ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 714 - 14100 Doolittle Dr, San Leandro, CA 94577

March 27, 1995

Mr. Don Elgie
P.O. Box 203
Orinda, CA 94563

Dear Mr. Elgie:

This letter confirms the completion of site investigation and remedial action for the 8,000 gallon gasoline underground storage tank removed from the above site in July 1987.

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

Very truly yours,

Rafat A. Shahid, Director

cc: Edgar B. Howell, Chief, Hazardous Materials Division
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
files (elgie2)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **Date: January 20, 1995**

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: **Don Elgie Property**
Site facility address: **14100 Doolittle Dr, San Leandro 94577**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **714**
URF filing date: 1/20/95 SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Don Elgie	P.O. Box 203, Orinda 94563	510-254-1376

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	8,000	Gasoline	Removed	July 1987

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **1/4/95**
Monitoring Wells installed? **Yes** Number: **3**
Proper screened interval? **Yes, 13.5 - 24' bgs**
Highest GW depth below ground surface: **2.80'** Lowest depth: **4.18'**
Flow direction: **NW**
Most sensitive current use: **Domestic well**
Are drinking water wells affected? **No** Aquifer name:
Is surface water affected? **No** Nearest affected SW name: **NA**
Off-site beneficial use impacts (addresses/locations): **NA**

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	1 UST	Erickson	July 1987
Piping			
Free Product			
Soil			
Groundwater			
Barrels			

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before	Soil (ppm) After	Water (ppb) Before	Water (ppb) After
TPH (Gas)	NT	110	1,400*	ND
TPH (Diesel)				
Benzene	NT	.084	ND	ND
Toluene		ND	ND	ND
Ethylbenzene		1.5	ND	ND
Xylenes		11.0	10	ND
Oil & Grease				
Heavy metals				
Other				

*** Initial groundwater sample from well MW-1, on 1/13/89.**

Comments (Depth of Remediation, etc.):

A groundwater grab sample collected from the pit at the time of the UST removal exhibited up to 170 ppm TPH-G, 91, 260, 1,800 ppb BTX, respectively. No soil samples were collected at the time of removal.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **YES**
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **YES**
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: **None, pending site closure**
Number Decommissioned: **0** Number Retained: **3**
List enforcement actions taken: **None**

List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: Date: 3/9/95

Reviewed by

Name: Robert Weston Title: Sr. Haz Mat Specialist

Signature: Date: 3/9/95

Name: Madhulla Logan Title: Haz Mat Specialist

Signature: Date: 3/9/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 3/10/95 RB Response: approve

RWQCB Staff Name: Kevin Graves Title: AWRCE EG (Spvr)

Signature: for Date: 3/11/95

VII. ADDITIONAL COMMENTS, DATA, ETC.

When an 8K gasoline UST was removed in July 1987, a groundwater grab sample collected exhibited up to 170,000 ppb TPH-G, 91, 260, and 1,800 ppb BTX, respectively. Soil samples were not collected.

On Jan 5, 1989 a monitoring well was installed within the former tank pit. Soil samples collected from the boring at 13, 18, and 23' depths did not detect TPH-G or BTEX above the detection limits. However, groundwater detected low levels of TPH-G and xylene. Following three additional quarterly sampling events, groundwater still detected up to 590 ppb TPH-G, 7.5 ppb benzene and low levels of toluene, ethylbenzene, and xylenes.

Another well MW-2 was installed within 7.0' and southwest of the former tank pit. Soil from 5' exhibited 110 ppm TPH-G, 84, 350, and 2,800 ppb BEX, respectively. A groundwater sample detected 380 ppb TPH-G, 21, 19, 12, and 86 ppb BETX, respectively.

To verify groundwater flow direction three temporary piezometers were installed. Groundwater appears to flow to the N-NW, with a hydraulic gradient of .002 ft/ft. The piezometers were immediately abandoned by drilling out the casings and filling with cement grout after surveying.

So, well MW-3 was installed N-NW of the former tank pit in February 1991. Soil from 5' detected up to 91 ppm TPH-G, .051, .320, 1.5, and 11 ppm BTEX, respectively. The groundwater samples did not detect these constituents.

