

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

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

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3760 - 1800 Friesman, Livermore, CA

September 23, 1996

Mr. Ken Ross
City of Livermore
3589 Pacific Ave
Livermore, CA 94550

Dear Mr. Ross:

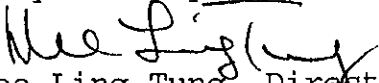
This letter confirms the completion of site investigation and remedial action for the two former underground storage tanks (1-250 gallon gasoline and 1-500 gallon diesel tank) removed from the above site on July 26, 1989. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, 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, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. If changes in land use, structural configuration, or site activities are proposed such that more conservative exposure scenarios should be evaluated, the owner must promptly notify this agency.

Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,


Mee Ling Tung, Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Lori Casias, SWRCB (with attachment)
Matt Bromley, Century West, 7950 Dublin Blvd, #203, Dublin
files (friesman.3)

01-1758

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: March 22, 1996

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: City of Livermore Airport
Site facility address: 1800 Friesman, Livermore, CA 94550
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3760
URF filing date: 7/27/89 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
City of Livermore Attn. Ken Ross	3589 Pacific Ave Livermore, CA 94550	510/373-5254

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	250	Gasoline	Removed	7/26/89
2	500	Diesel	Removed	7/26/89

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Leaking UST
Site characterization complete? YES
Date approved by oversight agency: 3/4/96
Monitoring Wells installed? Yes Number: 5
Proper screened interval? Yes, 30 to 50' bgs
Highest GW depth below ground surface: 35.33' Lowest depth: 39.67'
Flow direction: West to Southwest
Most sensitive current use: Public golf course
Are drinking water wells affected? No; However, trace levels of toluene and xylenes detected in Nov 1989 in water from the "domestic" well located west of the Arroyo Las Positas was probably due to lab contamination.

Aquifer name: Amador Subbasin
Is surface water affected? No Nearest affected SW name: NA
Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County
1131 Harbor Bay Pkwy
Alameda, CA 94502

ENVIRONMENTAL PROTECTION AGENCY
96 APR 18 PM 1:25

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank Piping	2 USTs	Unknown (possibly by H & H)	7/26/89
Soil	5,000 cy	Aerated and reused onsite at grade.	12/2/92

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before ¹	After ³	Before	After
TPH (Gas)	18,000	140	4,800	ND
TPH (Diesel)	5,800 ²	20 ⁴	1,900	ND
Benzene	30	ND	34	ND
Toluene	560	0.44	63	ND
Ethylbenzene	260	0.62	67	ND
Xylenes	1,600	3.3	62	ND
Oil & Grease			7,000 ⁵	ND
Heavy metals	Pb	<10x STLC		

- NOTE:
- 1 from boring EB-2
 - 2 from tank pit at time of UST removal
 - 3 from excavation pit, sect 7-4
 - 4 from boring MW-1
 - 5 from MW-1, November 1989

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **Undetermined**
 Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **Undetermined**
 Does corrective action protect public health for current land use? **YES**
 Site management requirements: **None**

Should corrective action be reviewed if land use changes? **YES**
 Monitoring wells Decommissioned: **Yes, MW-1 and MW-3**
 Number Decommissioned: **2** Number Retained: **2**
 List enforcement actions taken: **None**

List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: *[Signature]* Date: 3/29/96

Reviewed by

Name: Scott Seery Title: Sr. Haz Mat Specialist

Signature: *[Signature]* Date: 3/25/96

Name: Tom Peacock Title: Supervisor

Signature: *[Signature]* Date: 3-29-96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 4/1/96 RB Response: *Approved*

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: *[Signature]* Date: 4/16/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is currently a public golf course. Two USTs, serving a former ranching operation, were located at the southwest boundary of the Las Positas Public Golf Course. The Arroyo las Positas is approximately 100' west-northwest of the former UST location. A domestic well, also serving the former ranch operation, is located west of the arroyo. The shallowest perforations in this well occur from 157 to 167' bgs. This well was installed in September 1961. A man-made lake is approximately 250' southeast of the tank complex. Golf course lakes are clay-lined and should not contribute to local hydrology. (See Fig 1).

On July 26, 1989 the two USTs (500 gallon diesel, 250 gallon gasoline tanks) were removed. A soil sample collected from beneath the 250 gallon UST contained up to 5,800 ppm TPH-D and 0.250, 4.5, 3.7, and 38 ppm BTEX, respectively. (See Fig 2, Table 1).

In November 1989 three temporary piezometers (P-1 thru P-3) and one exploratory boring (EB-1) were installed. Once groundwater flow direction was determined the piezometer screen and casing were removed and the boring grouted. Two groundwater monitoring wells (MW-1 and MW-2) were subsequently installed. (See Fig 1).

Soil contamination was noted in the field by sight, smell and/or PID in borings EB-1, P-3, and MW-1 (within 10' of former tank location) at 27 to 37' bgs. (See Figs 3 and 4, Table 2). It appeared soil contamination was limited in extent to the immediate vicinity of the tank pit. Groundwater contamination was detected in well MW-1 and not in well MW-2 during the initial sampling event. The nearby domestic well (2N3) was also analyzed for BTEX at this time and revealed 0.5 and 0.9 ppb toluene and xylene, respectively. (See Table 3).

In April 1990 a third well (MW-3) was installed. Groundwater contamination was noted in all three wells in the May 1990 sampling event (up to 4,800 ppb TPH-G, and 34, 63, 67, and 45 ppb BTEX).

In April 1991 two exploratory borings (EB-3, and EB-5) and groundwater monitoring well MW-4 were installed west of the former tank pit to determine if the fuel release affected Arroyo Las Positas. Boring EB-2 was advanced through the former tank pit to delineate the vertical extent of soil contamination. Soil analytical results confirmed that the fuel release is limited in extent laterally and migrated vertically to groundwater. (See Fig 5 and 6, Table 4).

Groundwater from wells MW-1 through MW-3 was sampled for eight consecutive quarters, and well MW-4 for four consecutive quarters. Only well MW-1 continued to exhibit TPH-G, TPH-D, TOG, and BTEX after the initial sampling event. (See Table 5).

