

Gorthleck WTW, Inverness

26 January 2011

DWQR Staff Present

Matt Bower, Bill Byers

Scottish Water Staff Present (& Titles)

Paul Morley, Gordon MacDonald; Nathan George; Diane Burgess; David McLeod; Jim Briggs; Iain Ogilvie

Summary of Inspection

Overall Summary

Gorthleck WTW is a small works serving settlements on the South shore of Loch Ness. Its treatment process is robust and treats water to a high standard, although some maintenance needs were evident. Operational staff were highly diligent and knowledgeable about their works.

DWQR identified 9 findings during the inspection. Scottish Water has completed corrective actions to address these.

Number of Findings: 9

Score (out of 6)

Quality of Water Produced

4 Good

This treatment works produces water of excellent quality due to the robust membrane process present on site. Replacement of the membranes due this year should ensure this continues to be the case.

Robustness of Treatment Asset

3 Adequate

The site and process it contains are both robust, although of an age where adequate maintenance is important. Staff are aware that the treatment process does not remove naturally occurring iron and manganese, and are taking steps to ensure this is reflected in operational practices and site maintenance.

Operational Practices

5 Very good

Staff are clearly dedicated and have an excellent understanding of the treatment process and potential risks to water quality. The site was tidy and well run and the operator had taken ownership of the management of the treatment process, documenting site specific procedures in a clear and well thought out manner. Some attention to ensuring all scheduled water quality checks are undertaken would be beneficial.

Maintenance of Asset

4 Good

Core maintenance tasks are being undertaken, and additional operational maintenance has been identified following the recent incident.

Safeguards and Procedures

3 Adequate

The site has minimal water quality monitoring, partly on the basis that the membrane treatment process is mainly unaffected by changes in raw water quality. Telemetry provision seems adequate and alarms have recently been reviewed. Standard operational procedures were available at the site.

Water Safety Plan Development and Implementation

3 Adequate

The treatment element of the Water Safety Plan has recently been reviewed - many dates have been put back to 31/12/11. Some good progress has been made to tackle certain risks, and this momentum needs to be maintained.