

State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT

Agency Information

Agency Name: Orange County Environmental Health Department (County)	Address: 1241 East Dyer Road, Suite 120 Santa Ana, CA 92705
Agency Caseworker: Denamarie Baker	Case No.: 89UT165

Case Information

USTCF Claim No.: 7577	GeoTracker Global ID: T0605900148
Site Name: Unocal #5336	Site Address: 6012 Warner Avenue Huntington Beach, CA 92647
Responsible Party: Chevron Environmental Management Company Attn: Daryl Pessler	Address: 145 South State College Bl., 400 Brea, CA 92821
USTCF Expenditures to Date: \$0	Number of Years Case Open: 26

To view all public documents for this case available on GeoTracker use the following URL:
http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900148

Summary

The Low-Threat Underground Storage Tank (UST) Case Closure Policy (Policy) contains general and media-specific criteria, and cases that meet those criteria are appropriate for closure pursuant to the Policy. This case meets all of the required criteria of the Policy. Highlights of the case follow:

This case is a retail business and former commercial petroleum fueling facility. An unauthorized release was reported in September 1989 followed by the removal and replacement of three USTs (two gasoline, one waste oil). In November 1991 the replacement USTs were also removed. Approximately 250 cubic yards of contaminated soil were excavated and disposed offsite in October 1997. Dual phase extraction was conducted between April 2001 and January 2005, which removed 52 pounds of total petroleum hydrocarbons as gasoline (TPHg) and 71,265 gallons of contaminated groundwater. Active remediation has not been conducted for the past ten years. Since 1997, 37 groundwater monitoring wells have been installed and monitored; 15 monitoring wells have been destroyed. According to groundwater data, water quality objectives have been achieved or nearly achieved.

The petroleum release is limited to the soil and shallow groundwater. According to data available in GeoTracker, there are no public water supply wells within 1,000 feet of the Site. The East Garden Grove Flood Control Channel is located approximately 700 feet northwest (downgradient) of the Site. No other water supply wells have been identified within 1,000 feet of the Site in files reviewed. The unauthorized release is located within the service area of a public water system, as defined in the Policy. The affected shallow groundwater is not currently being used as a source of drinking water, and it is highly unlikely that the affected shallow groundwater will be used as a source of drinking water in the foreseeable future. Other designated beneficial uses of the affected shallow groundwater are not threatened, and it is highly unlikely that they will be, considering these

FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE DIRECTOR

Unocal #5336
6012 Warner Avenue, Huntington Beach
Claim No: 7577

factors in the context of the site setting. Remaining petroleum hydrocarbon constituents are limited and stable, and concentrations are decreasing. Corrective actions have been implemented and additional corrective actions are not necessary. Any remaining petroleum hydrocarbon constituents do not pose a significant risk to human health, safety or the environment.

Rationale for Closure under the Policy

- **General Criteria:** The case meets all eight Policy general criteria.
- **Groundwater Specific Criteria:** The case meets Policy Criterion 1 by Class 5. The East Garden Grove Flood Control Channel is located approximately 700 feet northwest (downgradient) of the Site. If not for this surface water body this case would satisfy Policy Criterion 1 by Class 2. The contaminant plume that exceeds water quality objectives is less than 250 feet in length. There is no free product. The dissolved concentration of benzene is less than 3,000 micrograms per liter ($\mu\text{g/L}$), and the dissolved concentration of methyl tertiary butyl ether (MTBE) is less than 1,000 $\mu\text{g/L}$. The State Water Board staff has determined, based on an analysis of site specific conditions under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame.
- **Vapor Intrusion to Indoor Air:** The case meets Policy Criterion 2a by Scenario 3a. The maximum benzene concentration in groundwater is less than 100 micrograms per liter ($\mu\text{g/L}$). The minimum depth to groundwater is greater than 5 feet, overlain by soil containing less than 100 milligrams per kilogram (mg/kg) of TPH.
- **Direct Contact and Outdoor Air Exposure:** This case meets Policy Criterion 3b. Although no document titled "Risk Assessment" was found in the files reviewed, a professional assessment of site-specific risk from potential exposure to residual soil contamination was completed by Fund staff. The results of the assessment found that maximum concentrations of petroleum constituents remaining in soil will have no significant risk of adversely affecting human health. An unknown volume of contaminated soil was excavated September 1990. In addition, approximately 250 cubic yards of contaminated soil was excavated in 1997. The Site is paved and accidental exposure to site soils is prevented. Therefore, the pathway is incomplete. Any construction crew performing subsurface work will be prepared to deal appropriately with environmental hazards anticipated or encountered in their normal daily work. The presence of residual contamination should be taken into account when issuing and executing excavation or building or other permits at the Site, including but not limited to the inclusion of a Competent Person in the work crew.

Outcome of Conference Call

In a conference call on October 7, 2015, County staff reiterated that the TBA plume length was greater than 100 feet and that the site did not meet Class 1 criteria. State Water Board staff said the site meets groundwater criterion Class 5. County staff stated they did not object to State Water Board staff pursuing case closure as long as the RSR documents closure under groundwater criterion Class 5.

Determination

Based on the review performed in accordance with Health & Safety Code Section 25299.39.2 subdivision (a), the Fund Manager has determined that closure of the case is appropriate.

Unocal #5336
6012 Warner Avenue, Huntington Beach
Claim No: 7577

Recommendation for Closure

Based on available information, residual petroleum hydrocarbons at the Site do not pose a significant risk to human health, safety, or the environment, and the case meets the requirements of the Policy. Accordingly, the Fund Manager recommends that the case be closed. The State Water Board staff is conducting public notification as required by the Policy. Orange County has the regulatory responsibility to supervise the abandonment of monitoring wells.

Lisa Babcock

Lisa Babcock, P.G. 3939, C.E.G. 1235

11/17/15

Date

Prepared by: Kirk Larson, P.G.

