

Wastewater Treatment Plant in Montcada - Barcelona

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The purpose of this job is the treatment of the wastewater from Montcada (Barcelona) and from the wastewater pipe on the right bank of the Besós River, from Montcada and Reixac to the San Adrian de Besós pumping station.

Location	Montcada and Reixac (Barcelona)
Customer	EMSSA- Generalitat de Catalunya
Capacity	3,025 m ³ /h
Population	250,000 e.i.

This facility treats the wastewater from Montcada and from the pipeline on the right bank of the Besós River, from Montcada and Reixac to the pumping station in San Adrian de Besós.

The average treated flow is 3,025 m³/h, with a maximum capacity of 4,536 m³/h. This is equivalent to serving a population of 250,000 equivalent inhabitants.

The process followed in the **water line** begins with a solids pit where large matter settles out, elevation by worm screw unit, trash rack and fines screening with automatic screens and sand removal with aeration process by means of blowers to eliminate the FOG.

After that, the treated water passes through a quick mixing and flocculation stage where poly-aluminium chloride and polyelectrolyte is added, before entering the gravity type primary settling tanks after which the water is returned to the Besós River.

The **sludge line** consists of a screening and a gravity thickening processes, passing through a regulator tank from where they are pumped to the Besós Wastewater treatment plant.

The plant is completed by equipment to filter part of the settled water so that it can be reused for the plant's own needs.