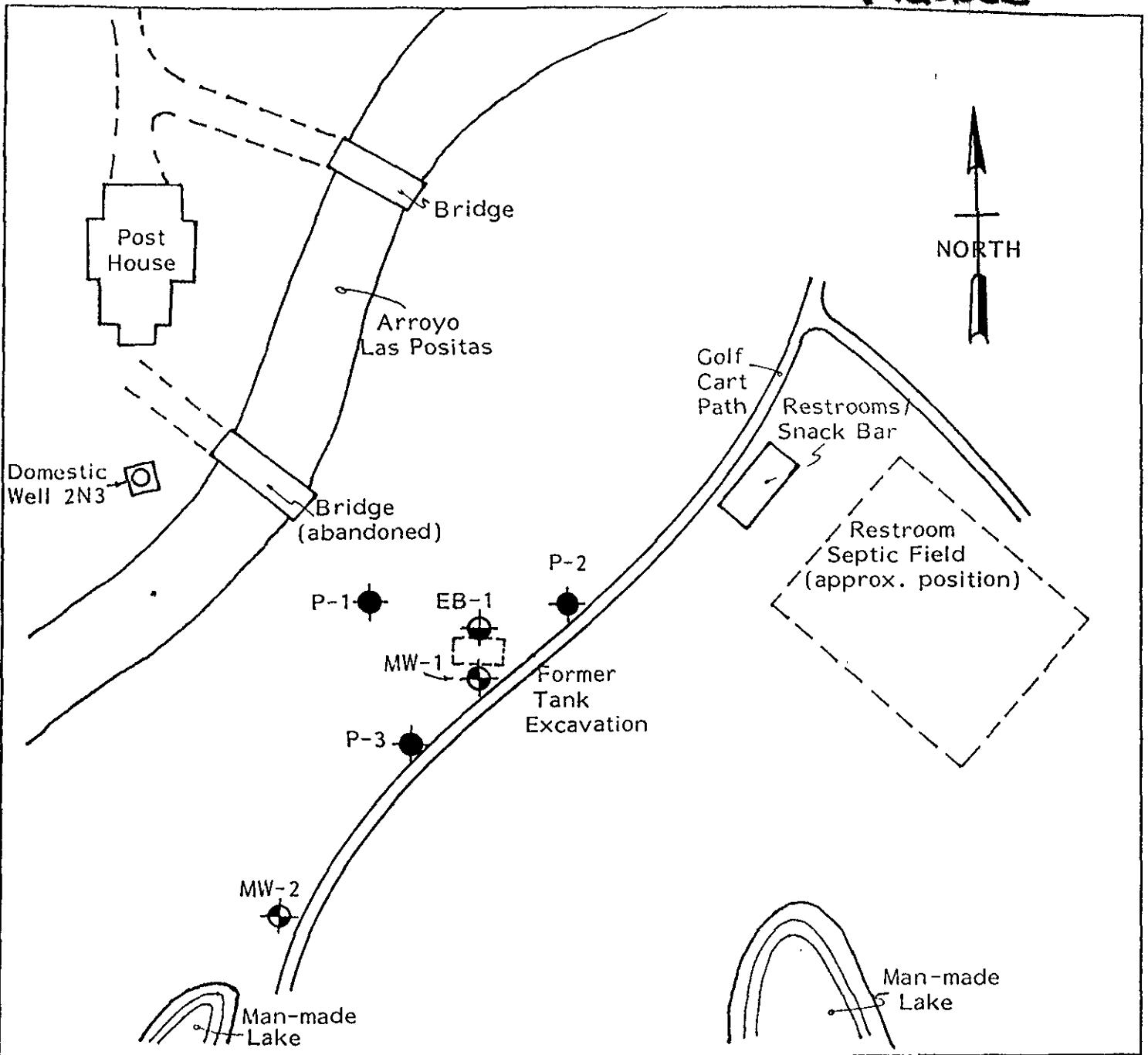
Soil excavation began in March through April 1992 to removed hydrocarbon-impacted soil immediately below the former tank pit and from 30 to 40' bgs. A total of 53 soil samples were collected from the sidewalls and base of the excavation pit. Thirty eight samples of the stockpiled overburden (approximately 17,000 cy excavated from above 27' bgs) were also collected to verify tha the soil was suitable for use as clean backfill. Samples from the final excavation did not detect TPH-G or BTEX except for samples SECT. 7-1 and SECT. 7-4 collected from a one-foot-thick layer of affected sediments remaining along the southernmost sidewall at approximately 39' bgs. Up to 140 ppm TPH-G and low levels of TEX were reported. Benzene was not found above the detection limit. (See Fig 7, Table 6).

Approximately 5,000 cy of gasoline affected soil was transported to an adjacent city-owned site (1.5 miles away) located near the Livermore Airport for aeration. After treatment, a total of 196 discrete soil samples were collected which were converted into 2 into 1 composites, resulting in 98 samples submitted for TPH-G and BTEX analysis. None of the composited samples exhibited detectable levels of TPH-G or BTEX. (Note: the analysis program was extended so that peaks up to the C-15 hydrocarbon range would also be identified).

During the excavation process two groundwater monitoring wells (MW-1 and MW-3) were properly abandoned. It was initially proposed to install a replacement well west of the final excavation. To date a replacement well has not been installed. During the eight sampling events, groundwater was shown to flow southwesterly five of the eight times, and westerly the

remaining three. It appears wells MW-2 and MW-4 were appropriately situated downgradient of the former tank pit and final excavation limits. These wells did not exhibit the presence of TPH-G or BTEX in the final four sampling events. The domestic well has not been sampled since November 1989. Trace levels of toluene and xylenes detected then may be due to laboratory contamination. A replacement well or continued groundwater monitoring is not warranted.

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SCALE 1"=100'

SITE AREA MAP

PROBLEM ASSESSMENT REPORT
 UNDERGROUND STORAGE TANK LEAK
 KENTUCKY WEST FARMS
 1800 FREISMAN ROAD
 LIVERMORE, CALIFORNIA

LEGEND:

- ◆ - Temporary Piezometer
Location & Designation
- ⊕ - Exploratory Boring
Location & Designation
- ⊕ - Monitoring Well
Location & Designation

