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 3140 - 1518 E. 12th Street, Oakland, CA

January 15, 1997

Mr. Sam Dam
1518 E. 12th Street
Oakland, CA 94606

Mr. David Doyle
1530 E. 12th Street
Oakland, CA 94606

Dear Messrs. Dam and Doyle:

This letter confirms the completion of site investigation and remedial action for the two former underground storage tanks (2-2000 gallon gasoline tanks) removed from the above site in August 1989. 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

Mee Ling Tung, Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Lori Casias, SWRCB (with attachment)
Cheryl Gordon, UST Cleanup Fund
files (lithcrft.3) EC

01-0500

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **Date: September 13, 1996**

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **T. Peacock** Title: **Supervisor**

II. CASE INFORMATION

Site facility name: **Modern Auto Body**
Site facility address: **1518 E. 12th Street, Oakland, CA 94606**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3140**
URF filing date: **9/27/90** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
1. Sam Dam & Doris Chen	1518 E. 12th St, Oakland 94606	
2. David Doyle	1530 E. 12th Street, Oakland 94606	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	1,000	Gasoline	Removed	August 1989
2	1,000	"	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **12/28/92**
Monitoring Wells installed? **Yes** Number: **3**
Proper screened interval? **Yes, 15 to 30' bg**
Highest GW depth below ground surface: **18.76'** Lowest depth: **23.10' in MW-1**
Flow direction: **Northwest**
Most sensitive current use: **Commercial**
Are drinking water wells affected? **No** Aquifer name: **Unknown**
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

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	**2 USTs**	**Disposed by Erickson, in Richmond**	**5/10/90**
Soil			

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before[1]	Soil (ppm) After[2]	Water (ppb) Before	Water (ppb) After
TPH (Gas)	**646**	**ND**	**480**	**ND**
TPH (Diesel)				
Benzene	**0.9**	**0.029**	**ND**	**ND**
Toluene	**ND**	**0.017**	**4.9**	**ND**
Ethylbenzene	**1.1**	**0.045**	**5.2**	**ND**
Xylenes	**1.9**	**0.026**	**1.0**	**ND**

NOTE: 1 From soil borings advanced to 11.5' bgs in November 1989
2 Confirmatory samples collected after minor overexcavation

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: **No, pending site closure**
Number Decommissioned: **0** Number Retained: **3**
List enforcement actions taken: **NOVs issued 10/20/93, 2/21/95, 5/18/95, and Pre-Enforcement Hearing on 9/27/95**

List enforcement actions rescinded: **Above, in compliance.**

The fuel release from the former USTs does not appear to have impacted groundwater quality beneath the site. Continued sampling is not warranted.

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- little or no groundwater impact currently exists and no contaminants are found at levels above the established MCLs;
- 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.

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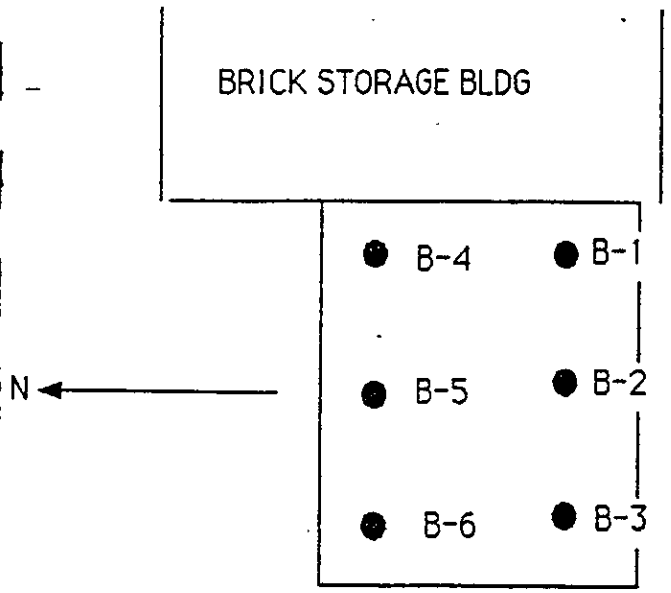


ASPHALT YARD AREA BORE SAMPLE GRID # 1
1518 E. 12th Street Oakland, CA.

