

River Hamble Management Committee

20 September 2024



from
**Southern
Water** 

The Southern Water logo graphic consists of three stylized, wavy blue lines of varying lengths, positioned to the right of the text.

Agenda

- Southern Water's response to Ofwat's Draft Determination of the 2025-2030 Business Plan
- Storm overflows in the River Hamble catchment
- Our "Clean Rivers and Seas" plan
- Wastewater operations
- Spill reporting
- Q & A



Business Plan 2025 – 2030

Our response to Ofwat's draft determination



Our Business Plan – 2025 to 2030

- In October 2023, we submitted our Business Plan to Ofwat for the period 2025-30
- On 11 July 2024 we received initial feedback from Ofwat, known as the **Draft Determination**
- We have now published our response, ahead of Ofwat's **Final Determination** in December 2024
- Our plan is the company's largest ever: **c.£8 billion** to enhance the health and wellbeing of our communities, protect and improve the environment and help to sustain the local economy.
- More than **25,000 customers** spent over **8,000 hours** telling us what they think



Draft Determination: our response

- After carefully reviewing Ofwat's Draft Determination, we do not believe it would secure the investment needed to deliver the change required
- In our response we've said that to secure the investment required, essential change is needed to its Draft Determination to make our plans affordable, deliverable and financeable
- We've spoken to thousands of customers to inform our proposals and to understand their priorities
- Our revised plan will achieve this and includes additional investment
- These changes will deliver more environmental improvements in a shorter timescale



Hampshire Environmental investment 2025–30



Total proposed
environmental
investment in
Hampshire

**£1.8
billion***

Test and Itchen

£1.2bn

- Nutrient reduction at 9 sites.
- Reduced use of storm overflows – 48% at 11 overflows.
- 118km of river improved.
- reduction in the amount of water we take for supply (190 MI/d).

New Forest

£170m

- Nutrient reduction at 4 sites.
- Reduced use of storm overflows – 36% at 6 overflows.
- 48km of river improved.

East Hampshire

£220m

- Nutrient reduction at 1 site.
- Reduced use of storm overflows – 59% at 47 overflows.
- 8km of river improved.

Otterbourne Water Supply Works

£120m

- Improvements at abstraction points, power resilience on site, treatment process and overall site resilience, reducing the likelihood of supply interruptions for customers.

Testwood Water Supply Works

£111m

- Improved raw water monitoring, power resilience on site, treatment process (taste and odour) and overall site resilience, reducing the likelihood of supply interruptions for customers.

* This is the proposed level of investment set out in our 2025–30 business plan, but is subject to change following Ofwat's Final Determination.

Storm overflows in the River Hamble Catchment

Joff Edevane – Pathfinder Delivery for Lead Wetlands & Harbours

The Clean Rivers & Seas Task Force

The Clean Rivers and Seas Task Force was set up in 2021. Our aim is to **reduce storm overflows** to ensure a healthy environment and a resilient future for water.

The task force is responsible for **delivering pathfinder projects** through an **accelerated programme**.

We've built our [Clean Rivers and Seas \(regional\) plan](#).

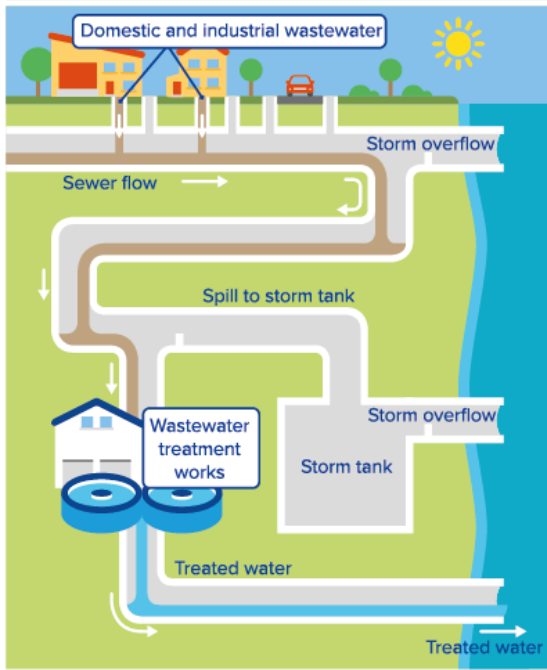


What are storm overflows?

