Drinking Water Quality Regulator	Technical Inspection of Scottish Water Distribution System
Eela Regulation Zone, East Region	
	27/07/2021
DWOR Staff Present	Bill Byers
Scottish Water Staff Present	Kenneth Johnston, Jon Moses & David Hill. (Dave Marwick via MS Teams 23/7/21)
	Summary of Inspection
Overall Summary	
An audit on aspects of the operation an supplied. Examination of sample records distribution system and at consumer tap in some areas. The Eela distribution sys unlined iron. In some areas of the Aith measures were being taken to improve film on the water surface that should be has the potential to present periodic tas recognised within the safety plan but fu	d maintenance of the Eela water supply distribution system with a focus on Aith service reservoir and the area is show there to be very few failures of water quality standards within the regulatory samples taken in the is but whilst consumer contacts are low in number, there are instances of discoloured water being experienced stem comprises mostly of non metallic pipe materials with approximately only 2% of the sytem made up of supply zone, small diameter AC water mains are unable to be flushed effectively and at the time of audit, this in the Treste/Sandsound area. The integrity of Aith service reservoir appeared good but there was a slight investigated. There is also a clear issue with the circulation of water within the overall storage volume, which te, odour or other water quality issues within the downstream water supply to consumers. This issue is nding is still awaited. The project should be re-examined for acceleration within the investment programme.
	Number of Findings: 2
Quality of Water	
Eela Water Treatment Works produces a indicates that levels of disinfection by-pu storage points. In the 2020 reporting ye low, fourteen of those are in relation to supplied from Aith Service Reservoir (SF issues.	a chloraminated water supply. Records of water samples taken from the distribution system over recent years roducts are consistently low and there have been no failures of microbiological standards at consumer taps or at ear, there were 22 consumer contacts over the entire Eela water supply zone. Whilst the number of contacts is colour which equates to 26 per 10,000, almost double the SW average for discoloured water. Within the area to, there have been 13 contacts from January 2019 to date reporting either taste/odour or discoloured water
Asset Robustness	
The Eela distribution system comprises ongoing programs of work to replace AC manganese or aluminium standards with discoloured water in parts of the Aith W formed of concrete which appears in rea inspected, the fly screen was in good co	mostly of non metallic pipes with approximately only 2% of the sytem made up of unlined iron. There are C pipes and in the Aith distribution system, some 12.5km has been replaced. Evidence shows no failures of iron, n manganese being of very low levels. It is known however through consumer contact that there is an issue of SZ with small diameter AC pipes limiting the ability to effectively flush the water mains. Aith service reservoir is asonable condition with minor hairline cracks. All access points had securely locked covers. Of the access point and a good seal was evident between frame and lid.
Operational Practices	
Aith SR is formed of linked cells from ele that a flood test was passed. The report be significant elements of the storage w inlet chamber showed what appeared to	ements of the former WTW. The Inspection report provided for the last inspection on 11 September 2020 notes as also illustrate that with the balance pipes between cells being at a high level within the cells, there are likely to hich are not turned over giving concern for consistent outlet water quality. Inspection of the water space at the b be a slight froth and film on the surface of the water which needs investigating.
Management of Risk	
Within the Treste/Sandsound area, iron replaced in 2020 to allow improved flush further alleviate flow and water quality i shortcircuiting of flow through Aith store	tees & valves previously found to be tuberculated and causing flow restrictions and discoloration had been ning conditions and water quality. Works were being undertaken at the time of the audit to replace air valves to ssues and subsequently, replacement of scour valve assemblies on the line has also taken place. The age point is acknowledged as an issue within the Safety Plan.
Recording Information	
Information on the water supply distribution information on layout and valve status. The format of tank inspection reports put internal/external condition.	ution system is maintained in the Geofield GIS on field laptops. All NSO's etc. have access to the up to date rovided by the Contractor are much improved, containing a high level of information on internal apparatus and
Water Safety Plan	
The poor circulation within and through volume and these are likely to be drawn consumers. The issue has been recogn examined for acceleration within the inv	the various elements of the SR creates the conditions for aged water to accumulate in pockets of the storage into the distribution system periodically, presenting potential taste, odour or other water quality issues for ised within the safety plan for a considerable period of time but funding is still awaited. The project should be re- estment programme.