Job No. P89154
 December, 1989
 FIGURE: 2

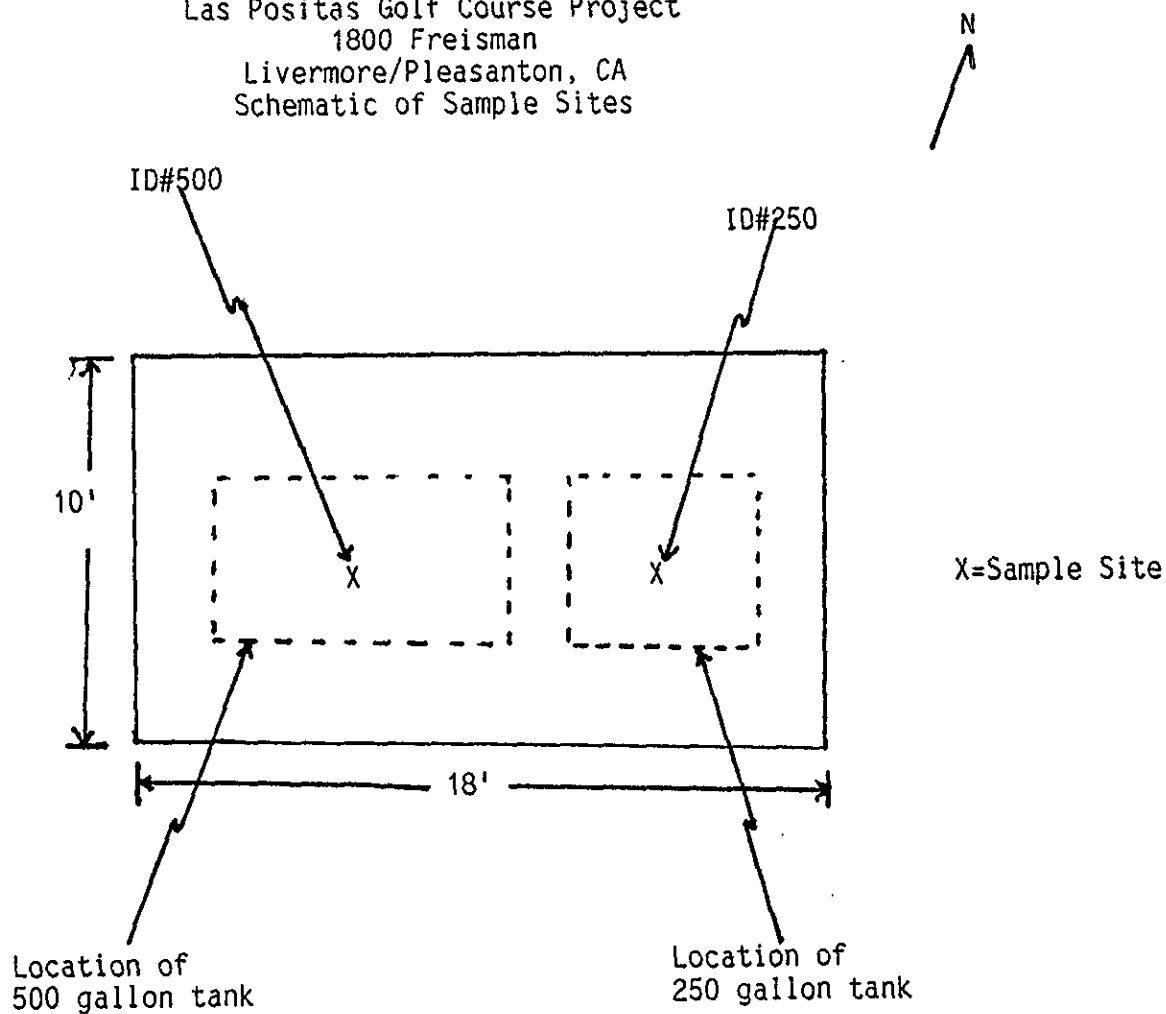
BSK
 & Associates

FIG 1

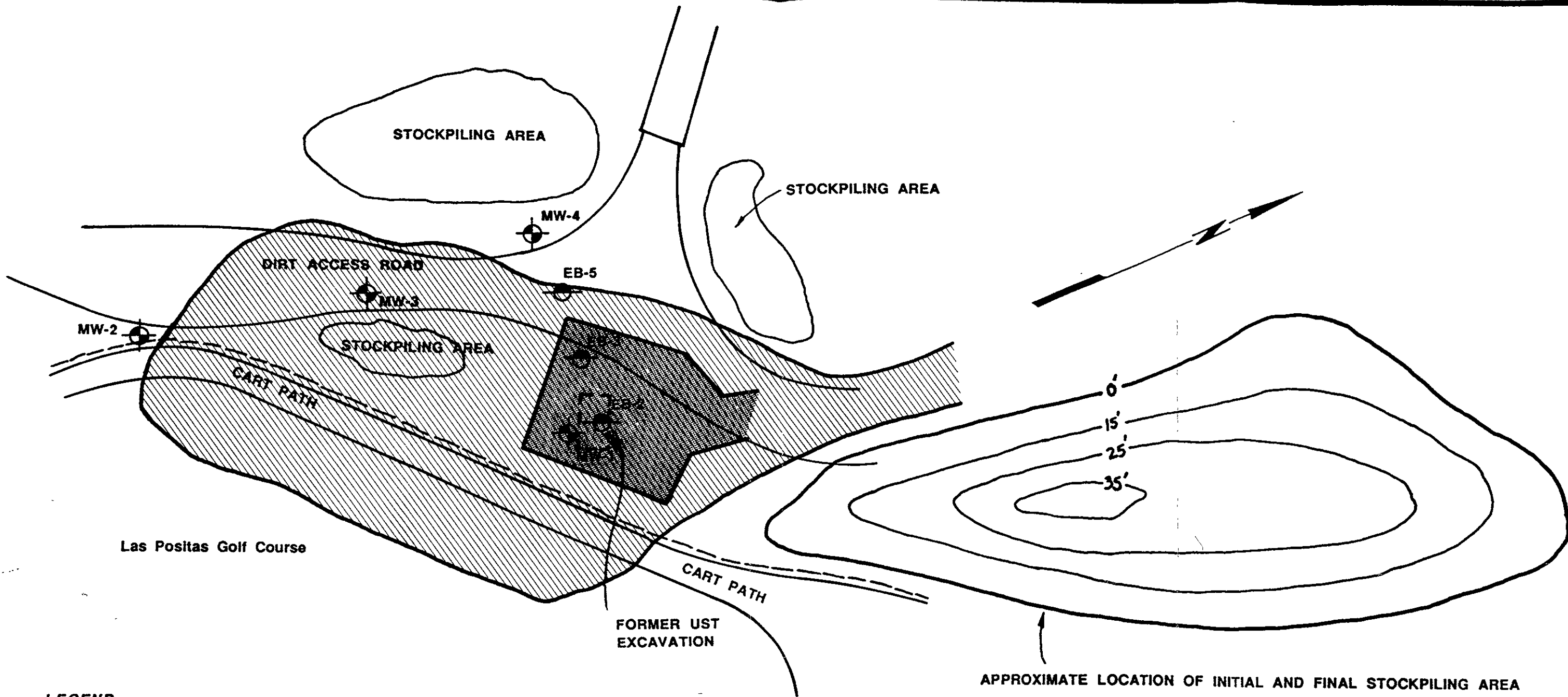
FIG 2

Figure 2*

City of Livermore
Las Positas Golf Course Project
1800 Freisman
Livermore/Pleasanton, CA
Schematic of Sample Sites



