June 19, 1998

Mrs. Mary Petsas 16035 East 14th Street San Leandro, CA 94578

Re: Well Destruction, 16035 East 14th Street, San Leandro, CA 94578

Dear Mrs. Petsas:

Tank Protect Engineering of Northern California, Inc. (TPE) is pleased to submit this letter report concerning the well destruction for the above mentioned subject site. Monitoring well installation is summarized and the well destruction is discussed in detail.

Background

On April 16, 1993, TPE and P.C. Exploration Inc.[(PC) C57 drilling license number 265556], drilled 3 soil borings for the construction of groundwater monitoring wells MW-1, MW-2, and MW-3. Soil borings for the groundwater monitoring wells were drilled to a depth of about 15.0 feet, 18.0 feet, and 17.0 feet, respectively, and converted to a monitoring well by installing a 2-inch diameter polyvinyl chloride (PVC) casing and 0.010-inch machine-slotted screen. Screen was placed from a depth of about 4 feet and extended to a depth of about 17 feet (see attached boring logs). Boring logs and well construction details are presented in TPE's August 13, 1993 PRELIMINARY SITE ASSESSMENT REPORT, MRS. MARY PETSAS, 16035 EAST 14TH STREET, SAN LEANDRO, CA 94578.

Well Destruction

Site closure was granted in a November 25, 1997 letter from the Alameda Health Care Services Agency (ACHCSA) recommending that the monitoring wells be decommissioned after monitoring activities were completed (see attached letter).

Before commencing destruction activities, TPE obtained a well destruction permit [(number 98WR219), see attached] from the Alameda County Public Works Agency.

On June 8, 1998, TPE and PC destroyed monitoring well MW-1, MW-2, and MW-3, by pressure grouting to 140 pounds per square inch (psi) with a tremie pipe. The wells were grouted from a total depth of about 15.0 feet, 18.0 feet, and 17.0 feet, respectively, to the surface using a neat portland cement grout.

Vault Box Destruction

During well destruction activities, all vault boxes were sealed with neat portland cement grout. The top of each vault box was sealed with concrete.

An additional copy of this letter report is included for your delivery to:

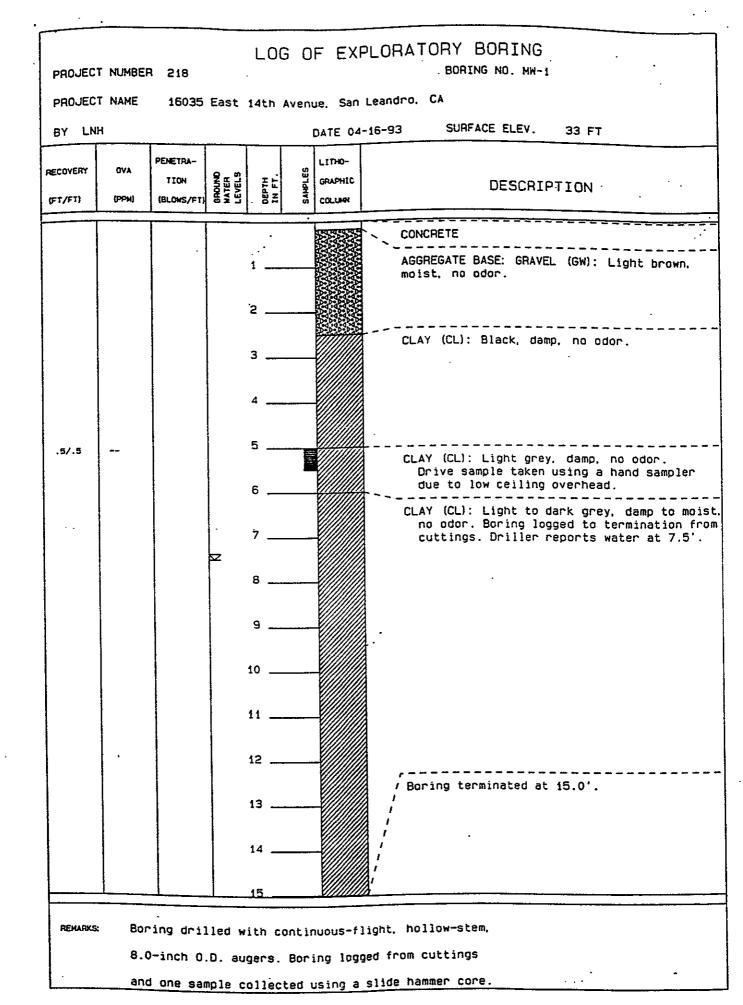
Mr. Scott O. Seery, CHMM
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

