

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 3709 - 822 Alice Street, Oakland 94607

June 9, 1995

Mr. Tim Murray
City of Oakland
7101 Edgewater
Oakland, CA 94621

Dear Mr. Murray:

This letter confirms the completion of site investigation and remedial action for the one former underground storage tank (280 gallon diesel tank) removed from the above site on March 24, 1989.

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

Rafat A. Shahid, Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
files (fire#12.2) - ee

MAY 30 1995 KG

95 JUN -2 PM 2:01

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

QUALITY CONTROL BOARD

I. AGENCY INFORMATION

Date: May 24, 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: City of Oakland Firehouse #12
 Site facility address: 822 Alice St, Oakland 94607
 RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3709
 URF filing date: 4/21/89 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
City of Oakland Attn. Tim Murray	7101 Edgewater Dr Oakland, CA 94621	510/238-6361

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	280	Diesel	Removed	3/24/89

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown
 Site characterization complete? YES
 Date approved by oversight agency: 4/17/95
 Monitoring Wells installed? Yes Number: 1
 Proper screened interval? Yes, 17-31' bgs
 Highest GW depth below ground surface: 21.08' Lowest depth: 21.75'
 Flow direction: South
 Most sensitive current use: Firehouse
 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:

<u>Material</u>	<u>Amount</u> (include units)	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank Piping Free Product	1 UST	H & H, San Francisco	3/24/89
Soil Groundwater Barrels	11.74 Tons	Liquid Waste Mgmt, McKittrick	4/28/89

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
TPH (Gas)				
TPH (Diesel)/TEH	860	NA	ND	ND
Benzene	ND	NA	ND	NA
Toluene	ND	NA	ND	NA
Ethylbenzene	ND	NA	ND	NA
Xylenes	ND	NA	ND	NA
Oil & Grease	250	ND	ND	NA
Heavy metals				
Other				

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: 0, pending site closure
 Number Decommissioned: 0 Number Retained: 1
 List enforcement actions taken: **None**

List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: *Eva Chu* Date: 5/26/95

Reviewed by

Name: Jennifer Eberle Title: Haz Mat Specialist

Signature: *J Eberle* Date: 5-24-95

Name: Amy Leech Title: Haz Mat Specialist

Signature: *A Leech* Date: 5-25-95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 5/26/95 RB Response: *Approved*

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: *K Graves* Date: 6/1/95

VII. ADDITIONAL COMMENTS, DATA, ETC.

A 280 gallon diesel UST was reportedly removed on March 24, 1989. The tank was tar wrapped. Soil samples collected from native soil beneath the vent and fill ends exhibited up to 860 ppm TPH-D, and 250 ppm TOG. BTEX was not detected above detection limits. The pit was overexcavated, removing approximately 15 cy contaminated soil. A verification sample from the pit bottom did not detect TOG, the only contaminant sought. No analysis for TPH-D was performed after overexcavation.

