



## TANDRAGEE WASTEWATER TREATMENT WORKS

**VALUE:** £8.23million

**CLIENT:** department for Regional Development, Water Service Northern Ireland

**LOCATION:** Lough Macrory, N. Ireland

**CONTRACT START:** JAN 2005  
**CONTRACT FINISH:** MAR 2007

**PROBLEMS:** No land available for extension, existing works overloaded with high trade effluent load from nearby potato crisp factory, new consent to be applied for.

**CHALLENGES:** Maintaining existing effluent quality whilst constructing replacement works. High final effluent standards.

**SOLUTIONS:** Temporary treatment works using SBR technique during construction



### DESCRIPTION & KEY FEATURES:

- Temporary treatment works were constructed by using the sludge holding tanks as Sequential Batch Reactors during the construction phase.
- A Membrane Bio Reactor plant was installed to ensure high quality effluent for permanent works.
- A grease removal system was incorporated into the Inlet Works to deal with the discharge from the potato crisp factory and other trade discharge.
- The sludge dewatering system utilised drum thickeners
- The Population equivalent was 19,300.
- The plant final effluent was: BoD 15g/l,  $\text{NH}_3$  3mg/l, Total Nitrogen 15mg/l and P 1mg/l.