

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3600 - 3927 1st Street, Livermore, CA ⁹⁴⁵⁵⁰

December 4, 1995

Mr. Sam Patel
3979 1st Street
Livermore, CA 94550

Dear Mr. Patel:

This letter confirms the completion of site investigation and remedial action for the three former underground storage tanks (2-300 and 1-550 gallon) removed from the above site on April 26, 1990. 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. Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Jun Makishima, Interim Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
files (patel112)

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CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: October 10, 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: El Dorado Motel
Site facility address: 3927 1st Street, Livermore 94550
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3600
URF filing date: 5/3/90 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Lallubhau Patel Attn. Sam Patel	3979 1st St, Livermore	510/447-2348

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	300	Gasoline	Removed	4/26/90
2	300	Gasoline	Removed	4/26/90
3	550	Unknown	Removed	4/29/90

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Leaking 300 gallon gasoline UST.
Site characterization complete? YES
Date approved by oversight agency: 2/17/95
Monitoring Wells installed? Yes Number: 3
Proper screened interval? No, from 35 to 45' in MW-1; 29 to 44' in MW-2
Highest GW depth below ground surface: 19.15 Lowest depth: 31.62' in MW-1
Flow direction: S, SE
Most sensitive current use: Commercial
Are drinking water wells affected? No Aquifer name: Mocho 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

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> (include units)	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank	3 USTs	Erickson, in Richmond	4/26/90
Piping			
Rinseate	700 gallon	Refinery Services in Patterson	4/16/90
Soil	Unknown qty	Bioremediated, fate unknown	
Groundwater			
Barrels			

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before ¹	After
TPH (Gas)	1,200	410	160	ND
TPH (Diesel)	530	200	210	ND
Benzene	ND	ND	0.33	ND
Toluene	9.5	.93	ND	ND
Ethylbenzene	8.7	.30	0.31	ND
Xylenes	34	1.5	0.30	ND
Oil & Grease	60			
Heavy metals Pb	54	ND (WET)		
Other Cl-HC	ND			
pH			11.5	7.8

NOTE: 1 From grab groundwater sample in boring B-2

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? **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: **NOVs issued 10/23/92, 9/30/94**

List enforcement actions rescinded: **Above. In compliance with continued quarterly monitoring.**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature:  Date: 10/11/95

Reviewed by

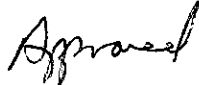
Name: Juliet Shin Title: Sr. Haz Mat Specialist

Signature:  Date: 10/10/95

Name: Dale Klettke Title: Haz Mat Specialist

Signature:  Date: 10/11/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 10/12/95 RB Response: 

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature:  Date: 10/23/95

VII. ADDITIONAL COMMENTS, DATA, ETC.

Three USTs from two separate pits (east and west pit) were removed in April 1990. Soil samples collected from the tanks in the east pit exhibited up to 1,200 ppm TPH-G, 530 ppm TPH-D, and ND, 9.5, 8.7, and 34 ppm BTEX, respectively. The west pit detected 690 ppm TPH-G, 60 ppm TOG, ND, ND, 4.5, and 8.0 ppm BTEX, respectively. Cl-HCs were not detected in either pit.

In October 1990 two groundwater monitoring wells (just SE of each pit) and one piezometer were installed to depths ranging from 44 to 55'. Soil samples collected from boring MW-1 and MW-2 at 8.5 to 10', 15', 20', 25', 35', and 40' depths did not detect TPH-G or BTEX. Initial groundwater samples did not detect TPH-G or BTEX. However, pH was at 12.0 in well MW-1.

In February 1991 four soil borings (B-1 thru B-4) were advanced around the east pit, and one soil boring (B-5) west of the west pit, to delineate the extent of soil contamination. TPH-G and TPH-D were found just west of the east pit. The pits were then overexcavated. Confirmatory soil samples from the east pit exhibited 410 ppm TPH-G, 200 ppm TPH-D and ND, .93, .30, 1.5 ppm BTEX respectively. Further excavation did not ensue due to obstruction from underground gas lines and 1st Street, a heavily travelled public road. It was estimated no more than one cubic yard of residual contaminated soil remains, and that no more than 0.122 liter of TPH-G is contained within this cubic yard of material. Samples from the west pit did not detect petroleum hydrocarbons sought. Grab groundwater samples

collected from boring B-2 and B-5 detected up to 160 ppb TPH-G, 210 ppb TPH-D, 0.33, ND, 0.31, and 0.30 ppb BTEX, respectively.