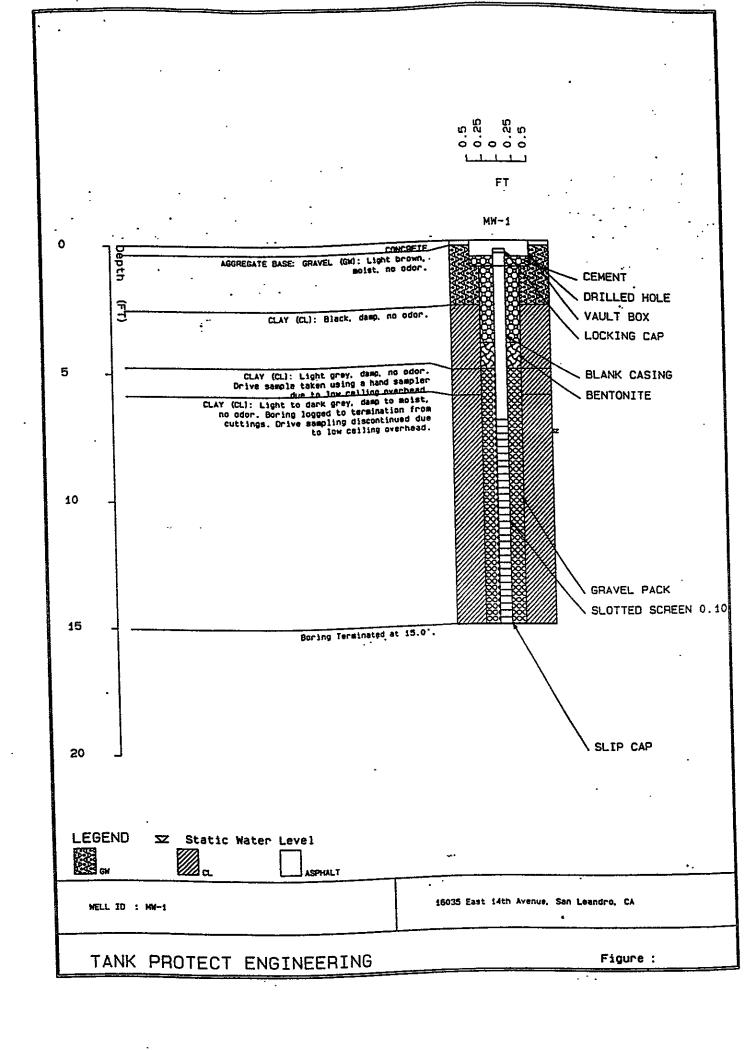
TPE recommends that this letter report be submitted with a cover letter from your office, and signed by an authorized representative.

If you have any questions, please call TPE at (510) 429-8088.

Sincerely,

Louis Travis III Project Engineer





LOG OF EXPLORATORY BORING

. PROJECT NUMBER 218

BORING NO. MW-2 .

PROJECT NAME 16035 East 14th Avenue. San Leandro. CA

BY LNH

DATE 04-16-93 SURFACE ELEV.

