

## State Water Resources Control Board

### UNDERGROUND STORAGE TANK (UST) CASE CLOSURE SUMMARY

#### Agency Information

Agency Name: Los Angeles Regional Water Quality Control Board (Los Angeles Water Board)	Address: 320 West 4th Street, Suite 200 Los Angeles, CA 90013
Agency Caseworker: Noman Chowdhury	Case No.: I-12074

#### Case Information

UST Cleanup Fund (Fund) Claim No.: 15026	Global ID: T0603703915
Site Name: ARCO #5110	Site Address: 5731 East Firestone Boulevard South Gate, CA 90280 (Site)
Responsible Party: Tesoro Refining & Marketing Company, LLC Attention: Darrell Fah	Address: 301 East Ocean Boulevard, Suite 1600 Long Beach, CA 90802
Fund Expenditures to Date: N/A	Number of Years Case Open: 29

**[GeoTracker Case Record](http://geotracker.waterboards.ca.gov/?gid=T0603703915)**: <http://geotracker.waterboards.ca.gov/?gid=T0603703915>

#### Summary

**This case has been proposed for closure by the State Water Resources Control Board at the request of the Los Angeles Regional Water Quality Control Board, which concurs with closure.**

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.

Arco #5110  
5731 Firestone Boulevard East, South Gate

The Site currently operates as a retail fueling facility in South Gate. The release was identified during the removal of four USTs in 1989. Between 1999 and 2002, monthly enhanced fluid recovery events were performed with a vacuum truck. A total of 17,391 gallons of petroleum impacted groundwater were extracted using this method. During renovations in 2002, approximately 2,115 tons of petroleum impacted soil were over-excavated from multiple excavation pits and disposed offsite. An air sparge and soil vapor extraction system was installed in 2004 and operated intermittently until 2017, removing 51,789 pounds of hydrocarbons. In 2009, four in-situ oxygen curtain diffusers were installed and operated until 2015. In 2014, free product was encountered at MW-A4; a total of 19.08 gallons of free product were removed by hand bailing until the well went dry in 2016. The ARCO Vinvale Tank Farm (GeoTracker #SL373452448), a petroleum distribution center 500 feet north of the Site, has been noted as responsible for a dissolved phase hydrocarbon plume, resulting in comingled petroleum releases at this Site. Benzene and methyl tertiary butyl ether (MTBE) levels remain above regional water quality objectives (WQOs) in upgradient, source area, and some downgradient wells.

Soil borings advanced in October 2017 indicate residual petroleum constituents in Site soil pose low risk via direct contact and vapor intrusion pathways. A bioattenuation zone exists to the maximum explored depth of 70 feet below ground surface and no petroleum constituents were encountered in the upper 20 feet of Site soil. Benzene and MTBE concentrations in groundwater exceed WQOs in upgradient Site wells; however, both benzene and MTBE attenuate to below WQO levels within 100 feet downgradient of former UST releases. One downgradient well still exceeds benzene and MTBE WQOs, however it is likely that the source of these constituents is the ARCO Vinvale Tank Farm plume and not from historical releases associated with the Site. Remaining petroleum constituents are limited, stable, and decreasing. Additional assessment would be unnecessary and will not likely change the conceptual model. Any remaining petroleum constituents do not pose significant risk to human health, safety, or the environment under current conditions.

### **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 1**. The contaminant plume that exceeds water quality objectives is less than 100 feet in length. There is no free product. The nearest existing water supply well or surface water body is greater than 250 feet from the defined plume boundary.
- Petroleum Vapor Intrusion to Indoor Air – Site meets **Criteria 2 (a), Scenario 1**. There is a bioattenuation zone that provides a separation of at least 30 feet vertically between the Light Non-Aqueous Phase Liquid in groundwater and the foundation of existing or potential buildings. Concentrations of total petroleum

Arco #5110  
5731 Firestone Boulevard East, South Gate

hydrocarbons as gasoline and diesel combined in soil are less than 100 milligrams per kilogram throughout the entire depth of the bioattenuation zone.

- Direct Contact and Outdoor Air Exposure – Site meets **Criteria 3 (a)**. Maximum concentrations of petroleum constituents in soil from confirmation soil samples are less than or equal to those listed in Table 1 of the Policy

### Recommendation for Closure

The corrective action performed at this Site ensures the protection of human health, safety, and the environment. The corrective action performed at this Site is consistent with chapter 6.7 of division 20 of the Health and Safety Code, implementing regulations, applicable state policies for water quality control and applicable water quality control plans. Case closure is recommended.



---

Matthew Cohen, PG No. 9077  
Senior Engineering Geologist

---

07/29/2019

Date