FIG 1

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: [signature] Date: 9/18/96

Reviewed by

Name: **Barney Chan** Title: **Haz Mat Specialist**

Signature: [signature] Date: 9/17/96

Name: **Thomas Peacock** Title: **Supervisor**

Signature: [signature] Date: 9-18-96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 9/19/96 RB Response: Approved

RWQCB Staff Name: **Kevin Graves** Title: **AWRCE**

Signature: [signature] Date: 10-10-96

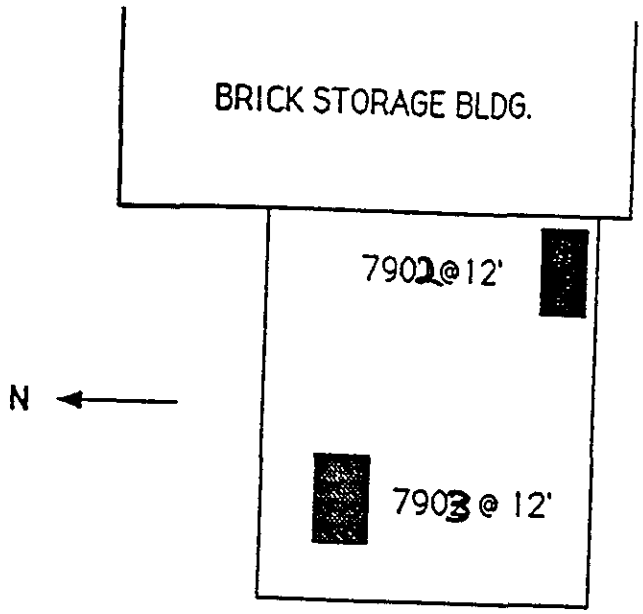
VII. ADDITIONAL COMMENTS, DATA, ETC.

In August 1989 two 1K-gallon USTs used for gasoline storage were removed by Mr. David Doyle. (It was not until May 1990 when the USTs were finally hauled by Erickson for proper disposal.) The tank pit was then backfilled with clean sand. Because the USTs were removed without Alameda County, Department of Environmental Health's oversight, additional subsurface investigations were required.

In November 1989 six soil borings (B-1 through B-6) were advanced through the former tank excavation to a depth of ~11.5'bg. Soil samples were collected from native clay sediments. Up to 646 ppm TPHg and 0.916, ND, 1.9, and 1.1 ppm BTEX, respectively, were identified. (See Fig 1, Table 1)

