

**Technical Inspection of**

**Ballygrant WTW**

**Date of Inspection**

**Date 18/02/2015**

**DWQR Staff Present**

Moira Malcolm, Sue Petch, Matt Bower

**Scottish Water Staff Present (& Titles)**

Ian ogilvie, Martin Dunne, Pamela Hamilton,

**Summary of Inspection**

Ballygrant is a small treatment works serving North Eastern Islay. Water quality produced is excellent. The process consists of a nanofiltration membrane, which is a robust process for the type of raw water encountered. The process is operating well and the plant is well managed. Disinfection does not meet current best practice, although risk is minimal as the membrane process should effectively remove micro-organisms. The works is clean and tidy and staffing is adequate. A number of issues were raised around instrumentation, including calibrations. A number of issues at the Clear Water tank also require attention.

**Observations**

*Issue*

*Intervention*

Examine the adequacy of disinfection process, including CT and disinfection pH.

Ensure instrument calibrations, including readings, are recorded

Obtain new vials for Hach Chlorine monitor

Calibrate bench turbidity monitor in line with manufacturer guidance.

Review EAL sheet to ensure that it sets appropriate targets and accurately represents monitoring present on site.

Consider requirement for treated water (pre-CWT) turbidity monitor

Resolve issues with final turbidity monitor, including SCADA signals and location of instrument

Ensure established growth (large stumps) on CWT are removed/ resolved

Seal duct hole in hatch at CWT