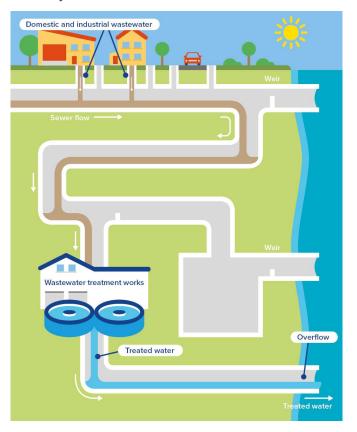
Clean Rivers and Seas Task Force

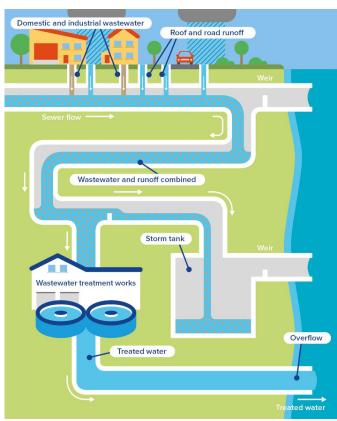


Why CSOs exist?

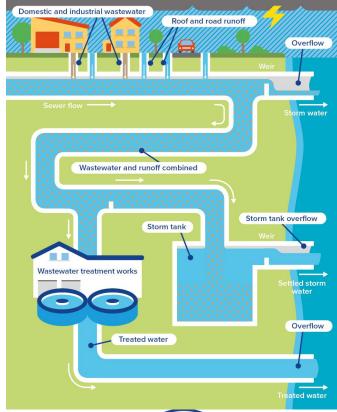
Dry conditions



Heavy Showers



Severe Storm



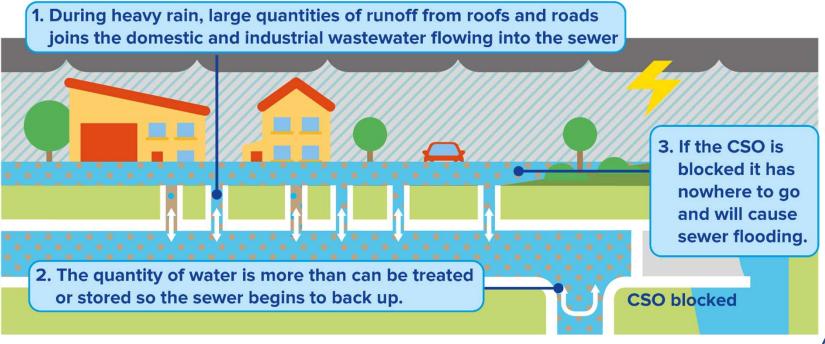
Approximately 1000 CSO's within the Southern Water Region.

What are storm overflows? (southernwater.co.uk)
Latest news, reports, and updates (southernwater.co.uk)



What is a CSO and why do they exist?

CSOs are essentially a pressure relief valve for the system to prevent the devastating impact of sewer flooding. Blocking up CSOs will cause flooding.





How do we tackle them?

There are four main ways to reduce storm overflows and the harm they cause





Source control



Infrastructure optimisation



Stormwater treatment



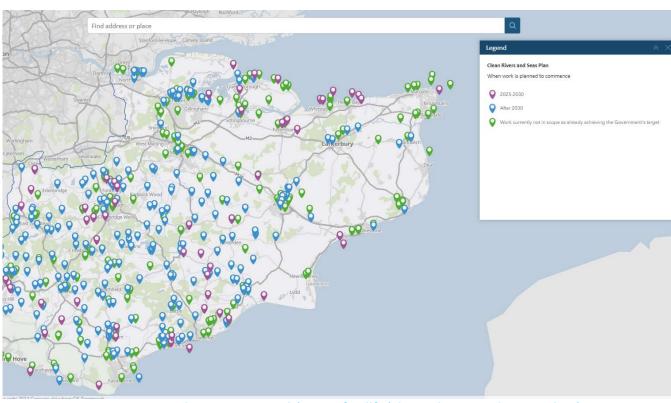
Building bigger infrastructure

Overflows in Kent

Key stats

- **322** Storm Overflows in Kent
- Require work/investment to achieve Govt. targets before 2050
- **33** Overflows working on between 2025-2030