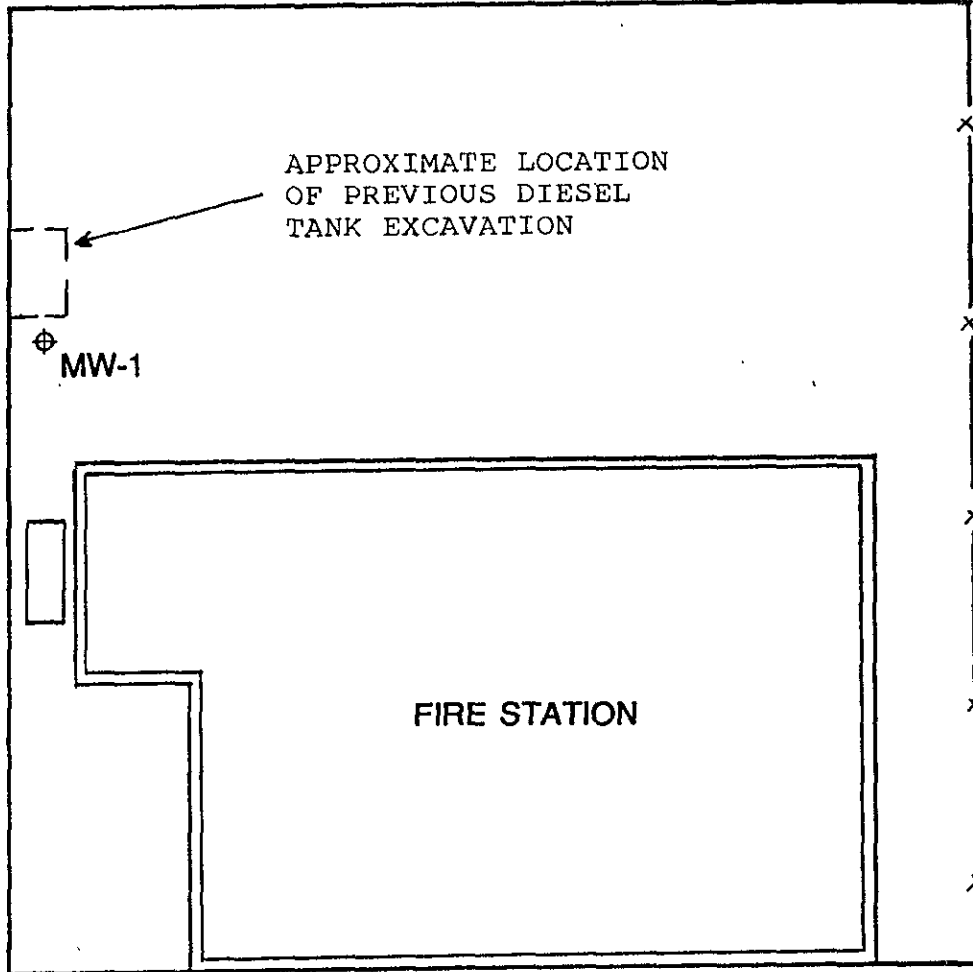
Two piezometers and one downgradient monitoring well were installed at the site. Soil samples collected from MW-1 (located within 5' of the former UST) at 4, 9, 14, and 19' depths detected approximately 76 ppm TOG and no BTEX. Groundwater level during drilling was at approximately 22.5' bgs. The initial groundwater sample did not detect TEH, TOG, or BTEX.

The well has been sampled for 4 consecutive quarters, from Nov 1989 to Aug 1990, and has not detected TPH-D above the detection limits. BTEX was not analyzed during these sampling events. However, with the absence of TPH-D in groundwater, it is unlikely there would be BTEX. Continued monitoring is not warranted.

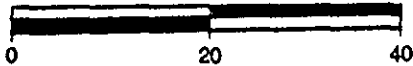


g t h . S T .

A L I C E A V E .





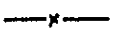
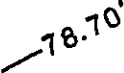
APPROXIMATE SCALE (FEET)

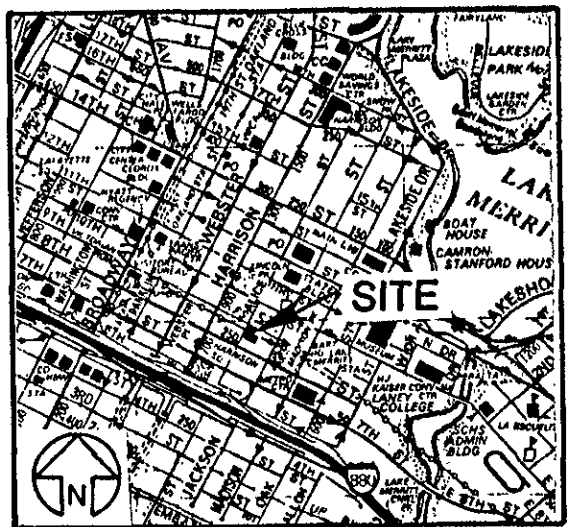


LEGEND

⊕ = MONITORING WELL

BLYMYER ENGINEERS, INC. 1829 CLEMENT AVE., ALAMEDA, CA 94501			
SCALE	SHOWN	FOR	FIRE STATION 12 OAKLAND, CA
DRAWN DATE	LW 11/89	TITLE	SITE PLAN
CHECKED			
APPROVED			
JOB NO	FS-051	DRAWING NO	FIGURE 1
			REV.

