

Case study:

Ricolino S.A. de C.V.

San Luis Potosí, Mexico. 1997.

Client problem

Ricolino is a food company belonging to the Industrial Group Bimbo which produces candies and chocolates in different presentations. The manufacturing process generates highly concentrated wastewater in biodegradable organic matter, which was discharged to the Española river without any treatment.

Faced with this situation and in response to the request of the authorities to comply with the quality parameters established in the NOM-001-ECOL-1996, Ricolino decided to build a WWTP.

IBTech®'s solution

Project under the "Turnkey" scheme in which a train of treatment was designed with the following processes:

- Pretreatment. Static screen with self-cleaning, degreasing, homogenization tank
- Secondary treatment. UASB reactor and activated sludge, followed by a disinfection with sodium hypochlorite
- Filtration
- Sludge dewatering in filter press

Results

Once built and started-up, the plant achieved the following:

- UASB anaerobic reactor with removal efficiencies of above 95%, activated sludge reactor in extended aeration for polishing.
- Discharge of treated water to the Española river with the fulfillment of the quality required by the Mexican norm NOM-001-ECOL-1996 (discharge to river for agricultural irrigation).
- Due to the effluent quality was much higher than required by the regulations, Ricolino decided to separate its piping system to reuse the treated water for irrigation of green areas and use in toilets.




WWTP general view



WWTP general view

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