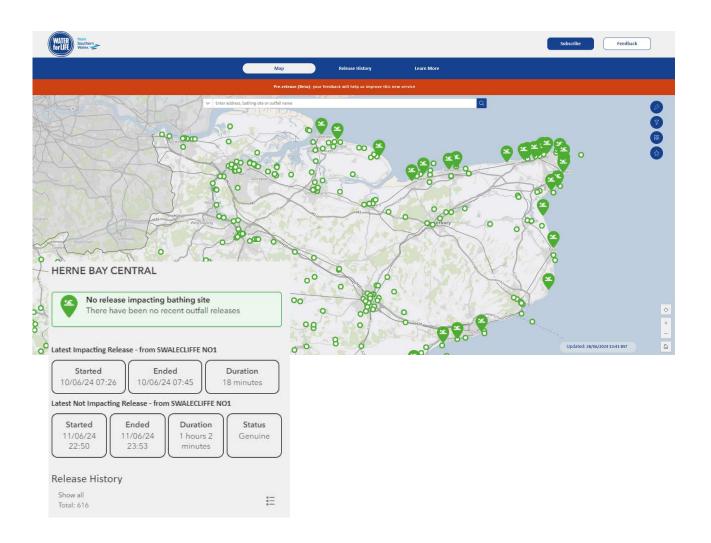
Approximately £207m investment in next five years



southernwater.co.uk/water-for-life/clean-rivers-and-seas-plan/map



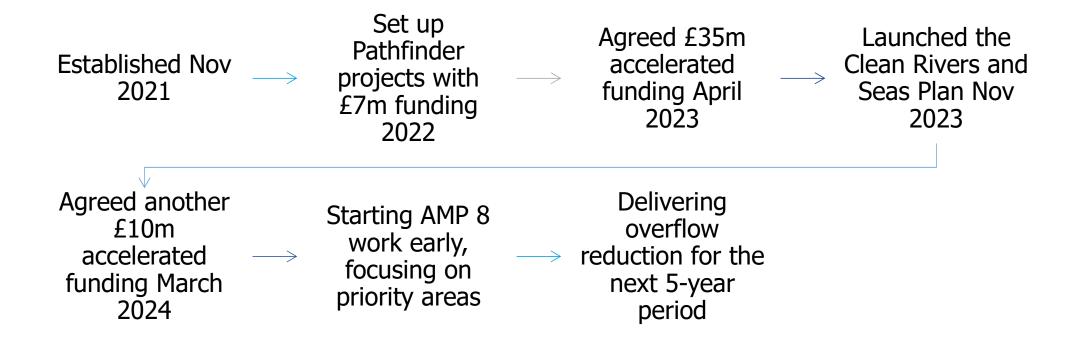
Rivers and Seas Watch



- Launching <u>Rivers and Seas</u>
 <u>Watch</u> imminently (pre-release version live)
- Co-created with customers and stakeholders
- All storm overflows included
- More transparency, better usability, more features



Task Force evolution

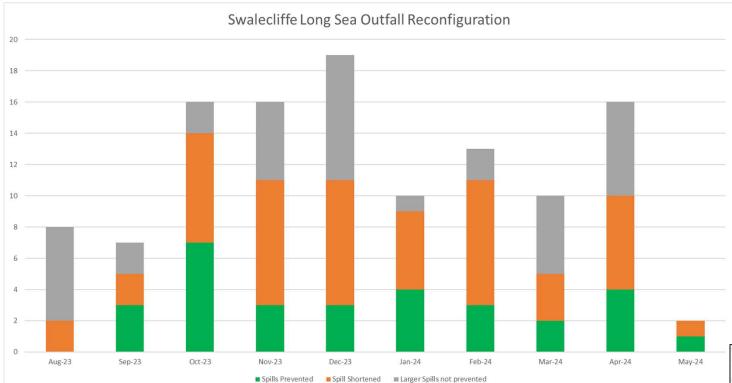


Optimisation

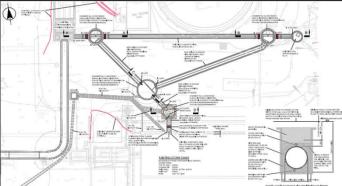
Whitstable, Deal



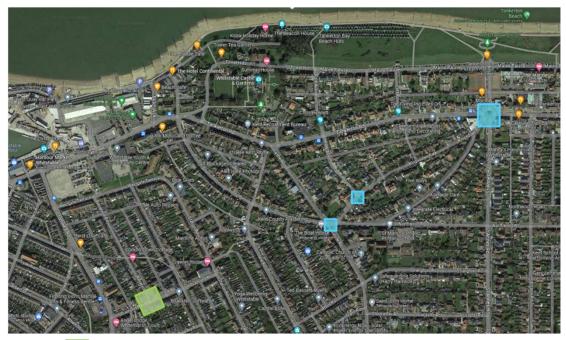
Swalecliffe Long Sea Outfall reconfiguration



