Nitrogen and nutrients in the Solent



Overview

- Our wastewater treatment systems already greatly reduce nitrogen and other nutrients in the Solent.
- All of our 11 sites that release into the Solent are currently beating their environmental permits for nutrient removal.
- The vast majority of nutrients in the Solent come from agricultural run-off and other diffuse sources.
- Treated wastewater releases account for about 5% of the overall total.
- Our business plan for the next five years has already been finalised with our regulator Ofwat – however, we are looking at ways of working with partners to further reduce nutrients.
- The big wins will be found elsewhere like, for example, incentivising farms to change land management practices.

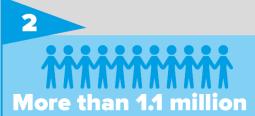


Nitrogen in the Solent

Nitrogen removal by wastewater treatment works discharging into the Solent – key facts



Nitrogen removal treatment is conducted at 11 wastewater treatment works operated by Southern Water, serving all major sewerage catchments releasing into the Solent



people from these catchments are provided with nitrogen removal treatment.

This is more than all the other UK water companies combined

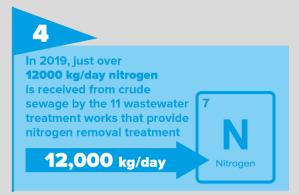


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Since the introduction of the release permit for nitrogen, Southern Water has

over performed

against every nitrogen release permit for **every site in every year**



7
1,900 kg/day
Under 1900 kg/day is released in the final effluent from the 11 wastewater treatment works, 1000 kg/day less than the maximum permitted

Despite the increased nitrogen load due to population growth, nitrogen released from final effluent has decreased considerably and continuously



Nitrogen in the Solent