Sample ID#	Date	Time	Depth
250	7/26/89	1530	7' Below Existing Grade
500	7/26/89	1543	7' Below Existing Grade




LEGEND

 APPROXIMATE LOCATION OF INITIAL EXCAVATION

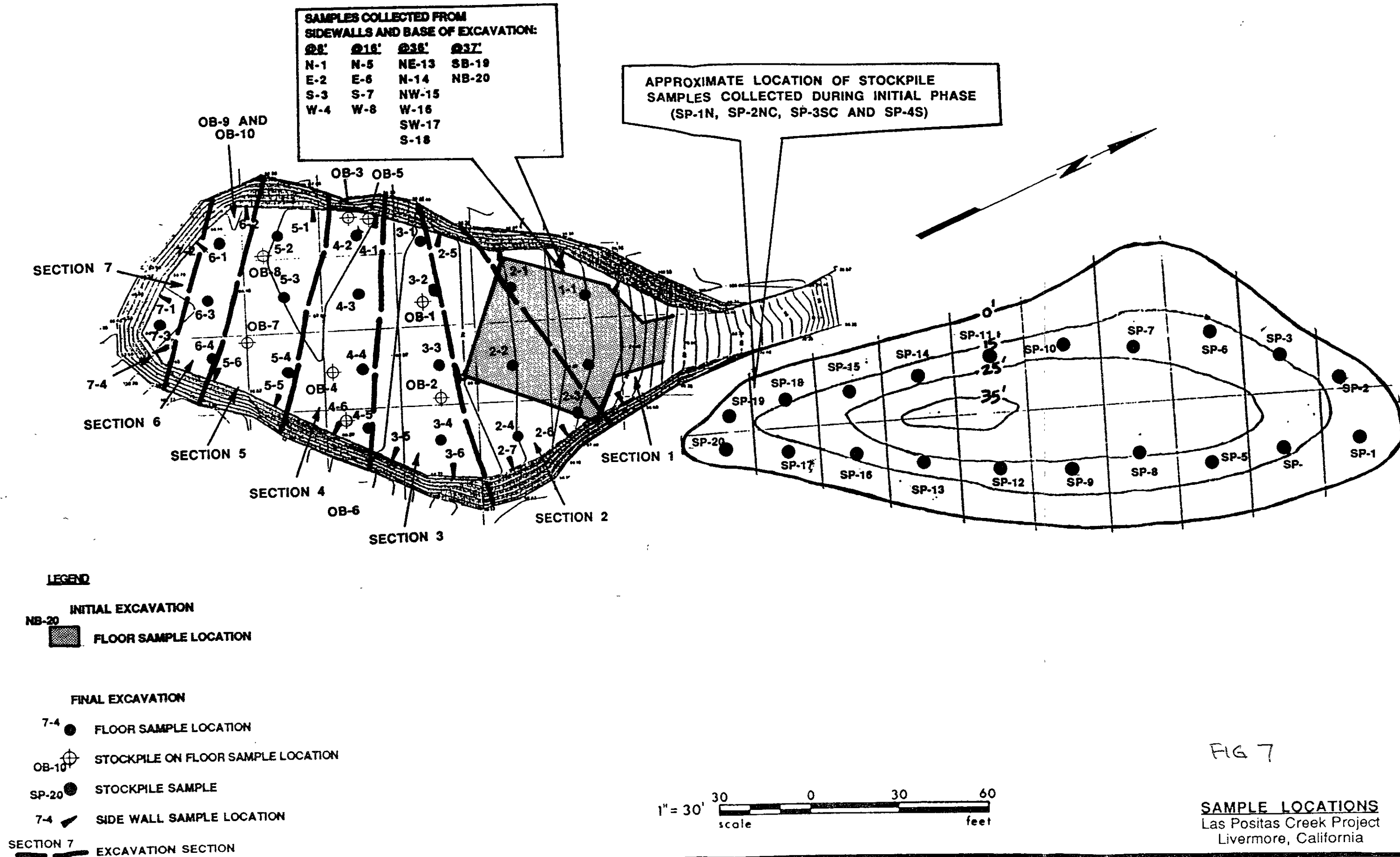
 APPROXIMATE LOCATION OF FINAL EXCAVATION

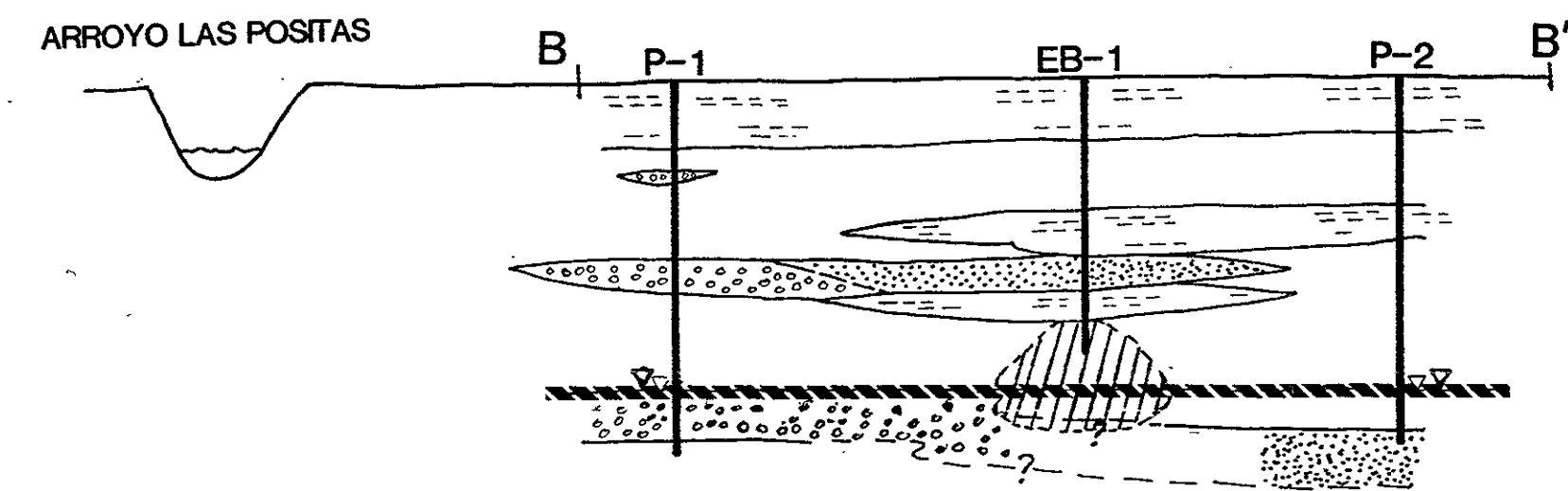
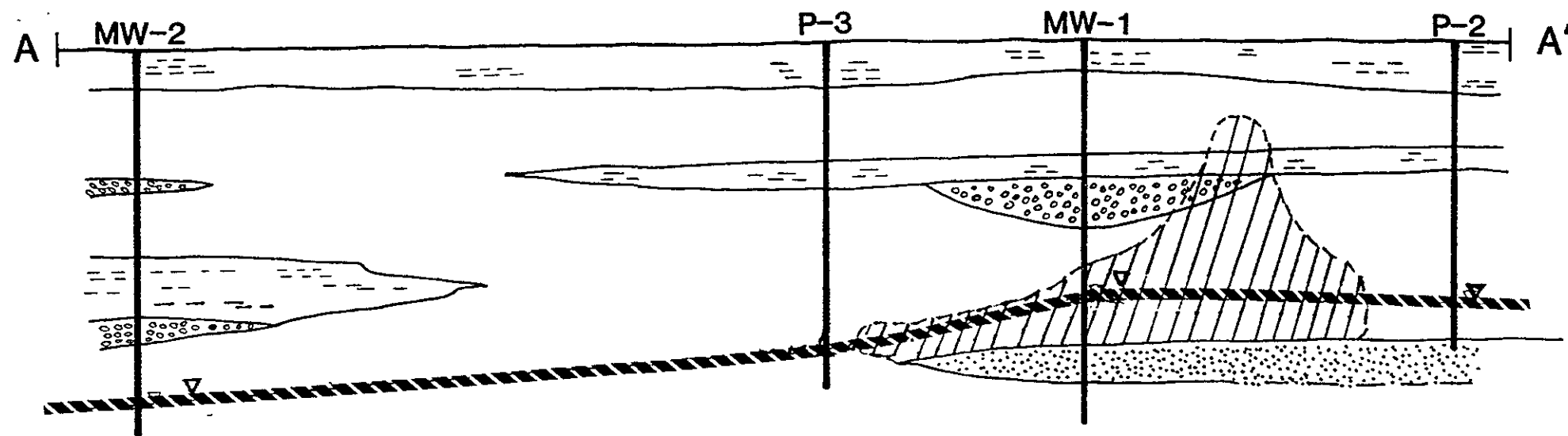
 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (MW-1 AND MW-3 REMOVED DURING FINAL EXCAVATION)