32 FT

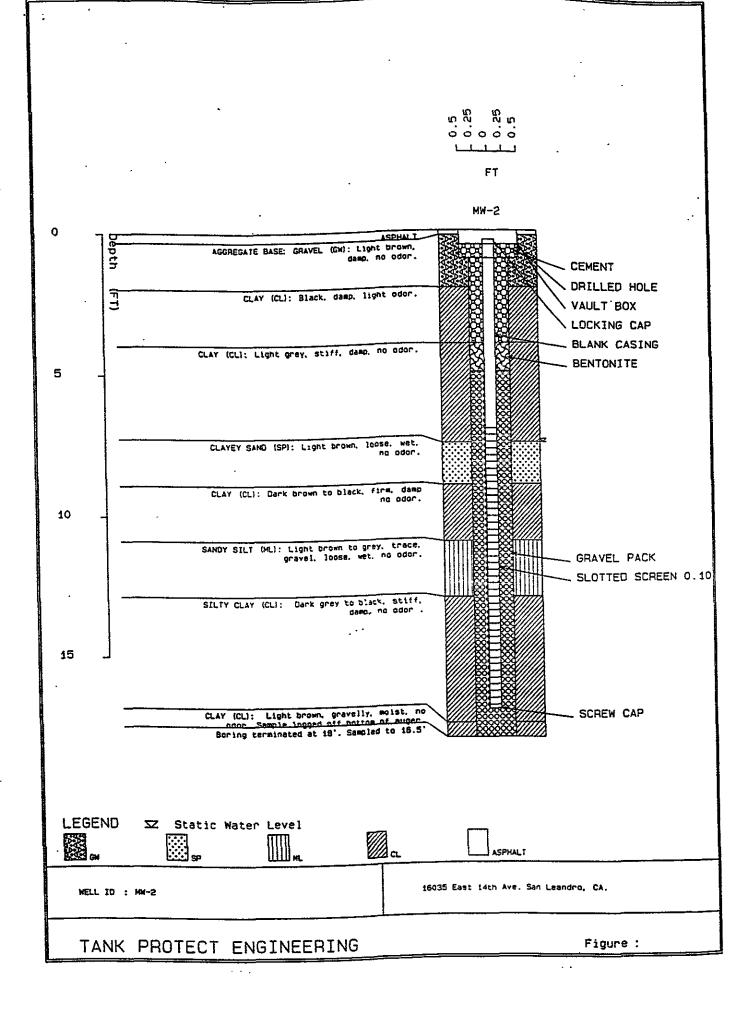
RECOVERY (FT/FT)	ОУА	PENETRA- TION (BLOMS/FT)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				-			ASPHALT
				i			AGGREGATE BASE: GRAVEL (GW): Light brown, damp, no odor.
:				²			CLAY (CL): Black, damp, light odor.
				3			
				4			CLAY (CL): Light grey, stiff, damp, no odor
1.5/1.5				5			-
1.5/1.5	20	13		6			•
			abla	7			
1.17/1.5		8	_	8			CLAYEY SAND (SP): Light brown, loose, wet, no odor.
0.83/1.5		8		9			CLAY (CL): Dark brown to black, firm. damp
				10			
0.5/1.5	8.0	4	1	11			SANDY SILT (ML): Light brown to grey, trace gravel, loose, wet, no odor.
1.5/1.5		9	}	15 —			g. over, 10036, mgt, no odgr.
				13			SILTY CLAY (CL): Dark grey to black, stiff
1.5/1.5	2.0	11		14			damp, no odor . / CLAY (CL): Light brown, gravelly, moist, r
			:	15			dor. Sample logged off bottom of auger. // Boring terminated at 18'. Sampled to 16.5'
1.5/1.5				16			// January 10.5
***************************************		10		17			;', ','
				18			/

REMARKS:

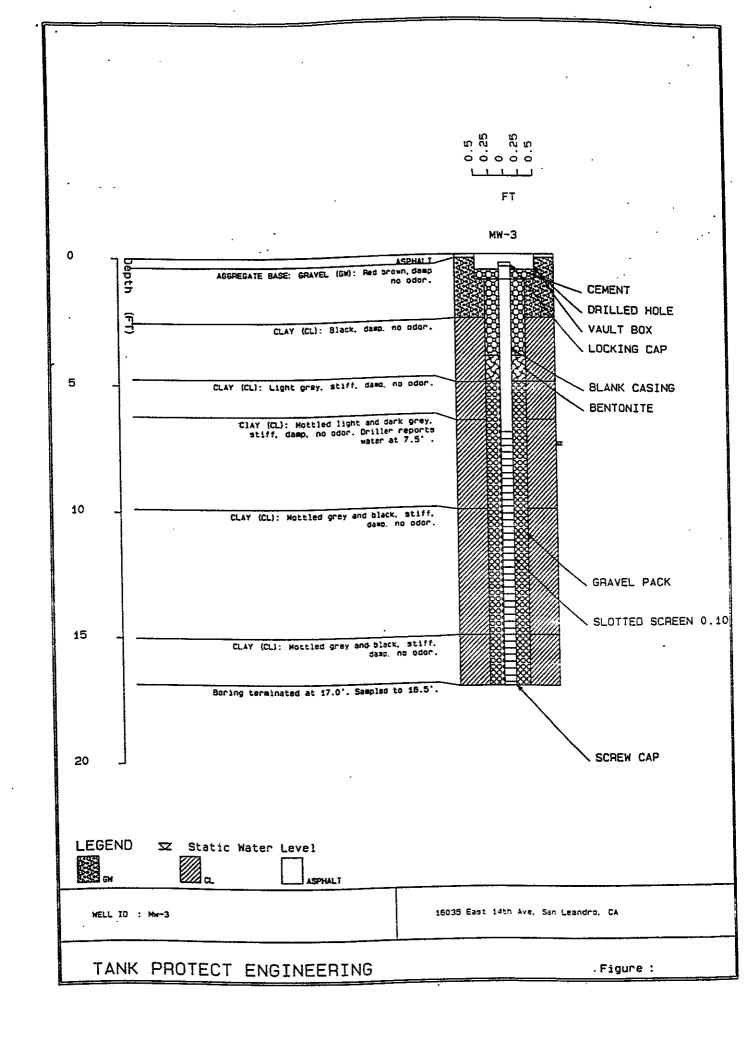
Boring drilled with continuous-flight, hollow-stem,

8-inch O.D. augers. Samples collected in a 2.0-inch

I.D. California sampler.



LOG OF EXPLORATORY BORING BORING NO. MW-3 PROJECT NUMBER 218 16035 East 14th Avenue, San Leandro, CA PROJECT NAME SURFACE ELEV. 33 FT DATE 04-16-93 BY LNH LITHO-PENETRA-RECOVERY OVA GRAPHIC TION DEPTH IN FT. DESCRIPTION COLUMN (BLOWS/FT) GT/FT) (PPM) ASPHALT AGGREGATE BASE: GRAVEL (GW): Red brown, damp no odor. CLAY (CL): Black, damp, no odor. CLAY (CL): Light grey, stiff, damp, no odor. 1.42/1.5 14.0 15.0 CLAY (CL): Mottled light and dark grey. stiff, damp, no odor. Driller reports water at 7.5'. CLAY (CL): Mottled grey and black, stiff. damp, no odor. 1.5/1.5 15.0 12 13 _ 15 __ CLAY (CL): Mottled grey and black, stiff. damp, no odor. 1.5/1.5 12 Boring terminated at 17.0'. Sampled to 16.5' 17 ____ 18 ____ 19 20 Boring drilled with continuous-flight, hollow-stem, REMARKS: 8-inch O.D. augers. Samples collected in a 2.0-inch I.D. California sampler.



Fax Transmittal Memo 7872	modelin 2 may 25.2.98mm
LOUI'S PROTECT	MARY PETSAS
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Cottnesse	Organia Destroy Reserv Contemporary
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and their	The state of the s

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY DAYID J. KEARS, Agency Director

. STID 4147

November 25, 1997

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Bute 260 Alameda, CA 94502-6577 (510) 987-9700 PAX (610) 337-9335

Jerry and Mary Petsas 16518 Toledo Street San Leandro, CA 94878

RE: 16035 EAST 14TH STREET, SAN LEANDRO

Dear Mr. and Mrs. Petsas:

The Alameda County Environmental Health Department, Environmental Protection Division, has received concurrence from the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), for final closure of the underground storage tank investigation at the referenced site.

Prior to the issuance of a "Remedial Action Completion Certificate" by this office, however, the monitoring wells at the site must be properly destroyed should you have no further use for them. Well destruction is performed under permit issued by Alameda County Public Works Agency (ACPWA). You should contact Andreas Godfrey of the ACPWA (\$10/670-5575) to secure well destruction permits.

Please advise me if the wells will be destroyed, and when well destruction has been completed, as appropriate. I may be reached 510/567-6793.

