



Tackling Aquatic Pollution in the New Forest

Joff Edevane – Environment and Water Quality Lead

Alex Finch – Water Quality Specialist

Agenda



Continuous WQ Monitoring

Storm overflows

Business Plan & Water Industry National Environment programme (WINEP)

Freshwater Habitats Trust – Headstart Project

Continuous Water Quality Monitoring (CWQM)

Environment Act 2021, Section 82



Section 82 of the Environment Act 2021 requires sewerage undertakers to **continuously monitor** the **quality** of the receiving water **upstream** and **downstream** of their assets.

By 2035, SWS will be required to demonstrate that at least 75% of storm overflows discharging into or near 'high priority sites' cause no local adverse ecological impact.

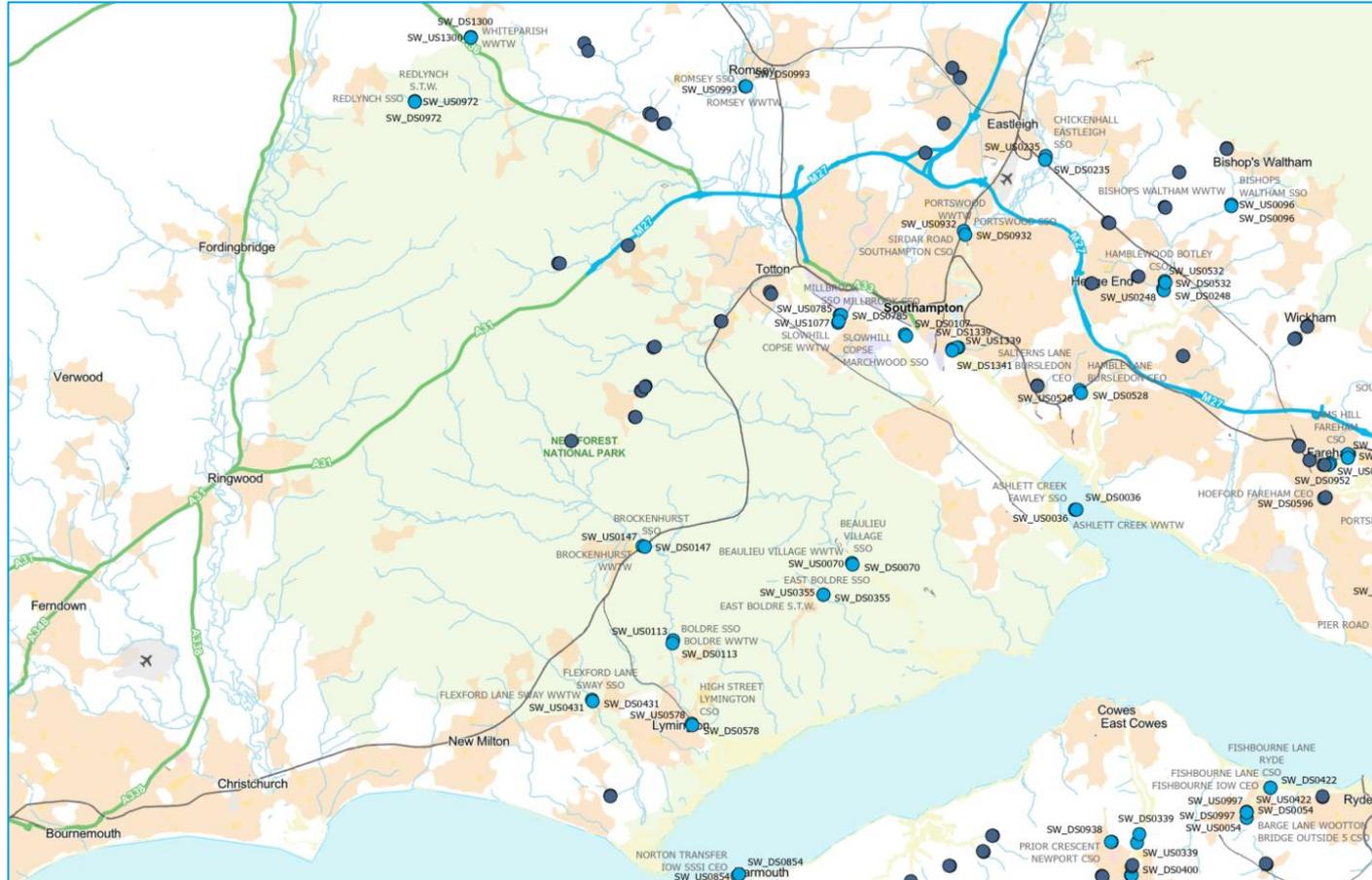
Phased deployment between 2025 & 2035



Minimum Parameters

- Dissolved Oxygen
- Temperature & pH
- Turbidity
- Ammonium & Ammonia

Continuous Water Quality Monitoring (CWQM)



2030

2035

Storm overflows - 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.

Storm overflows - 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

WINEP AMP 7 and AMP8 7 New Forest Catchments



Obligations agreed with EA and NE to improve quality of our discharges or to investigate / monitor what improvements need to be made in the future.