It appears there are two shallow, perched zones, one at 4-5.5' and the other at 9.2-11.0' depths. A deeper, silty sand water-bearing zone beginning at approximately 14' depth is confined. Well MW-3 is screened in the confined aquifer. This aquifer does not appear to be impacted by the petroleum hydrocarbon release as verified by 5 consecutive quarters of sampling, from Feb 1991 - Mar 1993, without detecting TPH-G or BTEX.

The shallow perched waters appear to be impacted with low levels of petroleum hydrocarbons. However, levels do not exceed RBCA lookup tables. It does not appear to have migrated to the lower aquifer. Residual hydrocarbons in soil and perched waters should naturally attenuate through absorption, dispersion, and biodegradation. Continued monitoring is not warranted, and site closure is recommended.

elgie1

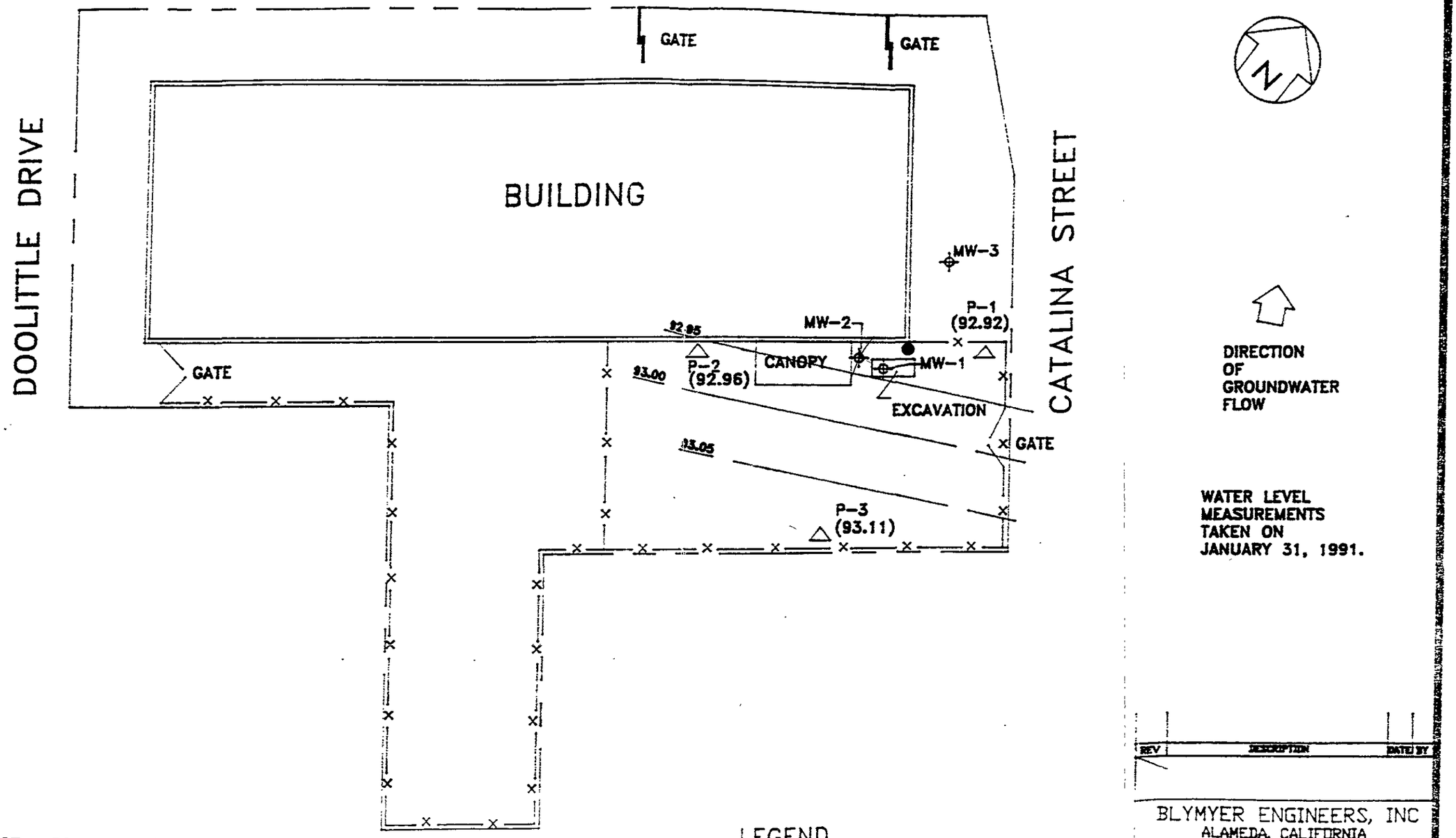

GATE
GATE
DOOLITTLE DRIVE
BUILDING
CATALINA STREET
MW-3
P-1
(92.92)
92.95
MW-2
GATE
P-2
(92.96)
93.00
CANOPY
MW-1
EXCAVATION
93.05
GATE
P-3
(93.11)
N
DIRECTION
OF
GROUNDWATER
FLOW
WATER LEVEL
MEASUREMENTS
TAKEN ON
JANUARY 31, 1991.
0
25
50
100
SCALE IN FEET
LEGEND
MONITORING WELL
PIEZOMETER
(93.11) GROUNDWATER ELEVATION (IN FEET)
BENCHMARK (ASSUMED 100 FEET)
REV
DESCRIPTION
DATE BY
BLYMYER ENGINEERS, INC
ALAMEDA, CALIFORNIA
SCALE SHOWN
DRN LW
DATE 2/91
APPROVED
FOR DON ELGIE PROPERTY
SAN LEANDRO, CA
TITLE GROUNDWATER CONTOUR MAP
JOB 91012
DWG NO. FIGURE 3

Table 1, Summary of Soil Sample Analytical Results
BEI Job No. 91012, Don Elgie Property