. Sincerel

Scott 0./Seery, CHMM Hazardous Materials Specialist

Mee Ling Tung, Agency Director Kevin Graves, RWQCB Andreas Godfrey, ACPWA

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ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 186, HAYWARD, CA 94545-1661
PHONE (510) 670-8262 ANDREAS GODFREY FAX (510) 670-8262
(510) 670-8246 ALVIN KAN

DRILLING PERMIT APPLICATION

for applicant to complete	For office use		
LOCATION OF PROJECT 16035 E. 14th Street	PERMIT NUMBER 98WR.219 WELL NUMBER		
Sep Teamin, CA 94578	APN		
Cellfornia Coordinassa Source ft. Accuracy 2 ft. CCN ft. Accuracy 2 ft. AFN	PERMIT CONDITIONS Circled Permit Requirements Apply		
Acri	_		
CLIENY Name <u>Mos. Marry Patsas</u>	(A) GENERAL		
Address 16518 Tolero Street Phone (510) 2/6-2828	A permit application should be submitted so as to arrive at the ACPWA office five days gring so		
City Can Learning, Ch. Zip 0.4578	_ proposed starting date.		
- 7 343/6	2. Submit to ACPWA Within 60 days after completion of		
APPLICANT	permitted work the original Desartment of Water		
Name Tark Protect Engineering of Northern	Resources Water Well Drillers Report or equivalent for		
California, Inc. Pax (510) 423-8089	well projects, or drilling logs and location sketch for		
Address 2021 Whiteple Brand Phone (510) 429-8088 City Union City, Ch. Zip 9597-1233	geotechnical projects. Permit is void if project not begun within 90 days of		
*** thias City, Ch 29 _958/, 1233	approvei éste.		
TYPE OF PROJECT	B. WATER SUPPLY WELL'S		
Well Construction Geotechnical Investigation	1. Minimum surface seal thickness it two inches of		
Cathodic Protection D General C	coment grout pleased by tramis.		
Water Supply U Contumination C Monitoring U Well Description &	2. Minimum seal depth is 50 feet for municipal and		
Menitoring C Well Destruction G	industrial wells or 20 feet for domestic and irrigation		
Proposed Water Supply Well Use	wells inless a lesser depth is specially approved. C. GROUNDWATER MONITORING WELLS		
New Domestie Replacement Domestic	INCLUDING PIEZOMETERS		
Municipal C brigation U	1. Minimum surface seal thickness is two inches of		
Industrial D Other O	coment mout placed by bemie.		
	2. Minimum seal depth for monitoring wells is the		
Drilling method:	maximum depth practicable or 20 feet.		
Mud Rotary D . Air Rutary D Auger C	D. GEOTECHNICAL		
Cable D Other D	Backfill dore hole with compacted caulings or heavy		
DRILLER'S LICENSE NO. C57 265556	beattonite and upper two feet with compacted material.		
Authority of Macros Mar.	In Medd of known or suspected contamination, tremied coment grout shall be used in place of compacted cuttings.		
WELL PROJECTS 2	E. CATHODIC		
Drill Hole Diameterin. Maximum	Fill hale above anode zone with concrete placed by frontic.		
Casing Diameterin. Depth 20 n.	F. WELL DESTRUCTION		
Surface Seal Depth ft. Number 3	Sco stacked. G. SPECIAL CONDITIONS		
GEOTECHNICAL PROJECTS	d. orpcine congitions		
Number of Berines			
Hole Diameter is. Depth 11.	•		
ESTIMATED STARTING DATE 06/10/98	$\Lambda \Pi \Lambda \Pi \Lambda \Pi \Lambda \Pi \Lambda \Pi \Pi \Lambda \Pi \Pi \Pi \Pi \Pi \Pi \Pi \Pi$		
ESTIMATED COMPLETION DATE 06/10/98	APPROVED DATE 6/119		
The state of the s	W. 1 CA. 100		
Therefore and the second secon			
I hereby egree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.	•		
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NICHATURE ACTOR AND CA 198	,		
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P.02/0



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651

PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262

(510) 670-5248 ALVIN KAN

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
For Pressure Grouting of Monitoring Well

SAN LEANDRO

PERMIT NO. 98WRZ19

Destruction Requirements:

- 1. Clean out all bridged or poorly compacted materials to the bottom of the well.
- 2. Pressure grout the casing to 2 feet below finished grade or original ground, whichever is the lower elevation.
- 3. Remove casing, seal and gravel pack to 2 feet below finished grade or original ground, whichever is the lower elevation.
- 4. After the seal has set, backfill the remaining hole with compacted material.