



# IGUALADA

## Industrial WWTP

Qinlet: 5.500m<sup>3</sup>/d

**Number of Tanks: 1**

**Total Volume: 11880 m<sup>3</sup>**

**Water Depth: 6m**

**SOTR Standard Oxygen Transfer Rate: 544,1 kgO<sub>2</sub>/h**

**Total Airflow: 4730 Nm<sup>3</sup>/h**

**Total AEROSTRIP® Diffusers: 239**

### ***AEROSTRIP® enables remarkably high nitrogen reduction***

Due to an expected increase of waste water within the next years in Igualada the tanneries decided to convert the waste water treatment plant. Their aim was to apply new technologies and, thus, achieve higher efficiency values.

Previously the homogenization tank was used to mix both the industrial and municipal waste water. Due to odour nuisance as a consequence it could not be used exhaustingly. Other parts had reached their limit of capacity, such as the sequence batch reactors (SBR).

The tanneries of Igualada have a long tradition dating back to their foundation in 1693. Since the beginning they have worked religiously to fulfill the latest demands of the market and have become a world wide reference in the tannery sector.

Other than placing importance at their products their aim is also to minimize the environmental effects.

To solve that issue it was decided to reequip the homogenization tank to a biological aerobic reactor. Thus, carbon reduction is achieved in that tank and biological elimination of nitrogen takes place in the SBRs.

Having changed the configuration of the plant, the capacity of nitrogen reduction was remarkably enhanced from 40% to 95%, both in summer and in winter.

For the conversion of the homogenization tank to a biological aerobic reactor robust equipments and energy efficiency were of utmost importance. That is why the client eventually went with the fine bubble diffusers by AEROSTRIP®.

# AEROSTRIP®

fine bubble diffusers by AQUACONSULT

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