14100 Doolittle Drive, San Leandro, CA

Sample Identification (feet bgs)	Modified EPA Method 8015 (mg/kg)	EPA Method 8020 (µg/kg)			
	TPH as Gasoline	Benzene	Ethylbenzene	Toluene	Total Xylenes
MW-1 (13-13.5')	<1	<40	<40	<40	<40
MW-1 (18-18.5')	<1	<40	<40	<40	<40
MW-1 (23-23.5')	<1	<40	<40	<40	<40
MW-2 (5')	**110**	**84**	**850**	<25	**2,800**
MW-2 (11')	<1	<2.5	<2.5	<2.5	**5**
MW-3 (5')	**91**	**51**	**1,500**	**320**	**11,000**
MW-3 (9')	<1	<2.5	**2.6**	**11**	<2.5
MW-3 (14')	<1	<2.5	<2.5	<2.5	<2.5

< x = not detected at or above method detection limit (x)
bgs = below grade surface
mg/kg = milligrams per kilogram
µg/kg = microgram per kilogram
TPH = Total Petroleum Hydrocarbons

Table II. Summary of Groundwater Sample Analytical Results
BEI Job No. 91012, Don Elgie Property
14100 Doolittle Drive, San Leandro, CA

Well No.	Sampling Date	Modified Method 8015 (mg/L)	EPA Method 8020 (µg/L)			
		TPH as Gasoline	Benzene	Ethylbenzene	Toluene	Xylenes
MW-1	1/5/89*	1.4	<10	<10	<10	10
	3/29/89	0.20	<0.1	2.2	0.49	6.2
	8/22/89	0.59	7.5	3.4	6.2	22
	11/21/89	0.24	3.4	2.3	0.71	9.1
	5/30/91	0.20	0.6	0.6	0.8	<0.5
	8/29/91	0.25	6.8	15	<0.5	10
	12/6/91	0.12	<0.5	<0.5	<0.5	0.7
	3/10/92	<0.05	<0.5	<0.5	<0.5	<0.5
	7/27/94	ND	ND	ND	ND	ND
MW-2	8/27/90	0.38	21	19	12	86
	5/30/91	0.25	9.9	11	<0.5	15
	8/29/91	0.21	<0.5	<0.5	<0.5	0.8
	12/6/91	0.33	18	20	1.3	30
	3/10/92	0.72	38	45	3.7	93
MW-3	2/28/91	<0.05	<0.5	<0.5	<0.5	<0.5
	5/30/91	<0.05	<0.5	<0.5	<0.5	<0.5
	8/29/91	<0.05	<0.5	<0.5	<0.5	<0.5
	12/6/91	<0.05	<0.5	<0.5	<0.5	<0.5
	3/10/92	<0.05	<0.5	<0.5	<0.5	<0.5

