

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 Broadway
New York, New York 10007-1866

**FACT SHEET
FOR DRAFT NPDES PERMIT TO DISCHARGE
INTO THE WATERS OF THE UNITED STATES**

NPDES Application No. **PR0021555**

Name and Address of Applicant:

Puerto Rico Aqueduct and Sewer Authority
P.O. Box 7066
Barrio Obrero Station
San Juan, Puerto Rico 00916

Name and Address of Facility where
Discharge Occurs:

Puerto Nuevo Regional Wastewater Treatment Plant
San Juan, Puerto Rico

Receiving Water: **Atlantic Ocean**

Classification: SC

Permit Writer: Yasmin Laguer, Caribbean Environmental Protection Division

I. LOCATION OF DISCHARGE

The above-named applicant has applied to the U.S. Environmental Protection agency (EPA) for a National Pollutant Discharge Elimination System (NPDES) permit, to discharge into the designated receiving water. The approximate U.S.G.S. coordinates for the effluent sampling point 001 are:

Latitude **18° 29' 13"** North
Longitude **66° 08' 21"** West

II. DESCRIPTION OF FACILITY AND DISCHARGE

The Puerto Nuevo Regional Wastewater Treatment Plant (RWWTP) started operations in 1957. The facility is owned and operated by the Puerto Rico Aqueduct and Sewer Authority (PRASA). It is located in Road #2 km 2, John F. Kennedy Avenue in San Juan, Puerto Rico. The Puerto Nuevo RWWTP serves the municipalities of San Juan, Trujillo Alto and portions of Bayamón, Guaynabo and Carolina.

The Puerto Nuevo RWWTP is designed to treat an average hydraulic loading of 72 million gallons per day (MGD) and a peak hydraulic loading of 144 MGD. Currently, the average daily and maximum flows are approximately 57 MGD and 64 MGD, respectively. The facility's layout includes a pumping station, mechanical bar screen, grit removal mechanism, primary clarifiers, sludge handling facilities and disinfection area. The treated effluent from the Puerto Nuevo RWWTP combines with treated effluent from the Bayamón RWWTP and the Bacardi Corporation's wastewater treatment plant (WWTP). The combined effluent is then discharged approximately 7,365 ft (2,246 m) from the shoreline into the Atlantic Ocean, at a location approximately 3,600 ft (1,097 m) north of Isla de Cabras, at a depth of 141 ft (43 m). The discharge is through a high-rate, Y-shaped diffuser consisting of two (2) legs that are each 1,010 ft (308 m) in length and a constant 84-inch diameter. The west leg of the diffuser has 100 bellmouthed ports and the east leg of the diffuser has 102 bell-mouthed ports, each at 15 degrees from the horizontal. There are a total of 202 ports. On the west diffuser leg, there are 80 inshore ports that have a diameter of 6 in (15.2 cm), 19 offshore ports that have a diameter of 7 in (17.8 cm), and 1 10-inch (25.4 cm) port. On the east diffuser leg, there are 81 inshore ports that have a diameter of 6 in (15.2 cm), 20 offshore ports that have a diameter of 7 in (17.8 cm), and 1 10-inch port. The ports discharge on alternating sides of the diffuser and are evenly spaced at 10 ft (3.05 m) intervals. The diffuser is currently operated with all 202 ports open. PRASA is proposing to continue discharging through all 202 ports.

The outfall system is owned and operated by the Puerto Rico Aqueduct and Sewer Authority (PRASA) to dispose of treated effluents from the Bayamón and Puerto Nuevo RWWTPs. The Bayamón RWWTP and Puerto Nuevo RWWTP are municipal sewage treatment plants operated by the PRASA and their discharges are regulated by separate NPDES permits. The Atlantic Ocean is classified as SC water in the Puerto Rico Water Quality Standards Regulation (PRWQSR), by the Environmental Quality Board (EQB) of the Commonwealth of Puerto Rico. A detailed description of the type and quantity of pollutants which are to be discharged is listed in the draft Permit.

On September 28, 2011, the U.S. Environmental Protection Agency, Region 2 (EPA) issued a final NPDES permit to the Puerto Nuevo Regional Wastewater Treatment Plant located in San Juan, Puerto Rico. The EPA specified that the Permit was to become effective on December 1, 2011. This permit has been modified to include Whole Effluent Toxicity limitation in addition to four CSO points as requested by PRASA.

III. MODIFICATION

EPA is hereby proposing to include one additional CSO outfalls on the modified permit to as new information was provided by PRASA and confirmed by EPA inspectors on April 2, 2013. EPA is hereby proposing to include this additional CSO outfall on the modified permit to reflect this new information as stated in Attachment 2 of the effective Puerto Nuevo WWTP NPDES permit. The first page of Attachment 2 (Combined Sewer Outfalls Permit Conditions) will now include CSO number 013 as described below.

Outfall Number	Overflow Outfall Location	Receiving Water Body
013 Los Angeles	18° 26' 8.69" 66° 03'59.82"	Martín Peña Channel