



# California Regional Water Quality Control Board

## Los Angeles Region



Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

**Linda S. Adams**  
Acting Secretary for  
Environmental Protection

320 W. 4th Street, Suite 200, Los Angeles, California 90013  
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: <http://www.waterboards.ca.gov/losangeles>

**Edmund G. Brown Jr.**  
Governor

April 27, 2011

Ms. Kelly Bay  
Canners Steam Company  
c/o Windes & McClaughren  
111 W. Ocean Blvd., 22<sup>nd</sup> Floor  
Long Beach, CA 90801-6187

**SUBJECT: CORRECTION OF SERIES NUMBER IN GENERAL WASTE DISCHARGE REQUIREMENTS ORDER NO. R4-2007-0019 DATED OCTOBER 20, 2010**

**SITE: CANNERS STEAM COMPANY FACILITY AT 249 CANNERY STREET, TERMINAL ISLAND, CALIFORNIA, (SITE CLEANUP PROGRAM CASE NO. 1099, SITE IDENTIFICATION NO. 2040131)**

Dear Ms. Bay:

The Regional Board had enrolled the Canners Steam Company Site under the General Waste Discharge Requirement (WDR) Order No. R4-2007-0019 on October 20, 2010 with a series number 146 for groundwater cleanup using injection of RegenOx and ORC. The Regional Board staff find that the series number 146 was not correct and needs to be replaced in the WDR documents including the Monitoring and Reporting Program and the Fact Sheet by the correct series number 160. You are hereby notified of the corrected series number in the subject WDR.

If you have any questions, please contact Mr. Mohammad Zaidi at (213) 576-6732 or [mzaidi@waterboards.ca.gov](mailto:mzaidi@waterboards.ca.gov).

Sincerely,

Kwang-il Lee, Ph.D., P.E.  
Site Cleanup Program, Unit IV Chief

Enclosures:

- Cover page of the Monitoring and Reporting Program No. CI-9634 with the correct Series No. 160
- Cover page of the Fact Sheet with the correct Series No. 160

**California Environmental Protection Agency**



*Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.*

Ms. Kelly Bay  
Canners Steam Company

- 2 -

April 27, 2011

cc: Mr. Rashmi Shah, Canners Steam Company  
Mr. Bruce Flushman, Wendel Rosen Black & Dean  
Mr. David Lennon, TRC

***California Environmental Protection Agency***



Recycled Paper

*Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.*

STATE OF CALIFORNIA  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION  
MONITORING AND REPORTING PROGRAM NO. CI-9634  
FOR  
CANNERS STEAM COMPANY  
249 CANNERY STREET, TERMINAL ISLAND, CALIFORNIA  
(ORC INJECTION FOR GROUNDWATER CLEANUP)  
(ORDER NO. R4-2007-0019, SERIES NO. 160)  
(SITE CLEANUP PROGRAM NO. 1099)

I. REPORTING REQUIREMENTS

- A. Canners Steam Company (hereinafter Discharger) shall implement this monitoring program on the effective date (October 26, 2010) of Regional Board Order No. R4-2007-0019. The first monitoring report under this program, for October-December 2010, shall be received at the Regional Board by January 15, 2011. Subsequent monitoring reports shall be received at the Regional Board according to the following schedule:

<u>Monitoring Period</u>	<u>Report Due</u>
January – March	April 15
April – June	July 15
July – September	October 15
October – December	January 15

- B. If there is no discharge or injection during any reporting period, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit.
- C. By March 1<sup>st</sup> of each year, the Discharger shall submit an annual summary report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Discharger shall explain the compliance record and the corrective actions taken, or planned, which may be needed to bring the discharge into full compliance with the waste discharge requirements (WDRs).
- D. For any analyses performed for which no procedure is specified in the USEPA guidelines or in the MRP, the constituent or parameter analyzed and the method or

October 12, 2010

STATE OF CALIFORNIA  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION  
320 West 4th Street, Suite 200, Los Angeles, California 90013

FACT SHEET  
WASTE DISCHARGE REQUIREMENTS FOR  
PROPOSED CANNERS STEAM COMPANY, 249 CANNERY STREET  
TERMINAL ISLAND, CALIFORNIA

IN-SITU CHEMICAL OXIDATION USING REGENOX™ AND ORC ADVANCED®

ORDER NO. R4-2007-0019 (SERIES NO. 160)  
CI-9634, SCP NO. 1099

FACILITY ADDRESS

249 CANNERY STRET  
Terminal Island, CA 90731

FACILITY MAILING ADDRESS

Kelly Bay  
Canners Steam Company c/o Windes & McClaughren  
111 W. Ocean Blvd., 22<sup>nd</sup> Floor  
Long Beach, CA 90801-6187

PROJECT DESCRIPTION

**Site Description:** The Canners Steam facility, a steam generating plant, was built in 1951, and had four boilers, an under ground storage tank (UST), and two 120,000 gallon above ground fuel storage tanks.

**Chemicals of Concern:** Onsite soils and groundwater have been contaminated with fuel, oil, and volatile organic compounds (VOCs). The dissolved groundwater and free product plumes have been migrated offsite.

**Site Assessment/Cleanup Status:** In a letter dated August 28, 2007, the Regional Board required a workplan for additional soil, free product and groundwater investigation and a remedial action plan for the Canners Steam Facility. Regional Board staff reviewed the document titled *Preliminary Site Conceptual Model, Work Plan for Supplemental Site Assessment, and Preliminary Remedial Action Plan* dated October 15, 2007, and issued a letter dated October 22, 2008 conditionally approving the proposed scope of work. The Regional Board letter also defined the soil and groundwater cleanup targets and allowed Canners Steam to proceed with implementation of proposed remedial actions including excavation and removal of contaminated soil, and application of Oxygen Release Compound (ORC) to the bottom of the excavation for treatment of the residual hydrocarbons in underlying soil and groundwater.

VOLUME AND DESCRIPTION OF IN-SITU CHEMICAL OXYDATION (ISCO)

**ISCO Description:** RegenOx™ will be mixed with water to form a slurry and spray applied to the bottom of the remedial excavation prior to backfilling the saturated zone with a gravel layer. As a final step, ORC Advanced® will be mixed with water to form a slurry and spray applied onto the gravel backfill in the bottom of excavation.. Periodic groundwater sampling will be performed on site wells to evaluate the effectiveness of the chemical application. If additional groundwater treatment is necessary post excavation, ORC Advanced® will be introduced by using three proposed injection wells and trenches to be installed in the excavation (as shown in Figure 14 in Exhibit D).

**Volume:** An estimated 35,370 pounds of RegenOx™ will be mixed with water to form the slurry. An estimated 1,100 pounds of ORC Advanced® will be mixed with water to form the slurry.