



# GOBIERNO DE PUERTO RICO

## Autoridad de Acueductos y Alcantarillados

### Adopted Local Limits for Yauco WWTP

The Yauco WWTP is located on State Road No. 335, Km. 0.4, Barinas Ward in the Municipality of Yauco. The plant operates under National Pollutant Discharge Elimination System (NPDES) permit number PR0021661. The treatment process consists of headworks with bar screens, grit chambers, equalization tanks, biological nutrient removal, secondary clarifiers, disc filters, and chlorination. The sludge handling facilities consist of an aerobic digester followed by dewatering with belt filter presses.

PRASA has completed a Technically Based Local Limits (TBLL) evaluation to meet NPDES requirements for the Yauco WWTP. The limits that will be adopted by PRASA have been developed in accordance with EPA's Technical Support Document *Local Limits Development Guidance*<sup>1</sup> and in accordance with NPDES Permit No. PR0021661 Part 1, A. Special Conditions, No. 19c. 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                 | 0.127 mg/L               |
| Cadmium                          | 0.1 mg/L                 | 0.003 mg/L               |
| Copper                           | 1.0 mg/L                 | 0.187 mg/L               |
| Cyanide                          | 0.1 mg/L                 | 0.064 mg/L               |
| Lead                             | 0.2 mg/L                 | 0.47 mg/L                |
| Mercury                          | 0.05 mg/L                | 0.002 mg/L               |
| Molybdenum                       | No Limit                 | 0.46 mg/L                |
| Nickel                           | 0.5 mg/L                 | 2.58 mg/L                |
| Selenium                         | 0.2 mg/L                 | 0.56 mg/L                |
| Silver                           | 0.05 mg/L                | 0.40 mg/L                |
| Zinc                             | 0.5 mg/L                 | 1.71 mg/L                |
| Surfactants                      | No Limit                 | Monitor only             |
| NO <sub>3</sub> +NO <sub>2</sub> | No Limit                 | Monitor only             |
| Ammonia                          | No Limit                 | Monitor Only             |
| Sulfate and Sulfide              | No Limit                 | Monitor only             |
| Flow                             | No Limit                 | No Limit                 |
| BOD <sub>5</sub>                 | 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              | 6.0–9.0 SU               |

<sup>1</sup>U.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                                                        |
|----------------------|-------------------|----------------------------------------------------------------------------|
| Phenols <sup>a</sup> | 1.0 mg/L          | 1.0 mg/L                                                                   |
| 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<br>60°C (140°F) at discharge point                |
| Flammability         | No Limit          | No two consecutive readings at ≥5% LEL, and no reading of ≥10% LEL allowed |

<sup>a</sup> Total phenols minus unsubstituted phenol

Notes:

BOD<sub>5</sub> = 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.