



# GWSEwerFlood

Groundwater Sewer Infiltration Flood Forecasting – the UK's first early warning system for sewer flooding due to groundwater inundation for the water industry.

With continued property development, aging infrastructure and climate change threats from flooding to our sewer network and essential services increase. Groundwater flooding has been the least understood risk – until now.

GWSEwerFlood will help you manage your infrastructure and take action to safeguard against uncontrolled sewer discharge.

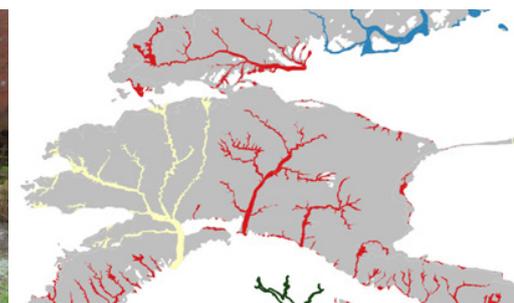
## Features

Combining up to 50 years of climate and borehole data, hydrogeological expertise plus live telemetry feeds, our unique modelling tracks borehole levels, discharge, weather forecasts and maps risk predictions up to 90 days in advance.

Quickly and easily identify vulnerable sewer catchments that require urgent management action to prevent catastrophic disruption of services and breach of Environmental Regulations over an extended period.

Threshold levels can be set to trigger action at selected points in asset networks and link to in-house telemetry feeds.

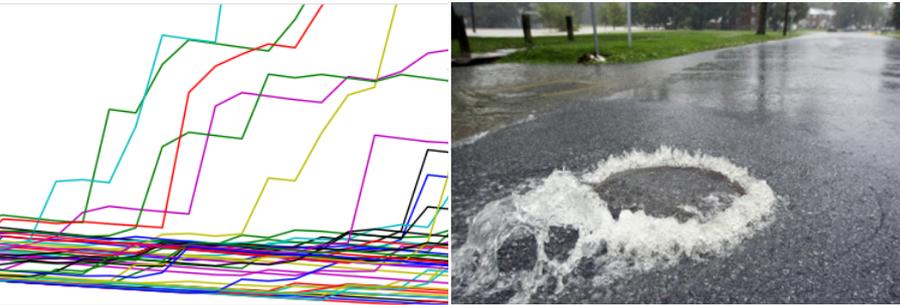
Intuitive mapping, clear colour coding and hydrographs combine to show peak levels and thresholds that could trigger action by asset managers, emergency responders and the Local Authority.



**Get in touch:**  
+44 (0)1743 276 150

info@geosmartinfo.co.uk  
@geosmartinfo  
www.geosmartinfo.co.uk

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## Benefits

- Advanced warning of groundwater flood risks enables smarter resilience planning
- Provides critical answers on when and how long flooding could occur
- Potential to predict discharge volumes and identify flooding hot spots
- Bespoke mapping of critical sewer catchments and reporting places your assets in the context of the likely future risk
- Technical support and expert analysis from in-house hydrogeologists delivers targeted advice for your management response

## Why use GWSEwerFlood?

Between 2015 and 2021, water companies will be investing approximately £19 billion in wastewater services and £3.5 billion on protecting and improving the water environment. There is a commitment to reduce the number of internal sewer flooding incidents by 33% as a result of this investment.

The Environment Agency (EA) requires Water and Sewerage Companies that are aware of sewerage systems in their area which are vulnerable to infiltration, to submit Infiltration Reduction Plans (IRP) to the EA for approval. The Regulator is clear that they will not be accepting long term groundwater infiltration into sewers where there will be a need to pump out into watercourses.

In response, we have developed a new forecasting tool to support better management of sewer infiltration from groundwater and the associated risks of regulatory breach.

To discuss how you can incorporate GWSEwerFlood into your risk management and resilience planning, contact us today.

## About us

We deliver insight on environmental risk and suitability for property development and infrastructure. Our innovative range of desktop reports, data and services, built on a rich heritage of environmental science, enable smarter, more informed decisions.