

QUARTERLY SUMMARY REPORT
4TH QUARTER - 1992
(SEPTEMBER - NOVEMBER)

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1:49 pm, Apr 30, 2009

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. A trace of free product is currently detected in one well (MW1).

RECENT QUARTER ACTIVITIES

All six of the monitoring wells were monitored monthly and were sampled once (November 30, 1992) during the quarter. Documentation of the sample collection techniques, monitoring data, and the analytical results from the recent sampling activities are presented in KEI's report (KEI-P91-1004.QR2) dated December 29, 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 previously proposed conducting a Hydropunch study, followed by the installation of additional wells. 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.

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 currently detected in only one well (MW1).

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.

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Dissolved/free product remediation in progress? Yes. 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.

QSR\5043.QR4