

State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT

Agency Information

Agency Name: Sacramento County Environmental Management Division (County)	Address: 10590 Armstrong Avenue, Suite A, Mather, CA 95655
Agency Caseworker: Charley Langer	Case No.: D517

Case Information

USTCF Claim No.: 13587	Global ID: T0606701017
Site Name: Zine's Garage	Site Address: 220 Elverta Road Elverta, CA 95626
Responsible Party: Zine's Garage Attn: Mark Godfrey	Address: 220 Elverta Road Elverta, CA 95626
USTCF Expenditures to Date: \$480,718	Number of Years Case Open: 17

To view all public documents for this case available on GeoTracker use the following URL:

http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606701017

Summary

The Low-Threat Underground Storage Tank (UST) 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. Highlights of the case follow:

The Site is an active auto service facility. An unauthorized release was reported in March 1998 following the removal of two gasoline USTs. An in-situ chemical oxidation test was conducted in 2004. Soil vapor extraction and air sparging were conducted intermittently between November 2008 and August 2010, followed by dual phase extraction events until November 2010. Active remediation has not been conducted for the past five years. Since October 2000, nine monitoring wells and one extraction well have been installed and monitored. According to groundwater data, water quality objectives have been achieved or nearly achieved for all constituents.

The petroleum release is limited to the soil and shallow groundwater. According to data available in GeoTracker, there are no public water supply wells or surface water bodies within 250 feet of the defined plume boundary. There is an onsite domestic well upgradient of the defined plume boundary that has been regularly sampled and no petroleum hydrocarbon or methyl tert-butyl ether (MTBE) concentrations have been detected above laboratory reporting detection levels since 2008. The unauthorized release is located within the service area of a public water system, as defined in the Policy. Remaining petroleum hydrocarbon constituents are limited and stable, and concentrations are decreasing. Corrective actions have been implemented and additional corrective actions are not necessary. Any remaining petroleum hydrocarbon constituents do not pose a significant risk to human health, safety or the environment.

Rationale for Closure under the Policy

- **General Criteria:** The case meets all eight Policy general criteria; the Site is located within the service area of the Rio Linda/ Elverta Community Water District.
- **Groundwater Specific Criteria:** The case meets Policy Criterion 1 by Class 5. Although the nearest water supply well is less than 250 feet from the defined plume boundary, the well is located upgradient from the groundwater plume, and the well sampling results have consistently been below laboratory detection limits for petroleum hydrocarbons and MTBE since 2008. No other water supply wells are within 250 feet of the defined plume boundary. Otherwise, the case meets Policy Criterion 1 by Class 1. The contaminant plume that exceeds water quality objectives is less than 100 feet in length. There is no free product. The nearest surface water body is greater than 250 feet from the defined plume boundary. The regulatory agency determines, based on an analysis of site specific conditions, which under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame.
- **Vapor Intrusion to Indoor Air:** The case meets Policy Criterion 2a by Scenario 3a. The maximum benzene concentration in groundwater is less than 100 micrograms per liter ($\mu\text{g/L}$). The minimum depth to groundwater is greater than 5 feet, overlain by soil containing less than 100 milligrams per kilogram (mg/kg) of TPH.
- **Direct Contact and Outdoor Air Exposure:** The case meets Policy Criterion 3a. Maximum concentrations in soil are less than those in Policy Table 1 for Commercial/Industrial use, and the concentration limits for a Utility Worker are not exceeded. 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 approximately 2 percent benzene and 0.25 percent naphthalene. Therefore, benzene 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 Policy Table 1. Therefore, the estimated naphthalene concentrations meet the thresholds in Table 1 and the Policy criteria for direct contact by a factor of eight. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.

Outcome of Conference Call between the County and the State Water Board

In a teleconference between State Water Board staff and County staff on December 4, 2015, County staff objected to closing the Site based on (1) the proximity of the supply well to groundwater monitoring wells that show residual detections of petroleum hydrocarbons, (2) the supply well's history of petroleum hydrocarbon contamination, and (3) concerns that the supply well could become re-contaminated. State Water Board staff reiterated that the case meets Policy criteria for closure. The domestic well has never indicated detectable concentrations of petroleum hydrocarbons in excess of Water Quality Objectives, therefore the well is not considered to be impacted. The remediation activities at the Site have effectively mitigated the petroleum hydrocarbon concentrations in groundwater beneath the Site. As part of due diligence, future redevelopment activities would include review of this UST Case Closure Review Summary Report identifying County staff's concerns and the State Water Board staff response. If land use for the Site changes, State Water Board staff recommends that the domestic well be destroyed and the new development be connected to the public water supply. It was agreed State Water Board staff will continue with case closure process.

Determination

Based on the review performed in accordance with Health & Safety Code Section 25299.39.2 subdivision (a), the Fund Manager has determined that closure of the case is appropriate.

Recommendation for Closure

Based on available information, residual petroleum hydrocarbons at the Site do not pose a significant risk to human health, safety, or the environment, and the case meets the requirements of the Policy. Accordingly, the Fund Manager recommends that the case be closed. The State Water Board staff is conducting public notification as required by the Policy. Sacramento County has the regulatory responsibility to supervise the abandonment of monitoring wells.

Lisa Babcock

Lisa Babcock, P.G. 3939, C.E.G. 1235

2/4/16

Date

Prepared by: Kirk Larson, P.G.