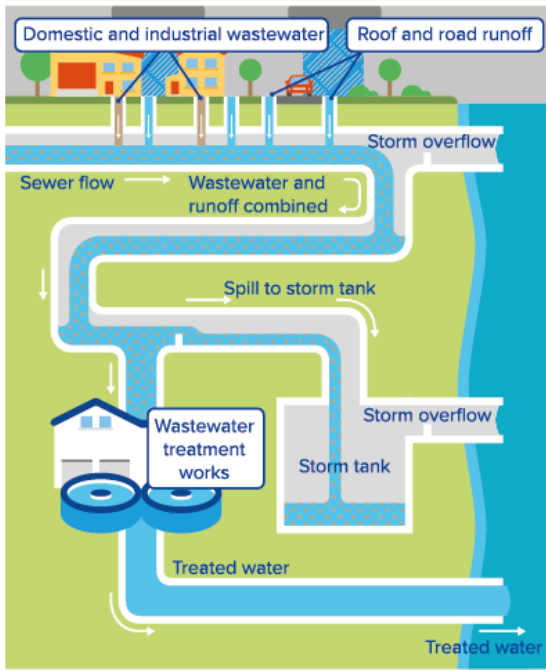


- During heavy rain, local sewer networks can **struggle to cope** with the amount of water entering pipes and storage tanks.
- **When they fill up, we use pressure relief valves built into the network – known as storm overflows – to stop homes and businesses from flooding.**
- These overflows release excess water through outfalls into rivers and the sea.
- Storm overflows are part of the design of the sewers and are regulated by the Environment Agency.
- They're used in areas where the sewers were built to carry both wastewater from homes and businesses, and rainwater from roofs, gardens and roads.

