

SCS ENGINEERS

June 27, 2008
Project No. 01203087.04

Mr. Jerry Wickham
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502
Phone (510) 567-6791
Fax (510) 337-9335

RECEIVED

1:14 pm, Jun 30, 2008

Alameda County
Environmental Health

**Subject: Groundwater Monitoring Well Destruction Report
Freisman Ranch Property (SLIC Case No. RO0002484)
1600 Freisman Road
Livermore, California**

Dear Mr. Wickham:

INTRODUCTION

SCS Engineers (SCS) was retained by the Children's Hospital and Research Center Foundation to perform groundwater monitoring well destruction activities at the Freisman Ranch Property located at 1600 Freisman Road, Livermore, California (the "Property"). This work was conducted to complete "Spill, Leaks, Investigation, and Cleanups" (SLIC) case closure requirements for the Property in accordance with our recent discussions and your May 16, 2008 email.

Groundwater monitoring wells (KMW-1 through KMW-8) were destroyed on June 11 and 12, 2008 in accordance with Zone 7 Water Agency (Zone 7) Permit No 28020, dated February 19, 2008. A copy of the Well Destruction Permit is provided in Attachment A.

WELL DESTRUCTIONS

USA Notification

Underground Service Alert (USA) was notified a minimum of 48 hours prior to well destruction activities as required by law.

Permitting

As indicated above, prior to well destruction activities Well Destruction Permit No. 28020 was acquired from Zone 7. Well destructions were conducted in accordance with the permit.

Well Destructions

HEW Drilling of East Palo Alto, California, a C-57 licensed well driller, used a CME-75 drill rig to destroy wells KMW-1 through KMW-8 under SCS direction. Prior to destruction each well was sounded with a weighted tape measure to confirm its total depth. The total depths of wells KMW-1 through KMW-6 were approximately 24 feet below ground surface (bgs) and the total depths of wells KMW-7 and KMW-8 were approximately 25 feet bgs. The wells were destroyed by “overdrilling,” a process by which the 4-inch diameter PVC casings were extracted intact after material within the wells’ annular space (sand, grout, and bentonite) was removed using 8-inch hollow stem augers. Each well was overdrilled to its total depth. Following overdrilling, Portland cement grout (neat cement) was placed into the boreholes via tremie pipe to ground surface.

All drill cuttings produced during well destruction activities were placed into 55-gallon drums, which were sealed, labeled, and left on-site. Samples were collected during drilling and analyzed for characterization purposes. SCS is currently coordinating their proper removal and disposal.

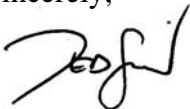
Original California Department of Water Resources (DWR) Well Destruction Reports will be submitted to Zone 7. Copies of the reports should be forwarded to the DWR by the Zone 7.

CLOSING

“We declare, under penalty of perjury, that the information and recommendations contained in this report are true and correct to the best of our knowledge.”

Please contact Steve Clements at (925) 240-5152 x24 if you have any questions or comments regarding this submittal.

Sincerely,



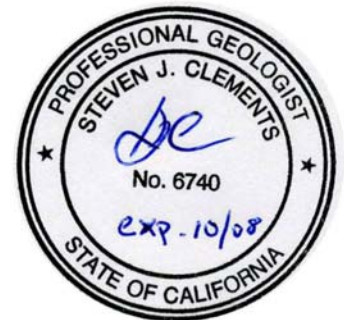
Ted Sison, R.E.A.
Project Scientist
SCS Engineers



Steve Clements, P.G., R.E.A.
Project Manager
SCS Engineers

Attachment A – Well Destruction Permit

cc: Stefanie Yurus – Children’s Hospital and Research Center Foundation
Tom Terrill – The Terrill Company



ATTACHMENT A
WELL DESTRUCTION PERMIT



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9308
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1600 Freisman Road
Livermore, California

PERMIT NUMBER 28020
WELL NUMBER 3S/1E-2L9 to 3S/1E-2L16
APN 904-0001-001-10

California Coordinates Source _____ ft. Accuracy _____ ft.
CCN _____ ft. CCE _____ ft.
APN 904-0001-001-10

PERMIT CONDITIONS (Circled Permit Requirements Apply)

CLIENT Name Children's Hospital
Address 2201 Broadway, Suite 140 Phone (510) 428-3119
City Oakland Zip 94612

- 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.

APPLICANT Name S.S. Engineers (Att: Ted Sison, REA)
Email tsison@ssengineers.com Fax 925 426 0207
Address 601 Kullcenter Blvd, Suite 140 Phone 925 426 0080
City Pleasanton Zip 94566

- B. WATER SUPPLY WELLS**
 1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 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.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:
Well Construction Geotechnical Investigation
~~Well Destruction~~ Contamination Investigation
Cathodic Protection Other

PROPOSED WELL USE: (SEE ENCLOSED PROPOSAL)
Domestic Irrigation
Municipal Remediation
Industrial Groundwater Monitoring
Dewatering Other

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
 1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.

DRILLING METHOD:
Mud Rotary Air Rotary Hollow Stem Auger
Cable Tool Direct Push Other

DRILLING COMPANY HEW Drilling Co
DRILLER'S LICENSE NO. 604987

- D. 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.

WELL SPECIFICATIONS:
Drill Hole Diameter _____ in. Maximum _____ ft.
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

- E. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.

SOIL BORINGS:
Number of Borings _____ Maximum _____ ft.
Hole Diameter _____ in. Depth _____ ft.

- F. WELL DESTRUCTION.** See attached.

ESTIMATED STARTING DATE 3/1/08
ESTIMATED COMPLETION DATE 2-3 days

- G. SPECIAL CONDITIONS.** Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

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

APPLICANT'S SIGNATURE [Signature] Date 2/1/08

Approved [Signature] Date 2/19/08
Wyman Hong

ATTACH SITE PLAN OR SKETCH