NA	NA	>Sol	>Sol		<1
108-88-3	Toluene	9.0E-3	NA	NA	NA	NA	NA	NA	>Sol	>Sol		<1
1330-20-7	Xylene (mixed isomers)	2.1E-2	NA	NA	NA	NA	NA	NA	>Sol	>Sol		<1

Software: GSI RBCA Spreadsheet Version. v 1 0

Serial, G-411-EHX-166

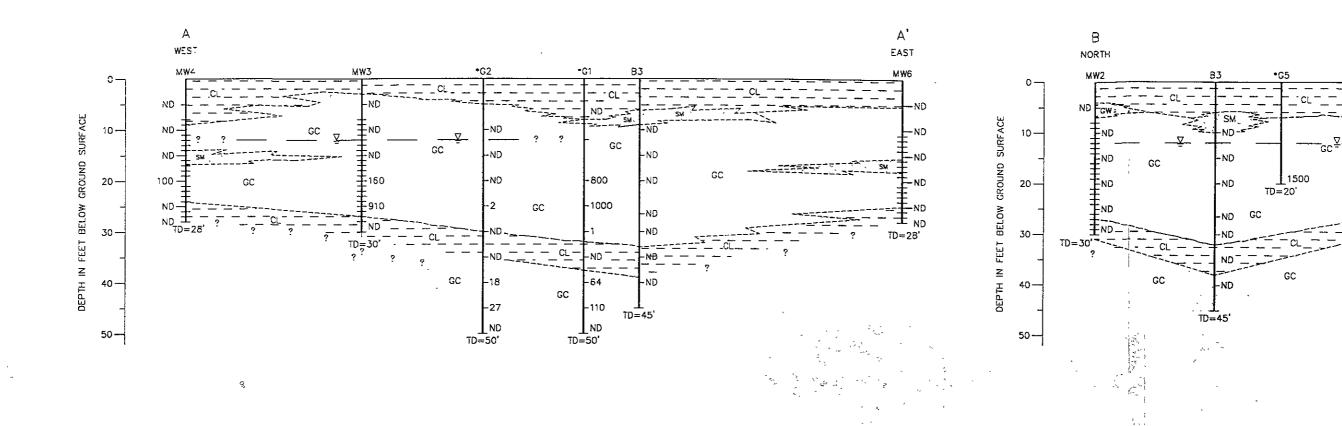
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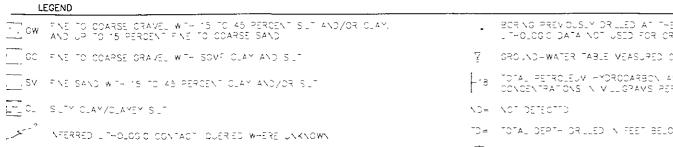
			RBCA SITE	ASSESSM	ENT.			-				ler 2 Worksin	et 12	
2	Site Nerne: 0			Completed 9	y, michelle sh	Þρ								
9	ita Location: (	3		Date Complet	lock 1/1/1904									10F1
				Target Red	k (Class A B B)	1.05-8		MCL copo	ours limit?		Ca	izdalizn Option	: 1	
	SU	BSURFACE SOIL SSTL	VALUES	Target	File (Class C)	1,06-5	П	PEL copor	ure limit?					
ĺ		(> 3.3 FT BGS)		Target H	komi Osofini	1.0640								
1 -					2571	Results For Comp	late I	apoeure Pa	these ('X' If C	emplete)				
١,	CONSTITUEN	ITS OF CONCERN	Zapresentative Consomiration	Şoil	Leading to	<b>Organizator</b>	x		atilization to loor Air		indification to idoor Air	Applicable SSTL	SSTL Exceeded ?	Required CFF
1	AB Wo.		(mpflep)	Residential:	(Commercial;	Regulatory(MCA): (constant)		aldenia: un-Maj	Commodil:	Fenderia; (m-site)	Convertait: (00-484)	ineral	"M" If you	Only If "yes" left
Ħ		Benzene-CA	3.0E-2	NA	NA.	NA .		NA	23E-2	NA.	NA	2.3E-2	#	1.0€+00
If		Ethylbenzene	4.5E-2	NA.	NA	NA.		NA	>Res_	N/A	NA	>Res		ব
П	1634-04-4	Methyl t-Butyl Ether	3.0E-1	NA	NA	NA		NA	7.0E+2	NA	NA	7.0E+2	U	<1
$I \Gamma$	108-88-3	Toluene	4.8E-2	NA	NA	NA		NA.	9.3 <del>E+</del> 1	NA	NA	9.3E+1		<1
Ħ	1330-20-7	Xylene (mixed isomers)	8.0E-2	NA.	NA.	NA		NA	>Res	NA	NA.	>Res		<1
L				>Pen	indicates ris	chased target cur	cond	allon oraș	ior than constitu	uent residuel s	ohicalion salue			<del></del>

Software: GSI RBCA Spreadsheet Version: 1.0.1

Serial: g-309-0ex-828

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CROSS-SECTIONS A-A' AND B-B' FORVER TEXACO SERVICE STATION 2730 OLD 1ST STREET LIVERMORE, CALIFORNIA PROJECT NUMBER 9580702600

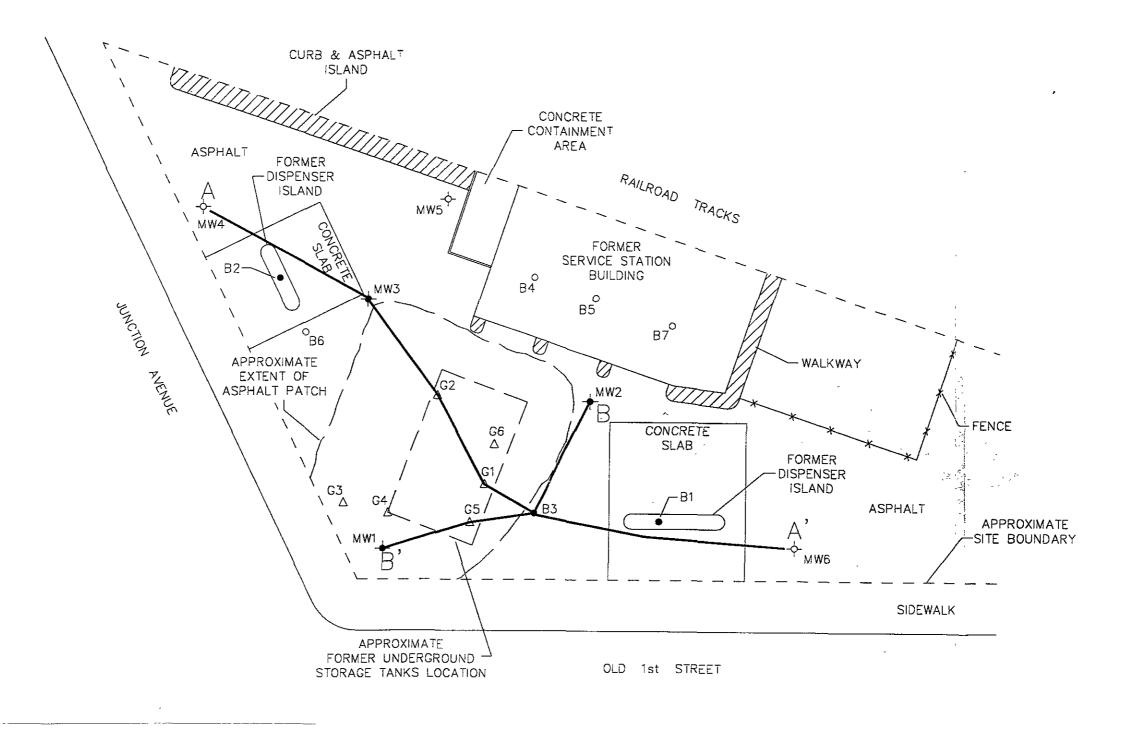
DATE 05/23/95 CKD BY FILE NO. H00400-3

F.GURE NO 16 DRAWN BY SNASH

B'