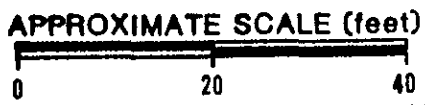
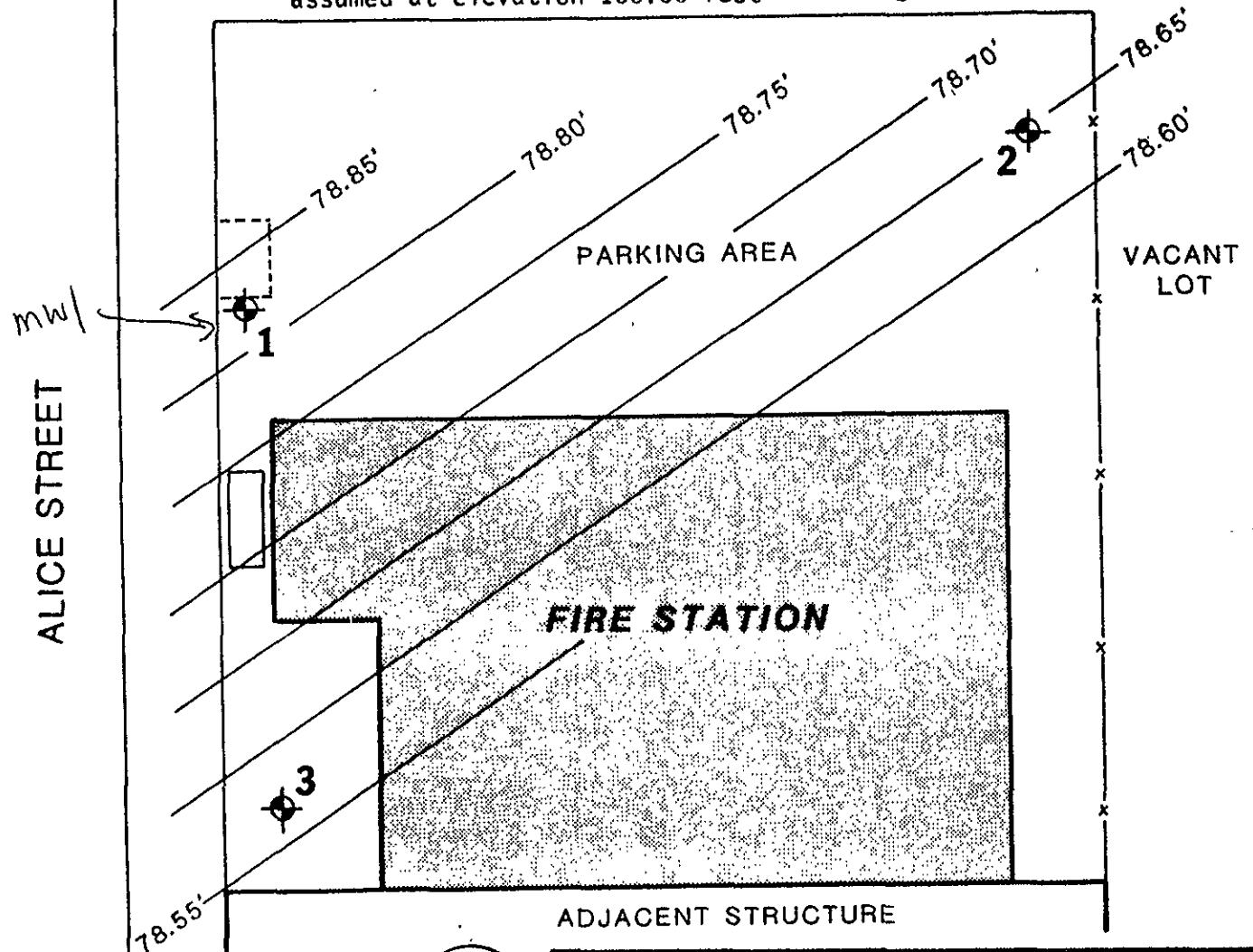
 TEST BORING
 APPROXIMATE LOCATION OF TANK EXCAVATION
 FENCE
 78.70' GROUNDWATER ELEVATION CONTOURS 6/29/89



