

## State Water Resources Control Board

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

#### Agency Information

Agency Name: Colorado River Basin Regional Water Quality Control Board	Address: 73-720 Fred Waring Dr. Ste 100 Palm Desert, CA 92260
Agency Caseworker: Jose Cortez	Case No.: 7DODT2278006

#### Case Information

UST Cleanup Fund (Fund) Claim No.: N/A	Global ID: T060719846
Site Name: Marine Corps Air Ground Combat Center (MCAGCC) Twentynine Palms IR Site 56 (UST 8 Building 1138)	Site Address: South Corner of First Street and Sturgis Road Twentynine Palms, CA 92278
Responsible Party: United States Department of the Navy Attn: Mr. Jeff Waldman Naval Facilities Engineering Command Southwest <a href="mailto:Jeff.waldman@navy.mil">Jeff.waldman@navy.mil</a>	Address: 1220 Pacific Highway San Diego, CA 92123
Fund Expenditures to Date: N/A	Number of Years Case Open: 28

#### [GeoTracker Case Record:](https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T060719846)

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#### Summary

**This case has been proposed for closure by the State Water Resources Control Board at the request of the Colorado River Basin 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 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 was a former fueling station on an active Naval Base in San Bernardino County. The petroleum release was discovered when elevated petroleum constituents were identified in soil following the removal of six fuel USTs (one 10,000-gallon unleaded gasoline, one 10,000-gallon diesel, three 10,000-gallon regular gasoline, and one 48,000-gallon diesel) in 1991. Five USTs (three 20,000-gallon diesel and two 20,000-gallon unleaded gasoline) were installed as replacement tanks for the fueling station at this time.

Additional site assessment was performed from 1991 to 1994 including soil sampling and groundwater monitoring well installations and sampling. The impacted areal extent for soil and groundwater plume were delineated. The impacted soil is present at depths typically greater than 30' bgs and the depth to groundwater at the site is over 200' bgs. Bioventing was performed at the site with little success from 1995-1997.

In 2003, the 5 replacement USTs were removed and the fueling facility was decommissioned. Petroleum hydrocarbons were discovered beneath the fuel pumps during the decommissioning and in 2006 120 cubic yards of impacted soil was over-excavated to 14' bgs. From 2007 to 2015, soil vapor extraction was performed at the site to reduce petroleum hydrocarbons in the soil gas and groundwater. A soil gas investigation in 2012 determined that the site does not pose a risk for vapor intrusion to hypothetical future buildings on site.

Residual petroleum constituents in soil is limited in areal extent. 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 micrograms per liter ( $\mu\text{g/L}$ ), and the dissolved concentration of MTBE is less than 1,000  $\mu\text{g/L}$ .
- Petroleum Vapor Intrusion to Indoor Air – Site **meets Criteria 2 (a), Scenario 4**. The concentrations of benzene, ethylbenzene, and naphthalene in soil gas are less than the Policy limits as it applies to the bioattenuation zone, land use, and existing or planned future building structures at the Site.
- Direct Contact and Outdoor Air Exposure – Site **meets Criteria 3 (c)**. Maximum concentrations of petroleum constituents in soil are less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health.

MCAGCC Twentynine Palms IR Site 56 (UST 8 Building 1138) (T060719846)  
Corner of First Street and Sturgis Road, Twentynine Palms, San Bernardino County

### 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



02/19/2020

Date