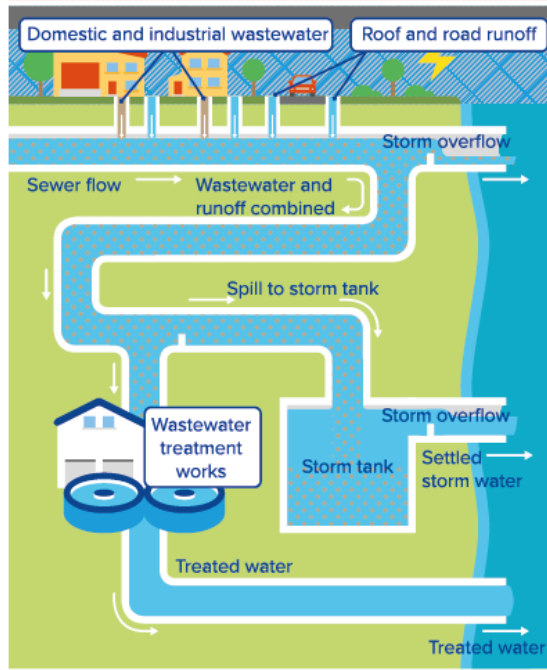
Dry conditions



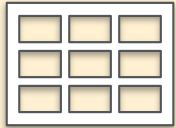
Rainfall



Heavier rainfall



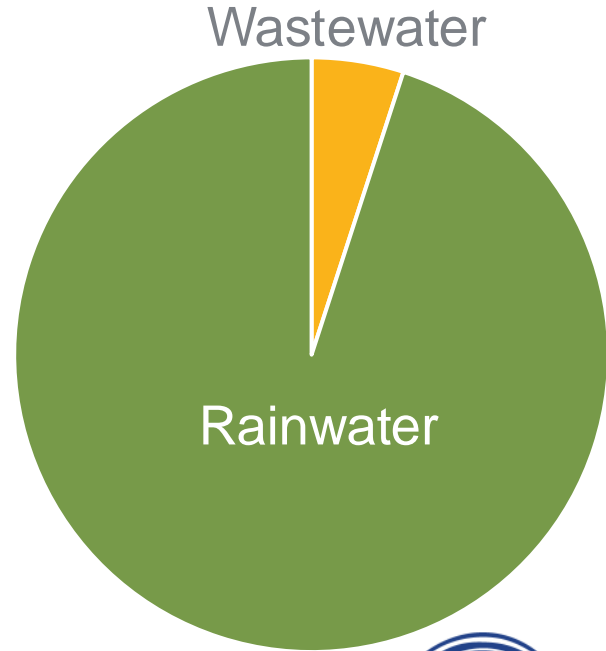
Storm overflows are heavily diluted



As storm overflows typically happen when there is a huge amount of rainwater and groundwater in the system, the water is heavily diluted and usually screened before being released.



Storm overflow releases can be up to 95% rainwater, and only 5% wastewater. This wastewater comes from toilets, showers, sink waste and household appliances like dishwashers and washing machines.



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Why do we need to tackle them?

As well as the obvious environmental and ethical considerations, there are several other factors that have contributed to this need for change:



An increase in extreme weather events



Less permeable land (degreening)

