

Reference: San Miguel, Haiti, Carribean

COD/BOD removal of soft drink manufacturing effluent in the Carribean

Project:

San Miguel, Haiti, Carribean

Industry:

Food & Beverage

Facts & figures:

- $Q = 280 \text{ m}^3/\text{day}$
- 60 m^3 Mutag BioChip™
- $\text{BOD}_{\text{in}} = 1600 \text{ mg/l}$ and $\text{BOD}_{\text{out}} = 8 \text{ mg/l}$
- $\text{COD}_{\text{in}} = 3,358 \text{ mg/l}$ and $\text{COD}_{\text{out}} = 18 \text{ mg/l}$
- In operation since 2021

Task:

The task was to reach the target effluent limits for COD/BOD in a newly built soft drink manufacturing ETP.

Solution:

4 x MBBR tanks were equipped with Mutag BioChip™ carrier. The tanks are connected in series, allowing for high-load and low-load treatment conditions. The Mutag technology has been integrated by our good partner, Spena Group, from Peru.

Results:

The plant has been in operation since 2021 and the achieved outlet water quality is even below the permits of $\text{BOD} = 25 \text{ mg/l}$ and $\text{COD} = 80 \text{ mg/l}$.

