

Gigha WTW, Argyll

24 November 2009

Inspection Report

Overall Summary

This treatment works supplies a small island community. The treatment process uses modern membrane technology and is highly effective, although some aspects of the membrane performance are being investigated. The works is very well run and general housekeeping is very good. Operators have an exceptionally good understanding of the treatment process and regularly optimise the process. A number of examples of best practice were observed such as continuous review of chlorine concentrations and trending of water quality data. The findings noted that require corrective actions are generally minor in nature and relate to housekeeping and procedural issues.

Number of Findings: 9

Score (out of 6)

Quality of Water Produced

4 Good

Water quality is good, although formation of disinfection byproducts in the distribution system could be more tightly controlled.

Robustness of Treatment Asset

4 Good

Membrane treatment is highly robust and appropriate to the raw water quality encountered. Although water quality is not being significantly affected, there is evidence that certain aspects of membrane performance are not all they could be.

Operational Practices

5 Very good

Staff are carrying out routine tasks diligently and are highly effective at managing the treatment process - optimising where appropriate. Operational understanding of the membrane process is very good, and this has resulted in a number of excellent processes and procedures at the treatment works. Use of data and response to changes in raw water quality is very good indeed.

Maintenance of Asset

4 Good

The site is very well maintained, although a corporate approach to membrane maintenance and replacement would be preferable. Site instrumentation is well looked after, although calibration data should be available to site staff.

Safeguards and Procedures

4 Good

Site processes and procedures are good, and appropriate monitoring is in place.

Water Safety Plan Development and Implementation

4 Good

The water safety plan for the site captures a number of appropriate risks, and good progress has been made with interventions. It was not clear however how some of the risks identified apply to this site.