

Yorkshire Water

River Nidd investment

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Contents

- Overview
- Event duration monitoring
- What are we doing to improve?
- The River Nidd
- Bathing water
- AONB and Beyond Nature
- Questions



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Overview of the system

What are Combined Sewer Overflows (CSO)?

Why do we have them and why do they spill?

What are 'AMP's and 'price reviews'?

How are we regulated?

Event Duration Monitoring

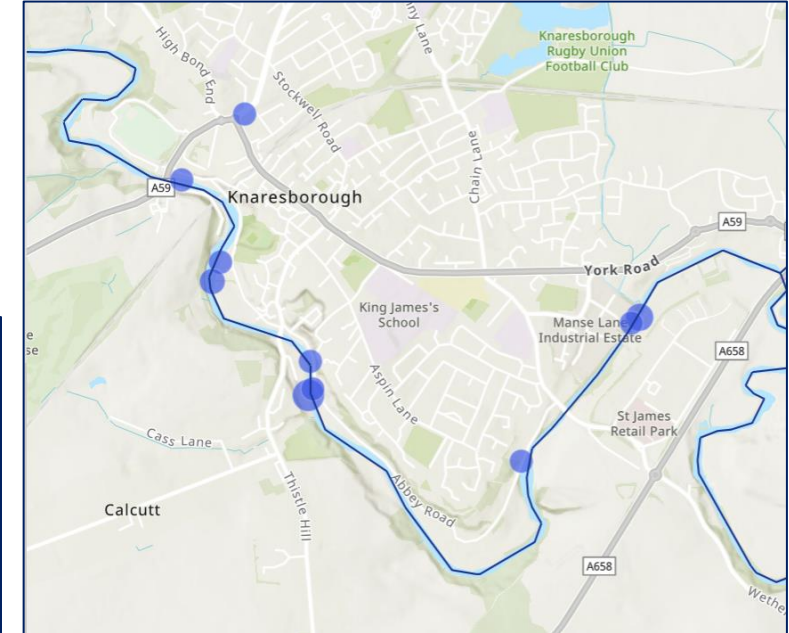
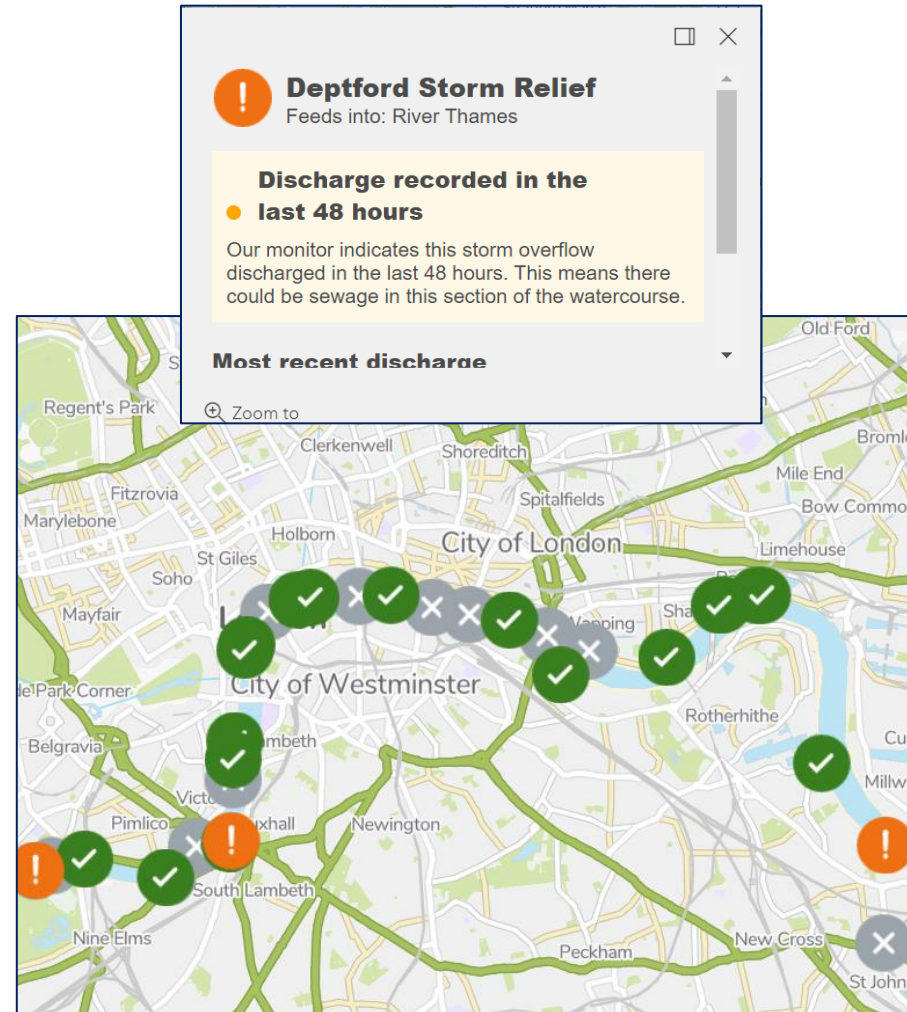
Second highest number of CSOs of any water company

