



GOBIERNO DE PUERTO RICO

Autoridad de Acueductos y Alcantarillados

Adopted Local Limits for Guayama RWWTP

The Guayama Regional Wastewater Treatment Plant (RWWTP) is located at Road 710 Km. 11 in the Municipality of Guayama. The plant operates under National Pollutant Discharge Elimination System (NPDES) permit number PR0025445. The treatment process consists of mechanical bar screens, influent pumps, grit removal, primary clarification, biofilters, secondary clarification, and chlorination prior to discharge. The sludge-handling facilities consist of anaerobic digestion followed with sludge drying beds.

PRASA has completed a Technically Based Local Limits (TBLL) evaluation to meet NPDES requirements for the Guayama RWWTP. The limits that will be adopted by PRASA have been developed in accordance with EPA's Technical Support Document *Local Limits Development Guidance*¹ and in accordance with NPDES Permit No. PR0025445 Part 1, A. Special Conditions, No. 21 c. Table 1 lists the local limits to be adopted by PRASA.

Table 1. Adopted Local Limits

Parameter	Previous Limit	Adopted Local Limit
Arsenic	0.02 mg/L	0.160 mg/L
Cadmium	0.08 mg/L	0.100 mg/L
Chromium	1.0 mg/L	1.000 mg/L
Copper	0.10 mg/L	0.013 mg/L
Cyanide (Free)	0.003 mg/L	0.003 mg/L
Lead	0.025 mg/L	0.240 mg/L
Manganese	0.14 mg/L	No Limit
Mercury	0.05 mg/L	0.002 mg/L
Molybdenum	No Limit	0.430 mg/L
Nickel	0.02 mg/L	0.070 mg/L
Selenium	0.6 mg/L	0.410 mg/L
Silver	0.05 mg/L	0.050 mg/L
Zinc	0.14 mg/L	1.60 mg/L
Flow	No Limit	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
Total Nitrogen (TKN+NO ₃ +NO ₂)	No Limit	9.8 mg/L
Phenols ^a	1.1 mg/L	1.0 mg/L

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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Parameter	Previous Limit	Adopted Local Limit
pH	6.5–9.0 SU	7.3–9.0 SU
Oil and Grease (O&G)	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
Total Toxic Organics	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

Pt/Co = platinum cobalt

SIU = significant industrial user

SU = standard units

TSS = total suspended solids

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.