

March 30, 1998

98 APR -2 AM 9:00

STID 3292

Mr. Robert Mibach
Peralta Community College
333 East 8th Avenue
Oakland, California 94606

RE: **Monitoring Well Destruction Report**
501 5th Avenue, Oakland, California
ACC Project No. 98-6045-014.01

Dear Mr. Mibach:

ACC Environmental Consultants, Inc., (ACC) presents this letter report summarizing the destruction of one monitoring well at 501 5th Avenue, Oakland, California (Figure 1).

BACKGROUND

Four groundwater monitoring wells were installed at 501 5th Avenue, Oakland, California in February 1994, by ACC. Laboratory analysis of soil samples collected during well installation from monitoring wells MW-1 and MW-4 (downgradient from the tank excavations) indicated no detectable levels of the constituents evaluated. Motor oil was reported in the soil sample collected from boring MW-2. However, motor oil was not detected in the groundwater sample collected from monitoring well MW-2. A concentration of TPHd was detected only in the soil sample from boring MW-2. The groundwater results from monitoring well MW-1 indicated a downgradient extent of groundwater impact. Laboratory analysis of groundwater samples collected from monitoring wells MW-2 and MW-3 (upgradient of the former tank excavations) indicated detectable levels of constituents. Groundwater samples collected from borings MW-2 and MW-3 indicated detectable levels of TPHd, TPHg, and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Due to the location of well MW-3 being in an area of proposed overexcavation, ACC destroyed the well by overdrilling.

WELL DESTRUCTION PROCEDURES

As required by the Occupational Health and Safety Administration, 29 Code of Federal Regulations 1910.120, ACC prepared a site specific Health and Safety Plan for the proposed work.

One 2-inch-diameter monitoring well (MW-3), with a total depth of 14 feet below ground surface (bgs), was destroyed by Gregg Drilling & Testing, Martinez, California, (license C57-485165) on March 18, 1998. The permit for well destruction was obtained from the Alameda County Public Works Agency prior to performing field activities. The location of the well is shown on Figure 2.

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Well Completion Report Number 525565 for decommissioned well MW-3 is enclosed and will be filed with the Department of Water Resources.

The well was destroyed by overdrilling and removing all well construction materials within the original borehole. Using a tremie pipe, the created hole was filled from the bottom upward to the original ground surface with a neat cement grout containing 5 percent bentonite by weight.

The following procedures were followed for the decommissioning of the well:

- Prior to destruction, the well was investigated to determine its condition and the details of construction. The depth, casing diameter, and construction and sealing design of the well was ascertained. The well was sounded immediately before destruction to determine whether any obstructions would interfere with destruction. No obstructions were detected.
- All downhole equipment was precleaned prior to drilling the boring.
- The well was destroyed by removing all materials within the original borehole (including the well casing, screen, filter pack, and annular seal). This was accomplished by overdrilling the borehole with 8-inch outside-diameter, hollow-stem augers. Annular well materials were removed from the augers as they advanced and were stockpiled onsite.
- Overdrilling was completed to the depth of 14.3 feet bgs for well MW-3.
- The reamed boring was then backfilled with a neat cement grout containing 5 percent bentonite by weight after the augers were removed from the boring. The grout was placed into the boring from the bottom of the hole to a depth of approximately 1 foot bgs via a tremie pipe. The boring was then filled to existing grade with concrete and finished to match the surrounding surface.
- The PVC well screen and christy box were disposed by Gregg Drilling. The well completion materials were stockpiled on site. No waste water was generated during grouting of the borehole.

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If you have any questions regarding this letter report, please call me at (510) 638-8400.

Sincerely,

A handwritten signature in cursive script that reads "David DeMent". The signature is written in dark ink and is positioned below the word "Sincerely,".

David DeMent
Senior Geologist

/abp:clm

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED