



GOBIERNO DE PUERTO RICO

Autoridad de Acueductos y Alcantarillados

Adopted Local Limits for Carolina RWWTP

The Carolina Regional Wastewater Treatment Plant (RWWTP) is located at Municipality of Loíza. The plant operates under National Pollutant Discharge Elimination System (NPDES) permit number PR0023752. The treatment process consists of preliminary screening, grit removal, primary clarifiers, sludge dewatering facilities, and disinfection via chlorine injection. The treated effluent is then discharged into the Atlantic Ocean through an outfall/high-rate diffuser system. The sludge-handling facilities consist of a sludge holding tank and sludge dewatering. The sludge is then disposed of in an approved landfill. Sludge may also be sent for disposal at the Puerto Nuevo Incinerator.

PRASA has completed a Technically Based Local Limits (TBLL) evaluation to meet NPDES requirements for the Carolina RWWTP. The limits that will be adopted by PRASA have been developed in accordance with EPA's Local Limits Development Guidance¹ and in accordance with NPDES Permit No. PR0023752 Special Conditions, No. 22c. Table 1 lists the local limits to be adopted by PRASA.

Table 1. Adopted Local Limits

Parameter	Previous Limit	Adopted Local Limit
Arsenic	0.230 mg/L	0.230 mg/L
Beryllium	No Limit	1.900 mg/L
Cadmium	0.10 mg/L	0.100 mg/L
Chromium	1.0 mg/L	1.000 mg/L
Copper	0.5 mg/L	4.400 mg/L
Cyanide (Free)	0.05 mg/L	0.050 mg/L
Lead	0.1 mg/L	0.220 mg/L
Mercury	0.015 mg/L	0.009 mg/L
Nickel	0.5 mg/L	0.380 mg/L
Selenium	No Limit	0.200 mg/L
Silver	0.20 mg/L	0.210 mg/L
Thallium	0.05 mg/L	0.390 mg/L
Zinc	8.1 mg/L	0.500 mg/L
Flow	0.5 mg/L	No Limit
BOD ₅	250 mg/L surcharge level	250 mg/L surcharge level
TSS	250 mg/L surcharge level	250 mg/L surcharge level
Color	No Limit	250 Pt/Co Units
Nitrogen	No Limit	No Limit

¹U.S. Environmental Protection Agency Office of Wastewater Management. 2004. *Local Limits Development Guidance*. EPA Publication EPA 833-R-04-002A. July.





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Table 1. Adopted Local Limits

Parameter	Previous Limit	Adopted Local Limit
Phenols ^a	Monitor Only	1.0 mg/L
pH	6.5–9.0 SU	6.5–9.0 SU
Oil and Grease	50 mg/L Total O&G	50 mg/L Total O&G
Temperature	40°C	40°C (104°F) at POTW 60°C (140°F) from SIU
Flammability	Specified as flashpoint >140 (°F)	No two consecutive readings at ≥5% LEL, and no reading of ≥10% LEL allowed
TTO	Monitor Only	No Limit

^a Total phenols minus unsubstituted phenol

Notes:

BOD₅ = 5-day biochemical oxygen demand

LEL = lower explosive limit

mg/L = milligram(s) per liter

POTW = publicly owned treatment works

SIU = significant industrial user

SU = standard units

TSS = total suspended solids

TTO = total toxic organics

For parameters where no limit has been adopted, PRASA reserves the right to establish limits on a case-by-case basis when an industry discharges in amounts that could cause interference or pass-through.



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