

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

DRAFT STAFF REPORT FOR REGULAR MEETING OF MAY 12, 2006

Prepared on March 24, 2006

ITEM NUMBER : 17

SUBJECT: Rescission of Waste Discharge Requirements Order No. 00-086, NPDES Permit No. CA0049654, for former Mission Linen Supply/Ambassador Laundry, Santa Barbara, Santa Barbara County

KEY INFORMATION:

Discharger: Mission Linen Supply
Location: 201 East Haley Street, Santa Barbara, Santa Barbara County
Discharge Type: Treated groundwater
Design Capacity: 64,850 gallons per day
Current Capacity: 14,000 gallons per day
Treatment: Granular activated carbon adsorption
Disposal: Discharge to storm drain leading to the ocean
Reclamation: None
Existing Orders: Waste Discharge Requirements Order No. 00-086 (NPDES No. CA0049654), CAO No. 88-89, MRP No. 98-063
This Action: Rescind WDR Order No. 00-086, NPDES No. CA0049654

DISCUSSION

The former Mission Linen Supply/Ambassador Laundry Site (Site) is located at 201 East Haley Street in Santa Barbara, California. In 1985, groundwater samples collected from wells completed in the regional aquifers beneath Santa Barbara were analyzed and found to contain various levels of tetrachloroethene (PCE). The wells sampled included several supply wells owned by the City of Santa Barbara and a supply well owned and operated by Ambassador Laundry. Some of the groundwater samples contained PCE at concentrations above the maximum contaminant level (MCL). The Regional Water Quality Control Board (Water Board) issued Cleanup or Abatement Order (CAO) No. 88-89, which required characterization of the shallow groundwater zone and the upper producing groundwater zone. The CAO also required construction of a groundwater treatment system with extraction wells screened in three intervals within the shallow groundwater zone. The system

was in operation from November 1991 to September 10, 2003.

Groundwater treatment was initially performed using a combination of ultraviolet light and hydrogen peroxide followed by activated carbon polishing. Later, the system operated with activated carbon treatment only, due to the reduced influent concentrations. During its period of operation, the groundwater treatment system removed approximately 538.5 pounds or 39.8 gallons of PCE from groundwater beneath the Site.

Authorization to discharge treated groundwater to the storm drain was originally issued on March 8, 1991. The Water Board adopted WDR Order No. 00-086, NPDES No. CA0049654 on November 29, 2000, to operate the groundwater treatment system.

In September 2003, Water Board staff approved the shut down of the groundwater treatment system to allow for a more aggressive approach for removing remaining dissolved concentrations of PCE in groundwater that were not capable of being removed by the groundwater treatment system. In-situ chemical oxidation injections using modified Fenton's Reagent were performed during September and October 2003. Second and third injection events, that included potassium permanganate and modified Fenton's Reagent, were performed during February and March 2004 and November and December 2004.

On November 29, 2005, the permit expired. Additional remediation technologies are currently under evaluation to remove the PCE remaining in groundwater. MRP No. 98-063 is still in effect and requires quarterly monitoring of the PCE concentrations in groundwater beneath and downgradient of the Site. Water Board staff will revise MRP 98-063 to remove the discharge monitoring requirements related to the groundwater treatment system. Mission Linen Supply will not dismantle the groundwater treatment system in the event hydraulic containment becomes necessary in the future. If hydraulic containment becomes necessary, we will enroll Mission Linen Supply under the General Permit for Discharges of Highly Treated Groundwater to Surface Waters.

RECOMMENDATION

Rescind WDR Order No. 00-086, NPDES No. CA0049654.

ATTACHMENTS

1. WDR Order No. 00-086, NPDES No. CA0049654