

Energy Efficient Treatment at Lawrencetown WWTW

Harnessing natural wastewater treatment options provides NI Water with a low energy solution at Lawrencetown WWTW.



McGill Distributor and Reed Bed at Lawrencetown WWTW

Works

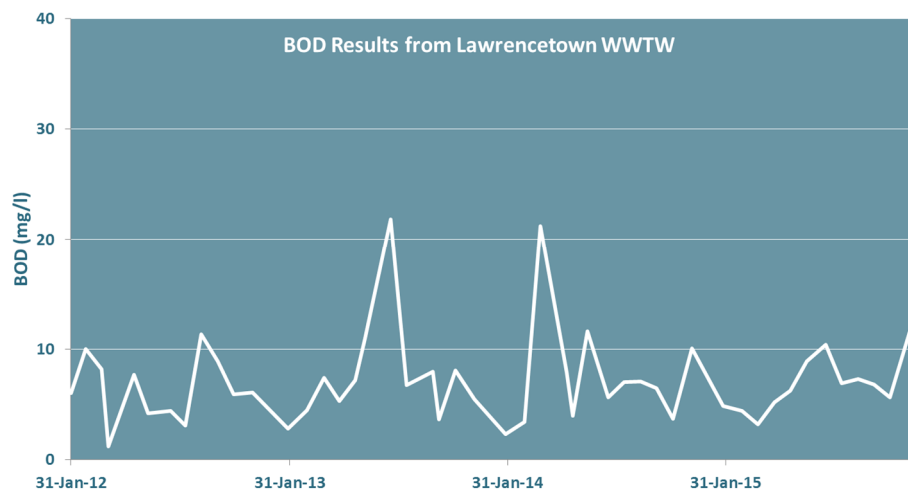
The Lawrencetown WWTW employs a conventional process with downstream Reed bed polishing to provide treatment to a 814PE load. Operating to a Registered Discharge Standard of 40:60 (BOD; SS), secondary treatment is provided by two 12m diameter stone media trickling filters.

Impact

In harnessing the natural treatment processes of the conventional trickling filter with downstream polishing reed beds, secondary and tertiary treatment is provided at Lawrencetown without energy requirement.

Results

The alliance of zero energy treatment with the lowest maintenance requirements of the McGill Distributor ensures the lowest OPEX costs for NIW at the Lawrencetown WWTW; all without compromise on effluent quality.



Lawrencetown WWTW BOD results 2012 through 2015¹

¹ Data Sourced from Northern Ireland Environment Agency