



EDGEWORTHSTOWN WwTW REFURBISHMENT

Provision of inlet works / picket fence thickener / ferric dosing facility for Phosphorus Removal.

Client: Longford County Council

SUMMARY:

Value: €400,000
Population Served: 3,500 p.e.
Procurement: Traditional
Status: Complete

Services Provided:
Evaluation of Plant / Reports
Detailed Design / Contract Documents
Tender Evaluation / Construction Supervision

Edgeworthstown is in the east of County Longford and its wastewater treatment works (WwTW) is located on a very compact site. Nicholas O'Dwyer Ltd were appointed as Employer's Representative and carried out a technical assessment of the needs of the Edgeworthstown WwTW on behalf of the client. Following on from this assessment, a detailed design for the refurbishment was progressed to Contract Documents, Tender and Construction Supervision.

The scheme comprised three discrete parts. The first was a new Inlet works comprising a 6mm Inlet Screen with integrated Washpactor, Grit Trap and Grit Classifier. This was installed to replace a coarse mechanically raked screen and an aging grit trap. The upgrade helped to improve process performance and service continuity, as well as improving the quality of the final effluent.

The second was a new Picket Fence Thickener (PFT) was installed to give additional storage capacity for sludge, improving plant operations and reducing odours.

The third was a new Ferric Storage and Dosing Facility. This was required in order to limit the amount of Phosphorus in the final effluent and featured fail safe designs to prevent Ferric spills, and resulted in a higher standard in relation to environmental issues and Health and Safety in relation to chemicals on site.

The civil aspect of this project, made difficult because of the extreme compactness of the site, comprised the demolition of the old Sludge Holding Tank and the construction of the new PFT on the same spot whilst keeping the plant live. This required close process monitoring, and interim tankering of sludge.

The final innovative solution to a complex problem was completed on time and on budget.

