

Asset Sweating at Lower Ballinderry WWTW

A two stage trickling filter process helps maximise the return on assets at the Ballinderry WWTW.



Two stage trickling filter process at Ballinderry WWTW

Works

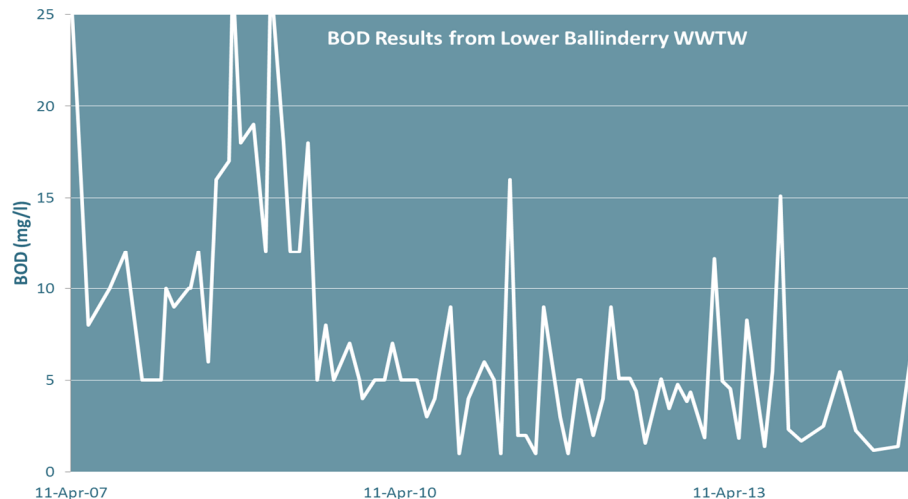
Employing a conventional process supported by upstream roughing filter, the Lower Ballinderry WWTW treats a 1097PE load to a 25:40:10 (BOD; SS; NH₄N) Registered Discharge Standard.

Impact

In seeking to improve performance at the Lower Ballinderry WWTW, NI Water championed a strategy of asset retention and optimisation. This initiated with installation of the McGill Distributor and has continued, most recently, in the addition of a roughing filter and repurposing of existing assets to accommodate the new two stage trickling filter process.

Results

Through inventive asset optimisation, the Lower Ballinderry WWTW has shown over 50% improvement in average BOD results without need for extensive capital investment.



Lower Ballinderry WWTW BOD results (mg/l) 2010 through 2015¹

¹ Data Sourced from Northern Ireland Environment Agency