

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

**FACT SHEET  
WASTE DISCHARGE REQUIREMENTS  
FOR  
LONG BEACH WATER DEPARTMENT  
(SEAWATER INTAKE AND DISCHARGE DEMONSTRATION PROJECT)**

**NPDES NO. CAG994004  
CI-9283**

**FACILITY ADDRESS**

Junipero Beach & Junipero Ave.  
Long Beach, California

**FACILITY MAILING ADDRESS**

1800 E. Wardlow Road  
Long Beach, CA 90807-4931

**PROJECT DESCRIPTION:**

Long Beach Water Department (Discharger) proposes to construct an Under Ocean Floor Seawater Intake and Discharge Demonstration Project (Project) at Junipero Avenue in Junipero Beach, City of Long Beach (see Figure 1 for site location). The Project will involve using an innovative, gravity-driven, submerged intake technology for seawater desalination plants that minimizes environmental impacts such as impingement and entrainment of marine organisms. Untreated seawater will be circulated through the facility and will not involve water treatment. Construction and operation of the Project will evaluate the feasibility of developing a full-scale seawater desalination plant. The Discharger will construct two subsurface infiltration galleries within the surf zone. The Discharger proposes to discharge the groundwater from the construction to surface waters under the subject General NPDES permit. Figure 2 show the aerial view of the proposed intake and discharge facilities.

**VOLUME AND DESCRIPTION OF DISCHARGE:**

Up to 0.5 million gallons per day (mgd) of groundwater will be discharged from the project site under the NPDES permit to Discharge Point 001. The discharge flows into the coastal zone of Junipero Beach, a water of the United States.

**APPLICABLE EFFLUENT LIMITATIONS**

Based on the information provided in the NPDES Application Supplemental Requirements, the constituents listed in the Table below have been determined to show reasonable potential to exist in the discharge. The groundwater discharge flows into the coastal zone of Junipero Beach. Therefore, no receiving water specific discharge limitations apply to the discharge.

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

Constituents	Units	Discharge Limitations	
		Daily Maximum	Monthly Average
Total Suspended Solids	mg/L	150	50
Turbidity	NTU	150	50
BOD <sub>5</sub> 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	N/A
Phenols	mg/L	1.0	N/A
Residual Chlorine	mg/L	0.1	N/A
Methylene Blue Active Substances (MBAS)	mg/L	0.5	N/A

**FREQUENCY OF DISCHARGE:**

The groundwater discharge will be intermittent.

**REUSE OF WATER:**

Offsite disposal of the groundwater discharge is not feasible due to the high cost of disposal. The immediate vicinity has no landscaped areas that require irrigation using the groundwater discharge. Since there are no other feasible reuse options, the groundwater generated from the project will be discharged to Junipero Beach.