Newbiggin

Infiltration Reduction Plan

Last Updated: November 2024

United Utilities

Water for the North West

Executive summary

Despite the Newbiggin (017370051) area having infiltration identified as a contributor of spills at the related overflow, this issue has been addressed without following the usual remedial process (see Figure 1). Given that that spilling in this area will no longer occur, an infiltration reduction plan is not necessary. This will be continuously reviewed.

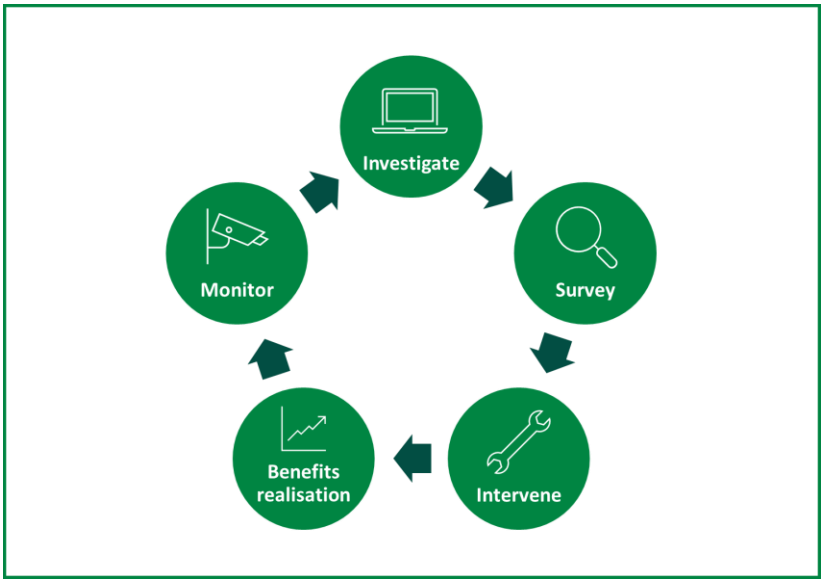

Figure 1: Iterative process to investigate, identify and address groundwater infiltration

Context

Sometimes, water can enter our wastewater pipes that they were not designed to receive. One source of these additional flows can be groundwater infiltration which can occur through pipe defects, leaky joints or issues with manholes. Extra water in the network can cause the sewer capacity to be exceeded, leading to sewer flooding or contributing to storm overflow activations.

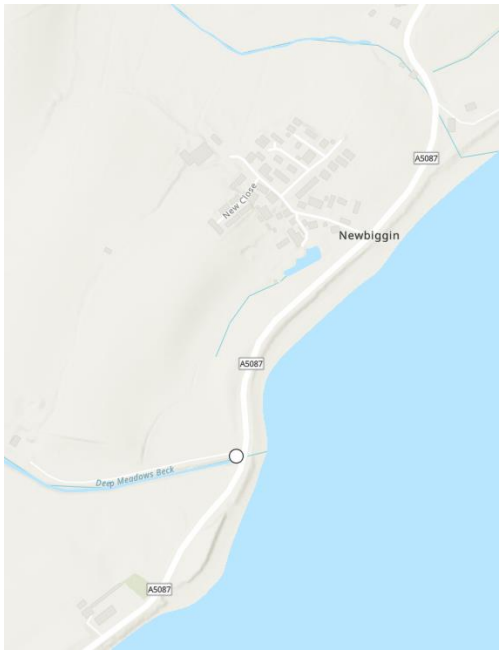

Figure 2: Newbiggin, Overflow Map

As part of our ongoing work to maintain an effective network and achieve Better Rivers for the North West, our Infiltration Reduction Plans demonstrate our efforts to date and next steps to address infiltration and inflows in the catchment leading to spills to environment. This plan covers the Newbiggin drainage area and the associated overflow the Newbiggin Waste Water Treatment Works Storm Overflow (017370051). In 2023, infiltration was identified as a potential leading cause of the storm overflow discharging.

Recently, other work in the area to address spills has resolved the issue of groundwater infiltration contributing to spills at this site. Therefore, further activity to address infiltration has been considered and at this time, there are no works planned to reduce infiltration in the Newbiggin area. This will continuously be reviewed and an infiltration reduction plan will be produced if appropriate.