SOUTH

₹_{ND}



LEGEND

CS A SOL BORING OR LED BY PREVIOUS CONSULTANT

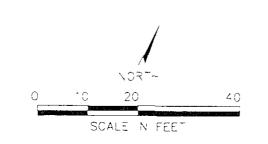
B1 SOL BORNO LOGATION NSTALLED, BY DEGRESSARD, 1998

VW2 VON ORING WELL LOCATION AND DESIGNATION → NST4 - 2 34 CEORESEARCH, 1990

B60 SOL BORNG LOCATION NSTALLED BY GEORESEARCH, 1995

VW4 VON TORING WELL LOCATION AND DISIGNATION.
ON INSTALLED BY GEORESEARCH, 1995

A_A' LNE OF SECTION





STE PLOT PLAN
FORVER TEXACO SERVICE STATION
2730 OLD 1st STREET
L'VERMORE, CALIFORNIA
PROJECT NUMBER 9580702600

DATE 05/23/95 CKD BY FILE NO H00400-2

FIGURE NO: 2 5 DRAWN BY: S NASH

Tue to drillers not bringing

deaner as requested,

Š

FIELD o G BHEET LOCATION OF BORING PROJECT NO. & PROJECT NAME PROJECT LOCATION CLIENT DRILL HOLE NO. DRILLING CO./FOREMAN DRILLING START END DATE/TIME DRILLING METHOD/RIG MODEL ELEVATION -DATUM -SAMPLING METHOD(S) TOTAL DEPTH -WATER LEVEL DATE TIME GEOLOGIST SEC - TOWNSHP - RANGE GEOPHYS. LOGS: NO. SAMPLES | C-O-C NO. | C-O-C RELEASE DATE/TIME OTHER LABORATORY SAMPLE S TYPE & P NUMBER T 0000 MAME DENSE COLOR MOIST DESCRIPTION AND REMARKS FEET GH-9 Back fill Med Bry Moist GA-10 30 SW Deuse TD-20 BACK Fill Moterial unable to recover sample GAII 3 Moist Churcy Grand V Derise Med B.N Gy GW Dry TD

### **FIELD LOG OF BORING**

BORING/WELL I.D. B4
SHEET 1 OF 1

							J LOG O	4 <u>DVI</u>	4 <u>1114</u>				
PROJEC	T NAMF	E				CT NUM			TION AND DATUM	/ REFER	RENCE		
TEXACO:			·		958070	02600							
DRILLING					DRILLE	≟R		DATE &	TIME STARTED		DATE & TI	IME CON	MPLETED
PRECISI			<u></u> ذ		MIKE			3/21/9	95 10:30 AM		3/21/95	11:0	0 AM
			METHOD	· I	TION OF BO	_			,	TOTAL DI		<del></del>	
XD-1 SA				<b>▼VERT</b>	TICAL	SLA'	NT	г	DEG. FROM VERT	OF BORI	NG 10 F	T BGS	
SIZE AN			(				TAL NO.		BULK	SS		OTHER	R
			L DRIVE	PIPE		OF E	SAMPLES 2	·	ļ		· —	2	
DRILLING				1			TER LEVEL		FIRST		AFTER	<del></del>	HOURS
NONE	•			_	_		<u></u>						
	R CON	NTINUOU	US CORE			HYD	DROGEOLOG	GIST/DAT	E		CHECKE	ED BY/D/	ATE
				DROF	· D								5/22/95
TYPE		DRIVIN	TG VV 1.				CHAEL GUY	1	1		WARRELL	GRUDE	7 5/24/33
1	WEL			) o	SAMPLES		,	· · · ·	35000			!	1
DEPTH			OVA	L		SING		SOIL	ι .	PTION OF	MATERIALS	,S 1	REMARKS
(FEET)	CSG	FILL	(PPM)	NO.	TYPE B	BLOWS /6"	LOG	(USCS)				,	
<u> </u>	<b></b>		<del> </del>	<u> </u>			5.5 × 1/1	AF	ARTIFICIAL FI	TIJ. Con	crete.		1
				<u> </u>		<i>.</i>		3				,	
_		,		F '		-		ML	SILT, dark ye slightly mois	st, stiff	f, minor	,	1
				E '	115	-	-	ıl '	concrete, deb			.vel.	
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5	-[		0	B4~5		-		d ·	Sampler drive				1.
1			ľ			_		d ·	recovery betw	ween 4 an	nd 7 ft bo	ogs.	1
	-[			F ,	11	-		d ·	No hydrocarbo	m oau	notea	samp.c.	
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				<u></u>	11	-		d	F			,	1
10			0	<u>B4</u> -10		·	ШШШи	1	Sampler drive				1
_	-			E .	-	-			recovery betw Boring termin				1
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**FIELD LOG OF BORING** 