9th STREET

ELEVATION REFERENCE: PG&E box assumed at elevation 100.00 feet

VICINITY MAP



SITE SKETCH		PLATE
FIRE STATION 12 - OAKLAND, CA		1
JOB NUMBER 364.015	DATE 6/22/89	
APPROVED		

Subsurface Consultants

APPROVED



Sample	Sample Type	Total Petroleum Hydrocarbons (ppm) ¹		Benzene (ppm)	Toluene (ppm)	Total Xylenes (ppm)	Ethylbenzene (ppm)
		TEH	TOG				
1 @ 4'	soil	ND ²	78	ND	ND	ND	ND
1 @ 9'	soil	ND	74	ND	ND	ND	ND
1 @ 14'	soil	ND	76	ND	ND	ND	ND
1 @ 19'	soil	ND	76	ND	ND	ND	ND
WWT	WWT	ND	ND	ND	ND	ND	ND

¹ Parts per million (mg/kg or mg/l)

² None detected, see attached Analytical Test Results for detection limits

IV SITE CONDITIONS

A. Surface

The site is currently occupied by a fire station. For discussion purposes, we will assume that the front of the fire station faces west. The site is located on an alluvial plain that slopes gently toward San Francisco Bay. The site elevation is approximately 30 feet (Mean Sea Level Datum).

