

August 16, 1993

Mr. Robert Deluca
Alameda Unified School District
2200 Central Avenue
Alameda, CA 94501

93 AUG 25 PM 2:30

RE: Monitoring Well Destruction
Alameda Historical High School, Alameda, CA
Permit No. 93435

Dear Bob:

This report presents the procedures and findings of the work performed by ACC Environmental Consultants, Inc. ("ACC") used during the destruction of three monitoring wells located at Alameda Historical High School, 2200 Central Avenue, Alameda, California.

Background

In December of 1991, SEMCO, James C. Bateman Petroleum Services, Inc. of San Mateo, removed two heating oil tanks with capacities of 4000-gallon and 2000-gallon from the Alameda Historical High School campus. Analysis of the soil samples collected during tank removal indicated below detectable levels of Total Petroleum Hydrocarbons (TPH) as diesel, benzene, toluene, ethylbenzene, and total xylenes (BTEX). A sample of the water from the excavation indicated 0.6 parts per billion (ppb) toluene, 1.2 ppb ethylbenzene and 1.8 ppb xylenes. As a result of the laboratory analysis, Alameda County Health Care Services Agency requested monitoring of the groundwater to determine if groundwater impact had occurred.

In June 1992, three monitoring wells were installed adjacent to the former tank excavation. Analysis of the groundwater samples collected from the monitoring wells indicated below detectable levels of TPH as diesel for three consecutive quarters and below detectable levels of BTEX for four consecutive quarters.

In June 1993, a Request for Site Closure was submitted and approved by Alameda County Health Care Agency and the Regional Water Quality Control Board. Prior to development of the site, the three monitoring wells were properly destroyed.

Well Destruction

On August 13, 1993, monitoring wells MW-1, MW-2, and MW-3 were destroyed by Gregg Drilling and Testing of Concord license number C57-48516, in the presence of Misty Kaltreider, ACC geologist in accordance with Water Resources Management District - Zone 7 permit number 93495. Copies of the approved permit is attached.

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The wells were abandoned according to Water Resources Management District's well destruction specifications which consisted of overdrilling each well using eight-inch hollow stem augers to a depth of 18 feet. The well casing and well construction materials were removed and the hole was backfilled with neat cement. The cement consisted of one sack of Portland cement to five gallons of clean water. The mixture was then placed in the hole by means of a tremie pipe lowered to within three feet of the bottom of each well and was delivered in one continuous operation until the well was filled.

The PVC casing and drill cuttings were stockpiled on-site pending disposal at an approved landfill.

If you have any questions or comments regarding this report or any other comments regarding this project, please call.

Sincerely,

Misty C. Kaltreider
Geologist

Encl.

cc. Ms. Susan Churchill - Principal, ACC
Mr. Wyman Hong - Water Resources Management District - Zone 7
Ms. Juliet Shin - Alameda County Health Care Services Agency
Mr. Rich Hiett - Regional Water Quality Control Board



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Alameda Historical High School
2200 Central Avenue
Alameda, CA

PERMIT NUMBER 93435
LOCATION NUMBER 2S/3W 12R80 to 12R82

CLIENT
Name Alameda Unified School District
Address 2200 Central Ave. Phone (510) 748-4090
City Alameda, CA Zip 94501

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name Misty Kaltraider
ACC Environmental Consultants Inc.
Address 1000 Alcatraz Ave., Su. 110 Phone (510) 522-8188
City Alameda, CA Zip 94501

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.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection	General
Water Supply	Contamination
Monitoring	Well Destruction <u>X</u>

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.

PROPOSED WATER SUPPLY WELL USE

Domestic	Industrial	Other
Municipal	Irrigation	

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.

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E. WELL DESTRUCTION. See attached.

DRILLER'S LICENSE NO. C57-485165

WELL PROJECTS

Drill Hole Diameter	<u>8</u> in.	Maximum	
Casing Diameter	<u>2</u> in.	Depth	<u>15</u> ft.
Surface Seal Depth	<u>4</u> ft.	Number	<u>3</u>

GEOTECHNICAL PROJECTS

Number of Borings		Maximum	
Hole Diameter		Depth	

ESTIMATED STARTING DATE 8/12/93
ESTIMATED COMPLETION DATE 8/12/93

Approved Wyman Hong Date 4 Aug 93

Wyman Hong

Applicant agrees to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Misty Kaltraider Date 8/12/93

6 August 1993

ZONE 7
WATER RESOURCES ENGINEERING
DRILLING ORDINANCE

ALAMEDA UNIFIED SCHOOL DISTRICT
2200 CENTRAL AVENUE
ALAMEDA
WELLS 2S/3W 12R80 TO 12R82
PERMIT 93435

Destruction Requirements:

1. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.
2. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.
3. After seal has set, backfill the remaining hole with compacted material.

These destruction requirements as proposed by Misty Kaltraider of ACC Environmental meet or exceed the Zone 7 minimum requirements.

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

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WELL COMPLETION REPORT
(WELL LOGS)

REMOVED