BORING/WELL I.D. B5
SHEET 1 OF 1

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PROJEC	T NAME	Ξ	•		PROJEC	T NUN	MBER	ELEVAT	TON AND DATUM	REFER	ENCE		
TEXACO	LIVE	RMORE			958070	2600							
DRILLIN	G COM	PANY			DRILLE	₹		DATE &	TIME STARTED		DATE & TI		
PRECEIS					MIKE			3/21/9	5 9:30 AM		3/21/95	10:3	O AM
DRILLIN	G EQUII	PMENT	METHOD	l	TION OF BO				_	TOTAL D			
XD-1 SA				x VER	TICAL L				EG. FROM VERT		VG 10 F		
SIZE AN	D TYPE	OF BIT				1	AL NO.		BULK	SS		OTHER	R
ENVIRO	ORE 2	STEEL	DRIVE	PIPE		+	AMPLES 2					2	
DRILLIN	G FLUIC	)				WAT	ER LEVEL		FIRST		AFTER	H	HOURS
NONE						1							····
SAMPLE	R CON	TINUOU	S CORE			HYD	ROGEOLOG	SIST/DATE	Ē		CHECKE	:D BY/D/	ATE
TYPE		DRIVIN	IG WT.	DRO	Р	місн	AEL GUY	3/21/95			WARREN	GROSS	
	WE	LL		S	AMPLES					•			
DEPTH	CON	IST	OVA				GRAPH.	SOIL	DESCRIF	PTION OF	MATERIAL	s	REMARKS
(FEET)	CSG	FILL	(PPM)	NO.	TYPE B	LOWS	7	CLASS					
						/6"		(USCS)					
					-		高溪	AF	ARTIFICIAL FI	LL, conc	rete.		
-				<u>-</u>				ML	SILT, dark ye				
				F					slightly mois concrete debr			el.	
_				E							2110 9241		
   				F	-				<u> </u>			;	
									 			i	
5_			0	B5-5	N.	<u></u>							
									Grades to sil		inor fine	e	
-				-	-				gravel at 6 f	t bgs.		1	
				_									
_				-					<u> </u>				
_				_	1 I F				Ë			;	
10			0	B5-10	N.	<u>.</u>			Rock encounte				
									recovery betw No hydrocarbo				
_ 				E					Boring termin				
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FIELD LOG OF BORING

BORING/WELL I.D. B6 SHEET 1 OF 2

PROJEC	T ALAM				PPO IEC		40C0			- OI 12		<u></u>	
ı					PROJEC		MBEH	LELEVA	TION AND DATUM	REFER	ENCE		
TEXACO					958070			<u> </u>	<del></del>				
DRILLIN	IG COM	PANY			DRILLEF	₹		DATE 8	TIME STARTED	į	DATE & TIME	E CO	MPLETED
PRECIS					MIKE			4/28/9	5 10:00 AM		4/28/95	12:3	0 PM
DRILLIN	IG EQUI	PMENT	METHOD	I	TION OF BO				,	TOTAL DE	EPTH		_
XD-1 S	AMPLIN	G RIG		x VER	TICAL L	SLA	NT		DEG. FROM VERT	OF BORIN	VG 28 FT E	BGS.	
SIZE AN	ID TYPE	OF BIT	•				AL NO.		BULK	SS		THE	···
ENVIRO	CORE 2	" STEE	L DRIVE	PIPE		OF S	SAMPLES 6				6		• •
DRILLIN	G FLUI	)				_	ER LEVEL		FIRST		AFTER		HOURS
NONE											ALTER		TOURS
	B cox	וחדאזוחו	JS CORE	·	· · · · · · · · · · · · · · · · · · ·	HVD	ROGEOLOG	SIGT/DATI	=		OUTOURD :		
						'''	HOGEOLOG	ALO I/OATI	_		CHECKED E	3Y/D	ATE
TYPE		DRIVIN	IG WT.	DRO	p	MICH	AEL GUY	4/28/95			WARREN GRO	oss	5/22/95
	WE	LL		S	AMPLES			<u> </u>					
DEPTH	CON	IST	OVA				GRAPH.	SOIL	DESCRIB	TIONIOE	MATERIALS		B=1.4.=
(FEET)	CSG	FILL	(PPM)	NO.	TYPE BL	ows	LOG	CLASS	DESCRIP	HON OF N	MATERIALS		REMARKS
	1	1	]			/6"		(USCS)					
ļ		<del> </del>			<u> </u>		1.1. KY	AF	ARTIFICIAL FI	J. aspha	a ] f		<u> </u>
								ML	SILT, dark ye	llowish	brown, sti	ff,	
-					-				slightly moist fine gravel.	, minor	clay, trac	!e	
_		]							Time graver.				
		}		<b>-</b>	-				_				
				<u> </u>					<b>-</b>				
5			0	<del>B</del> 6-5					No hydrocarbon	odor no	sted.		
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_							ШШЩ	_	<del>-</del>				
\		ĺ	•	_				GC	CLAYEY GRAVEL, brown, fine, m	moderat	e yellowis	h	
-		ļ		_					some clay, fin	e to coa	rse sand.	′	
-	i								trace coarse g	ravel an	ıd silt.		
				-		1	1.5.5%						
10			0	B6-10					<del>_</del>			İ	
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			[	_				Ì	Becomes wet at	14 ft b	gs.	1	
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20			10	<del>-</del>		-		[	_			- 1	
<del>-</del>			10	B6-20		- 1		ŀ	Slight hydroca:	rbon			
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			}	_	-	ļ.		ML	CLAVBY CTT		2.3		
	ł	- 1	ł	_ [	-	[		-	CLAYEY SILT, mo brown, stiff, w	oderate y vet. med	yellowish hum		
25		ŀ	2	B6-25					plasticity.	-, mad.			