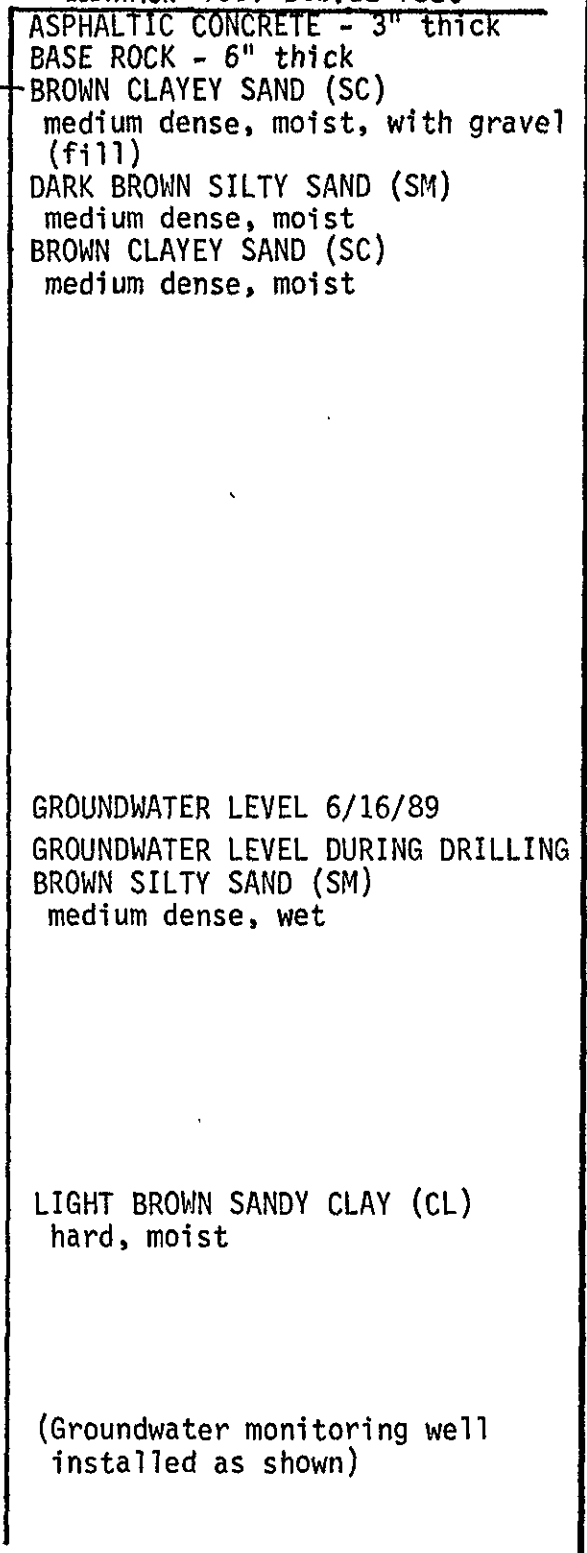
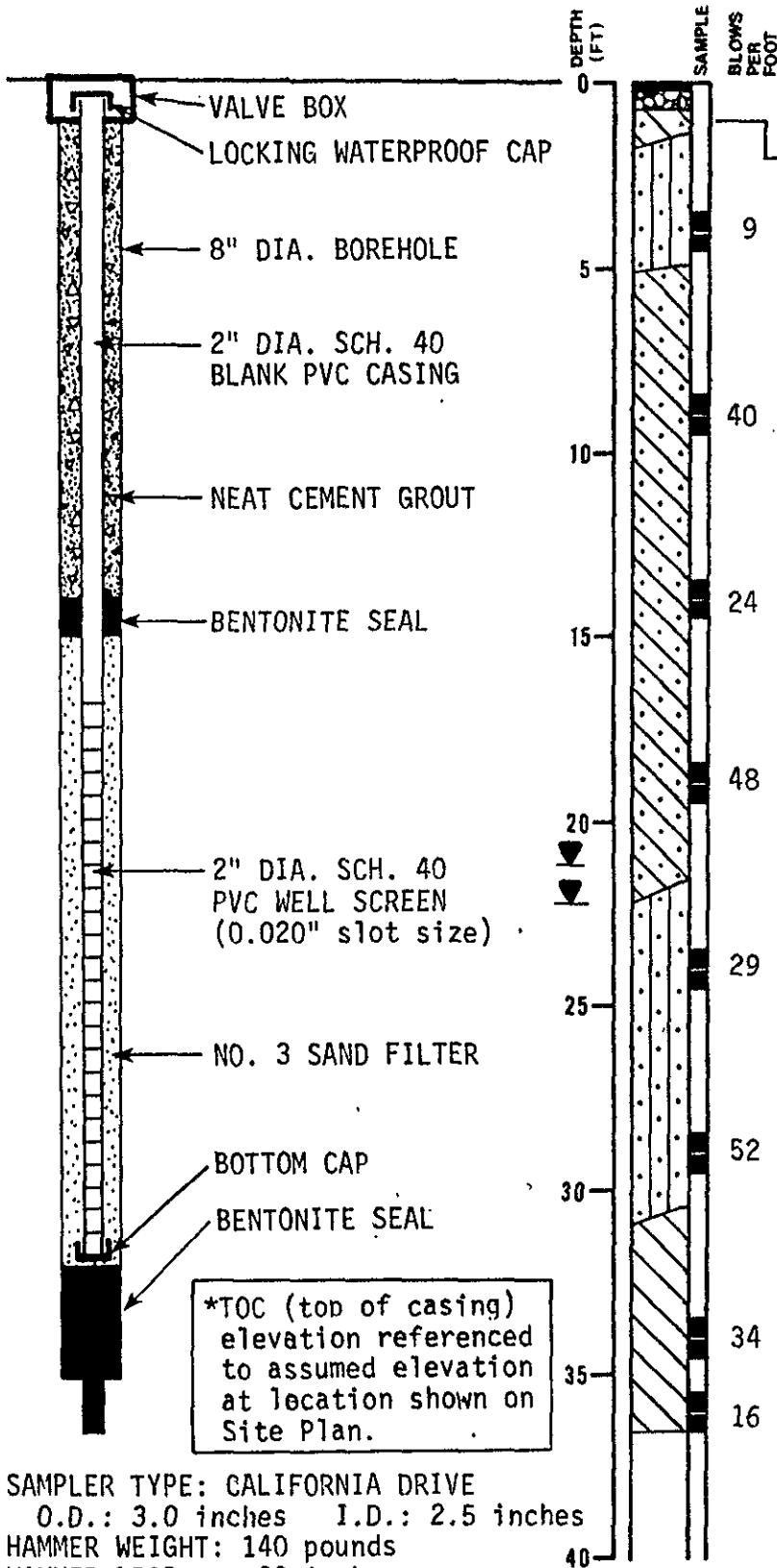
The fire station is a one-story structure with paved driveways and parking areas. The site borders Alice and 9th Streets to the west and north, a vacant lot to the east, and a commercial building to the south. A 500-gallon above-ground diesel fuel storage tank is currently located at the west end of

LOG OF TEST BORING 1

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 6/12/89

ELEVATION TOC: 100.12 feet*



*TOC (top of casing) elevation referenced to assumed elevation at location shown on Site Plan.

SAMPLER TYPE: CALIFORNIA DRIVE
 O.D.: 3.0 inches I.D.: 2.5 inches
 HAMMER WEIGHT: 140 pounds
 HAMMER DROP: 30 inches

(Groundwater monitoring well installed as shown)