



PROJECT COPY

April 16, 1993

Dan Kirk
Shell Oil Company
P.O. Box 5278
Concord, CA 94520

Re: Well Destruction
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California
WA Job #81-700-09

Dear Mr. Kirk:

As you requested, this letter documents Weiss Associates' (WA) destruction of monitoring well S-2 at the former Shell service station referenced above (Figures 1 and 2). This well was destroyed to allow an electrical transformer to be installed at that location. Specific well destruction procedures and other information are presented below.

Well Destruction

Date Destroyed: April 8, 1993.

Drilling Company: Gregg Drilling Company of Concord, California (license No. C-57485165).

Drilling Geologist: WA Staff Geologist Jonathan Weingast working under the supervision of N. Scott MacLeod, Registered Geologist No. 5747.

Destruction Method: The well was destroyed by pumping neat cement under pressure through a tremie pipe to the bottom of the well casing. The neat cement was mixed at the ratio of one sack of Portland Type I,II cement to about six gallons of water. As required in the well destruction permit, the cement was brought completely over the top of the well casing to the ground surface.

Copies of the Alameda County Flood Control and Water Conservation District - Zone 7 well destruction permit and the California Department of Water Resources water well drillers report are attached.

Mr. Dan Kirk
April 16, 1993

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We are pleased to provide hydrogeologic consulting services to Shell Oil Company.
Please feel free to call if you have any questions or comments.



Sincerely,
Weiss Associates,



Robert E. Kitay
Senior Staff Geologist



N. Scott MacLeod, R.G.
Project Geologist

Attachments: A - Alameda County Flood Control and Water Conservation District Drilling Permit
B - California Department of Water Resources Water Well Drillers Report

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cc: Alameda County Flood Control and Water Conservation District - Zone 7, 5997 Parkside Drive, Pleasanton, CA 94588
California Department of Water Resources - Central District, 3251 S Street, Sacramento, CA 95816-9897
Gregg Drilling Company, 2047 Arnold Industrial Way, Suite A, Concord, CA 94520

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 (415) 484-2600

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Former Shell Station
2800 Telegraph Avenue
Oakland, CA

PERMIT NUMBER 93170
LOCATION NUMBER 1S/4W 23J80

CLIENT
Name Shell Oil Company
Address P.O. Box 5278 Phone
City Concord, CA Zip 94520

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name Weiss Associates
Attn: Robert Kitay
Address 5500 Shellmound Street Phone (510) 450-6158
City Emeryville, CA Zip 94608

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.

TYPE OF PROJECT
Civil Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE
Domestic Industrial Other
Municipal Irrigation

DRILLING METHOD:
Air Rotary Auger
Other pressure grout to ground surface

DRILLER'S LICENSE NO. C-57 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 3 in. Depth 28.5 ft.
Surface Seal Depth 2 ft. Number 1

GEOTECHNICAL PROJECTS
Number of Borings Maximum
Hole Diameter in. Depth ft.

ESTIMATED STARTING DATE 4-8-93
ESTIMATED COMPLETION DATE 4-8-93

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-58.

Approved Wyman Hong Date 7 Apr 93

APPLICANT'S SIGNATURE Robert C. Kitay Date 4-7-93