



## SHANNON TOWN SEWERAGE SCHEME

Design and upgrade of existing treatment works and collection network.

**Client: Clare County Council**

### SUMMARY:

**Value:** €22.5 million  
**Population Served:** 42,000 p.e.  
**Status:** Preliminary report

### Services Provided:

Preliminary Report,  
 Management of Preliminary Contracts  
 Detailed Design  
 Management of Tender Process and Evaluation  
 Environmental Impact Statement

The treatment plant at Shannon currently consists of a separate domestic wastewater treatment stream and an industrial wastewater treatment stream. A detailed wastewater characterisation survey was carried out to examine the constituents of each stream and to examine the potential to treat both streams by biological means. This would produce a significantly better effluent than is currently being achieved. Based on the statistical review of the influent loading to each stream of the plant, several potential treatment options were examined with a view to providing the best value for money for the scheme, re-utilising existing infrastructure where possible.

The Shannon Estuary is an important ecological resource and has several environmental designations; Special Protection Area (SPA), Special Area of Conservation (SAC) and National Heritage Area (NHA)). However, due to the large assimilative capacity of the estuary only standard Urban Wastewater Discharge Standards are applicable and it is proposed to use a biological treatment system to achieve this and provide an effluent with no significant environmental impact.

Generally the topography of Shannon Town is very flat and the existing network consists of some 14 pumping stations. The network regularly surcharges and as such, capacity increases are required at all the pump stations to reduce this and help maintain service levels. An Environmental Impact Statement was produced for the scheme, which examined all the potential effects of the scheme, and focused in detail at water quality in the Estuary.