<x = not detected at or above method detection limit (x)
mg/L = milligrams per Liter
µg/L = microgram per Liter
TPH = Total Petroleum Hydrocarbons

ENVIRO GROUP
INDUSTRIAL HYGIENE SERVICES
3190 Old Tunnel Road
Lafayette, CA 94549
415 930 8282

CGA CORPORATION MONITORING WELL
14100 DOOLITTLE DRIVE
SAN LEANDRO, CA

AS-BUILT DIAGRAM

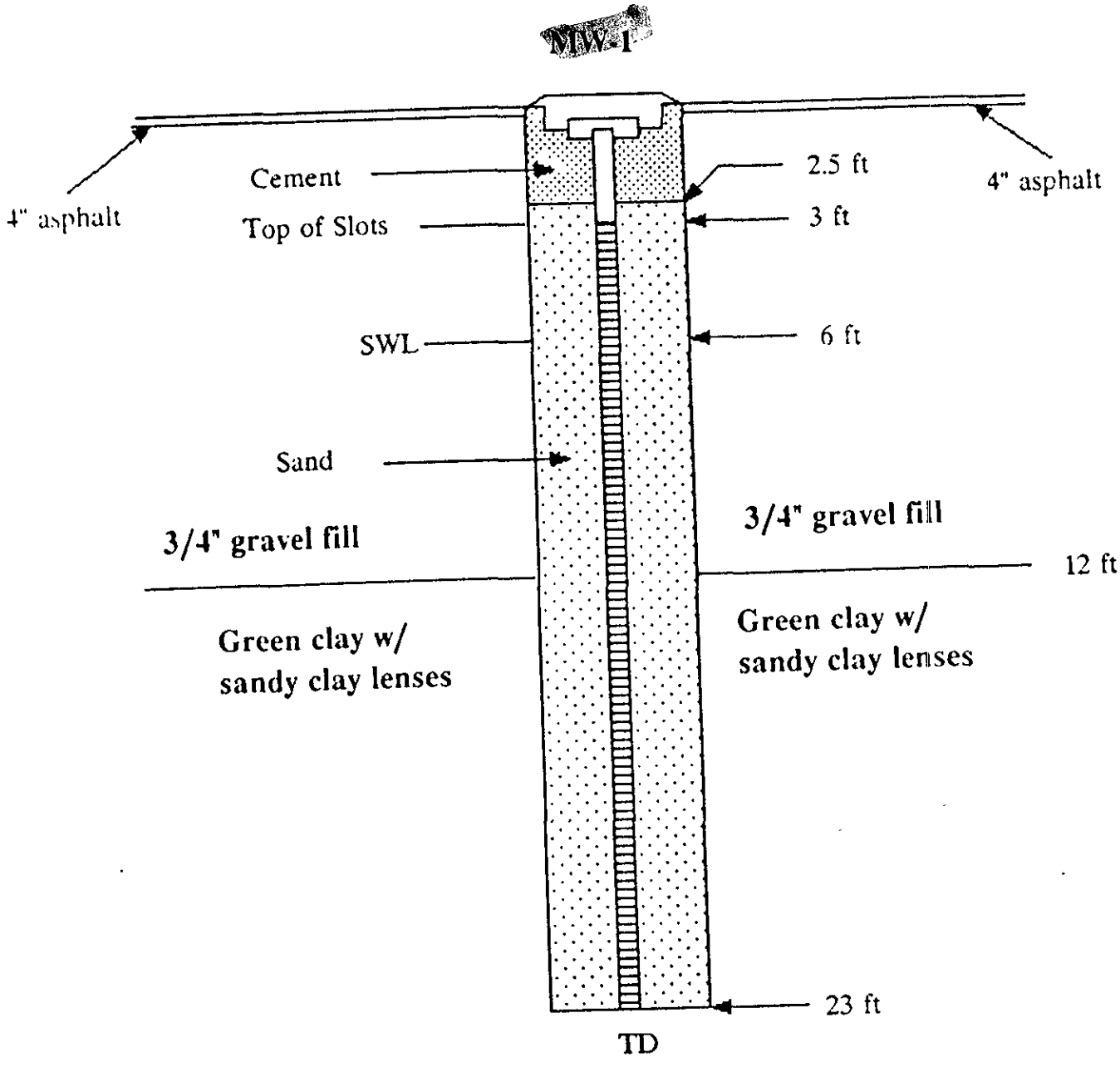
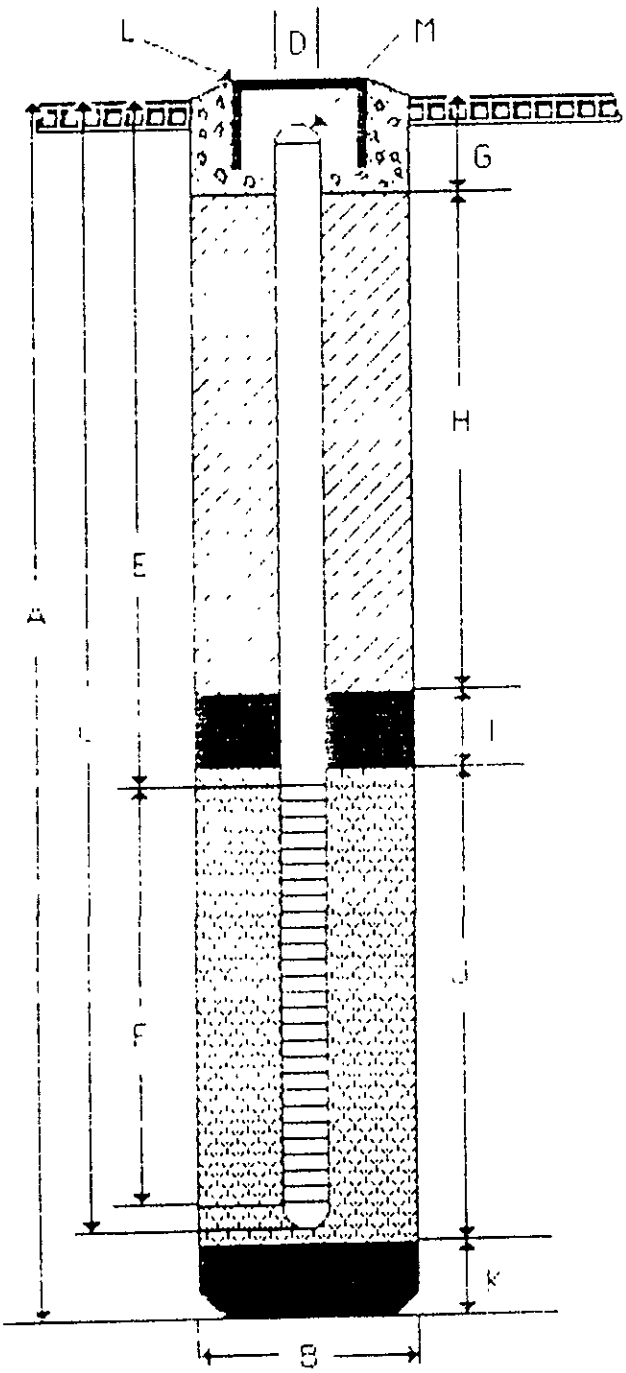


FIGURE 3

BLYMYER ENGINEERS, INC.

