

**Hulton Lane Ends**

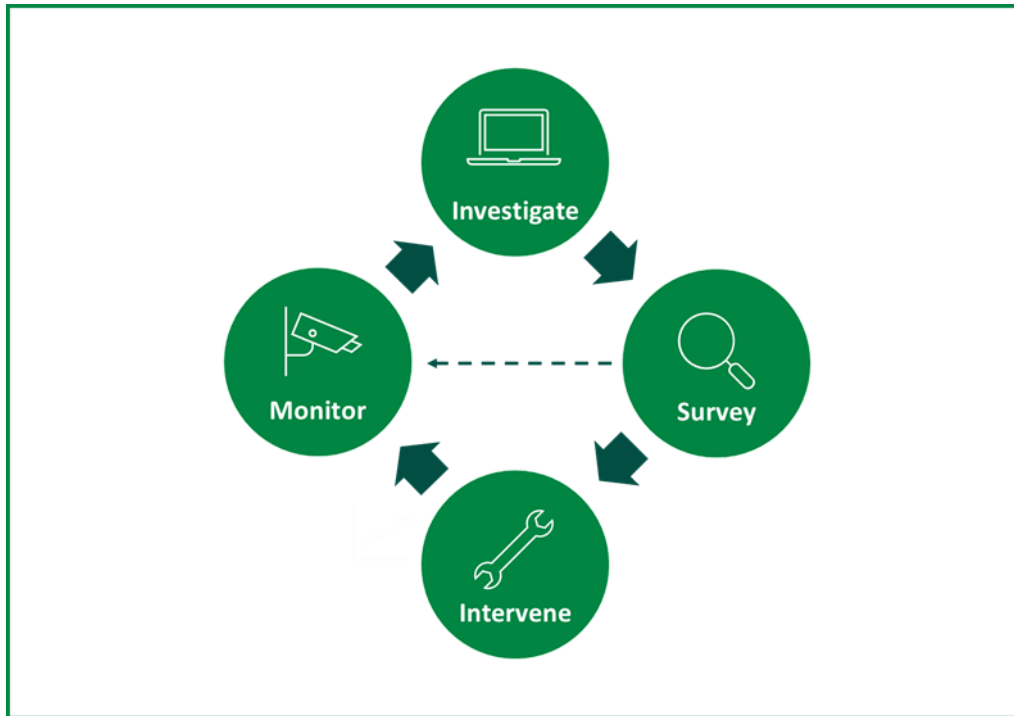
# **Infiltration Reduction Plan**

**Last Updated: January 2026**



## Executive summary

Hulton Lane Ends in Greater Manchester is currently in the monitoring stage (see Figure 1) to address infiltration and reduce spills at the Hulton Lane Ends Wastewater Treatment Works Storm Overflow (016950037SO). An initial desktop assessment concluded that infiltration was unlikely. However, CCTV surveys found that infiltration was present and interventions were completed in Autumn 2025.



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

## Context

Sometimes, water can enter our wastewater pipes for which 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.

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. This plan covers the Hulton Lane Ends drainage area and its associated overflow, Hulton Lane Ends Wastewater Treatment Works Storm Overflow (016950037SO). In 2022, infiltration was identified as a potential leading cause of the storm overflow discharging. The purpose of this plan is to capture the process to investigate, identify and address significant groundwater infiltration.

## Investigate

A desktop study was undertaken using available data to understand the extent of infiltration in the sewer network of the drainage catchment. The following data (where available) was analysed to determine the scale and location of potential infiltration:

- Relevant flow and depth data
- Operational information

- MCERTS Data
- Hydraulic models of the catchment
- River Levels
- Groundwater (borehole) data
- Spill analysis
- Topographical and Sewer maps

The assessment identified points where sewers crossed over a watercourse; further investigation was recommended to check for any infiltration from the watercourse into the sewer network. The assessment also found evidence of rainfall-induced infiltration. CCTV surveys were recommended.

## Survey

In order to confirm any presence of infiltration, 975m of CCTV surveys were completed in Autumn 2024. The CCTV surveys were assessed using Artificial Intelligence to rapidly identify and locate points of infiltration requiring intervention and reviewed by an engineer. Multiple points of infiltration were found, and interventions were recommended as a result.

The network was also checked for inflows; no lateral connections are suspected of receiving flows not bound to receive.

## Intervention

As recommended, interventions were completed in Autumn 2025. This involved lining 253m of the sewer network and sealing a manhole chamber via grout injection.

## Next steps

Hulton Lane Ends is currently in the monitoring stage of identifying and addressing infiltration (see Figure 1). The site will follow the iterative process displayed in Figure 1 to monitor the efficacy of the completed interventions and identify new points of infiltration, should they arise.