

**QUARTERLY SUMMARY REPORT
3RD QUARTER - 1992
(JUNE - AUGUST)**

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Alameda County
Environmental Health

Unocal Service Station #5043
449 Hegenberger Road
Oakland, California

County: Alameda

RWQCB office: San Francisco Bay Region

BACKGROUND

The subject site contains a Unocal service station facility. Six monitoring wells have been installed at the site. No free product is currently detected in any well.

RECENT QUARTER ACTIVITIES

On August 21, 1992, three additional monitoring wells (MW4, MW5, and MW6) were installed at the site. The new wells were developed on August 24, 1992, and all six of the wells were sampled on August 31, 1992. The three previously existing monitoring wells were monitored monthly during the quarter. Documentation of the well installation procedures sample collection techniques, monitoring data, and the analytical results from the recent sampling activities are presented in KEI's report (KEI-P91-1004.R4) dated October 12, 1992.

Based on the analytical results from the recently installed monitoring wells, the extent of contamination at the subject site has not been defined. Because of the need to complete the delineation of contamination over an area encompassing both the Unocal site and the site vicinity, KEI proposed conducting a Hydropunch study, followed by the installation of additional wells. KEI will perform a site reconnaissance to determine feasible locations for the Hydropunch study, and a work plan/proposal for the study will be submitted in the near future. After review of the analytical results of samples obtained during the Hydropunch study, KEI will make recommendations for additional monitoring wells.

NEXT QUARTER ACTIVITIES

Continuation of the monthly monitoring and quarterly sampling program for all wells. KEI will conduct a site reconnaissance to determine feasible location for the Hydropunch study, and prepare a work plan/proposal for the study.

CHARACTERIZATION / REMEDIAL STATUS

Soil contamination delineated? Yes.

Dissolved ground water contamination delineated? No. The extent of contamination has not been defined in the upgradient direction; therefore, KEI has recommended conducting a Hydropunch study, followed by the installation of additional wells.

Free product delineated? Yes. Free product is not currently detected in any well.

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Amount of GW contaminant recovered this quarter? 0 gal.
Amount of GW contaminant recovered historically? 0 gal.

Soil remediation in progress? Yes. Contaminated soil detected beneath the product piping was overexcavated to depth of 4.5 feet below grade (ground water depth) in October of 1991.

- Anticipated start? *
- Anticipated completion? * Completed in October of 1991.

Dissolved/free product remediation in progress? No. As an interim measure until remediation of the site can be implemented, KEI has installed a free-product skimming device in MW1. This device is designed to continuously skim free product from the water table in the vicinity of this well. The free product is removed from the device during the regular monitoring events. Once the extent of ground water contamination has been adequately defined, the following steps will be taken as part of designing a remediation system: (1) water recovery tests will be performed on select wells, (2) based on the results of the water recovery tests, a ground water recovery well, if appropriate, will be installed, (3) a pump test will be performed using the recovery well, (4) the pump test information will then be used to determine the location and number of additional recovery wells that may be necessary to achieve hydraulic control of the contamination plume. A ground water remediation system will then be designed and installed (after obtaining all required permits).

- Anticipated start? The above steps will be initiated once the extent of ground water contamination has been adequately defined.

- Anticipated completion? A remediation system will be installed and operational upon completion of the above steps.

CONSULTANT/CONTRACTOR: Kaprealian Engineering, Inc.

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