

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
ARCO/UNOCAL JOINT PROJECT
(ARCO/UNOCAL HAWTHORNE COMMINGLED PLUME)

NPDES NO. CAG834001
CI-8320

FACILITY ADDRESS

1. ARCO Facility
11402 Hawthorne Boulevard
Hawthorne, CA
2. UNOCAL Facility
4410 West Imperial Highway
Hawthorne, CA

FACILITY MAILING ADDRESS

Atlantic Richfield Company (ARCO)
4 Centerpointe Drive
La Palma, CA 90623-1066

PROJECT DESCRIPTION:

ARCO and UNOCAL jointly applied for this NPDES permit to discharge treated groundwater from a contaminated, commingled plume located at the intersection of Hawthorne Boulevard and Imperial Highway, City of Hawthorne. The proposed groundwater remediation will be performed in two phases using different treatment system configurations as follows:

1. Phase 1 - Interim Groundwater Treatment System
The influent water will be treated by two 1,000-pound granular activated carbon (GAC) canisters in series.
2. Phase 2 – Soil and Groundwater Remediation System
The influent water will be treated by a shallow tray air stripper to remove the majority of the contaminants. The treated water will then be polished using two 1,000-pound GAC canisters in series.

The two systems will not operate simultaneously. Phase 2 treatment system will replace Phase 1 treatment system after additional extraction wells have been constructed. Phase 2 is expected to start operating in early 2002.

VOLUME AND DESCRIPTION OF DISCHARGE:

Up to 0.022 million gallons per day (mgd) of groundwater will be discharged during the Phase 1, and will last up to six months. Phase 1 will be conducted during the month of November 2001. Up to 0.100 mgd will be discharged during the Phase 2, and will last until the site is cleaned up.

The treated groundwater will be discharged into a storm water catch basin located on the south side of Hawthorne Boulevard (Latitude: 33° 55' 50", Longitude: 118° 20' 37"). The discharge flows into the Dominguez Channel, a water of the United States. The site location map, process flow diagram, and the site plan are shown in Figures I, II, and III, respectively.

FREQUENCY OF DISCHARGE:

The discharge of treated groundwater will be continuous.

REUSE OF WATER:

Water reuse alternatives and its applicability at the site were evaluated. The sanitary sewer does not allow long-term high volume discharge. Onsite storage and disposal is not a feasible option because of the large volume of water and high cost of disposal. Since there are no feasible reuse options, the groundwater will be discharged to the storm drain.