

# Turriff WTW, Aberdeenshire

27 April 2012

**DWQR Staff Present**

Matt Bower, Sue Petch, Bill Byers

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

Jim Young (Senior Op), Craig Christie, Derek Ogilvie, Finlay Donaldson, Jackie Foster, Paul Hampton (part)

### Summary of Inspection

#### Overall Summary

Turriff is a medium sized water treatment works supplying the North Eastern areas of Aberdeenshire. The works is primarily supplied by abstraction of water from the River Deveron but it is also augmented by the Delgaty Borehole. The intakes were not visited in this audit but the raw water storage reservoir at Woodside and the works itself, are generally well maintained and staff have a good awareness of the operational requirements of the works. The borehole supply has generally fed directly to the filtered water channel in the works but with a significant history of *Cryptosporidium* events and no monitoring facility on the supply, consideration should be given to delivering this supply into the raw water storage reservoir on a permanent basis.

**Number of Findings: 10**

#### Score (out of 6)

#### Quality of Water Produced

**4**

**Good**

Turriff produces a good quality water although it has experienced a number of non compliance events in the past year. During this audit the appearance of the water through the various stages was good and monitoring data gave no cause for concern.

#### Robustness of Treatment Asset

**4**

**Good**

The treatment processes are appropriate to the raw water from the reservoir and although some aspects of the works are in need of attention, they are currently operating well.

#### Operational Practices

**4**

**Good**

Whilst there was excellent demonstration of operator competency in some areas, DWQR was unable to gain confidence in discussion with key personnel that there was thorough understanding of processes and systems across the team. The necessary checks and tests are being carried out at this works and there is a very good level of attention to record keeping of instrument calibration and maintenance.

#### Maintenance of Asset

**4**

**Good**

Key maintenance tasks appear to be being undertaken and specialist maintenance contracts are in place for critical plant. However there is a confusion of old and current labelling of service visits to various pieces of plant and equipment which needs to be tidied and brought up to date.

#### Safeguards and Procedures

**3**

**Adequate**

Treatment processes had appropriate alarms in place although some monitors were awaiting repair/replacement. Procedures have been shown to provide effective response to problems.

#### Water Safety Plan Development and Implementation

**5**

**Very good**

The WSP recognises an extensive range of risks as would be expected in this type of catchment and these feed through to the improvement plan. Scottish Water has reviewed the various aspects of the treatment process at Turriff and developed an Action Plan which recognises a number of the observations made in this audit. This needs to feed into the review of the WSP, which is imminent.