**FIELD LOG OF BORING** 

BORING/WELL I.D. B6
SHEET 2 OF 2

PROJEC	T NAME				PRO	IECT NUM	BER	HYDRO	EOLOG	SIST	CHECKED BY/DAT	E
TEXACO		RMORE			9580	702600		MICHAEI	GUY	4/28/95	WARREN GROSS	/22/95
	WE			S	AMPLES	3						
	1		OVA				GRAPH.	SOIL		DESCRIPTION OF	MATERIALS	REMARKS
DEPTH (FEET)		FILL	(PPM)	NO.	TYPE	BLOWS	LOG	CLASS	,			
(1 22.17					<del></del>	/6*	<del></del>	(USCS)	<u> </u>			
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_			0	B6-28					Boring	g terminated at	28 ft bgs.	
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FIELD LOG OF BORING

BORING/WELL I.D. B7
SHEET 1 OF 1

PROJEC	MAN TO	Ē			PROJ	JECT	NUM	1BER	ELEVAT	TION AND DATUM	REFER	RENCE		
TEXACO	: LIV	ERMORE			9580	702	600							
DRILLIN					DRILL	.ER			DATE &	TIME STARTED		DATE & TIN	AE CON	MPLETED
PRECIS	ION SAI	MPLING			MIKE				3/21/9	5 4:10 PM	E	3/21/95	5:20	PM
			METHOD	DIREC	TION OF	BOF	RING				TOTAL D			
XD-1 S				<b></b> ✓ VER	ΓΙCAL		SLAN	NT		DEG. FROM VERT	OF BORI	NG 9 FT	BGS	
SIZE AN								AL NO.		BULK	SS		OTHER	 ₹
1			DRIVE	PIPE			of s	AMPLES 2					2	
DRILLIN					,		WAT	ER LEVEL		FIRST	<del></del>	AFTER		IOURS
NONE														
SAMPLE	R CON	TINUOU	S CORE			HYDROGEOLOGI				-		CHECKE	BY/D/	ATE
				556	_	į.								
TYPE		DRIVIN	GWI	DRO		MICHAEL GUY 3						WARREN G	ROSS	5/22/95
	WE	LL		S	AMPLES	MPLES								
DEPTH	CON	VST .	OVA		<b>,</b>					DESCRIF	PTION OF	MATERIALS		REMARKS
(FEET)	CSG	FILL	(PPM)	NO.	TYPE	YPE BLOWS LOG			CLASS (USCS)					
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-				-		┝		多多	Ar	ARTIFICIAL FI	ьь, conc	rete.		
_									SM	SAND, yellowi	sh grey,	fine,		
_			·	<u> </u>		<u> </u>				slightly mois fine to mediu	r, mediu m gravel	m-dense, : . and silt	minor	
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						BORING LOG	
,	No.	n.		Bo	ring Dia	meter 2"	Logged By 566 D.L. CE6/633
<u> </u>	-1102.			-	sing Dia		D.L. CEG/633
_		Former Street, L	Texaco S/S	We	ell Cover	r Elevation N/A	Date Drilled 12/11/96
Boring B8	No.				illing thod	Geo Probe Macrocore	Drilling Company Gregg Drilling
Pene- tration blows/6"	G.W. level	O.V.M. (ppm)	(feet) Samples	Stratig US	raphy CS	Desc	cription
		,			,	A.C.pavement over sand and gr	avel base.
		•		ML		Silt, estimated at 10-15% clay a inches in diameter, stiff, moist,	and 10-15% sand and gravel, gravel to 2 very dark grayish brown.
		0.0	5	GC		Clayey gravel with sand, estima 2 inches in diameter, dense, mo	ated at 15% clay, gravel to greater than ist, brown.
		0.0		GW- GM		Well graded gravel with silt and diameter, very dense, dry to slig	I sand, gravel to greater than 2 inches in ghtly moist, brown.
	0.0					Silty gravel with sand, estimate to greater than 2 inches in diam to wet, brown, some gravel is de	d at 15-20% silt and trace clay, gravel eter, very dense, slightly moist grading ecomposed.
						TOTAL	DEPTH: 17'