 EXPLORATORY BORING LOCATION AND DESIGNATION









SITE PLAN
Las Positas Creek Project
Livermore, California





LEGEND:

-  - CLAY
-  - SILT
-  - SAND
-  - GRAVEL
-  - WATER SURFACE
-  - CONTAMINATED ZONE (inferred)

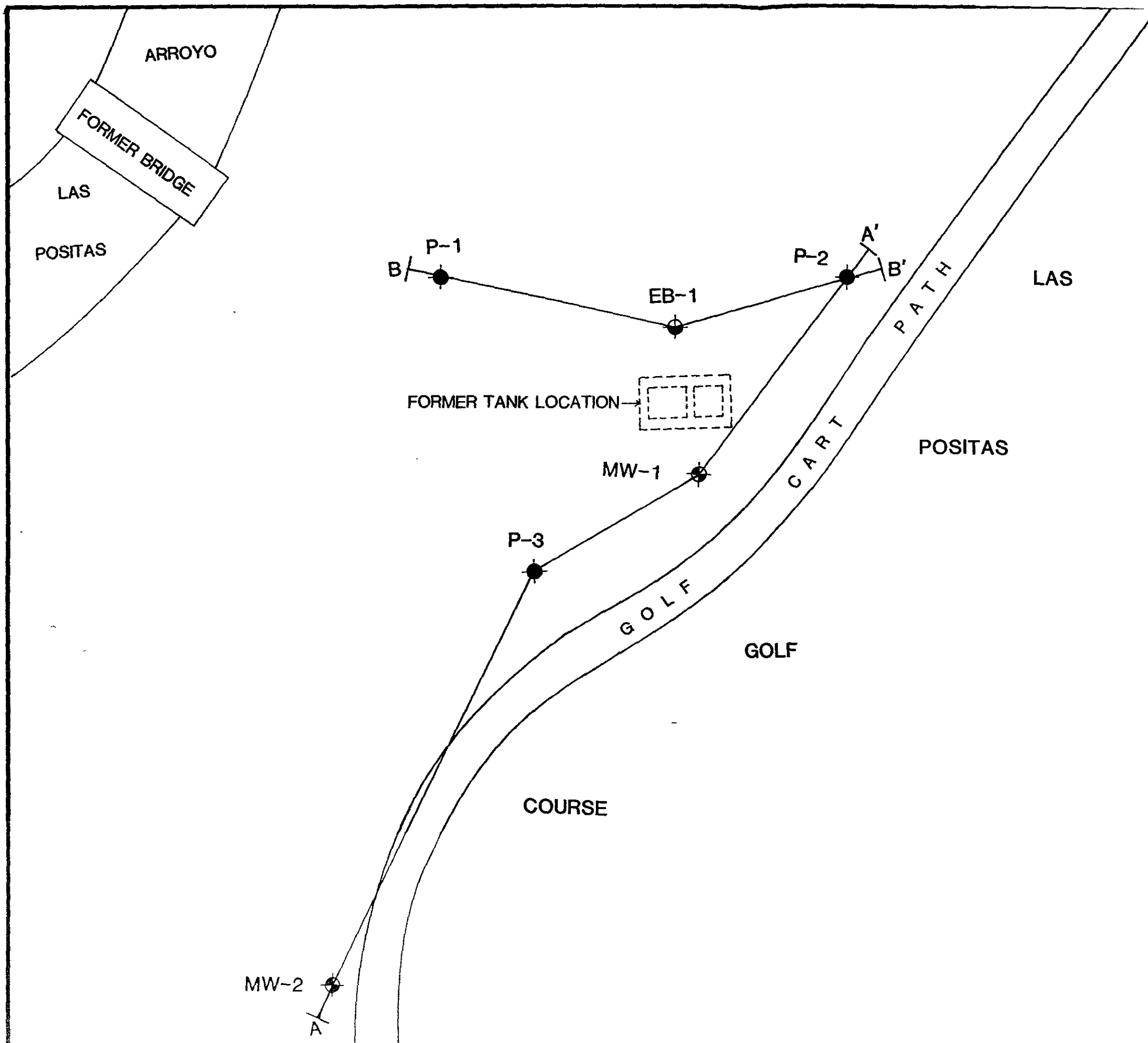
SCALE: 1" = 20' Horiz. = Vertical

SUBSURFACE CROSS
SECTION A-A' and B-B'