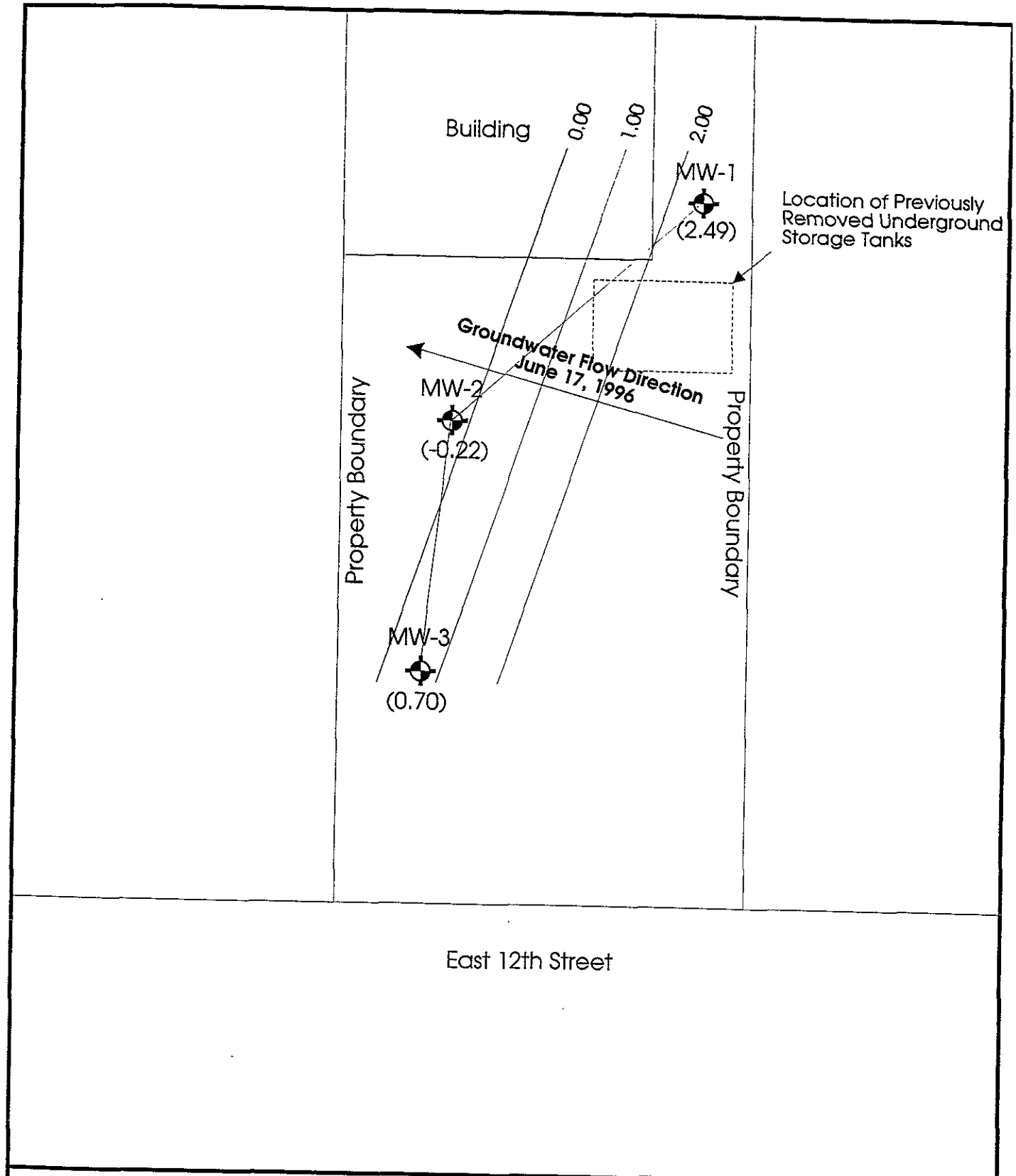
The pit was re-excavated, removing most of the clean sand. Three small pockets of clay soil appeared contaminated and were removed, amounting to no more than 1/4 cy of impacted soil. Confirmatory soil samples contained ND for TPHg and 0.029, 0.017, 0.045, and 0.026ppm BTEX, respectively. (See Fig 2, Table 2)

Three groundwater monitoring wells (MW-1 through MW-3) were installed in December 1992. Soil samples collected (3 each) from each borehole did not contain TPHg or BTEX. The initial groundwater sample contained low levels of TPHg and TEX in well MW-1. Three subsequent sampling events did not identify TPHg or BTEX. (See Fig 3, Table 3)



ASPHALT YARD AREA BACKHOE SAMPLE #2
1518 E. 12th Street Oakland, CA.

FIG 2



1.00 = Equipotential Line

N

Scale: 1" = 15'

ALL ENVIRONMENTAL, INC.