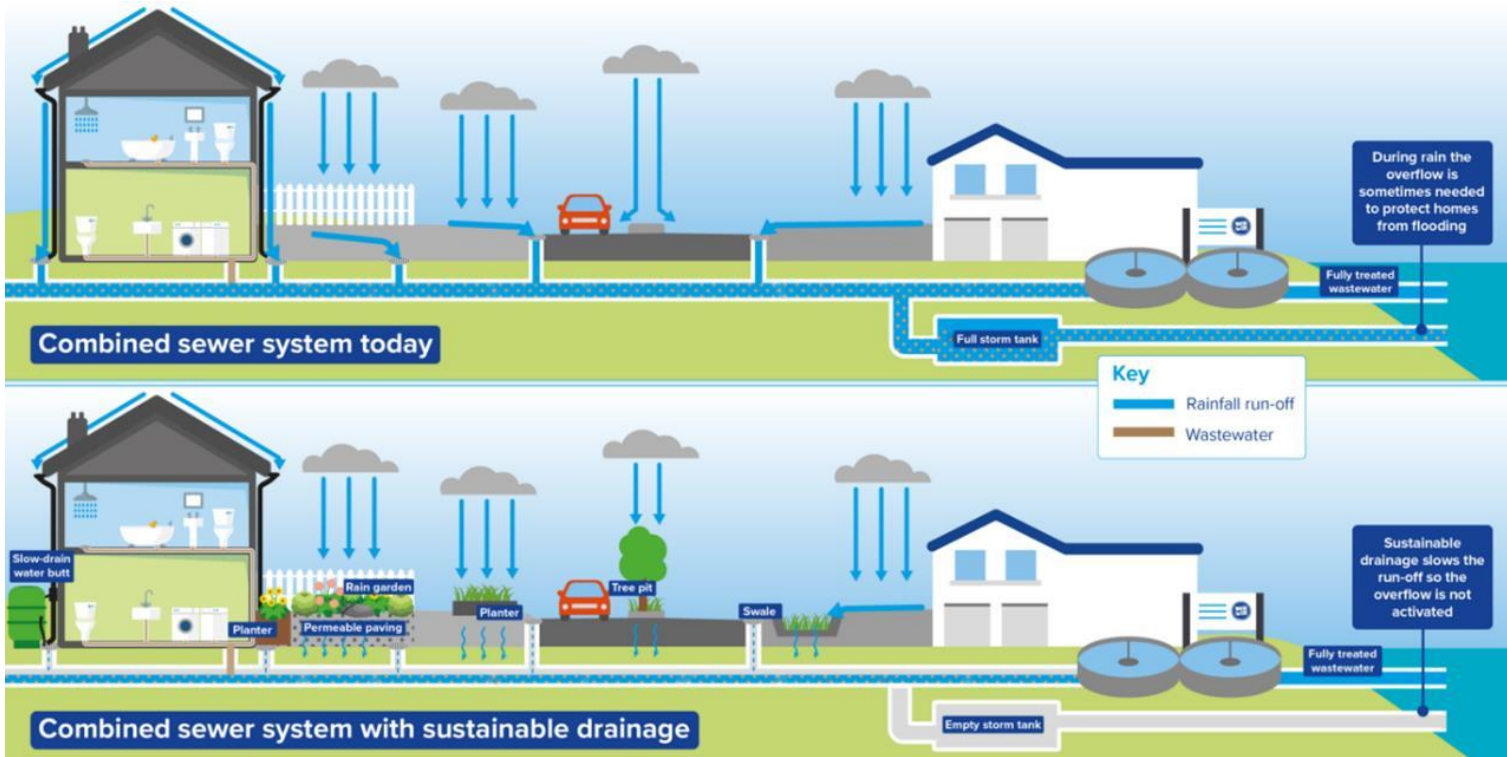


Customer feedback



The release of the government's Storm Overflow Reduction Plan.





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Clean Rivers and Seas Plan

Our interactive storm overflow action plan



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Looking to the future...

From Pathfinder projects to delivering at scale

We've spent the last two years carrying out our **Pathfinder projects**, trialling different solutions to tackle storm overflows on small catchment areas to find the best solution for the wider area.

We're now using the learning from these projects to roll out the most effective solutions. As we move away from trialling and start delivering at scale, we expect to see a rapid and stable reduction in storm overflow releases.



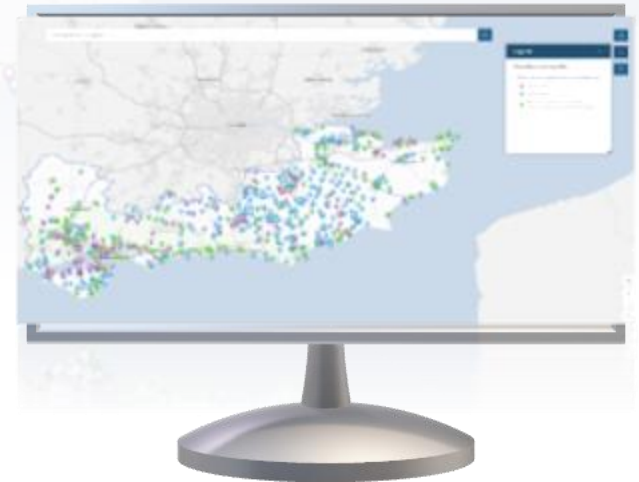
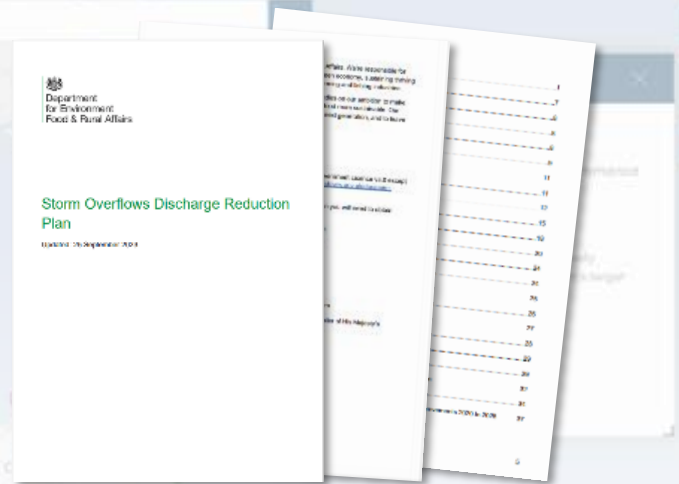
Clean Rivers & Seas Plan