PROBLEM ASSESSMENT REPORT
 UNDERGROUND STORAGE TANK LEAK
 KENTUCKY WEST FARMS
 1800 FREISMAN ROAD
 LIVERMORE, CALIFORNIA

Job No. P89154
 December, 1989
 FIGURE: 4

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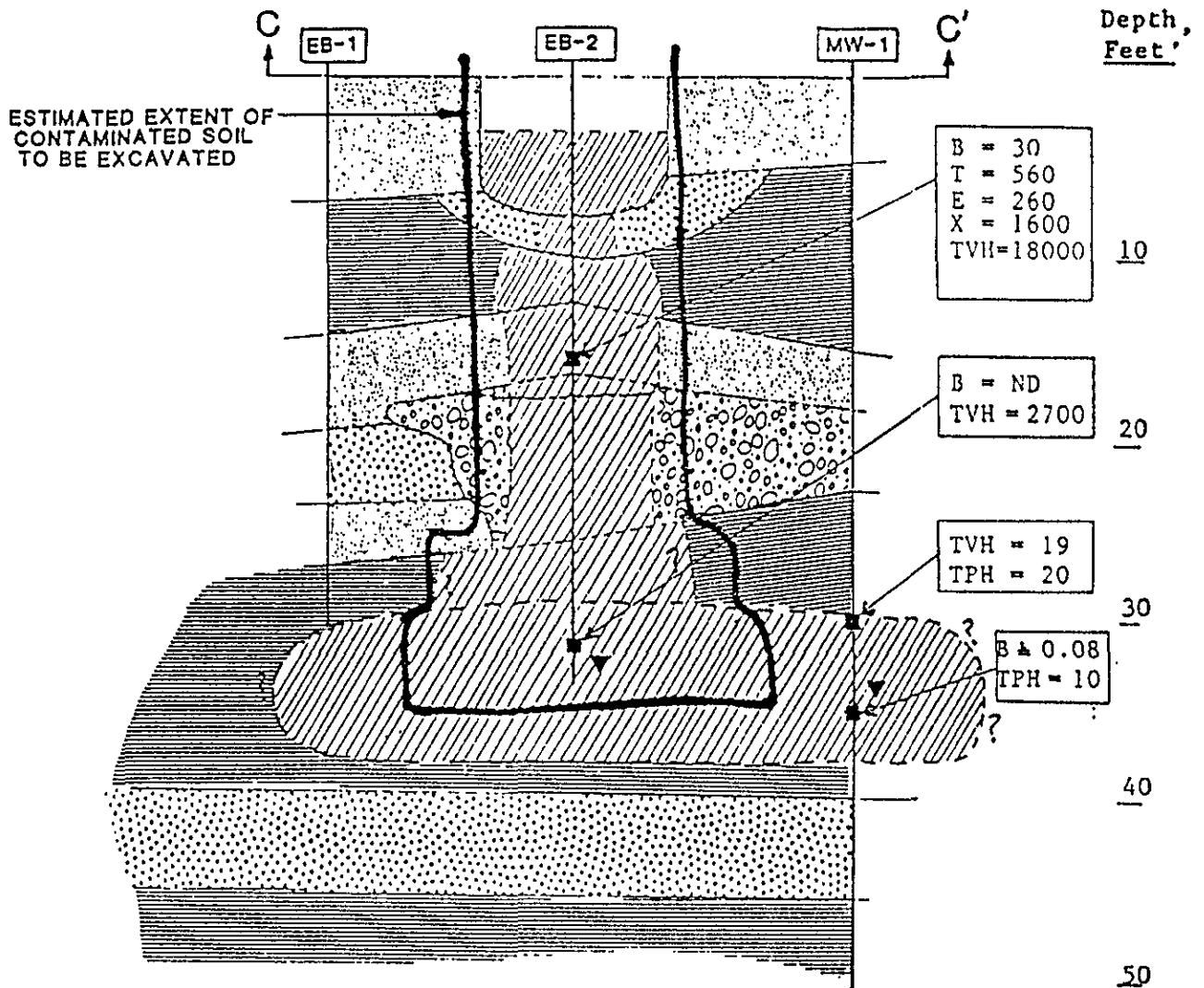
SCALE: 1" = 20'

CROSS-SECTION
LOCATION

PROBLEM ASSESSMENT REPORT
 UNDERGROUND STORAGE TANK LEAK
 KENTUCKY WEST FARMS
 1800 FREISMAN ROAD
 LIVERMORE, CALIFORNIA

Job No. P89154
 December, 1989
 FIGURE: 31

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Scale: 1" = 10'
Horizontal = Vertical

CROSS-SECTION C-C' LEAK SOURCE AREA

LEGEND:

- FILL
- SILT
- CLAY
- GRAVEL
- SAND
- CONTAMINATION

TVH = Total Petroleum Hydrocarbon-Gas
 TPH = Total Petroleum Hydrocarbon-Diesel
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylene

▼ FIRST ENCOUNTERED WATER

■ Sample Interval

Concentrations Given Are in Parts Per Million

REFERENCE: BSK's 6/31/91 REPORT

DATE	BY	DATE	REVISION	 REMEDIATION SERVICES, INC.	CITY OF LIVERMORE 1800 FREISMAN ROAD LIVERMORE, CA	JOB NO. R91024
DRAWN	ED	8.15.91	SCALE			
CHECKED			FIG 6			
APPROVED						



TABLE 1

NET Pacific, Inc. 359/

LOG NO 7229

- 3 -

August 11, 1989

Parameter	Reporting Limit (mg/Kg)	Descriptor, Lab No. and Results	
		250 07-26-89 1530 (-31593) ^a	500 07-26-89 1543 (-31594)
Oil & Grease (total)	50	310	ND
PETROLEUM HYDROCARBONS			
Extractable,			
as Motor Oil	10	ND	ND
as Diesel Fuel	10	5,800 ^b	ND
DATE ANALYZED		08-03-89	08-01-89
DATE EXTRACTED		07-31-89	07-31-89
METHOD GCFID/5030			

gas?
kerosene?
fuel oil??