3364 MT. DIABLO BOULEVARD, LAFAYETTE, CA

DRAWN BY:		REVISED BY:
DATE: JULY, 1996		APPROVED BY:

GROUNDWATER MAP

1518 E. 12th St., Oakland

FIGURE 3

Table 1

Results:

	B-1 # 7821	B-2 # 7822	Detection Limit
Benzene	ND	ND	5 ug/kg
Toluene	ND	ND	5 ug/kg
Xylene	1100 ug/kg	ND	15 ug/kg
Ethylbenzene	1910 ug/kg	ND	5 ug/kg
Total Petroleum Hydrocarbons, as gasoline	.646 mg/kg	ND	10 mg/kg

Results:

	B-3 # 7823	B-4 # 7824	Detection Limit
Benzene	ND	ND	5 ug/kg
Toluene	ND	ND	5 ug/kg
Xylene	396 ug/kg	ND	15 ug/kg
Ethylbenzene	201 ug/kg	ND	5 ug/kg
Total Petroleum Hydrocarbons, as gasoline	67.8 mg/kg	ND	10 mg/kg

ND = None Detected

cont. Table 1

Results:

	B-5 # 7825	B-6 # 7826	Detection Limit
Benzene	ND	916 ug/kg	5 ug/kg
Toluene	ND	ND	5 ug/kg
Xylene	ND	98.5 ug/kg	15 ug/kg
Ethylbenzene	ND	182 ug/kg	5 ug/kg
Total Petroleum Hydrocarbons, as gasoline	ND	124 mg/kg	10 mg/kg

ND = None Detected

Joe E. Hodgkins, Ph.D., C.T.
Laboratory Director

Enclosure (Chain of Custody)

Table 2

Results:

	# 7902	# 7903	Detection Limit
Benzene	ND	29.3 ug/kg	5 ug/kg
Toluene	17.1 ug/kg	ND	5 ug/kg
Xylene	45.2 ug/kg	31.6 ug/kg	15 ug/kg
Ethylbenzene	26.2 ug/kg	17.6 ug/kg	5 ug/kg
Total Petroleum Hydrocarbons, as gasoline	ND	ND	10 mg/kg

ND = None Detected

Joe E. Hodgkins, Ph.D., C.T.
Laboratory Director

Enclosure (Chain of Custody)

Table 3

5.0 ANALYTICAL RESULTS OF SAMPLES

A total of three sets of water samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) (EPA method (5030/8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) (EPA method 8020/602). Laboratory results and chain of custody documents are included in Appendix B. Laboratory results and Chain of Custody documentation from previous sampling episodes are included in Appendix C.

Analytical results of water sample analyses to date are presented in the table below:

TABLE 2 - Groundwater Sample Analytical Data

WELL	DATE	TPH-GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	XYLENES (ug/L)
MW - 1	Dec. 92	480	ND	4.9	5.2	1.0
	Oct. 95	ND	ND	ND	ND	ND
	Feb. 96	ND	ND	ND	ND	ND
	Jun. 96	ND	ND	ND	ND	ND
MW - 2	Dec. 92	ND	ND	ND	ND	ND
	Oct. 95	ND	ND	ND	ND	ND
	Feb. 96	ND	ND	ND	ND	ND
	Jun. 96	ND	ND	ND	ND	ND
MW -3	Dec. 92	ND	ND	ND	ND	ND
	Oct. 95	ND	ND	ND	ND	ND
	Feb. 96	ND	ND	ND	ND	ND
	Jun. 96	ND	ND	ND	ND	ND

ug/L = Parts Per Billion (ppb)

ND = Non-Detect

AEI

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

All Environmental, Inc. 3364 Mt. Diablo Blvd. Lafayette, CA 94549	Client Project ID: Doyle	Date Sampled: 06/17/96
		Date Received: 06/24/96
	Client Contact: Bryan Campbell	Date Extracted: 06/24/96
	Client P.O:	Date Analyzed: 06/24/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*
EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
66214	MW-1	W	ND	ND	ND	ND	ND	ND	99
66215	MW-2	W	ND	ND	ND	ND	ND	ND	99
66216	MW-3	W	ND	ND	ND	ND	ND	ND	99
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