The Clean Rivers and Seas Plan shows **how we intend to reduce storm overflows at scale across our region.**

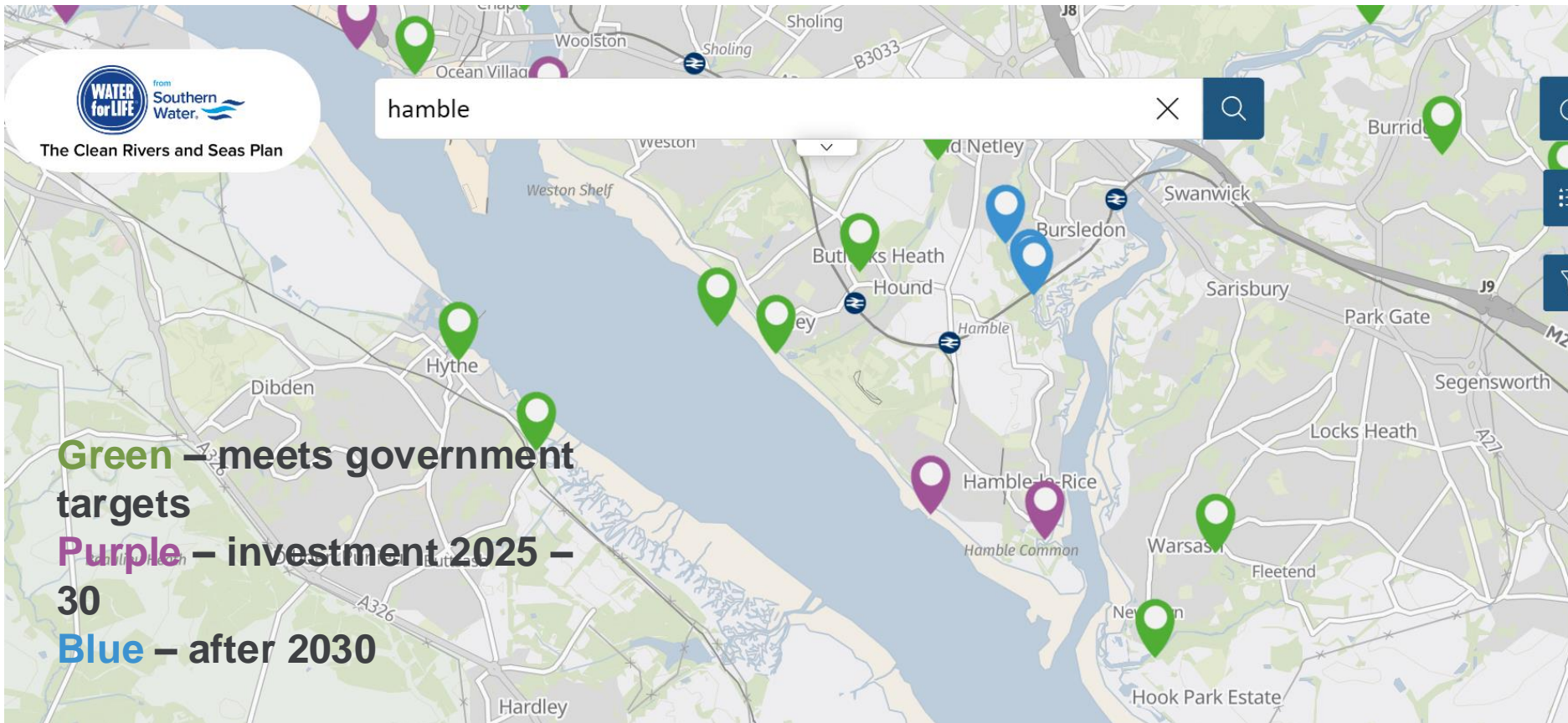
Unlike the rest of the industry, **we're prioritising green solutions over grey**, with **79%** of our interventions being either nature-based or hybrid.