Parameter	Reporting Limit (ug/Kg)	Descriptor, Lab No. and Results	
		250 07-26-89 1530 (-31593) ^c	500 07-26-89 1543 (-31594)
PURGEABLE AROMATICS			
Chlorobenzene	2.0	ND	ND
1,2-Dichlorobenzene	2.0	ND	ND
1,3-Dichlorobenzene	2.0	ND	ND
1,4-Dichlorobenzene	2.0	ND	ND
Benzene	2.5	250	ND
Ethylbenzene	3.0	3,700	ND
Toluene	2.5	4,500	ND
Xylenes, total	3.0	38,000	ND
DATE ANALYZED		08-09-89	08-08-89
EPA METHOD 8020			

^a Extractable petroleum hydrocarbon reporting limits for this sample are 10 times the listed reporting limits.

^b Sample contains lower boiling hydrocarbons not characteristic of diesel.

^c Purgeable aromatics reporting limits for this sample are 80 times the listed reporting limits.

The results of the soil and water chemical analyses are presented in the following tables. The four tables are divided into two sections: Soil, then Water.

The Chemical Test Data sheets, together with attendant chain of custody documents, are shown in Appendix "B," Figures B-1 through B-40.

SOIL ANALYSES: Units are mg/kg (ppm)

TABLE 2

BTXE

Sample Location	Constituent (Action Level)*			
	Benzene (0.7)	Toluene (100)	Xylene (620)	Ethylbenzene (1400)
<u>Boring, Depth</u>				
P-1, 35'	ND	ND	ND	ND
P-2, 35'	ND	ND	ND	ND
P-3, 33.5'	ND	ND	ND	ND
EB-1, 30'	ND	ND	ND	ND
MW-1, 10'	ND	ND	ND	ND
MW-1, 15'	ND	ND	ND	ND
MW-1, 20'	ND	ND	ND	ND
MW-1, 25'	ND	ND	ND	ND
MW-1, 30'	ND	0.06	0.29	0.03
MW-1, 35'	0.08	ND	0.10	0.03
MW-1, 40'	ND	ND	ND	ND
MW-1, 45'	ND	ND	ND	ND

ND - None Detected

* - Action Levels used are those designated to protect ground-water and represent the total allowable in a solid. From "Water Quality Objectives," Marshack, RWQCB, Central Valley Region, 1985. These Action Levels serve as guidelines only. Final determinations are based on site-specific conditions and must receive concurrence from RWQCB and ACEH.

Cont. TABLE 2

TPH, TVH, Oil and Grease

Sample Location		Constituent (Action Level)*		
<u>Boring, Depth</u>		<u>TPH (100)</u>	<u>TVH (100)</u>	<u>Oil & Grease (100)</u>
P-1, 35'		ND	ND	--
P-2, 35'		ND	ND	--
P-3, 33.5'		ND	ND	ND
EB-1, 30'		ND	ND	--
MW-1, 10'		ND	ND	--
MW-1, 15'		ND	ND	--
MW-1, 20'		ND	ND	ND
MW-1, 25'		ND	ND	--
MW-1, 30'		20	19	--
MW-1, 35'		10	ND	ND
MW-1, 40'		ND	ND	--
MW-1, 45'		ND	ND	ND

ND: None Detected

--: Not Tested

* : Action Levels are Maximum Allowable Levels, Table 2-1, May 1988, LUFT Manual. They are recommendations with regard to leaching potential. These Action Levels serve as guidelines only. Final determinations are based on site-specific conditions and must receive concurrence from RWQCB and ACEH.

WATER ANALYSES: Units are ug/litre (ppb)

TABLE #3

BTXE

Location	Constituent (Action Level)*			
	<u>Benzene</u> (1.0)	<u>Toluene</u> (2000)	<u>Xylenc</u> (1750)	<u>Ethylbenzenc</u> (680)
MW-1	9.1	9.2	24	57
MW-2	ND	ND	ND	ND
Domestic Well MW-3 (2N3)	ND	0.5	0.9	ND

ND - None Detected

* - Action Levels are California Department of Health Services Drinking Water Standards, March 1989.

cont. TABLE #3

TPH, TVH, Oil and Grease

Location	Constituent*		
	<u>TPH</u>	<u>TVH</u>	<u>Oil and Grease</u>
MW-1	1,000	2,000	7,000
MW-2	ND	ND	--
P-3	ND	63	--

ND: None Detected

--: Not Tested

* : Action levels are not available.

SOIL ANALYSES: Units are mg/kg (ppm)

TABLE #4

BTEX

Constituent (Action Level)*

<u>Sample Location</u> <u>Boring & Depth</u>	<u>Benzene</u> (0.3)	<u>Toluene</u> (0.3)	<u>Ethylbenzene</u> (1.0)	<u>Xylene</u> (1.0)
EB-2 at 15.5'	30	560	260	1600
EB-2 at 31.5'	ND	19	19	53
EB-3 at 33.5'	ND	0.48	ND	1.2
EB-4 at 36.5'	ND	ND	ND	ND
EB-5 at 32'	ND	ND	ND	ND

ND - None Detected

*Action Levels are Maximum Allowable Levels, Table 2-1, May 1988, LUFT Manual. They are recommendations with regard to leaching potential. These Action Levels serve as guidelines only. Final determinations are based on site-specific conditions and must receive concurrence from RWQCB and ACEH.

cont. TABLE #4

TPH, TVH, Oil and Grease

Constituent (Action Level)*

<u>Sample Location</u> <u>Boring & Depth</u>	<u>TVH</u> (100)
EB-2 at 15.5'	18000
EB-2 at 31.5'	2700
EB-3 at 33.5'	120
EB-4 at 36.5'	ND
EB-5 at 32'	ND

ND - None Detected
NA - Not Available
-- - Not Tested

*Action Levels are Maximum Allowable Levels, Table 2-1, May 1988, LUFT Manual. They are recommendations with regard to leaching potential. These Action Levels serve as guidelines only. Final determinations are based on site-specific conditions and must receive concurrence from RWQCB and ACEH.

