

**STATE OF CALIFORNIA  
REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION**

**STAFF REPORT FOR REGULAR MEETING OF JULY 12, 2012**  
Prepared June 14, 2012

**ITEM NUMBER: 9**

**SUBJECT: Staff Closures**

**This Action: Information/Discussion**

This staff report summarizes information for one Central Coast Water Board staff-closed Underground Storage Tank (UST) case and one Site Cleanup Program case. Central Coast Water Board staff will close these sites because the wastes in soil do not pose a threat to human health and the environment and the onsite surface water and groundwater beneath the sites has reached water quality goals that are protective of beneficial uses. No Central Coast Water Board action is necessary for this item.

For the sites listed in this report, closure reflects a tangible water quality outcome, meaning surface water and groundwater have been restored such that they meet water quality goals sufficient for all of the designated beneficial uses. Table 1 below provides case closure targets for the current fiscal year (July 1, 2011 – June 30, 2012) and progress to date in achieving those tangible water quality outcomes.

**Table 1  
Case Closure Performance Scoreboard**

<b>Program</b>	<b>2011-2012 Fiscal Year<sup>1</sup> Case Closure Target</b>	<b>2011-2012 Fiscal Year<sup>1</sup> Case Closures To Date<sup>2, 3</sup></b>
Underground Storage Tanks	17	19
Site Cleanup	10	5

**Notes:**

- <sup>1</sup> Fiscal Year 2011-2012 runs July 1, 2011 to June 30, 2012.
- <sup>2</sup> Final closure letters are not issued for sites until the responsible party submits documentation of proper well abandonment.
- <sup>3</sup> This total includes sites with pending well destruction and does not include Recommended Closures on the current agenda.

**UNDERGROUND STORAGE TANK CASE CLOSURES**

**Tobey's Rasp Service Site, 2203 Mission Street, Santa Cruz, Santa Cruz County**  
**[Wei Liu 805/542-4648]**

The subject site was recently redeveloped as a Safeway grocery store and employee parking lot located at 2203 Mission Street, Santa Cruz, California. The site covers approximately 2.25 acres and is the former home to Tobey's Rasp Service, Inc., a manufacturer of tire rasps.

Contamination is believed to be the result of historic activities at the former Tobey's Rasp Service station which operated on the site between the early 1940's and late 1990's. On-site buildings were demolished in 1996 and 2004. Safeway acquired the subject site in August 2001 and has assumed the responsibility for additional environmental remediation and monitoring for the site since then.

Environmental investigation of the site, which began in 1990, has focused on the delineation of cyanide, heavy metals, petroleum hydrocarbons (primarily total petroleum hydrocarbon as diesel [TPH-d]), and volatile organic compounds (VOCs) in soil and groundwater. Preliminary soil samples showed a maximum concentration of TPH-d at 790 milligrams per kilograms (mg/kg) and elevated concentrations of various metals. Other petroleum hydrocarbons and chlorinated hydrocarbons were not detected or detected at concentrations below the soil cleanup goals or action levels. A total of eight groundwater monitoring wells were installed at the site between 1990 and 2006. The historical groundwater sample results showed the maximum concentrations of 10 microgram per liter ( $\mu\text{g/L}$ ) tetrachloroethylene (PCE), 33  $\mu\text{g/L}$  trichloroethylene (TCE), 11  $\mu\text{g/L}$  cis-1,2-dichloroethylene (cis-1,2-DCE), 18  $\mu\text{g/L}$  vinyl chloride in monitoring well MW-3. All other petroleum hydrocarbons and VOCs in groundwater samples were either not detected above the laboratory detection limits or below the Central Coast Water Board's cleanup goals.

Consultants performed several remedial excavations and removed approximately 400 cubic yards of contaminated soils between 1997 and 1999. In compliance with Water Board staff's request, consultants submitted a preliminary Remedial Action Plan (RAP) which was approved with supplemental revisions and implemented in 2008. As part of this implementation, consultants removed approximately 2,200 tons of contaminated soil during the redevelopment activities at the site. No other active remedial actions took place due to the low VOC concentrations detected at the site and presented minimal human health or environmental risk.