CLIENT DON ELGIE
SITE 14100 DOOLITTLE AVE
SAN LEANDRO, CA
DRILLER GREGG DRILLING
LOGGED BY DELANE FITZPATRICK

BORING/WELL NO MW-2
TOP OF CASING ELEV
GROUND SURFACE ELEV
DATUM
JOB # 90250



WELL CONSTRUCTION

A TOTAL DEPTH 160 FT

B. DIAMETER 8.0 IN

DRILLING METHOD HOLLOW STEM AUGER

C CASING LENGTH 156 FT
MATERIAL SCH 40 PVC

D CASING DIAMETER 2.0 IN

E DEPTH TO TOP PERFORATIONS 85 FT

F PERFORATED LENGTH
PERFORATED INTERVAL FROM [illegible]
PERFORATION TYPE SLOT
PERFORATION SIZE 0.020 IN

G SURFACE SEAL 1.0 FT
SEAL MATERIAL CONCRETE

H BACKFILL 43 FT
BACKFILL MATERIAL NEAT CEMENT

I SEAL 1.0 FT
SEAL MATERIAL BENTONITE

J GRAVEL PACK 105 FT
PACK MATERIAL #3 SAND

K BOTTOM SEAL ____ FT
SEAL MATERIAL N/A

L WELL BOX

M LOCKING WELL CAP

Blymyer Engineers, Inc.

Exploratory Bore Log

Client DON ELGIE
Site 14100 DOOLITTLE AVE
SAN LEANDRO, CA

Date 8/22/90
Job# 90250
Rig H.S.A.

Driller GREGG DRILLING
Logged by DELANE FITZPATRICK

Diameter 8"
Boring No MW-2

Description and Classification	Blow Counts	Soil Type	Depth	Sample	Notes
...halt, gravel, sand subgrade ...y-black clay, odor, medium plasticity, moderately ...se, minor silt, damp		CL CL	1		
...rk grey clay, mild odor (no sand), see above, damp		CL	5	X	
...ey clay, odor, organic material or degrade gravels, top ...sample tube empty, damp, some backfill (sand)	3-5-6				
...edium grey plastic clay, minor coarse fraction, e.g., ...bbles (1-2mm), moderately dense, no odor		CL			Initial water level
... thick (approx.) water bearing clay, grey clay, sticky, ...stic, wet, coarse pebbles (2-5 mm) degraded, minor silt	5-5-8	CL		X	
...se, dark grey clay, coarse pebbles 1-2mm (10%), non-...stic, no odor, damp, silt minor, no sand		CL CL			
...t grey clay, plastic, moderately dense, moist, minor silt			15		
...ndy clay grading to silty clay, wet at 16.5 ft	3-7-17	CL		X	
...own medium sand in clay, plastic, moderately dense, no ...or, some silt, moist, 1% coarse pebbles (2-3mm)					
			20		
			25		
			30		

MW-2 log

BLYMYER ENGINEERS, INC.

JOB#: 91012
SITE: SAN LEANDRO

LOG OF BORING NO. MW-3
CLIENT: DON ELGIE
DRILLER: GREGG DRILLING
LOGGED BY: H.W. SHORT

DATE: 2-6-91
RIG: MOBILE B-53
DIAMETER: 8"

EXPLANATION
▽ INITIAL WATER LEVEL
▼ STABILIZED WATER LEVEL

DEPTH (FT.)	BLOWS/6 IN.	P.I.D. (PPM)	SAMPLE TYPE AND DEPTH	UNIFIED SOIL CLASSIFICATION	DESCRIPTION
0				CONCRETE	0.0-0.4' CONCRETE
				CL	0.4-4.0' BROWN SANDY CLAY, VERY PLASTIC
	3-5-6				
	7-10-17		SOIL S-1	SC	4.0-5.5' BROWN, CLAYEY SAND, WET, FINE GRAINED, LOW PLASTICITY
5	6-10-15				
				CH	5.5-9.2' GRAY CLAY, VERY PLASTIC, SOME DARK ORGANIC MATTER
			SOIL		
	7-9-17		S-2	CL	9.2-11.0' BROWN SANDY CLAY, WET
10					
				CH	11.0-14.0' GRAY, STIFF, PLASTIC CLAY
			SOIL		
			S-3	SM	14.0-22.0' SILTY SAND, BROWN, WET, FINE GRAINED 1/2-3/4" GRAVELS, MICACEOUS
15					
20					
				CH	22.0-24.0' GRAY PLASTIC CLAY, FAT
25					TOTAL DEPTH 24 FEET

GRAPHIC LOG

WATER DEPTH
4.5'
10.5'
14.0'