

## Achieving Compliance at Roughfort WWTW

Installation of the McGill Distributor brings the Roughfort WWTW into compliance.



Roughfort WWTW

### Works

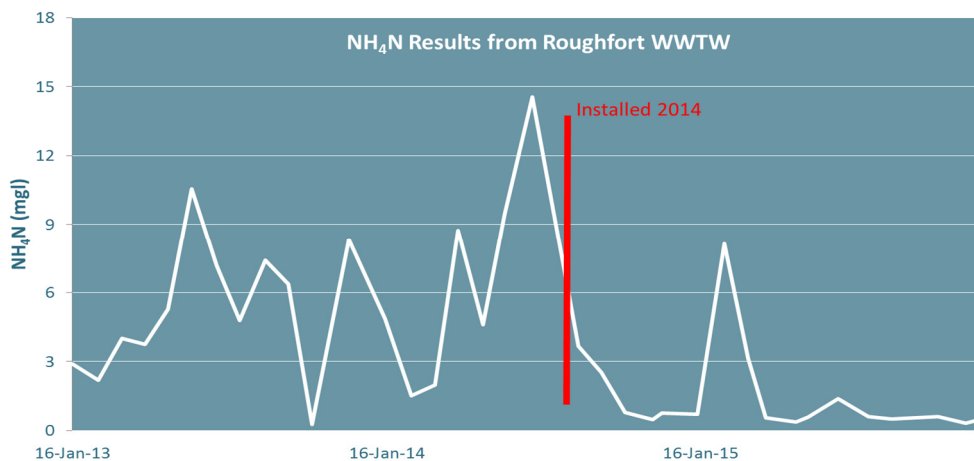
10m and 14m diameter stone media filter beds provide secondary treatment to a 545PE load at Roughfort WWTW. In 2014, the works failed against a Registered Discharge Standard of 40:60:12.5 (BOD; SS; NH<sub>4</sub>N). In response NI Water commissioned two McGill Distributors to be installed.

### Impact

Two changes were immediate; firstly, the variable flushing intensities enabled by the McGill distributor started to increase filter bed activation and utilisation, secondly, the effectively blockage free operation of the McGill Distributor released the operator to spend valuable additional time supporting effective operation of the primary settlement and humus tanks.

### Results

Since installation of the McGill Distributor the Roughfort WWTW has recovered strongly, showing a 75% reduction in average NH<sub>4</sub>N results; providing the process confidence for NI Water to 'Fix and Forget' at Roughfort WWTW.



Roughfort WWTW NH<sub>4</sub>N compliance results 2013 through 2015<sup>1</sup>

<sup>1</sup> Data Sourced from Northern Ireland Environment Agency