	_					BORING LOG	·
fect				Bo	oring Dia	imeter 2"	Logged By 766
EI-J96	-1102.	RI		Ca	sing Dia	meter N/A	D.L. LE 6 1633
Project	Name	Forme	r Texaco S/S	W	ell Cove	r Elevation	Date Drilled
2730 OI	d First	Street, L.	ivermore			N/A	12/11/96
Boring 1 B9	No.				illing ethod	Geo Probe Macrocore	<b>Drilling Company</b> Gregg Drilling
Pene- tration blows/6"	G.W. level	O.V.M. (ppm)	(feet) Samples		graphy SCS	Desc	ription
			0			A.C.pavement over sand and gra	avel base.
		0.0		ML			nd 10-15% sand and gravel, gravel to 2 stiff, moist, very dark grayish brown.
		0.0		GM	0000 0000 0000 0000	Silty gravel with sand, estimated very dense, moist, dark brown.	l at 15-25% silt, trace clay, dense to
		0.0		∃W- GM			sand, estimated at 5-15% silt, gravel to r, very dense, dry to moist, brown,
				SM		Silty sand, estimated at 20-30% fine to coarse-grained, medium of	silt, trace clay, sand is predominantly dense, moist, dark yellowish brown.
	GW GM					clay, gravel to greater than 2 inc	sand, estimated at 5-15% silt, trace hes in diameter, very dense, slightly wn, locally grades to silty gravel with
						TOTAL I	DEPTH: 16'

FIELD LOG OF BORING

BORING/WELL I.D. MW4
SHEET 1 OF 2

PHONE	) I IVAIVI	<b>-</b>				PROJE	:UI I	NUN	IBEH	Í		FLEVAI	HON AND DATU	М	REFER	ENCE		
TEXACO	: LIV	ERMORE	;			95807	0260	00							<u> </u>			
DRILLIN	IG COM	PANY			:	DRILLI	ER					DATE &	TIME STARTED	)		DATE & T	IME CO	MPLETED
PRECIS	ION SA	MPLING				MIKE						3/21/9	5 11:00 AM			3/21/95	1:00	) PM
DRILLIN	IG EQUI	PMENT	METHOD			ON OF E	30RII	NG						7	OTAL D	EPTH	· · ·	
XD-1 S	AMPLIN	G RIG		×ν	ERTIC	CAL	□s	SLAN	ΙT _				DEG. FROM VEF	ıΤ	OF BORII	VG 31 F	T BGS	
SIZE AN	D TYPE	OF BIT	-				T	OTA	AL NO	).		•	BULK		SS		OTHE	R
ENVIRO	CORE 2	STEE	L DRIVE	PIPE			o	OF S	AMP	LES (	6			6	;			
DRILLIN	G FLUIC	)					V	VATI	ER LI	EVEL			FIRST			AFTER	<del></del>	HOURS
NONE																		
SAMPLE	R CON	TINUOL	JS CORE				Н	IYDF	ROGE	EOLC	Gl	ST/DATE	=			CHECKE	ED BY/D	ATE
TYPE		DRIVIN	IG WIT	Di	ROP		\ м.	TOU	אנד	am	2	/21/95						
1111	Lur	<del></del>	T	1		101.50	11.	ICD/	AEL.	GUI		721/95	<del></del>			WARREN	GROSS	5/22/95
	WE				SAN	/IPLES												
DEPTH	COV		OVA		1_	vee I						SOIL.	DESCF	IPT	ION OF I	MATERIAL	s	REMARKS
(FEET)	csg	FILL	(PPM)	NO.		YPE	3LOV 6*		L	OG	•	CLASS (USCS)						
ļ	<u> </u>	ļ		<u> </u>					<del>, , ,</del>	- K'	ᆚ	AF	ARTIFICAL FI	T.T.	2002	i +-		
_					_	7	-	Ì	ΪÌ	ווווו	-	WI	SILT, dark y	ell	lowish	brown, m	oist,	
_				F			-						stiff, low p plasiticity,	las	sticity	, clay,	low	
=					Ì		-						fine to coar	se	gravel	, trace	coarse	
				-		1 -	-						sand.					:
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5			0	Mw4-5		N N	ĪΑ						_					
							<del>-</del>						<del></del>					
			ļ	$\vdash$		-	-					ŀ	Grade to cla	vev	silt.	some fi	ne to	
													coarse grave	l a	ind mine	or fine	to	
_				<u> -</u>		1 -	•						coarse sand	bet	ween 6	and 7 f	t bgs.	
			]			1	-	ļ	ЩШ	Ш٤	Ц	~	_					
_				_		1	-	ľ	P. C	2.0	1	3M	GRAVEL, mode fine to medi	rat um,	moist e yelle	owish bro . medium	own, -dense	
10			0	MW4-10		N	A		5	0'		]	some fine sa	nd	and cla	ay, trace	e ·	
_				<u> </u>		-	•		ò°.	, ,	1	}	coarse sand	and	coarse	e gravel	•	
										÷0			<del>-</del>					
				_		-			//	[/.]	۱,	ſ	SAND, dark y to coarse, m	ois	t, med:	ium-dens	е,	
] =			Ì						//	//	1	ļ	some clay, t	rac	e fine	to media	ım.	
_									//	//		ŀ	gravel. Bec and grades t	ome os	s wet a ome gra	at 13 ft avel at	bgs	
15			3	MW4-15		N	iα	1	//	//	1		14 ft bgs.				İ	
			]			T É		ŀ	Z.Z D. C	· Z·_	4	3W	SANDY GRAVEL	, a	ark ye.	llowish d	orange	i
-				<u> </u>		-			, O.	0.0		ļ	fine to coar trace silt a	se,	wet, 1	nedium de	ense	
				E				ľ	' n	· c	۱		<b>-</b>					
-				<u> </u>					0.	0	1	[	Grades to gr	eyi	sh oliv	ve at 17	.5 ft.	
_							-		~ ·	0 0 0	1	ŀ	<del></del>		/			
-				<u> </u>		] [		-		-0	ے ا	cr [	SILTY CLAY,					
20			48	พีพ4-20		N	Ā	Ŀ			-]`	ſ	brown, stiff	, w	et, med	l plastic	city.	
-				<b>-</b>		-		[0	7, 0	0.0	7	SM [	SANDY GRAVEL slight hydro	, g	reyish	olive a	nđ	
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_			60					h	Ŋή	ПП	M		CLAYEY SILT,	mo	derate	yellowis	sh	
			160	MW4-25		N	ÍΑ	- 11		11111	П	r	brown stiff		at 1 ar			