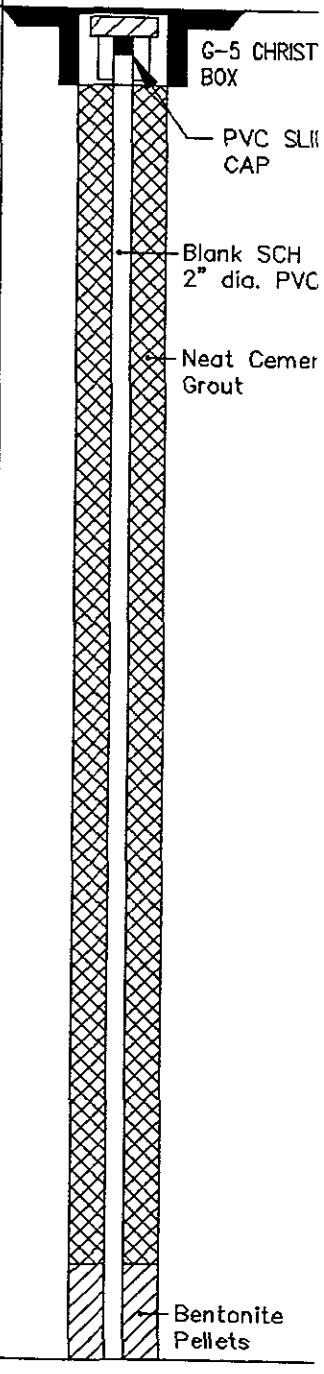
Edward Hamilton, Lab Director

PROJECT: 1518 E. 12TH STREET OAKLAND, CALIFORNIA	Log of Well No. MW-1
BORING LOCATION: 1518 E. 12TH STREET	ELEVATION: 23.32 ft
DRILLING CONTRACTOR: WEST HAZMAT	DATE STARTED 12/17/92 / DATE FINISHED 12/17/92
DRILLING METHOD: HOLLOW STEM AUGER	TOTAL DEPTH 30.1 ft. / SCREEN INTERV 15.1 ft.
DRILLING EQUIPMENT: SOIL MASTER 50	DEPTH TO WATER 23.1 ft. / CASING 2" PVC
SAMPLING METHOD: BRASS TUBES (MODIFIED SPLIT SPOON)	LOGGED BY G. LOWE
HAMMER WEIGHT: 140 lbs. / DROP: 30"	RESPONSIBLE PROFESSIONAL G. LOWE

DEPTH (FEET)	SAMPLES: SAMPLE NO.	SAMPLES: SAMPLE	SAMPLES: BLOWS/FOOT	DESCRIPTION (Surface Elevation)
0				CONCRETE (8" THICKNESS)
1				Light Yellowish brown sandy clay. (CL)
2				Light olive sandy clay (CL)
3				Dark olive sandy, gravelly clay. (CL)
4				Light Yellowish brown sandy, gravelly clay. (CL)
5			6	No samples retained. Liners not put
6			11	in sampler by driller. 12:30
			13	
7				Light Yellowish brown mottled olive gray silty sandy clay, stiff. No noticeable odor. (CL)
8				
9				
10			15	Light Yellowish brown mottled olive
	MW1-10		17	pebbly silty sandy clay. No noticeable odor.
11			21	(CL) 12:40
12				
13				Light yellowish brown silty sandy clay. Slight petroleum odor. (CL)
14				