- Anticipated 20% average reduction in Long Sea Outfall events.
- In operation since 21st August 2023.
- Since August 2023 we have:
 - captured 30 of the 115 discrete storm events that have occurred (26%)

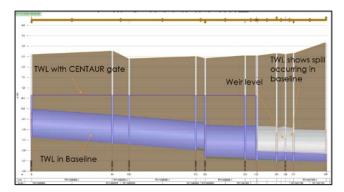


Centaur Gates





- Diamond Road CSO, modelled c60% reduction in spills
- Tankerton Circus CSO, modelled c40% reduction in spills
- We are currently developing a programme of works to make Whitstable the first
 Intelligent Catchment utilising forecast rainfall, real time network information and AI
 to manage the infrastructure in a different efficient way to reduce CSO usage across
 the catchment and 37 pumping stations



Surface Water Connections

Whitstable, Deal. Fairlight



Tankerton Road

- Surface Water Connection directly discharging into Tankerton Circus CSO.
- New connection to bypass CSO and divert flow directly into surface water line.
- Managing at least 0.5ha of impermeable area.
- Works now completed and reduce storms by 30% since completion







SuDs Schemes

Whitstable, Deal, Margate



Tankerton Road

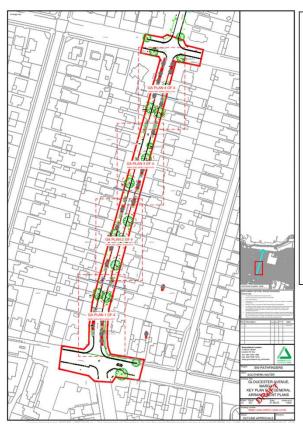
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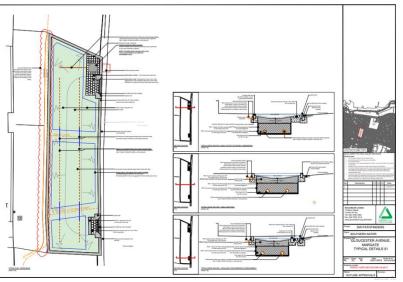






SuDS – Highways Margate







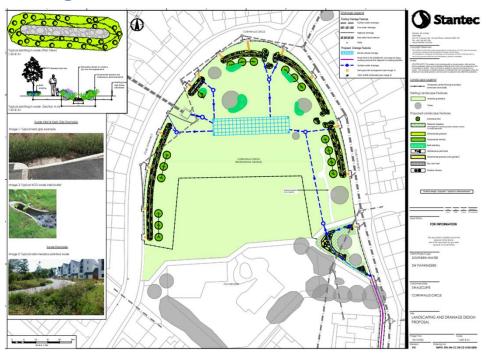


- Gloucester Avenue managing 0.5ha
- Consultation underway with residents
- Works planned to start September 2024





Large SuDS – Green Parks



Cornwallis Circle:

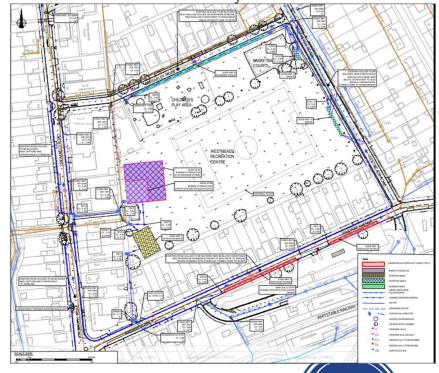
Potential 1.2ha of impermeable area managed across two phases.

After a successful consultation with local residents, we are moving into Ground Investigations and Detailed design.

Westmeads Recreational Ground:

Large scale Green park managing 1.3ha of impermeable area

Canterbury CC driver to bring back football to the grounds and introduce soft landscaping to increase biodiversity



Southern

Water

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SuDS – Highways – Whitstable Library



- Managing large roof runoff and Highways drainage
- Increasing biodiversity in an urbanised area
- KCC review expected Dec 23 then moving to Detailed Design.



Planters and Water butts

Whitstable



Planters and Water Butts









Southern

Slow the Flow – Household and None Household We've installed over 3000 slow the flow water butts across our region.

Targeting the large industrial roof spaces All survey dependant.