



Drinking Water Quality Regulator
for Scotland

Incident Summary

Legbrannock DSR
Disinfection Issue
20th January 2022

DWQR Inspector:
Moira Malcolm

Event No. 12385

Event Category: Significant

On 21st January 2022 a sample was taken at a consumer's tap in Motherwell which contained >2.2mg/l total chlorine. The result was escalated to the Networks Team Leader. The upstream distribution service reservoir (Legbrannock DSR) operates secondary chlorine dosing so it was checked and found to have both chlorine dosing pumps in operation with one dosing drum empty. The pumps were corrected (only one should have been running on minimal dose) and switched off for the weekend. The team leader decided to monitor consumer contacts to determine the effect of the event. One consumer contact was received.

Following a typical chlorine reading on Monday 24th January the pumps were switched back on. A subsequent consumer contact downstream of Legbrannock DSR on 28th January also had compliant chlorine levels.

Scottish Water's review of the incident concluded that the high chlorine in supply was due to operator error. The local operator checks the chlorine dosing at Legbrannock twice weekly, and switched on the second pump in error while completing these checks. During the winter chlorine dosing is maintained at a minimum to prevent air locks and blockages in the dosing lines.

The result of >2.2mg/l total chlorine is the maximum recordable amount on the handheld analyser and it is likely that the actual result was much higher. Scottish Water estimated that 150 litres of chlorous was dosed into the DSR during the incident.

The event has been categorised as significant. Scottish Water has identified eight actions. DWQR made one additional recommendation and will monitor to ensure it is completed prior to signing off the incident



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