



GILFORD WASTEWATER TREATMENT WORKS IMPROVEMENTS

The refurbishment of, and extension to, an existing Wastewater Treatment Works

Client: NI Water

SUMMARY:

Value: £1.7 million
Design Population: 3262 persons
Procurement: NI Water Framework
Status: Complete 2009

Services Provided:
Feasibility Report,
Detailed Design
Management of Tender Process and Evaluation
Construction Supervision,
Final Account

Gilford, Co. Down is a village of around 2000 persons. The village has a number of schools, pubs, clubs and restaurants but no major industry.

The existing Gilford WwTW, a conventional biological filter works, was constructed in 1979. A feasibility report by Nicholas O Dwyer Ltd in 2007 recommended a refurbishment of, and an extension to the existing works. The predicted design population, year 2030, was 3200 persons.

The work, which began in January 2008, involved the refurbishment of the existing primary tanks, biological filters, humus tanks, sludge holding tanks and an inlet pumping station. In addition a new flow balancing tank and inlet works, a new biological filter, new humus tanks, various new pumping stations and an imported sludge holding tank were constructed. The effluent discharge standard, to the River Bann, was BoD 30mg/l; S.S. 50mg/l and NH₃ as N 15mg/l.

The work was successfully completed in late 2009 and it comfortably meets its discharge standard.



Nicholas O'Dwyer
CONSULTING ENGINEERS