Table 1: 2022 EDM Headlines	2021		2022
	Water Company Totals / Average	Yorkshire Water (YWS)	Yorkshire Water (YWS)
Total no. storm overflows listed in the annual return in 2021		2246	2221
Total no. storm overflows with EDM commissioned		2178	2179
% overflows listed with EDM commissioned	89%	97.0%	98.1%
Total no. storm overflows with spill data	12,393	2087	2118
Average no. spills per storm overflow with spill data in 2021	29.4	33.6	25.6
Average duration (hrs) per monitored spill event in 2021	7.4	5.8	4.3

What are we
doing to
improve?



1. Near-live EDM on all CSOs by early 2024



**What are we
doing to
improve?**



2. £180m in AMP 7 (between now and 2025)

- Investigating all overflows that spill 40 times or more per year
- Investing that £180m in the CSOs where we can have the biggest impact
- Reduce average spills by 20% by 2025 (from our 2021 figures)

What are we
doing to
improve?



3. Storm overflows discharge reduction plan – AMP8 onwards (SODRP)

1. Water companies will only be permitted to discharge from a storm overflow where they can demonstrate there is no local adverse ecological impact. This target must be achieved for at least 75% of storm overflows discharging in or close to **high priority** sites by 2035; for all remaining storm overflows discharging in or close to high priority sites by 2045; and for all remaining storm overflow sites by 2050.
2. Water companies must significantly reduce harmful pathogens from storm overflows discharging into and near designated **bathing waters** by either applying disinfection or reducing the frequency of discharges to meet Environment Agency spill standards by 2035.
3. Storm overflows will not be permitted to discharge above an average of 10 rainfall events per year by 2050.

AMP 7 – The River Nidd

Now to 2025

STW = sewage treatment works

PS = pumping station



Type of scheme	Site	Investment
Phosphorous removal	Killinghall STW	£18.25m
	Shaw Mills STW	
Upgrades to overflow monitoring equipment	Darley STW	TBC
	Pateley Bridge STW	
New inlet flow monitoring equipment	Darley STW	£40,000
	Pateley ridge STW	
Improvements to the pumping station to prevent CSO spills	Summerbridge PS	£275,000
Replacement of 350m of rising main	Hirst Lane	£152,000