The monitoring wells have been sampled intermittently when water elevation was above the screened interval. Seven sampling events have not detected TPH-G, BTEX, or TOG. Once in June 1993, well MW-1 detected 1,100 ppb TPH-D. Since a travel blank was not submitted, diesel contamination may be due to field contamination, etc. Recent sampling (10/94 and 1/95) did not detect diesel. pH has also dropped to 7.6 to 7.8.

When well MW-1 was constructed in October 1990, groundwater was first encountered at approximately 40' bgs. The well was screened from 35 to 45' bgs. When this well was initially sampled, groundwater had risen to 31.62' bgs. Although depth to water has been above the screened intervals since the wells were installed, tank and soil excavation has removed most of the source of petroleum hydrocarbon contamination. Residual soil contamination should not pose a significant threat to groundwater quality. Grab groundwater samples collected from borings B-2 and B-5 suggest groundwater is impacted with low levels of petroleum hydrocarbons. Continued sampling is not warranted.

It is believed the excavated soil was treated with a bacterially-enriched compost. However, there is no report documenting the bioremediation process. The property owner does not know the fate of the treated soil.

CHECKED BY

DATE

BY

FIRST STREET

BUILDING
(Vacuum Repair)




MW-1

MW-2



SCALE:
1" = 20'

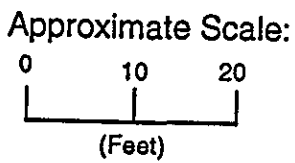
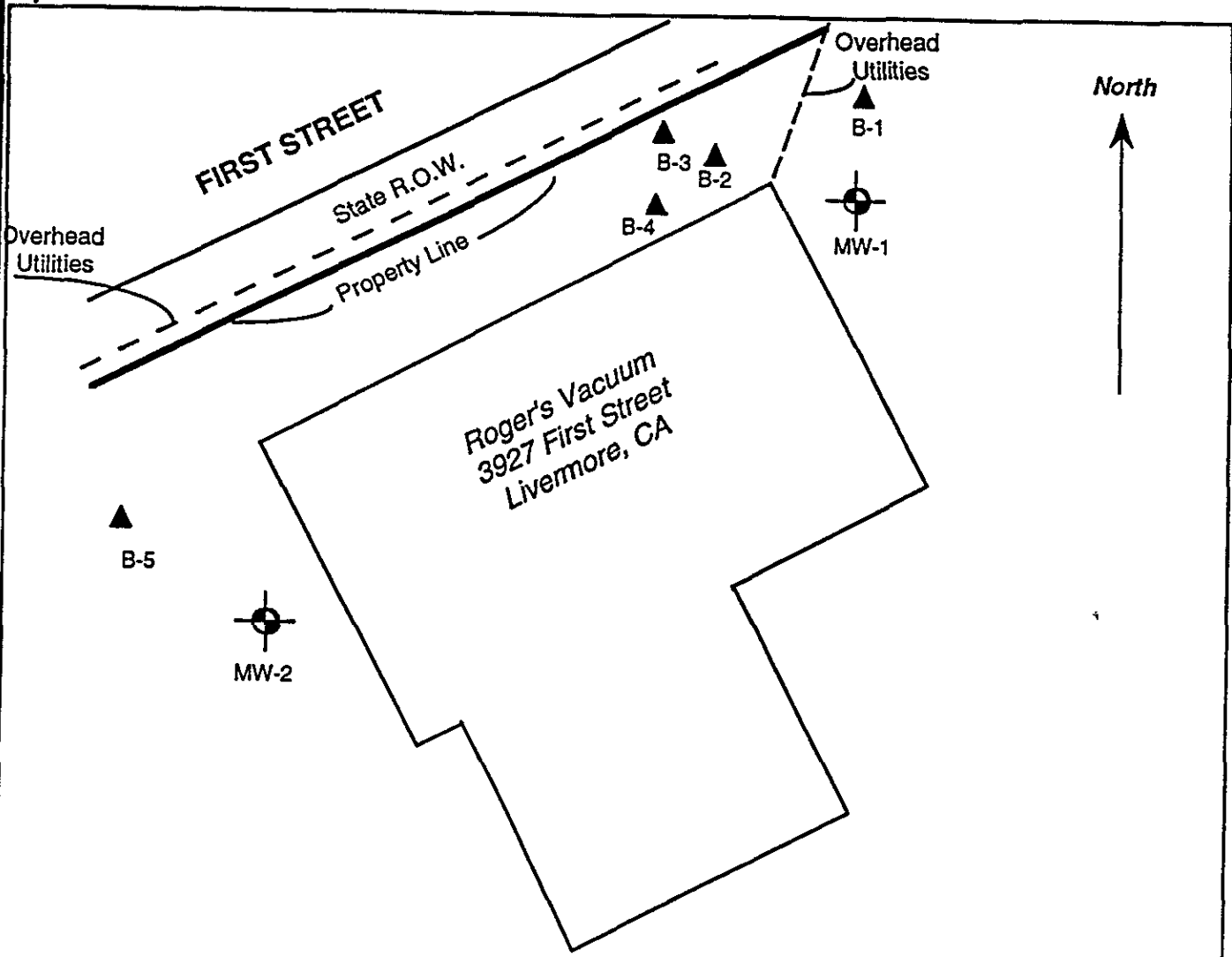
LEGEND:

