



3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670
916/638-2085
FAX: 916/638-8385

November 14, 1996

Mr. Wyman Hong
Alameda County Flood Control
and Water Conservation District (Zone 7)
5997 Parkside Drive
Pleasanton, California

Subject: *Proposed Well Destruction*
Exxon Service Station No. 7-7003
349 Main Street
Pleasanton, California
Delta Project No. D094-838

Dear Mr. Hong:

Delta Environmental Consultants, Inc. (Delta), has been conducting an on-going investigation of petroleum hydrocarbons in the soil and ground water at the above-referenced site (Figures 1 and 2) since 1994. The investigation and remediation activities are being performed by Delta for Exxon Company U.S.A. (Exxon), at the request of the Alameda County (Zone 7) Water Agency, Water Resources Management. Delta is now requesting a permit to properly destroy two of the eight monitoring wells. The location of the two monitoring wells (MW-2 and MW-8) are shown in Figure 1. Well construction details for MW-2 and MW-8 are included in Enclosure A. The purpose of the well destructions is to allow for property improvements and development.

The two monitoring wells will be destroyed by removing the existing well covers (steel manholes), followed by overdrilling each well to its total depth of approximately 41 feet (MW-1) and 26 feet (MW-8) with 12-inch hollow stem augers. The drilling will be performed with a truck-mounted, hollow stem auger drilling rig. Upon completion, the overdrilled monitoring well boreholes will immediately be backfilled to within 1-foot of surface grade with cement grout slurry as required by Alameda County Flood Control.

Attached is a complete drilling permit application. Delta would like to perform the proposed drilling during the week of November 25, 1996, therefore, your prompt response would be greatly appreciated. Construction activities for development of the site are scheduled for the first week of December 1996.

Mr. Wyman Hong
November 14, 1996
Page 2


If you have any questions regarding this project, please contact Keoni Almeida at (916) 638-2085.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