**FIELD LOG OF BORING** 

BORING/WELL I.D. MW4
SHEET 2 OF 2

**HYDROGEOLOGIST** CHECKED BY/DATE PROJECT NUMBER PROJECT NAME 9580702600 MICHAEL GUY 3/21/95 WARREN GROSS 5/22/95 LIVERMORE TEXACO: SAMPLES WELL REMARKS GRAPH. SOIL **DESCRIPTION OF MATERIALS** CONST OVA DEPTH CLASS TYPE BLOWS LOG (PPM) NO. CSG FILL (FEET) (USCS) ÑΑ MW4-30 <1 Boring terminated at 31 ft bgs.

GeoResearch BORING/WELL I.D. SHEET 1 OF 2 FIELD LOG OF BORING PROJECT NAME PROJECT NUMBER **ELEVATION AND DATUM** REFERENCE TEXACO: LIVERMORE 9580702600 DATE & TIME COMPLETED DATE & TIME STARTED DRILLER DRILLING COMPANY 3/21/95 1:30 PM 3/21/95 4:00 PM PRECISION SAMPLING MIKE TOTAL DEPTH DIRECTION OF BORING DRILLING EQUIPMENT METHOD DEG. FROM VERT SLANT _ OF BORING 28 FT BGS. VERTICAL XD-1 SAMPLING RIG TOTAL NO. **BULK** SS OTHER SIZE AND TYPE OF BIT OF SAMPLES 6 ENVIROCORE 2" STEEL DRIVE PIPE HOURS FIRST AFTER WATER LEVEL DRILLING FLUID NONE CHECKED BY/DATE HYDROGEOLOGIST/DATE SAMPLER CONTINUOUS CORE WARREN GROSS 5/22/95 MICHAEL GUY 3/21/95 DROP DRIVING WT. TYPE SAMPLES WELL **DESCRIPTION OF MATERIALS** REMARKS GRAPH. SOIL CONST OVA DEPTH CLASS LOG FILL (PPM) NO. TYPE BLOWS (FEET) CSG (USCS) /6" ARTIFICAL FILL, asphalt. ĀF SILT, dark yellowish brown, moist, MLstiff, low plasticity, some clay, trace fine to medium gravel and coarse sand. Grades to olive grey. ΝA 0 MW5-5 No hydrocarbon odor noted in the soil samples collected. GRAVEL, moderate yellowish brown, 0.0 fine to medium, moist, medium-dense some silt and clay, minor fine to 0 :000 coarse sand. 0.0 0 0.000 Sampler driven into rock. 50% MW5-10 NΑ 0 0.0. recovery between 7 and 10 ft bgs. .0.0 SILT, moderate yellowish brown, moist, stiff, low plasticity. GRAVEL, moderate yellowish brown, 0.0.0 Fine to medium, moist, medium-dense .0. ÑΑ some clay, minor fine to coarse MWS-15 2 0 :000 sand. 0 .0 0.00 0.00.0 0.00 Becomes wet at 13 ft bgs. 0.0.0 0.0. 20 ÑA 3 MW5-20 ,0.0 0.00 0.0.0

0.00

MW5~25

25

ML

CLAYEY SILT, moderate yellowish brown, stiff, wet, low plasticity.

