



GOBIERNO DE PUERTO RICO

Autoridad de Acueductos y Alcantarillados

Adopted Local Limits for Yabucoa WWTP

The Yabucoa WWTP is located on State Road No. 901, Km. 0.1 in the Municipality of Yabucoa. The plant operates under National Pollutant Discharge Elimination System (NPDES) permit number PR0021717. The treatment process consists of headworks with comminutors, grit chambers, activated sludge (step feed aeration), secondary clarifiers, and chlorination. The sludge handling facilities consist of aerobic digestion followed by sludge drying beds. Train 1 consists of a package plant with an aeration basin and secondary clarification.

PRASA has completed a Technically Based Local Limits (TBLL) evaluation to meet NPDES requirements for the Yabucoa WWTP. 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. PR0021717, Part IV (B)(5)(a)(2). Table 1 lists the local limits to be adopted by PRASA.

Table 1. Adopted Local Limits

Parameter	Previous Limit	Adopted Local Limit
Arsenic	No Limit	0.12 mg/L
Cadmium	0.1 mg/L	0.01 mg/L
Copper	1.0 mg/L	0.0463 mg/L
Cyanide	0.1 mg/L	0.12 mg/L
Lead	0.2 mg/L	0.12 mg/L
Mercury	0.05 mg/L	0.0001 mg/L
Molybdenum	No Limit	6.78 mg/L
Nickel	0.5 mg/L	0.68 mg/L
Selenium	0.2 mg/L	0.1 mg/L
Silver	0.05 mg/L	0.05 mg/L
Zinc	0.5 mg/L	1.17 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
pH	5.0–10.0 SU	6.5–9.0 SU
Phenols ^a	1.0 mg/L	1.0 mg/L
Total Phosphorus	No Limit	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.



Table 1. Adopted Local Limits

Parameter	Previous Limit	Adopted Local Limit
Total Ammonia Nitrogen (NH_4^+ , NH_3)	No Limit	Monitor Only
TDS	No Limit	500 mg/L
Total Nitrogen	No Limit	Monitor TKN, NH_3 , NO_3 , and NO_2
O&G	50 mg/L Total O&G	50 mg/L Total O&G
Temperature	60°C (140°F)	40°C (104°F) at the POTW 60°C (140°F) at discharge point
Flammability	No Limit	No two consecutive readings at $\geq 5\%$ LEL, and no reading of $\geq 10\%$ LEL allowed
Total Toxic Organics	No Limit	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

TDS = total dissolved solids

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.