

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 Los Angeles, CA 90013
Agency Caseworker: Mr. Errick Llamas	Case No.: R-14732

Case Information

UST Cleanup Fund (CF) Claim No.: N/A	Global ID: T10000003669
Site Name: Madison Industries	Site Address: 1900 East 64 th Street Huntington Park, CA 90001 (Site)
Responsible Party: Madison Industries Attention: John Frey	Address: 1900 East 64 th Street Huntington Park, CA 90001
USTCF Expenditures to Date: \$0	Number of Years Case Open: 4

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000003669

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 Site is currently paved and developed with commercial structures used for office space and storage. Two USTs, one 5,000-gallon and one 10,000-gallon, were formerly operated on the property and removed in 1989. Petroleum constituents in groundwater were discovered during 2011 groundwater monitoring at the Site.

Concentrations of total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes constituents, with the exception of benzene, attenuate to low levels below approximately 100 feet below ground surface (bgs) in soil. Benzene only appears in soil samples between 100 to 110 feet bgs. The bulk of residual petroleum constituents in groundwater appear to be at two permeability interfaces at 50 and 95 feet bgs and are low. TPHg in groundwater is 506 micrograms per liter ($\mu\text{g/L}$). 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.

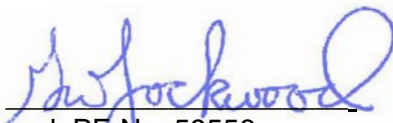
Rationale for Closure under the Policy

- General Criteria – Site **MEETS ALL EIGHT GENERAL CRITERIA** under the Policy.
- Groundwater Media-Specific Criteria – Site meets the criteria in **Class 2**. The contaminant plume that exceeds water quality objectives is less than 250 feet in length. There is no free product. The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary. The dissolved concentration of benzene is less than 3,000 µg/L, and the dissolved concentration of methyl tert-butyl ether is less than 1,000 µg/L.
- Petroleum Vapor Intrusion to Indoor Air – Site meets **Criteria 2 (a), Scenario 3 (b)**. As applicable, the extent of the bioattenuation zone, oxygen concentrations in soil gas, concentrations of TPHg and total petroleum hydrocarbons as diesel combined in soil, and dissolved concentrations of benzene in groundwater meet the Policy.
- 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.

There are no soil samples 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, 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.

Reviewed By: 
George Lockwood, PE No. 59556
Senior Water Resources Control Engineer

10/05/2015

Date