AMP 8 – The River Nidd

2025 – 2030

Based on cost–
benefit assessment

£37–39m



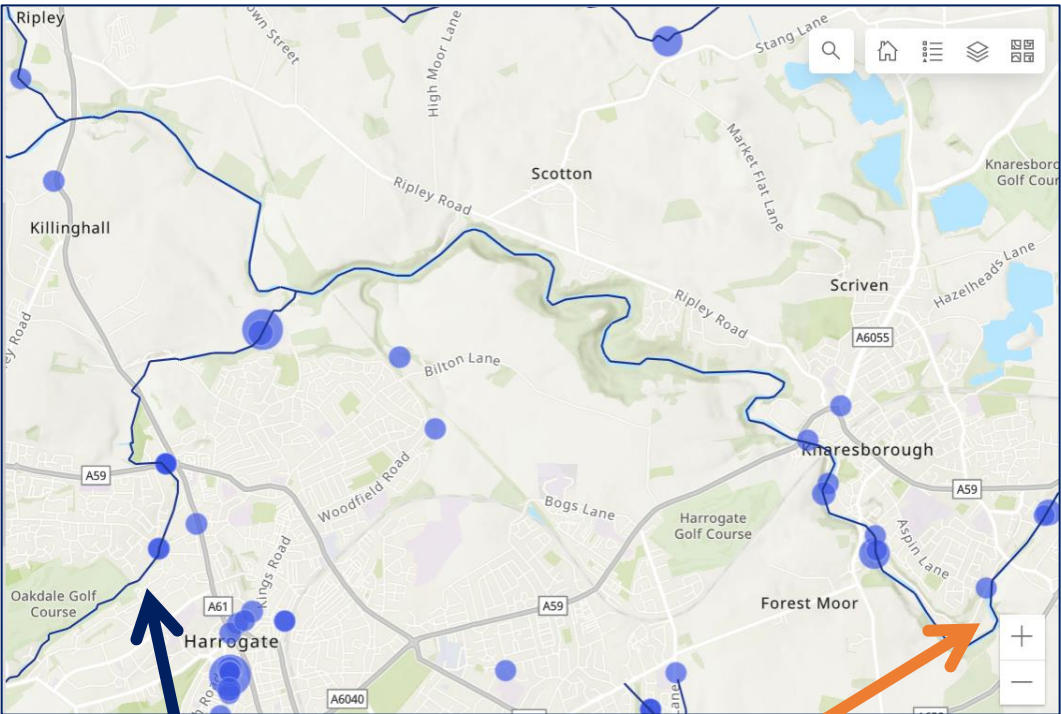
ST MARYS WALK 29/CSO	Harrogate North	Central Harrogate, feeds into Oak Beck into Nidd
ST MARYS WALK 112/CSO	Harrogate North	
HOTEL MAJESTIC/CSO	Harrogate North	
MONTPELLIER RD27/CSO	Harrogate North	
CAMBRIDGE STREET/CSO	Harrogate North	
WEST PARK/CSO	Harrogate North	
ALBERT STREET/CSO	Harrogate North	
STRAWBERRY DALE/CSO	Harrogate North	Central Knaresborough
WATERSIDE 47/CSO	Knaresborough	
WATERSIDE 48/CSO	Knaresborough	
WATERSIDE 49/CSO	Knaresborough	
BOROUGHBRIDGE ROAD/CSO	Knaresborough	
CRAGG TOP/CSO	Knaresborough	
ABBEY ROAD/NO 2 CSO	Knaresborough	
SPITAL CROFT/CSO	Knaresborough	Near confluence of Oak Beck and Nidd
HARROGATE NORTH/STW/6XDWF OVERFLOW	Harrogate North	
OAKDALE AVENUE/CSO	Harrogate North	Skipton Road/Ripon Road, North of Harrogate
SKIPTON ROAD 109/CSO	Harrogate North	
JENNY PLAIN BRIDGE/CSO	Harrogate North	

NBS – 20% BG elements in AMP8, and 50% in AMP9

****Subject to OFWAT final determination****

OFFICIAL

Bathing water CSO investments



Oak Beck

Bathing water application

SODRP– BW Target for storm overflows discharging within 5 km of a designated inland bathing water is 1 spill per season by 2035, as well as no more than 10 per year by 2050.

****Subject to bathing water approval and EA review****

Site Name	WFD Waterbody Catchment Name
WATERSIDE 47/CSO	Nidd from Oak Beck to Low Bridge on Briggate (Knaresborough)
WATERSIDE 48/CSO	Nidd from Oak Beck to Low Bridge on Briggate (Knaresborough)
WATERSIDE 49/CSO	Nidd from Oak Beck to Low Bridge on Briggate (Knaresborough)
BOROUGHBRIDGE ROAD/CSO	Nidd from Oak Beck to Low Bridge on Briggate (Knaresborough)
CRAGG TOP/CSO	Nidd from Oak Beck to Low Bridge on Briggate (Knaresborough)
SPITAL CROFT/CSO	Nidd from Low Bridge on Briggate (Knaresborough) to Crimpe Beck
ABBEY ROAD/NO 2 CSO	Nidd from Oak Beck to Low Bridge on Briggate (Knaresborough)



Bathing Water Directive

Under the Directive, bathing waters are classified annually into the following categories:



Classifications are made using the previous four years of data.

There are lots of influences on water quality including our assets, meteorological conditions, agriculture and wildlife, and human factors.

De-designation after 5 years of not being 'good'.



Beyond Nature® and Nidderdale AONB

Working in partnership with Nidderdale AONB through Beyond Nature®

2nd largest landowner – catchment wide approach

6,314 ha of Yorkshire Water land signed up to the Beyond Nature®

16 sites have a Beyond Nature® management plan, agreed to by the tenants, the AONB and YW.

9 Beyond Nature® themes, including water quality, biodiversity, carbon, climate change and flood attenuation



Thank you

Any questions?



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