After contaminated soil removal activities, consultants performed a post-remediation groundwater confirmation sampling in 2011 in compliance with the Water Board requirements. The groundwater analytical results from the confirmation sampling event confirmed concentrations of all petroleum hydrocarbon constituents and VOCs are below their respective laboratory detection limits.

The depth to groundwater at the site has ranged from approximately 0.2 feet to 6.4 feet below ground surface. The groundwater flow direction around the site is primarily to the east. There is no known surface water or water supply well within a 2,000-foot radius of the site.

Based on soil removal, soil sampling results, and groundwater monitoring and post-remediation confirmation sampling results, no significant threat to surface water or groundwater quality from the releases of petroleum hydrocarbons and VOCs exists at the site. Therefore, no further investigation or cleanup is necessary at this site. Central Coast Water Board staff notified the Santa Cruz County Environmental Health Services Department, the property owner, and other interested parties of our intent to close this cleanup case. We have received no comments or objections to the planned closure of this case, except a request for minor revisions of the information presented in the Case Closure Summary Form by the Santa Cruz County Environmental Health Services. This comment has been satisfactorily addressed. The responsible party has been directed to destroy all monitoring wells. Central Coast Water Board staff will close this case, and the Executive Officer will issue a final case closure letter, upon receipt of a well destruction report documenting the proper destruction of all monitoring wells.

**1031 Water Street, Santa Cruz, Santa Cruz County Case No. 3693**  
**[Tom Sayles 805/542-4640]**

Central Coast Water Board staff will close this UST case where most recent sample results indicate no petroleum hydrocarbon constituents (e.g., total petroleum hydrocarbons as gasoline (TPH-g), as diesel (TPH-d), as motor oil (TPH-mo) benzene, toluene, ethylbenzene, xylenes, methyl tert-butyl ether (MTBE) and tert-butyl alcohol (TBA) and other fuel oxygenates were detected above the Water Board's Water Quality Objectives in any of the monitoring wells associated with the subject site.

The site is located at 1031 Water Street in Santa Cruz. A main building on-site encompasses the majority of the subject property. The building houses several businesses, including Big O Tires, Surf City Motors, Advanced Auto, RPM Auto Repair, a martial arts studio, and a chiropractic office. There are no active USTs on the subject site.

On May 15, 1990, two 1,000-gallon USTs and one 550-gallon waste oil UST were removed from the site. Contaminated soils were over-excavated and stockpiled on-site for future disposal. On April 15, 2010, a Phase I Environmental Site Assessment was prepared by Transaction Management Corporation, Inc. (TMC) for the property. Part of the conclusions of the report identified a former water and oil collection sump on the property. Therefore, TMC recommended a Limited Phase II Subsurface Investigation to determine if soil and/or groundwater contamination had resulted from operation of the sump. TMC conducted a Limited Phase II subsurface investigation detailed in a report dated June 25, 2010. Samples from the investigation showed total petroleum hydrocarbons as diesel (TPH-d) at 18,000 micrograms per liter ( $\mu\text{g/L}$ ).

In June of 2011, consultants removed the sump and over-excavated contaminated soil to a depth of eight feet below ground surface. Technicians collected one grab groundwater sample and eight soil samples. The consultant also placed RegenOx™ solution into the open excavation, and backfilled with clean soil. RegenOx™ is an advanced chemical oxidation technology that destroys contaminants through chemical oxidation and this technology has been used to successfully destroy hydrocarbons at many other sites throughout the region.

The most recent groundwater monitoring event estimated the groundwater gradient at 0.0083 feet/foot to the southeast. Groundwater levels range from 6.52 feet to 7.64 feet beneath ground surface (bgs). All groundwater sample results were below the Central Coast Water Boards cleanup goals for petroleum hydrocarbon constituents.

Based on the groundwater data there are no remaining groundwater impacts and further investigation or cleanup is not necessary. We have notified all known interested parties of our plan to close this case. Santa Cruz County Environmental Health Services supports our closure action on this site. We have not received any additional comments or objections to the planned closure of this case. The responsible party has destroyed all monitoring wells. At the time of this staff report, Central Coast Water Board staff is in the process of closing this case, and the Executive Officer will issue a final case closure documentation prior to the July Board meeting.