Various investment drivers e.g. SSSIs, Water Framework Directive, Urban Waste Water Treatment Directive (UWWTR).

AMP 7: 7 investigations / monitoring obligations, 14 improvements

AMP 8: 9 investigations / monitoring obligations, 23 improvements

Themes – Phosphate and nutrient reduction, storm overflow reduction

Funded by 5-year business plan

Sowley Pond Investigation – more on this later

New Forest WINEP



AMP7

SSSI_IMP	Phosphorus	31/03/2025	Romsey WWTW
SSSI_INV	Flow Salmon	18/01/2023	Testwood Intake - Nursling
	Investigation to determine the costs and technical feasibility of reaching revised CSMG water quality targets for Sowley Pond SSSI.	30/06/2022	Sowley Pond SSSI.
U_IMP5	Increase flow treated before going to storm discharge	31/03/2025	Brockenhurst WWTW
		31/03/2025	East Grimstead WWTW
		31/03/2025	Flexford Lane Sway WWTW
		31/03/2025	Lyndhurst WWTW
		31/03/2025	Millbrook WWTW
U_IMP6	Increase storm storage capacity	31/03/2025	East Grimstead WWTW
U_INV	UWWTR spill frequency reduction investigation and Cost Benefit appraisal.	14/02/2023	West Wellow WTW SSO
WFD_IMPg	0.3mg/l Phosphorous	20/12/2024	Redlynch WWTW
		20/12/2024	Whiteparish WWTW
	0.4mg/l Phosphorous	20/12/2024	East Boldre WWTW
	0.5mg/l Phosphorous	20/12/2024	Brockenhurst WWTW
	1mg/l Phosphorous	09/12/2024	Boldre WWTW
WFD_INV_CHEM14	Monitoring of chemical removal by installed technologies	29/03/2022	Millbrook WWTW
WFD_INV_CHEM2	Discharges to TRaC waters investigations	29/03/2022	Millbrook WWTW
WFD_MON_CHEM	(blank)	31/03/2025	Millbrook WWTW
WFD_ND	2mg/l Ammonia	31/03/2025	Brockenhurst WWTW

AMP8

EnvAct_IMP2	<10 spills	31/03/2035	Beaulieu village SSO
		31/03/2035	Brockenhurst SSO
		31/03/2035	Redlynch SSO
		31/03/2035	West Wellow SSO
EnvAct_INV4	Investigation to determine the target number of spills from the storm overflow to protect the environment and demonstrate no local adverse ecological impact	30/04/2027	Brockenhurst SSO
		30/04/2027	Flexford Lane Sway SSO
		30/04/2027	Lyndhurst SSO
		30/04/2027	Redlynch SSO
		30/04/2027	West Wellow SSO
EnvAct_MON4	Continuous Water Quality Monitoring	31/03/2025	SWS Discharges (FE & SO)
HD_IMP_NN	Amend permit limit of Total N to 10 mg/l	31/03/2030	Flexford Lane Sway WWTW
		31/03/2030	Lyndhurst WWTW
		31/03/2030	West Wellow WWTW
		31/03/2030	Brockenhurst WWTW
		31/03/2030	East Grimstead WWTW
HD_INV	N reduction	31/03/2030	Romsey WWTW
		30/04/2027	Emer Bog SAC
SSSI_IMP	0.25 mg/l Phosphorous	31/03/2030	Romsey WWTW
		31/03/2035	Boldre WWTW
		31/03/2035	Brockenhurst WWTW
		31/03/2035	Redlynch WWTW
		31/03/2035	West Wellow WWTW
		31/03/2035	Whiteparish WWTW
		31/03/2030	East End WWTW
		31/03/2035	Bank WWTW
		30/04/2027	Hythe to Calshot Marshes SSSI
		30/04/2027	The New Forest SSSI
U_IMP5	Increase flow treated before going to storm discharge	31/03/2025	Redlynch WWTW
		31/03/2025	West Wellow WWTW
		31/03/2026	Milford Road Pennington WWTW
U_IMP6	Increase storm storage capacity	31/03/2025	Redlynch WWTW
WFD_IMPg	0.4 mg/l Phosphorous	22/12/2024	Flexford Lane Sway WWTW
WFD_INV_N-Tal	Investigation to assess treatment options for nitrogen. Full-scale trial, Optimise MLE	30/04/2027	Milford Road Pennington WTW

Freshwater Habitats Trust & Headstart Project



Sowley demonstration catchment

Aim: Demonstrate how targeted headwater management in a protected landscape can extend high-quality freshwater environments into the surrounding area (New Forest National Park) into the wider landscape, using a combination of:

- wastewater treatment upgrades (including complete effluent re-routing),
- agricultural de-intensification,
- pond and wetland creation,
- interception of polluted irrigation water and septic tank upgrades

Funding applied for to Ofwat Innovation Fund – bid currently being evaluated. Other water co's also involved. Mid May for decision



**Thank you and
questions**

