

State Water Resources Control Board

UST CASE CLOSURE SUMMARY

Agency Information

Agency Name: Colorado River Basin Regional Water Quality Control Board (Colorado River Basin Water Board)	Address: 73-720 Fred Waring Drive, Suite 100 Palm Desert, CA 92260
Agency Caseworker: Kola Olatunbosun	Case No.: 7T2243067

Case Information

USTCF Claim No.: NA	Global ID: T0602548292
Site Name: California Highway Patrol, El Centro	Site Address: 2331 Highway 86 El Centro, CA 92251 (Site)
Responsible Party: California Highway Patrol Facilities Section Attention: Ligaya Reyes Ibanez	Address: P.O. Box 942898 Sacramento, CA 94298
USTCF Expenditures to Date: NA	Number of Years Case Open: 10

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0602548292

Summary

This case has been proposed for closure by the State Water Resources Control Board at the request of the Colorado River Basin Water 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.

The Site is an active petroleum fueling facility utilized by the California Highway Patrol. The release was discovered in 2005 during removal of an Underground Storage Tank (UST) and associated piping. Remediation consisted of soil excavation during UST removal activities which resulted in an excavation 38 feet long, 20 feet wide, and 11 feet deep. Contaminants of concern that remain at the Site above their respective water quality objectives include benzene and methyl tert butyl ether (MTBE).

The petroleum contaminant plume is less than 250 feet in length, is stable, and defined. According to data available in GeoTracker, there are no supply wells or surface water bodies within 3,000 feet of the defined plume boundary. The affected groundwater is not currently being used as a source of drinking water, and it is highly unlikely that the affected groundwater

will be used as a source of drinking water in the foreseeable future. Other designated beneficial uses of impacted groundwater are not threatened, and it is highly unlikely that they will be, considering characteristics of the site setting. The site is an active petroleum fueling facility. Impacted soil beneath the UST was removed to a depth of 11 feet. 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 5. The contaminant plume that exceeds water quality objectives is less than 250 feet in length and the plume is stable. There is no free product. The nearest existing water supply well or surface water body is greater than 3,000 feet from the defined plume boundary.
- Petroleum Vapor Intrusion to Indoor Air – Site meets the EXCEPTION for vapor intrusion to indoor air. Exposure to petroleum vapors associated with historical fuel system releases are 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 – 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.

California Highway Patrol, El Centro
2331 Highway 86, El Centro

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.

Prepared By: 
Roger Hoffmore, PG No. 7660
Engineering Geologist

08/27/15
Date

Reviewed By: 
George Lockwood, PE No. 59556
Chief, UST Unit II

08/27/15
Date