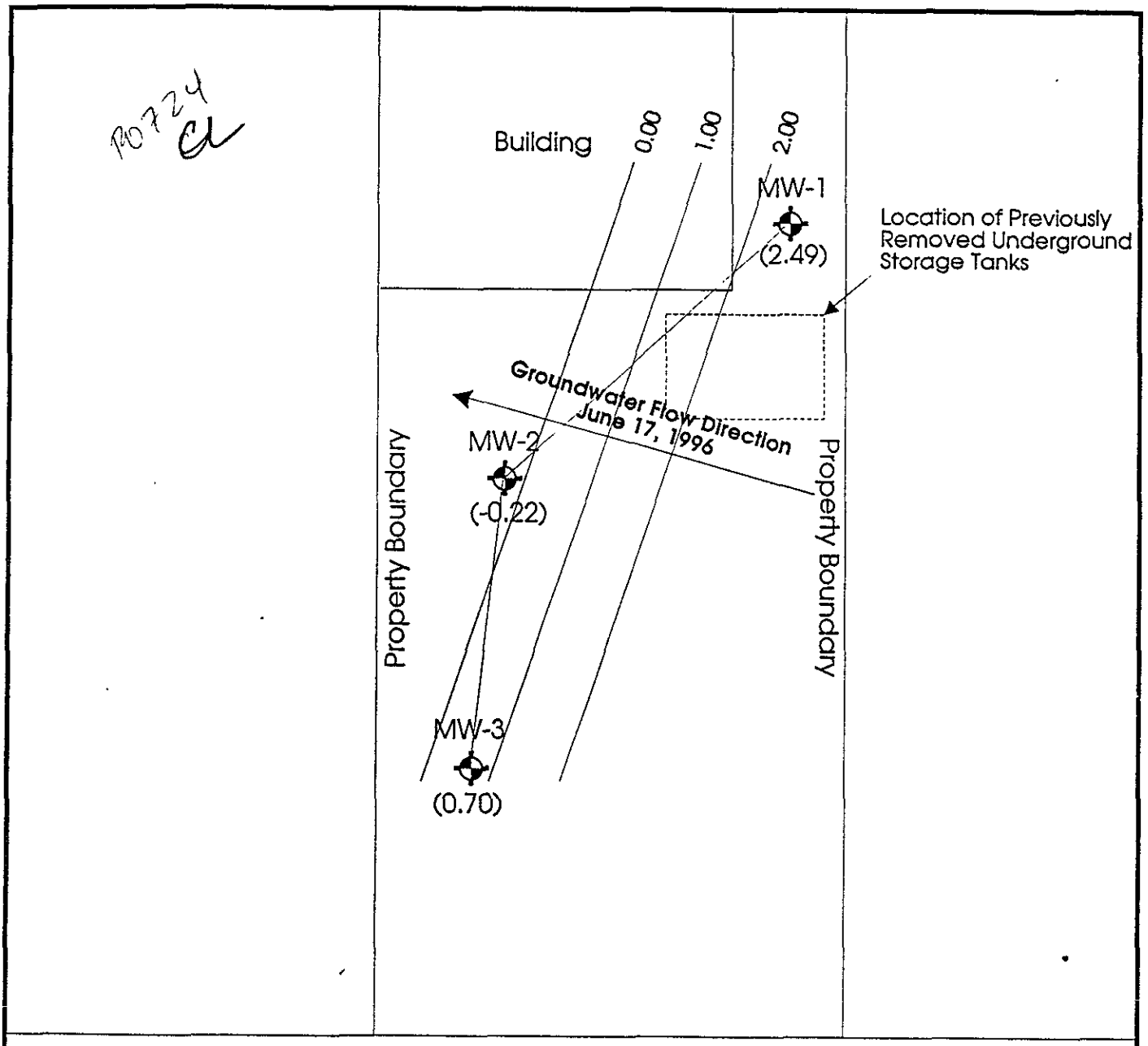
SOIL SYMBOL

WELL CONSTRUCTION DETAILS



ALL ENVIRONMENTAL, INC.

Project No. 1008



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DRAWN BY:		REVISED BY:
DATE: JULY, 1996		APPROVED BY:

GROUNDWATER MAP

1518 E. 12th St., Oakland | FIGURE 3