-  - Location and Designation of Groundwater Monitoring Well
-  - Location and Designation of Piezometer
-  - Former Underground Tank Location



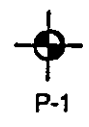
P-1

SITE PLAN



LEGEND

- ▲ B-1 Soil Boring
- ⊗ MW-1 Monitoring Well
- ⊗ P-1 Piezometer



Source: Remediation Services, Inc., 1990
and Uriah, Inc., 1992

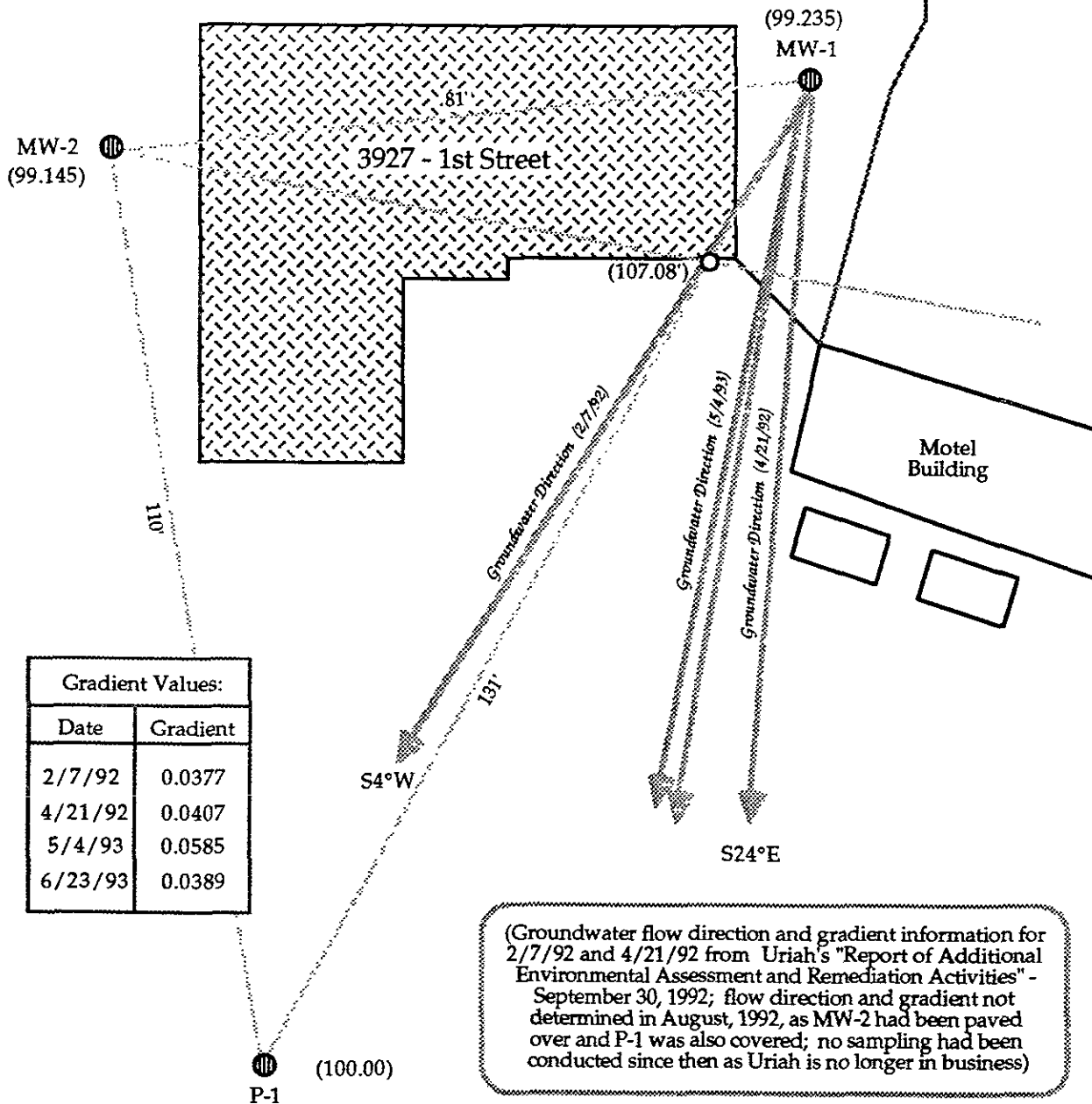
Former JST location

FIGURE 2: SITE PLAN
3927 First Street
Livemore, California

**ADVANCED ASSESSMENT AND
REMEDATION SERVICES**
5016 Gloucester Lane
Martinez, CA 94553



1ST STREET



(Groundwater flow direction and gradient information for 2/7/92 and 4/21/92 from Uriah's "Report of Additional Environmental Assessment and Remediation Activities" - September 30, 1992; flow direction and gradient not determined in August, 1992, as MW-2 had been paved over and P-1 was also covered; no sampling had been conducted since then as Uriah is no longer in business)

Figure 4 - Detail Map

Gradient and direction of groundwater flow at 3927 - 1st Street, Livermore, CA

0 20

Approx. scale (feet)

BT Associates
Environmental Services

31 Nightowl Court, Richmond, CA 94803

TABLE 1 - GROUNDWATER ELEVATION DATA AND FIELD MEASUREMENTS
3927 First Street
Livermore, California

