

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

FACT SHEET
WASTE DISCHARGE REQUIREMENTS
FOR
UNIVERSITY OF SOUTHERN CALIFORNIA
(HARLYNE NORRIS CANCER RESEARCH TOWER)
NPDES NO. CAG994004
CI-7961

PROJECT LOCATION

Harlyne Norris Cancer Research Tower
1450 Biggy Street
Los Angeles, California 90033

FACILITY MAILING ADDRESS

3470 McClintock Avenue
Los Angeles, CA 90089

PROJECT DESCRIPTION

University of Southern California (USC) proposes to discharge up to 20,000 gallons per day of groundwater generated from dewatering activities beneath the Harlyne Norris Cancer Research Tower located at 1450 Biggy Street in Los Angeles. Discharges from the construction of the Center for Health Professions Building and Neurogenetics Building (located approximately 100 feet south of the Center for Health Professions Building) and two future buildings are also covered under this permit. Based on the water quality data submitted with the Notice of Intent Form and previous monitoring reports, the groundwater data from beneath the site indicates the presence of total petroleum hydrocarbons and elevated heavy metals concentrations, specifically copper and lead. The Discharger proposes to treat the contaminants using activated carbon vessels and PUR-Z media.

VOLUME AND DESCRIPTION OF DISCHARGE

Up to 20,000 gallons per day of groundwater from the Facility will be discharged to a storm drain (Latitude 34° 03' 74", Longitude 118° 12' 30"). The discharge will flow to the Los Angeles River (between Figueroa Street and the Los Angeles River Estuary), a water of the United States. See Figures 1 and 2 for the schematic treatment flow diagram and site location, respectively.

APPLICABLE EFFLUENT LIMITATIONS

Based on the information provided in the NPDES Application Supplemental Requirements, and previous monitoring reports, the following constituents listed in the table below have been determined to show reasonable potential to exist in the discharge. The discharge of treated groundwater flows to the Los Angeles River (between Figueroa Street and the Los Angeles River Estuary); therefore, the discharge limitations under the "Other Waters" column apply to your discharge. Based on the hardness value of your groundwater, an appropriate

discharge limitation for hardness-dependent metals has been selected according to Section E.1.b. of the Order No. R4-2003-0111. In addition, Attachment B.7.d. is applicable to your discharge.

This table lists the specific constituents and effluent limitations applicable to your discharge.

Constituents	Units	Discharge Limitations	
		Daily Maximum	Monthly Average
Total Dissolved Solids	mg/L	1500	---
Sulfate	mg/L	350	---
Chloride	mg/L	190	---
Nitrate+Nitrite as Nitrogen	mg/L	8	---
Total Suspended Solids	mg/L	150	50
Turbidity	NTU	150	50
BOD ₅ 20°C	mg/L	30	20
Oil and Grease	mg/L	15	10
Settleable Solids	ml/L	0.3	0.1
Sulfides	mg/L	1.0	---
Phenols	mg/L	1.0	---
Residual Chlorine	mg/L	0.1	---
Methylene Blue Active Substances (MBAS)	mg/L	0.5	---
Metals			
Total Petroleum Hydrocarbons	µg/L	100	---
Copper	µg/L	44.4	22.1
Lead	µg/L	25.6	12.8

FREQUENCY OF DISCHARGE

Discharge will be intermittent during construction of the Harlyne Norris Cancer Research Tower. The construction activity is proposed to begin in November 2003. The groundwater dewatering at these facilities is expected to become permanent following the completion of the construction projects. However, once construction has been completed, the groundwater will be discharged to the sewer under permit from the City of Los Angeles, Industrial Waste Section.

REUSE OF WATER

Discharge to the sanitary sewer is not permitted during the construction at this time. Other reuse options are not feasible; therefore, the groundwater will be discharged to the storm drain.