



State Water Resources Control Board

UNDERGROUND STORAGE TANK (UST) CASE CLOSURE SUMMARY

Agency Information

Agency Name: Santa Ana Regional Water Quality Control Board (Santa Ana Water Board)	Address: 3737 Main Street, Suite 500 Riverside, CA 92501
Agency Caseworker: Gongde Chen	Case No.: 083001354T

Case Information

UST Cleanup Fund (Fund) Claim No.: NA	Global ID: T0605901027
Site Name: Prudential (Former Beckman)	Site Address: 19000 Jamboree Road Irvine, CA 92715 (Site)
Responsible Party The Prudential Insurance Company of America Attention: Pedro Sanchez	Address: 101 California Street, 40 th Floor San Francisco, CA 94111
Fund Expenditures to Date: NA	Number of Years Case Open: 36

GeoTracker Case Record: <http://geotracker.waterboards.ca.gov/?gid=T0605901027>

Summary

This case has been proposed for closure by the State Water Resources Control Board at the request of the Santa Ana 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 because they pose a low threat to human health, safety, and the environment. The Site meets all of the required criteria of the Policy and therefore, is subject to closure.

The Site operated as a manufacturing facility from 1973 to 1986. The Site is currently developed as an apartment complex and a mixed-use residential and commercial complex. A petroleum release was discovered during the removal of three USTs in 1986. A reported total of 6,655 cubic yards of contaminated soil were over-excavated from the UST excavations in 1987 and disposed of offsite.

E. JOAQUIN ESQUIVEL, CHAIR | EILEEN SOBECK, EXECUTIVE DIRECTOR

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A total of 67 monitoring wells set in two distinct groundwater zones have been regularly monitored since 1990, sixteen have been destroyed. Water quality objectives for petroleum constituents have been met in site wells and those analytes have been removed from the site groundwater monitoring program. Remaining soil impact after extensive over-excavation is limited in extent and poses a low risk to human health and the environment.

Historical soil and groundwater investigations conducted at the Site indicate that a release of volatile organic compounds (VOCs), primarily tetrachloroethylene (PCE) have occurred at several locations at the Site. No active remediation has occurred at the site since July 1999. The current groundwater monitoring and sampling program is focused on non-petroleum constituents. Non-petroleum constituents associated with historical onsite chemical operations are also present on- and offsite. Investigation and remediation for non-petroleum constituents are managed under the Santa Ana Water Board's Prudential (Former Beckman) case T10000021386. T0605901027 will not impact the Cleanup Program case for non-petroleum constituents; the Prudential (Former Beckman) SCP case will remain open until the Santa Ana Water Board has determined that appropriate cleanup has been conducted for the non-petroleum constituents.

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 3**. As applicable, the extent of the bioattenuation zone, oxygen concentrations in soil gas, concentrations of total petroleum hydrocarbons as gasoline and 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 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

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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. 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.

Reviewed By:



Dayna Cordano, P.G. No. 9694
Senior Engineering Geologist

07/24/2023

Date