Well #	Date	Relative Well Head Elevation (Foot)	Depth to Groundwater (Foot)	Relative Groundwater Elevation (Foot)	Temperature (°F)	pH	Conductivity µS	Color/Turbidity	Field work performed by	
MW-1	10/22/90	99.24	31.62	67.62	70.3	12.19	7370	white ppt.	BSK	
	01/14/92	99.24	28.71	70.53	61.3	11.7	1142	none	UI	
	04/21/92	99.24	23.62	75.62	66.0	11.2	1024	light	UI	
	08/06/92	99.24	25.69	73.55	62.6	11.0	390	very light	UI	
	05/04/93	99.24	20.38	78.86	?	?	?	?	BTA	
	06/23/93	99.24	23.34	75.90	?	?	?	?	BTA	
	10/31/94	99.24	24.39	74.85	67	7.9	1620	cloudy	AARS	
	01/27/95	99.24	19.15	80.09	65	7.8	1550	cloudy	AARS	
	06/23/95	99.24	19.45	79.79	67	7.4	1100	clear	AARS	
MW-2	10/22/90	99.15	30.07	69.08	74.9	7.54	1241	NR	BSK	
	01/14/92	99.15	27.08	72.07	62.2	8.3	982	light	UI	
	04/21/92	99.15	24.19	74.96	63.2	7.7	1014	light	UI	
	08/06/92	99.15	(Not done - well paved over with asphalt)							UI
	05/04/93	99.15	21.76	77.39	?	?	?	?	BTA	
	06/23/93	99.15	24.18	74.97	?	?	?	?	BTA	
	10/31/94	99.15	25.28	73.87	68	7.4	1300	cloudy	AARS	
	01/27/95	99.15	21.56	77.59	66	7.6	1410	cloudy	AARS	
	06/23/95	99.15	20.69	78.46	69	7.4	1100	clear	AARS	
P-1	10/31/94	100.00	29.78	70.22	NR	NR	NR	NR	AARS	
	01/27/95	100.00	28.44	71.56	NR	NR	NR	NR	AARS	
	06/23/95	100.00	26.04	73.96	68	8.0	1110	clear	AARS	