This allows us to **future proof** our approach while ensuring a **healthy environment for years to come.**

[Clean Rivers And Seas Plan \(arcgis.com\)](https://www.arcgis.com)



Hamble Catchment: Combined Sewer Overflows



Hamble Projects

Mostly rainwater driven so storage and SuDS solutions
(Sustainable Urban Drainage)

Purple:
Ensign Park Hamble
School Lane Hamble
Woolston treatment works
Blechynden Terrace
Slowhill Copse treatment works

Blue:
Salterns Lane
Hamble Lane Bursledon
Hungerford Bottom



Rivers and Seas Watch

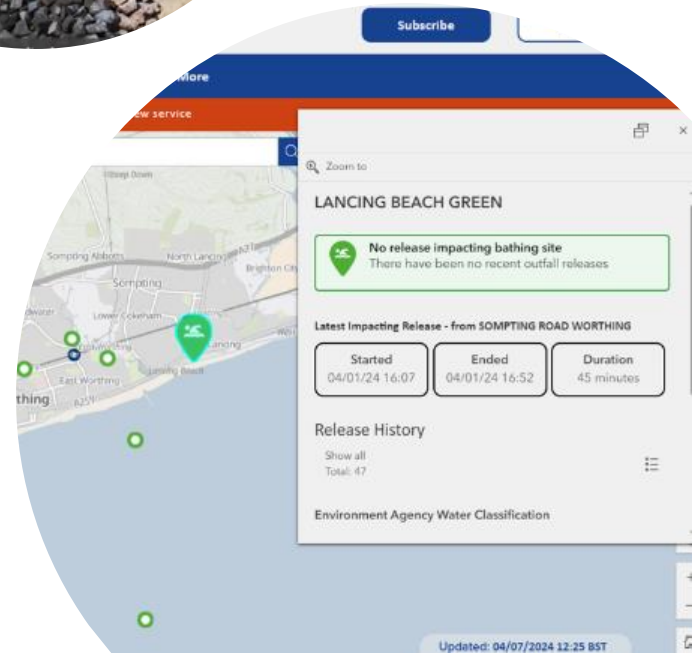


We know the importance of **transparency** when it comes to storm overflows and the environment, so we've made notable improvements to **Beachbuoy** and have released our new service: **Rivers and Seas Watch**.

Rivers and Seas Watch shows **all inland storm overflow outfalls** as well as coastal ones, has better usability, and a host of other useful features and improvements.

These improvements were informed by:

- An independent review of Beachbuoy
- Advice from a host of relevant experts
- Our Beachbuoy working group
- Our beta testing group
- Customer feedback



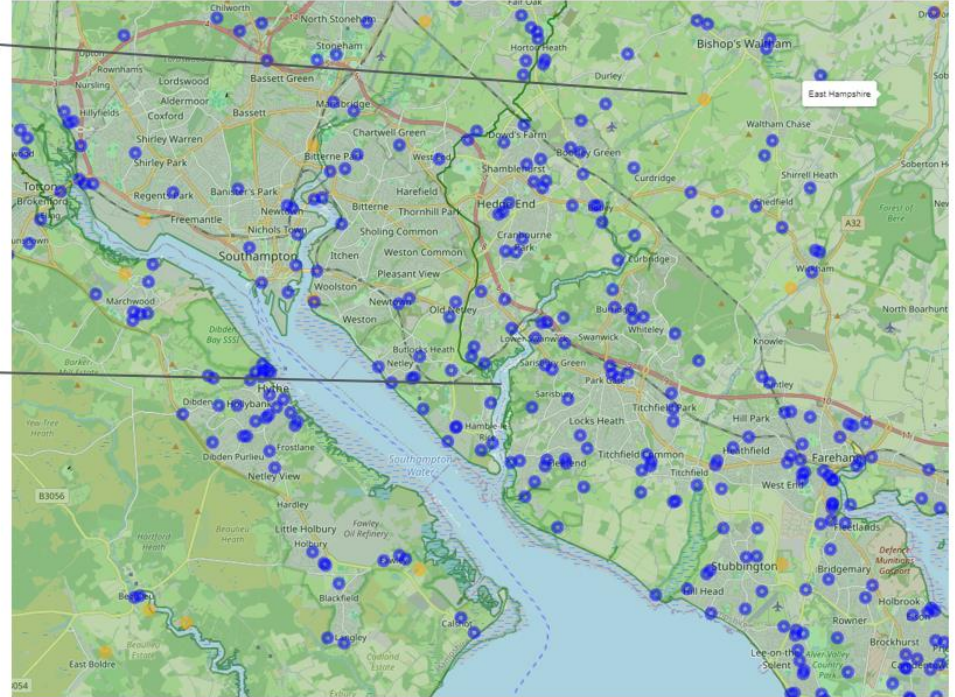
Wastewater operations in the Hamble area

