

Perth Muirhall Service Reservoir, East Region

01-Mar-16

DWQR Staff Present

Bill Byers

Scottish Water Staff Present

Tom Purdie, Ewan Milne, Colin Napier, David Hill

Summary of Inspection

Overall Summary

Muirhall Service Reservoir is in good condition with only a minor concern from this audit relating to drainage of ponded rainwater off the gravel roof. The tank provides a good volume of storage for consumers in the surrounding area.

Number of Findings: 2

Quality of Water

The water quality is generally good with only one failing microbiological sample in 2015. Flows through the tank are managed to achieve a consistent water quality and chlorine level.

Asset Robustness

This service reservoir is constructed of concrete which is in good condition all round. Evidence from cleaning reports show the internal condition to be good. There is however evidence of ponding of rainwater on the tank roof and the drainage should be investigated and the problem rectified to avoid any weather related deterioration in the integrity of the tank roof. There is a good stockproof fence around the site and good access for inspection and maintenance vehicles.

Operational Practices

The volume of water stored in the tank is managed well within its capacity to achieve a balance of turnover and security of supply for the supply zone. The tank was last cleaned in 2014 by SW's specialist contractor. The site is well maintained.

Management of Risk

Duty, assist and standby pumps operate at variable speed to achieve a consistent level of flow into the tank to provide stability to the treatment process and balance to the consumer demand in the area. Site telemetry is reliable and provides effective notification of water levels and other alarms.

Recording Information

There is good evidence of record of attendance and of chlorine levels at the site being kept.

Water Safety Plan

The Water Safety Plan details appropriate risks for Service Reservoirs within the supply system. Some minor amendments would be helpful in clarifying current status of process elements.