Notes:

BSK	BSK & Associates
UI	Uriah Inc.
BTA	BT Associates
AARS	Advanced Assessment and Remediation Services
NR	Not Recorded
?	

DATE: 10/09/90
 LOGGED BY: TWB
 ELEVATION: +534.20' MSL
 WATER LEVEL: +504.50 MSL (10/15/90)
 EQUIPMENT: B-53 Mobile Drill using 8" Hollow Stem Auger

LOG DESIGNATION MW-1 (Cont'd)

JOB: P90212
 FIGURE: 5

DEPTH, FEET	NOMINAL (1) DIAMETER, IN.	BLOWS / FOOT (2)	MOISTURE %	DRY DENSITY, PCF	SAMPLES	U.S.C.S.	SOIL OR ROCK DESCRIPTION	NOTES
25	2.0	29	-	-	4	ML CL	Grades to contain thin lenses of coarse sand and fine angular gravel, wet fracture surfaces, some fine sand lenses, damp to moist, firm	OVM to 0
30	2.0	20	-	-	5		Grades orange with spidery black veinlets, stiff, damp, few small pebbles, few small vertical pores	OVM to 0
35	2.0	28	-	-	6	ML	CLAYEY SILT: Mottle yellow-brown and light gray, thin fine sand lenses, damp, semi-dense, no pores, few black mottles	OVM to 0
40	2.0	46	-	-	7	ML CL	CLAYEY SILT/SILTY CLAY: Orange-red, very stiff to hard, damp, 1mm MnO concretions, no pores Thin lenses of saturated coarse sandy clay and clayey sand	▽ (ATD)* OVM to 0
45	2.0	22	-	-	8		Grades orange-brown, calcareous to stage IV, damp, no pores	OVM to 0
50	2.0	20	-	-	9	SW	CLAYEY SAND: Red-brown and gray, some fine gravel, wet, semi-dense	Boring terminated at 50 feet

THE LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED, AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

- (1) SAMPLER INSIDE DIAM.
- (2) 140# HAMMER - 30 INCH DROP.
- (P) HYDRAULICALLY PUSHED



DATE: 10/09/90
 LOGGED BY: TWB
 ELEVATION: +534.20' MSL
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 EQUIPMENT: B-53 Mobile Drill using 8" Hollow Stem Auger

LOG DESIGNATION MW-1

JOB: P90212
 FIGURE: 5

DEPTH, FEET	NOMINAL (1) DIAMETER, IN.	BLOWS / FOOT (2)	MOISTURE %	DRY DENSITY, PCF	SAMPLES	U.S.C.S.	SOIL OR ROCK DESCRIPTION	NOTES
5	2.0	17	-	-	1	FILL	GRAVELLY SILT/SILTY GRAVEL: Light-brown, damp	OVM to 0
						CL	SILTY CLAY: Brown, sandy, damp, firm no pores, occasional small black mottles	
10	2.0	43	-	-	2	ML	CLAYEY SILT: Light gray-brown, very stiff, damp, few coarse sand grains	OVM to 0
							Grades light blue-gray, no odor	
15	2.0	26	-	-	3		Grades mottle brown-gray with gray streaks	OVM to 0
						ML CL	CLAYEY SILT/SILTY CLAY: Mottle orange-brown and blue-gray, firm, damp to moist, no pores, few black mottles	
20	2.0	18	-	-				
25	2.0	29	-	-				

THE LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED, AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

- (1) SAMPLER INSIDE DIAM.
- (2) 140# HAMMER - 30 INCH DROP.
- (P) HYDRAULICALLY PUSHED

