

State Water Resources Control Board

UST CASE CLOSURE SUMMARY

Agency Information

Agency Name: Los Angeles Regional Water Quality Control Board	Address: 320 West 4 th Street, Suite 200 Los Angeles, CA 90605
Agency Caseworker: Mr. Noman Chowdhury	Case No.: I-03862

Case Information

USTCF Claim No.: None	Global ID: T0603702945
Site Name: ARCO #1090	Site Address: 14000 East Lambert Road Whittier, CA 90605 (Site)
Responsible Party: Tesoro Refining & Marketing Company LLC Attention: Ms. Jo-Anne Alvarez	Address: 400 Oceangate, Suite 600 Long Beach, CA 90802
USTCF Expenditures to Date: N/A	Number of Years Case Open: 28

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702945

Summary

The Low-Threat Underground Storage Tank 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.

The release was discovered when five underground storage tanks (USTs) were removed from the Site and replaced by three USTs in December 1987. Low concentrations of petroleum constituents were identified in soil beneath the former USTs.

A soil vapor extraction (SVE) system operated at the Site between December 1994 and September 1995. A groundwater pump and treat system operated at the Site between August 1996 and March 1997, removing 147,385 gallons of groundwater. The SVE system, enhanced with air sparging (AS), was restarted in May 2000 and operated through February 2009. The SVE/AS system removed 28,335 pounds of vapor phase petroleum constituents. In May 2003, the dispensers, product and vapor recovery piping, and tank sumps were replaced at the Site. The Site is operated as an active fueling facility.

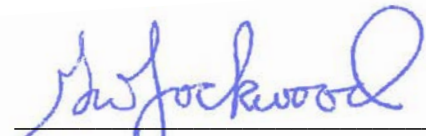
Depth to groundwater in the shallow wells ranged from 47 to 52 feet below ground surface (bgs). Depth to groundwater in the deep wells ranged from 50 to 52 feet bgs. The nearest existing water supply well and surface water body are greater than 1,000 feet from the Site. Additional corrective action will not likely change the conceptual site model. Residual petroleum constituents pose a low risk to human health, safety, and the environment.

Rationale for Closure under the Policy

- General Criteria – Site **MEETS ALL EIGHT GENERAL CRITERIA** under the Policy.
- Groundwater Media-Specific Criteria – Site meets the criteria in **CLASS 3**. The contaminant plume that exceeds water quality objectives is less than 250 feet in length. Free product has been removed to the maximum extent practicable, may still be present below the Site where the release originated, but does not extend off-site. The plume has been stable or decreasing for a minimum of five years. The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary. The property owner is willing to accept a land use restriction if the regulatory agency requires a land use restriction as a condition of closure.
- Petroleum Vapor Intrusion to Indoor Air Criteria – Site meets the **EXCEPTION**. The Site is operated as an active fueling facility. Exposure to petroleum vapors associated with historical fuel system releases is comparatively insignificant relative to exposures from small surface spills and fugitive vapor releases that typically occur at active fueling facilities.
- Direct Contact and Outdoor Air Exposure Criteria – Site meets **CRITERION 3 (a)**. Maximum concentrations of residual petroleum constituents in soil are less than or equal to those listed in Table 1 of the Policy. The estimated naphthalene concentrations are less than the thresholds in Table 1 of the Policy for direct contact. There are no soil sample results in the case record for naphthalene. However, the relative concentration of naphthalene in soil can be conservatively estimated using the published relative concentrations of naphthalene and benzene in gasoline. Taken from Potter and Simmons (1998), gasoline mixtures contain approximately 2% benzene and 0.25% naphthalene. Therefore, benzene concentrations can be used as a surrogate for naphthalene concentrations with a safety factor of eight. Benzene concentrations from the Site are below the naphthalene thresholds in Table 1 of the Policy. Therefore, estimated naphthalene concentrations meet the thresholds in Table 1 and the Policy criteria for direct contact with a safety factor of eight. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.

Recommendation for Closure

The corrective action performed at this Site ensures the protection of human health, safety, and the environment, and is consistent with chapter 6.7 of the Health and Safety Code and implementing regulations, applicable state policies for water quality control, and the applicable water quality control plan, and case closure is recommended.



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Senior Water Resource Control Engineer

3/24/2015

Date

