



GOBIERNO DE PUERTO RICO

Autoridad de Acueductos y Alcantarillados

Adopted Local Limits for Aibonito WWTP

The Aibonito Wastewater Treatment Plant (WWTP) is located at Macedonia St. No. 69 in the Municipality of Aibonito. The plant operates under National Pollutant Discharge Elimination System (NPDES) permit number PR0025461. The Aibonito WWTP treatment processes consist of mechanical bar screening, influent pumps, grit removal, primary clarification, biofiltration, secondary clarification, tertiary filtration, and chlorination prior to discharge. The sludge-handling facilities consist of aerobic digestion followed by sludge drying beds.

PRASA has completed a Technically Based Local Limits (TBLL) evaluation to meet NPDES requirements for the Aibonito 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. PR0025461-Part IV.B.4.a.1) b). Table 1 lists the local limits to be adopted by PRASA.

Table 1. Adopted Local Limits

Parameter	Previous Limit	Adopted Local Limit
Arsenic	0.005 mg/L	0.015 mg/L
Cadmium	0.01 mg/L	0.002 mg/L
Chromium VI	No Limit	0.035 mg/L
Copper	0.02 mg/L	0.015 mg/L
Cyanide (Free)	0.013 mg/L	0.018 mg/L
Lead	0.02 mg/L	0.046 mg/L
Manganese	0.24 mg/L	No Limit
Mercury	0.00034 mg/L	0.0001 mg/L
Molybdenum	No Limit	1.97 mg/L
Nickel	0.32 mg/L	0.15 mg/L
Selenium	No Limit	0.009 mg/L
Silver	0.02 mg/L	0.019 mg/L
Thallium	0.01 mg/L	No Limit
Zinc	0.152 mg/L	0.75 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

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
Ammonia	42.00 mg/L	25 mg/L
Total Nitrogen (TKN+NO ₃ +NO ₂)	No Limit	Monitor Monthly TKN, NH ₃ , NO ₃ , NO ₂
Surfactants as MBAS	0.49 mg/L	0.49 mg/L
Phenols ^a	0.0022 mg/L	1.0 mg/L
pH	6.5–9.0 SU	6.5–9.0 SU
Total Phosphorus	2.62 mg/L	1.0 mg/L
TDS	316 mg/L	316 mg/L
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
TTO	No Limit	No Limit

^a Total phenols minus unsubstituted phenol

Notes:

BOD₅ = 5-day biochemical oxygen demand

LEL = lower explosive limit

MBAS = methylene blue active substances

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.