TABLE 5
PREVIOUS WATER QUALITY DATA

Month & Year	Sample Location	Constituent (Action Level)*				TVH (*)	TPH (*)	O&G (*)
		B (1.0)	T (100)	X (1750)	E (680)			
May 1990	MW-1	34	63	45	67	4800	1400	2000
	MW-2	2.7	4.7	4.1	1.5	55	ND	ND
	MW-3	2.6	5.9	5.1	1.8	58	ND	ND
September 1990	MW-1	5.6	10	7.9	23	2200	330	1
	MW-2	ND	ND	ND	ND	ND	ND	ND
	MW-3	ND	ND	ND	ND	ND	ND	ND
December 1990	MW-1	19	30	62	37	1900	860	2
	MW-2	ND	ND	ND	ND	ND	ND	ND
	MW-3	ND	ND	ND	ND	ND	ND	ND
March 1991	MW-1	26	28	49	17	4500	1900	3
	MW-2	ND	ND	ND	ND	ND	ND	ND
	MW-3	ND	ND	ND	ND	ND	ND	ND
June 1991	MW-1	16	13	21	16	2900	680	1
	MW-2	ND	ND	ND	ND	ND	ND	ND
	MW-3	ND	ND	ND	ND	ND	ND	ND
	MW-4	ND	ND	ND	ND	ND	--	--
October 1991	MW-1	ND	ND	20	30	2300	840	--
	MW-2	ND	ND	ND	ND	ND	ND	--
	MW-3	ND	ND	ND	ND	ND	ND	--
	MW-4	ND	ND	ND	ND	ND	ND	--
December 1991	MW-1	8	15	20	21	2200	780	2
	MW-2	ND	ND	ND	ND	ND	--	--
	MW-3	ND	ND	ND	ND	ND	--	--
	MW-4	ND	ND	ND	ND	ND	--	--

ND = None Detected

-- = Not Tested

*Action Levels are not available.

cont. TABLE 5

MARCH 1992 Sampling Event

WATER ANALYSES: Units are ug/liter (ppb)

TABLE 1

BTXE

<u>Sample Location</u>	<u>Constituent (Action Level)*</u>			
	<u>Benzene(B)</u> <u>(1.0)</u>	<u>Toluene(T)</u> <u>(100)</u>	<u>Xylene(X)</u> <u>(1750)</u>	<u>Ethylbenzene(E)</u> <u>(680)</u>
MW-2	ND	ND	ND	ND
MW-3	ND	ND	ND	ND
MW-4	ND	ND	ND	ND

ND = None Detected

*Action Levels are California Department of Health Services Drinking Water Standards, March 1989.

cont. TABLE 5
TVH

<u>Sample Location</u>	<u>Constituent*</u> <u>TVH</u>
MW-2	ND
MW-3	ND
MW-4	ND

ND = None Detected

-- = Not Tested

*Action Levels are not available

TABLE 6
SOIL SAMPLE ANALYSES DATA
EXCAVATION

Sample No.	TPHG (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)	Total Lead (ppm)	Date Sampled (1992)	Dep (fee)
N-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 3	8
E-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 3	8
S-3	N.D.	N.D.	N.D.	N.D.	N.D.	3.2	March 3	8
W-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 3	8
N-5	N.D.	N.D.	N.D.	N.D.	N.D.	5.0	March 3	15
E-6	N.D.	N.D.	N.D.	N.D.	N.D.	6.0	March 3	16
S-7	N.D.	N.D.	N.D.	N.D.	N.D.	5.5	March 3	16
W-8	N.D.	N.D.	.0079	.005	.061	3.4	March 3	16
N-9 @24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 5	24
E-10@24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 5	24
S-11@24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 5	24
W-12@24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 5	24
NE-13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 10	36
N-14	N.D.	N.D.	N.D.	N.D.	.0052	2.7	March 10	36
NW-15	N.D.	N.D.	N.D.	N.D.	N.D.	3.7	March 10	36
W-16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 10	36
SW-17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 10	36
S-18	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 10	36
SB-19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	March 10	37
NB-20	N.D.	N.D.	N.D.	N.D.	.0067	7.1	March 10	37
SECT 2-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 22	42
SECT 2-2	N.D.	N.D.	N.D.	N.D.	N.D.	3.5	April 22	44
SECT 2-3	N.D.	N.D.	N.D.	N.D.	N.D.	3.5	April 22	40
SECT 2-4	N.D.	N.D.	N.D.	N.D.	N.D.	3.5	April 22	41
SECT 2-5	N.D.	N.D.	N.D.	N.D.	N.D.	3.0	April 22	38
SECT 2-6	N.D.	N.D.	N.D.	N.D.	N.D.	11.5	April 22	38
SECT 2-7	N.D.	N.D.	N.D.	N.D.	N.D.	4.0	April 22	39
SECT 3-1	N.D.	N.D.	N.D.	N.D.	N.D.	4.7	April 23	41
SECT 3-2	N.D.	N.D.	N.D.	N.D.	N.D.	3.3	April 23	40
SECT 3-3	N.D.	N.D.	N.D.	N.D.	N.D.	5.7	April 23	40
SECT 3-4	N.D.	N.D.	N.D.	N.D.	N.D.	5.4	April 23	41
SECT 3-5	N.D.	N.D.	N.D.	N.D.	N.D.	3.9	April 23	38
SECT 3-6	N.D.	N.D.	N.D.	N.D.	N.D.	3.6	April 23	38

TABLE 6- CONTINUED
SOIL SAMPLING ANALYSIS DATA
EXCAVATION

Sample No.	TPHG (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)	Total Lead (ppm)	Date Sampled (1992)	Depth (Feet)
SECT 4-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 27	38
SECT 4-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 27	41
SECT 4-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 27	41
SECT 4-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 27	40
SECT 4-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 27	41
SECT 4-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 27	37
SECT 5-1	N.D.	N.D.	N.D.	N.D.	N.D.	2.9	April 28	38
SECT 5-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 28	42
SECT 5-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 28	42
SECT 5-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 28	41
SECT 5-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 28	37
SECT 5-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 28	38
SECT 6-1	N.D.	N.D.	N.D.	N.D.	N.D.	6.7	April 29	41
SECT 6-2	N.D.	N.D.	N.D.	N.D.	N.D.	4.3	April 29	38
SECT 6-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	April 29	41
SECT 6-4	N.D.	N.D.	N.D.	N.D.	N.D.	4.8	April 29	41
SECT 7-1	33	N.D.	.15	.057	.45	4.9	April 30	39
SECT 7-2	N.D.	N.D.	N.D.	N.D.	.0081	4.8	April 30	39
SECT 7-3	N.D.	N.D.	N.D.	N.D.	N.D.	4.4	April 30	41
SECT 7-4	140	N.D.	.44	.62	3.3	5.0	April 30	39.5
SECT 1-1	N.D.	N.D.	N.D.	N.D.	N.D.	6.1	May 1	38

TPHG Total petroleum hydrocarbons as gasoline

ppm Parts per million

N.D. Not detected at or above the laboratory detection limit

NOTE: For detection limits, refer to lab reports