

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY  
ALEX BRISCOE, Acting Director



ENVIRONMENTAL HEALTH SERVICES  
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October 14, 2009

Ms. Judy Reid  
State Water Resources Control Board  
UST Cleanup Fund  
P.O. Box 944212  
Sacramento, CA 94244-2120

Subject: Fuel Leak Case No. RO0000409 (Geotracker Global ID T0600102279), Unocal #1156, 4276 MacArthur Boulevard, Oakland, CA 94619 and RO0000486 (Geotracker Global ID T0600101261), Shell#13-5701, 4255 MacArthur Blvd., Oakland, CA 94619 - Commingled Plume

Dear Ms. Reid:

The purpose of this letter is to document that Alameda County Environmental Health (ACEH) staff is in agreement that a commingled plume which meets the definition contained in California Health & Safety Code Section 25299.91 of Article 11, Chapter 6.57 exists for the two sites referenced above. We understand that the responsible parties for the two sites have applied for inclusion in the UST Cleanup Fund Commingled Plume Account Program. ACEH has no objection to the sites being included in the UST Cleanup Fund Commingled Plume Account Program.

An unauthorized fuel release occurred from the UST areas of the Unocal #1156 site at 4276 MacArthur Boulevard in Oakland sometime prior to 1997. Total petroleum hydrocarbons as gasoline (TPHg) and MTBE have been detected in groundwater at the Unocal #1156 site at concentrations up to 103,000 and 51,000 micrograms per liter ( $\mu\text{g/L}$ ), respectively. The plume of fuel hydrocarbons from the Unocal #1156 site extends southwest across MacArthur Boulevard in the downgradient direction to the Shell #13-5701 site where the plume commingles with groundwater contamination originating from an unauthorized fuel release in the former UST area at the Shell #13-5701 site.

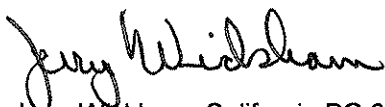
The commingled plume extends off-site in a southwest direction from the former UST area at the Shell #13-5701 site. The commingled plume is approximately 650 feet long and 300 feet wide. Plume delineation is based upon site investigation and groundwater monitoring activities that have been conducted at both sites since 1993.

Based on the lateral and vertical extent and concentrations of fuel hydrocarbons in relation to the locations of the releases, both sites appear to contribute roughly equally to the plume of fuel hydrocarbons. No sites other than the Unocal #1156 and Shell #13-5701 sites appear to be contributing to the commingled plume.

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If you have any questions, please call me at 510-567-6791 or send me an electronic mail message at [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org).

Sincerely,



Jerry Wickham, California PG 3766, CEG 1177, and CHG 297  
Senior Hazardous Materials Specialist

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032

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Geotracker, File