

Op66. Hydraulic barrier against saltwater encroachment to preserve the Llobregat aquifer

MUNICIPALITIES

Barcelona and El Prat del Llobregat

PROJECT DESCRIPTION

One of the main uses for water generated at the Prat de Llobregat plant is the formation of a hydraulic barrier against saltwater encroachment to preserve the Llobregat aquifer. The design discharge for this is some 15.000 m³/day, divided into two phases: the first of 5,000 m³/day and the second for the remainder of the discharge.

The regeneration plant treatments used to form the barrier against saltwater encroachment are those of coagulation and flocculation, decantation, filtration, disinfection process, ultra-filtration and reverse osmosis.

The results of the first stage were satisfactory and there was success in reducing the aquifer's salinity. The first results of the second phase have also been very good and in line with the existing forecasts.

This action together with others such as the recharging of the aquifer and the exhaustive control of extracts will make the aquifer a strategic resource in the AMB's water policy.

WEBSITE FOR REFERENCE

www.amb.cat

PERSON RESPONSIBLE FOR THE PROJECT

Martín Gullón Santos, Director of Water Cycle Services and Environmental Management of the Barcelona Metropolitan Area.