



Water cycle / Operation and maintenance

Maintenance of wastewater treatment plants in 14 towns in La Cerdanya

Client

Consell Comarcal de la Cerdanya

Cost

€6,861,618.12 (excluding VAT)

Location

Girona

Work period

From March 2021 to March 2025

Scope

Operation and maintenance services for the sanitation systems of the towns of Alp, Bellver de Cerdanya, Bolvir, Das, Guils de Cerdanya, Martinet, Masella, Molina, Prats, Puigcerdà, Saneja, Sant Martí de Cerdanya, Supermolina and Vilar d'Urtx.



Description of the service

With sanitation systems serving populations of different densities, Puigcerdà being the most populated with 29,741 people, the infrastructures differ in terms of design flow rates and treatment techniques. Each of the 14 towns require specific maintenance in accordance with their characteristics.

Alp

With a flow rate of 450 m³/day in the low season and 2000 m³/day in the high season. Sludge extraction takes place in two chambers and one atmosphere inside the tank.

Bellver de Cerdanya

It has a flow rate of 1445 m³/day. It receives external pumping from the Santa María river with around 4 km of pipe. Two rotary screens receive the water for pre-treatment.

Bolvir

It has a flow rate of 750 m³/day in the summer and 350 m³/day in the winter. Water passes through the fine screen and through two rotary screens (1+1) for pre-treatment.

Das

With a flow rate of 410 m³/day in the summer and 200 m³/day in the winter, this system uses internal sludge recirculation and the decanter is an inverted cone hopper with a diameter of 6.5 m.

GUILS DE CERDANYA

It has a flow rate of 410 m³/day in the summer and 292 m³/day in the winter. In the pre-treatment phase, water passes through two manual coarse screens, a fine screen and a self-cleaning spiral screen.

Martinet

It has a flow rate of 1310 m³/day in the summer and 375 m³/day in the winter. A self-cleaning vertical flow static screen receives the water for pre-treatment.

Masella

It has a flow rate of 300 m³/day in the summer and

750 m³/day in the winter. Water enters through a coarse screen and two self-cleaning screens.

Molina

It has a flow rate of 300 m³/day in the summer and 750 m³/day in the winter. There are two reactors in operation for decanting. All operations are carried out in the same tank.

Prats

Its flow rate is 250 m³/day in the summer and 200 m³/day in the winter. Water enters through a manual, removable, stainless steel coarse screen and passes through a self-cleaning spiral screen.

Puigcerdà

It consists of an 8 km network of pipes, a wastewater treatment plant and a pumping station. It has a flow rate of 8,300 m³/day. Water is fed to a manually-cleaned static coarse screen and three automatic rotary screens.

Saneja

With a pre-treatment system involving a manual coarse screen, the secondary treatment is a standard process of extended aeration and oxygen supply is provided by means of a blower.

Sant Martí de Cerdanya

It has a flow rate of 855.12 m³/day. The pre-treatment is carried out by gravity using a manual coarse screen with scraper and basket and a fine screen with filter and screw compactor.

Supermolina

It has a flow rate of 300 m³/day in the summer and 750 m³/day in the winter. Water enters through a coarse screen and two self-cleaning screens (1+1).

Vilar d'Urtx

It has a flow rate of 225 m³/day in the summer and 70 m³/day in the winter. In the pre-treatment, water is fed to a removable, stainless steel, manual coarse screen.