Wastewater Treatment Works (WTW) locations

- Current performance standards at Bishops Waltham WTW will be maintained through the 2025-2030 investment period
- The treatment process and site capacity will be managed in line with projected population increase during the 2030 – 2035 investment period
- Projected investment figure is c. **£40 million**

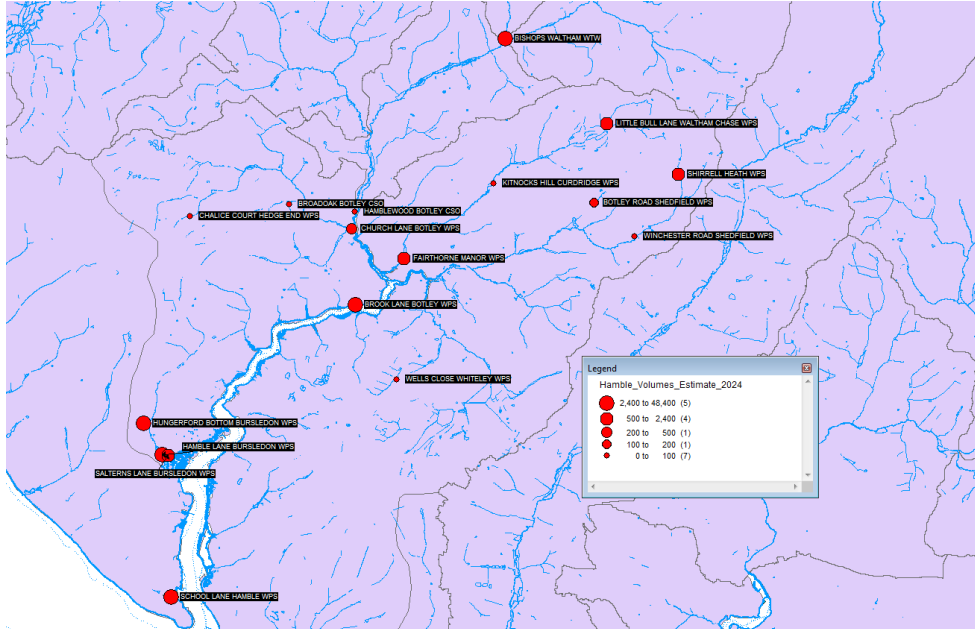
Bishops Waltham WTW

Hamble River



Spill reporting

River Hamble Point Source Contributors 2024



The icons on the map image are an estimated proportional representation of point source untreated wastewater for 2024 (so far) for the River Hamble (upper and lower).

The vast majority of these volumes will be diluted with storm water.

Volume data is an estimate as this is not actually measured. Current legislation requires only the capturing of event durations. This can be misleading as longer spills may be smaller in volume than shorter durations when used to assess environmental impact.

2024 spill data has not yet been subject to assurance and is therefore subject to change prior to the annual submission.

Q & A

