QUARTERLY SUMMARY REPORT
1ST QUARTER - 1994
(DECEMBER - FEBRUARY)

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Unocal Service Station #3135
845 - 66th Avenue
Oakland, California

County: Alameda RWQCB office: San Francisco Bay Region

BACKGROUND
The subject site contains a Unocal service station facility. Two underground fuel storage tanks, one waste oil tank, and the product piping were removed from the site in November and December of 1989 during tank replacement activities. During March and April of 1991, approximately 2,000 cubic yards of contaminated soil were excavated from the area in the vicinity of the former (pre-1967) fuel tank pit. The soil excavation was conducted to a depth of approximately 1 foot below ground water (11 feet below grade). Ten monitoring wells, two exploratory borings, and a Hydropunch study (seven probe locations) have been installed/performed at and in the vicinity of the site. No free product has been detected in any well to date.

RECENT QUARTER ACTIVITIES
The ten monitoring wells were monitored monthly and sampled once (February 10, 1994) during the quarter. Documentation of the sample collection techniques, monitoring data, and analytical results from the recent sampling activities are presented in MPDS Services, Inc's. report (MPDS-UN3135-01) dated March 15, 1994.

Analytical results of the ground water samples collected from wells MW5, MW7, MW8, and MW9 for the previous four quarters (one hydrologic cycle) have consistently shown non-detectable concentrations of TPH as gasoline and BTEX, except for TPH as gasoline detected in MW7 at a concentration of 66 ppb on November 11, 1993, and 0.59 ppb of xylenes detected in MW5 on February 11, 1994. Therefore, KEI recommends that the sampling frequency for wells MW5, MW7, MW8, and MW9 be reduced from quarterly to semi-annually.

NEXT QUARTER ACTIVITIES
Continuation of the monthly monitoring of all wells, quarterly sampling for wells MW1 through MW4, MW6 and MW10, and semi-annual sampling of wells MW5, MW7, MW8, and MW9.

CHARACTERIZATION / REMEDIAL STATUS
Soil contamination delineated? Yes. TPH as gasoline soil levels have been defined to approximately 50 ppm, except at three sample points (SW2[30], SW8, and SW10), where the excavation was terminated because the existing product piping prevented further excavation. Benzene levels in the soil have been defined to less than 20 ppm. Soil samples collected from the waste oil tank pit showed non-detectable levels of TPH as diesel, benzene, toluene, ethylbenzene, and xylenes (BTEX), total oil and grease and all EPA method 8010 compounds, with TPH as gasoline detected at levels less than 4 ppm.

Dissolved ground water contamination delineated? The extent of ground water contamination has been predominantly defined at and in the vicinity of the site. The ground water samples collected from

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the off-site wells (MW8 and MW9) installed to the east of the site have shown non-detectable concentrations of TPH as gasoline, BTEX, and TPH as diesel. However, petroleum hydrocarbon contamination has been detected in well MW10 installed to the southeast of the site.

Free product delineated? N/A - no free product has been detected in any well to date.

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

Soil remediation in progress? N/A. During March and April of 1991, approximately 2,000 cubic yards of contaminated soil were excavated from the area in the vicinity of the former (pre-1967) fuel tank pit. The soil excavation was conducted to a depth of approximately 1 foot below ground water (11 feet below grade).

- Anticipated start? *
- Anticipated completion? * Completed in April of 1991

Dissolved/free product remediation in progress? No. Once the extent of ground water contamination has been adequately defined, KEI will evaluate various ground water remediation alternatives, including a no-action alternative.

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

- Anticipated completion? Unknown.

CONSULTANT: Kaprealian Engineering, Inc.

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