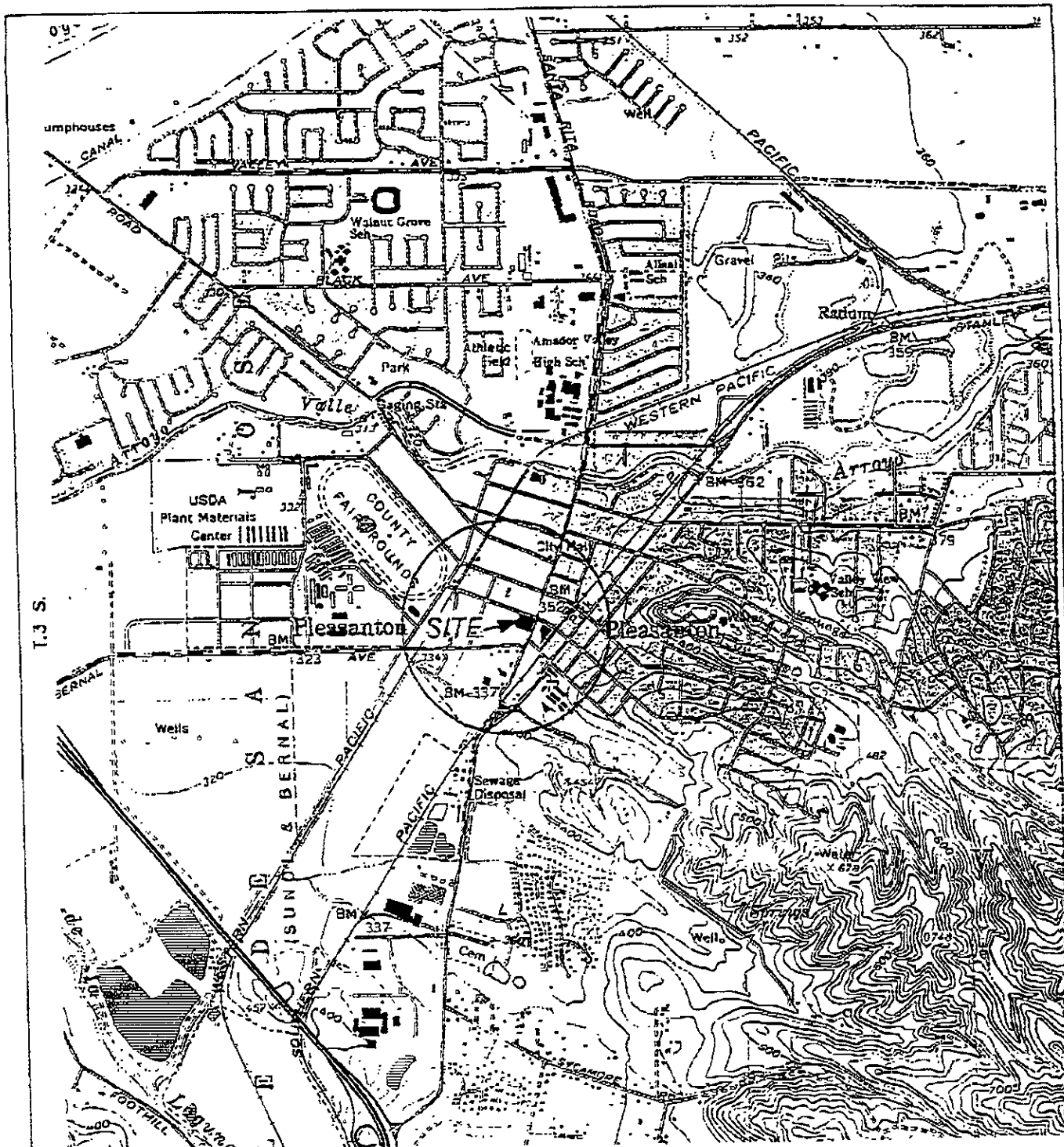
Benjamin I. Henningburg
Staff Geologist



Charles Keoni Almeida
Project Manager

BIH (CL001.838)
Enclosures

cc: Mr. Roger Hicks, Exxon Company, U.S.A.
Mr. Jerry Killingstad, Alameda County Flood Control and Water Conservation District (Zone 7)
Mr. Sum Arigalia, California Regional Water Quality Control Board, San Francisco Bay Region
Mr. Craig Semmelmeier



GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 DUBLIN & LIVERMORE, CA
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980

North

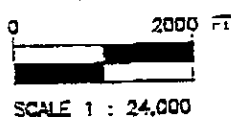
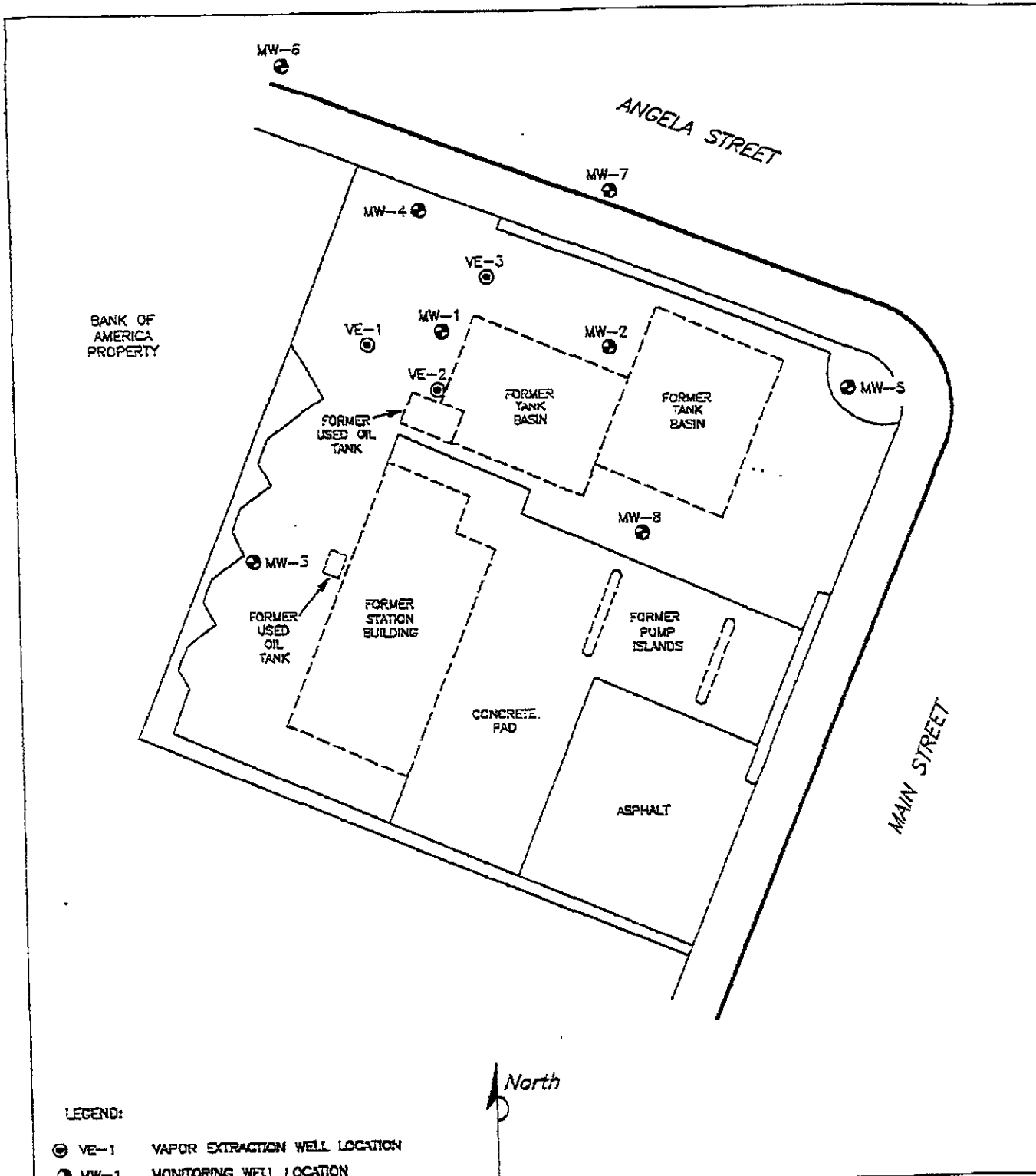


FIGURE 1
 SITE LOCATION MAP
 EXXON STATION NO. 7-7003
 349 MAIN STREET
 PLEASANTON, CA.

PROJECT NO. D084-838	DRAWN BY LH 8/24/84
FILE NO.	PREPARED BY REC
REVISION NO. 1	REVIEWED BY <i>[Signature]</i> 10/14/95

Delta
 Environmental
 Consultants, Inc.



LEGEND:

- ⊙ VE-1 VAPOR EXTRACTION WELL LOCATION
- ⊙ MW-1 MONITORING WELL LOCATION

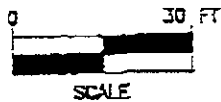


FIGURE 2
SITE MAP
EXXON STATION NO. 7-7003
349 MAIN STREET
PLEASANTON, CA.

PROJECT NO. 0084-838	DRAWN BY LH 7/24/98
FILE NO. 94-838-1	PREPARED BY CKA
REVISION NO. 3	REVIEWED BY CWA

Delta
Environmental
Consultants, Inc.

ENCLOSURE A

Well Construction Details

Total depth of boring: 41 feet Diameter of boring: 10 inches Date drilled: 2-13-90
 Casing diameter: 4 inches Length: 40 feet Slot size: 0.020-inch
 Screen diameter: 4 inches Length: 13-1/2 feet Material type: Sch 40 PVC
 Drilling Company: Kvilhaug Well Drilling, Inc. Driller: Rod and Paul
 Method Used: Hollow-Stem Auger Field Geologists: Keith and Steve

Depth	Sample No.	Blows	P.L.D.	USCS Code	Description	Well Const.
0					Asphalt (3 inches).	
2				SW	Gravelly sand.	
4				SM	Silty sand, trace gravel, brown, damp, dense.	
6	S-6	7 15 20	1.0			
8				ML	Clayey silt, with sand, brown, dry to damp, low plasticity, hard.	
10	S-11	25 35 40	0.6			
16	S-16	15 20 25			Sandy silt, some gravel, damp. Grades less gravel, more sand.	
20	S-20	20 50	0.3			

(Section continues downward)



PROJECT NO. 19025-2

LOG OF BORING B-2/MW-2

Exxon Station No. 7-7003
 349 Main Street
 Pleasanton, California

PLATE

C-6

Depth	Sample No.	BLOWS	P.L.D.	USCS Code	Description	Well Const.
-22				ML	Sandy silt, more gravel with 1-2" well rounded cobble, brown, damp, low plasticity, hard.	
-24				GC	Clayey sand and gravel, brown, very moist, dense, with visible liquid surrounding gravel grains.	
-26	S-25.5	25 50	701			
-28	S-28.5	50	7		Well graded angular gravel.	
-30						
-30	S-30.5	20 50	250		More sand, grades from green to brown.	
-32				ML	Sandy silt, trace gravel and clay, brown, wet, low plasticity, hard.	
-34	S-33.5	10 12 25	25			
-36	S-35	40 50	1.3	GP	Sandy gravel, angular, brown, wet, dense.	
-38				CL	Gravelly clay, some sand, brown, moist to very moist, low plasticity, hard.	
-38	S-38.5	15 25 40	1.3			
-40						
-42					Total Depth = 41 feet.	
-44						
-46						
-48						
-50						



PROJECT NO. 19025-2

LOG OF BORING B-2/MW-2

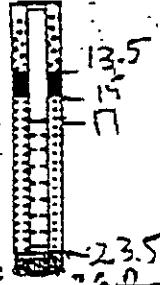
Exxon Station No. 7-7003
349 Main Street
Pleasanton, California

