

## Project Data Sheet

### PROJECT

**UKWIR Strategic  
Infiltration**

### CLIENT




- Sewerage
- Rivers
- Coastal
- SUDS
- Land Drainage
- Hydraulic Modelling
- Flood Risk Assessments
- Drainage Area Planning
- Asset Management
- Flood Alleviation
- Flooding Investigations
- Feasibility Study
- Drainage Design
- Environmental Aspects
- Inundation Modelling
- Surface Water Management

**Until now there has been no recognised method to make the best economic and sustainable decision with regard to accepting infiltration flows or rehabilitating the sewer network to reduce them. With climate change, growth and urban creep increasing the load on the current sewer networks therefore it is becoming more important to understand the causes of infiltration, and the economic viability of preventing them, against the cost of accepting them. Richard Allitt Associates led a group of Consultants who have developed a tool which can assess the cost benefit of addressing infiltration at a catchment wide level.**

The project has developed a tool which consists of two parts; technical and economic. The technical tool has derived a risk based methodology that can assess the risk infiltration to any pipe within a network. It can also aid identification of potential intervention strategies and identify the volume of infiltration these could remove. The economic tool is a cost based tool which assesses the whole life cost of a number of scenarios to identify whether the better economic option is to remove infiltration or to continue to accept it in the network.

The project has successfully built a tool that aids decision making to create a robust argument on both economic and technical factors. It can be used with a wide range of input data, can be used at full catchment level to identify hot spots and feasibility, but also at detailed sub-catchment level to identify solutions. It is anticipated that the industry will move forward with this tool and it will provide a standardised method across the industry for assessing the risk of infiltration to any pipe in a sewer network.

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