Ge	UH	<b>U</b> S	<b>tal</b>	CH	FIELD	LOG O	F BOR	ING	BORING/WELL I.D. SHEET 2 0	MW5 F 2
PRO IFC	DJECT NAME ACO: LIVERMORE				PROJECT NUM			GEOLOGIST	CHECKED BY	/DATE
					9580702600		MICHAE	L GUY 3/21/95	WARREN GROS	S 5/22/95
, BARCU:			T	T	SAMPLES		[			
				'		GRAPH.	SOIL	DESCRIPTION	ON OF MATERIALS	REMARK
DEPTH	COL		OVA (PPM)	NO.	TYPE BLOWS	LOG	CLASS	22001111111	The state of the state of the state of	
(FEET)	CSG	FILL	(PPIVI)	NO.	/6"	<u></u>	(USCS)	ļ <u>.</u>		
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**FIELD LOG OF BORING** 

BORING/WELL I.D. MW6
SHEET 1 OF 2

PROJECT NAME PROJECT NUM	IBER ELI	EVATION AND DATUM	REFER	ENCE		
TEXACO: LIVERMORE 9580702600			<u> </u>		****	
DRILLING COMPANY DRILLER	DA	TE & TIME STARTED		DATE & TIN	VE COV	<b>IPLETED</b>
PRECISION SAMPLING MIKE	4/2	28/95 8:10 AM		4/28/95	9:45	AM
DRILLING EQUIPMENT METHOD DIRECTION OF BORING		,	TOTAL D			
XD-1 SAMPLING RIG XVERTICAL SLAN		DEG. FROM VERT		NG 31 FT		
OIZE / (III)	AL NO.	BULK	SS		OTHER	₹
MAAINOCOND E DIE	SAMPLES 5	FIRST	<del></del>	TALTED	5	IOUDC
DRILLING FLUID WATE	ER LEVEL '	FIRST		AFTER	-	IOURS
NONE	ROGEOLOGIST/			CHECKE	) BV/D	ATE
SAMPLER CONTINUOUS CORE HYDI	HOGEOLOGIS I/	DATE		OFFICINE	יטוז ט כ	MIE
TYPE DRIVING WT. DROP MICH	AEL GUY 4/28	8/95		WARREN C	ROSS	5/22/95
WELL SAMPLES						
DEPTH CONST OVA	GRAPH. SOI		TION OF	MATERIALS	;	REMARKS
(FEET) CSG FILL (PPM) NO. TYPE BLOWS		ASS   SCS)				
/6"	IN AF	ARTIFICIAL FI	LT. acah	121 F		
		SILT, dark ye	llowish	brown, st		
		slightly mois	t, minor	clay and	fine	
	!!!!!!!!!!!!	-				
5 - <1 MW6-5		<u> </u>				
	11111111111					
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	h m m d GM					
	, o ,	brown, fine, some clay, mis				
	á . ° .	sand.				
10 MW6-10		Minor to some	clay be	etween 11	and	
	0.00	77 ft bgs.	-		·	
	8 .0 . 0	Grades to fin			inor	
		clay at 11 ft				
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	0.0					
15 3 MW6-15	0.00					
	0.0.0	_				
	9 9	E	_			•
<u>-                                   </u>	sc.	CLAYEY SAND, brown, medium			h	
		medium dense,	minor i	fine grave	įΙ.	
		10% recovery	19-22 ft	bgs.		
	GC	_		_		
20		brown, fine,				1
	145 No. 5	trace medium			,	
		_				
		-				
	ШШШМ™				sh	
25 2 MW6-25	H1111111111	brown, stiff,	wet, me	edium		

FIELD LOG OF BORING

BORING/WELL I.D. MW6
SHEET 2 OF 2
CHECKED BY/DATE

PROJEC	T NAME					JECT NUM	BEH		HYDRO			CHECKED BY/DAT	
TEXACO:	LIVE	RMORE			9580	702600			MICHAEI	GUY	4/28/95	WARREN GROSS 5	/22/95
	WE	LL		S	AMPLE	3							
DEPTH	CON	IST	OVA				GR/	APH.	SOIL		DESCRIPTION OF	MATERIALS	REMARKS
(FEET)	csg	FILL	(PPM)	NO.	TYPE	BLOWS	LC		CLASS	,			
(,			<u> </u>			/6"		Ш	(USCS)				
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30	<u> </u>	l	0	MW6-30				11111	<u> </u>	<b></b> -			
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