

Technical Inspection of Scottish Water Distribution System

Mannofield Regulation Zone, East Region

01 April 2015

DWQR Staff Present

Bill Byers

Scottish Water Staff Present (& Titles)

Lewis Sutherland, Eric Ross, Colin Napier, Stevie Wilson, David McLeod, Paul Hastie, Jackie Foster

Summary of Inspection

Overall Summary

An audit on aspects of the operation and maintenance of Mannofield distribution system in the Ellon and Dyce areas, taking in Ellon Low Level and Aberdeen Overton Service Reservoirs and Boundary Valve Management.

Number of Findings: 4

Score (out of 6)

Quality of Water

3

Adequate

The Service Reservoirs had experienced occasional failures of microbiological samples during 2013 and 2014 which raised some concern over asset integrity. The last failure at Ellon was October 2014 and at Overton, July 2013.

Asset Robustness

3

Adequate

The sites audited were generally in good order with the ground well maintained and tidy. Security aspects were appropriate with padlocked access to the compounds and to cabinets and covers within the site. Contractor activity at Overton however meant one side of the site was secured through temporary Herras fencing but the remaining chain link fencing on the other 3 sides requires some attention. Access covers inspected had a good seal around lids. Potential point of ingress was identified at Overton at the cable entry for telemetry which requires to be sealed.

Operational Practices

3

Adequate

Good evidence of proactive review and management of distribution chlorine levels at SRs. Evidence of DOMS requirements for work IAFs being met but some concerns over the level of information being provided from site on work activity and work completion.

Management of Risk

3

Adequate

SR Telemetry active at both sites. Key valves identified by paint and valve markers. Management of Boundary valve operation evidenced by current Boundary Valve report. Inspection of boundary valves in Dyce found 1 WSZ valve to be appropriately foamed and tagged but 1 DMA valve in Ellon had no indicators within the chamber.

Recording Information

5

Very good

Information of pipe layout, valve location and status is maintained in the field GIS system accessible to any NSO required to attend the SRs or network.
Good level of detail in the SR site diary at Overton.

Water Safety Plan Development

Water Safety Plan Implementation

3

Adequate

The WSP had recently been updated to reflect timescales offered by the new investment period. Trunk main and distribution risks very much to the fore in business planning for mains diversions required for the new Aberdeen bypass. There are a significant number of water mains affected ranging in size from the large diameter supply mains from treatment works into the city, to smaller distribution mains and services with a high risk of utility strikes during construction works. This is a long term project with potential for catastrophic disruption to supplies and these specific risks and measures should be reflected in the WSP for the duration.