PLATE

C-7



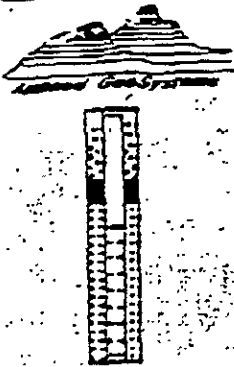
7-7003
B-19/MW-8
Hole - 12"
well - 4"
Screen 0.01



Job No: 7-7003	Client: Exxon	Location: Pleasanton
Drilling Method: Hollow Stem Auger	Boring No.: B-19/MW-8	
Drilling Company: Exploration Geoserv.	Sheet No.:	
Drillline Crew: Dave and Dennis	Lot: 2	
Geologist: B. Steinhilber	Drilling Time:	
Sample Method: Silt Spoon Sampler	Start:	Finish:
Water Level: 19.50' 18.20'	Time: 10:30	1:25
Date: 5/4/93	5/4/93	5/4/93
Casing Depth: Auger 23.5'		5/4/93 5/4/93

Elevation: 23.5

Recovery	Sample Type	Sample Depth	Blows Per bin.	Moisture Content	Product Odor	Depth in Feet	USCS Code	Surface Conditions:
						0		Asphalt 4"
						1	GP	Sandy gravel; brownish gray, damp, dense, loose
						2	ML	Sandy silt with clay and gravel; brown, damp, low plasticity, stiff
						3		fine gravel with gravel
						4	SM	Silty sand, brown, damp, loose
12"	25	4.5	5	5	damp	5		
		5.5	5			6		
						7		
						8	CL	Sandy clay, trace fine gravel, brown, moist, low plasticity, stiff
						9		
18"	25	9.5	5	6	moist	10		
		14	10			11		
						12		
						13		
						14		
18"	25	14.5	6	11	damp	15	ML/SC	Sandy silt with clay and gravel, light brown mottled gray and red, moist, low plasticity, very stiff, interbedded with silty sand with gravel, light brown mottled gray and red, moist, medium dense with visible staining, roots; noticeable product odor
		16	15			16		
						17		
18"	25	17	6	8	moist	18	SC	clayey sand with gravel, light brown mottled gray and red, moist, medium dense, obvious product odor, roots
		18.5	11			19		



B-19/MW-8
7-7003

Job No.:	Client:	Location:
Drilling Method:	Boring No.: B-19/MW	
Drilling Company:	Sheet No.:	
Drilling Crew:	2042	
Geologist:	Drilling Time:	
Sampling Method:	Start:	Finish:
Water Level:	Time:	Time:
Time:	Date:	Date:
Casing Depth:		

ACUB: Elevation:

Recovery	Sample Type	Sample Depth	Blows Per 6in.	Moisture Content	Product Odor	Depth in Feet	USCS Code	Surface Conditions:
8"	25"	19.5 21	17 24	not	3.5	20	GP	Sandy gravel with clay, known with cray-mottling wet. Very dense.
						1	GL	
						2		
						3		
10"	25"	23.5 25	13 19 26	damp	12	4	CL	Sandy clay rich in clay, medium plasticity, hard.
						5		
11"	2"	25 26	35 50/6	damp	4	6		Intermittent sand, trace gravel
						7		
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3814

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Exxon Retail Station 7-7003
349 Main Street
Pleasanton, California

PERMIT NUMBER _____
LOCATION NUMBER _____

CLIENT
Name Ms. Muelia Grunster / Exxon Company, U.S.A.
Address P.O. Box 4032 Voice
City Concord, California Zip 94524-2032

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name Keoni Almeida
Delta Environmental Consultants Fax 916/638-8385
Address 3164 Gold Camp Dr #200 Voice
City Rancho Cordova, California Zip 95670

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

Domestic Industrial Other _____
Municipal Irrigation

DRILLING METHOD:

Mud Rotary _____ Air Rotary _____ Auger
Cable _____ Other OVER DRILL

DRILLER'S LICENSE NO. C-57 582696

WELL PROJECTS MW-2 / MW-8

Drill Hole Diameter	<u>10/12</u> in.	Maximum	
Casing Diameter	<u>4/4</u> in.	Depth	<u>41/26</u> ft.
Surface Seal Depth	_____ ft.	Number	<u>2</u>

GEOTECHNICAL PROJECTS

Number of Borings	<u>2</u>	Maximum	
Hole Diameter	<u>10/12</u> in.	Depth	<u>41/26</u> ft.

ESTIMATED STARTING DATE Nov 25, 1996
ESTIMATED COMPLETION DATE Nov 30, 1996

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [Signature] Date 11/19/96

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

Approved _____ Date _____