

Drainage and Wastewater Management Plans (DWMPs)

Presentation to Arun DC Planning Policy Committee

David Murphy, DWMP Programme Manager

Wednesday 27 July 2022



Challenges for Drainage and Wastewater Management

Page 2



Climate Change



Population Growth



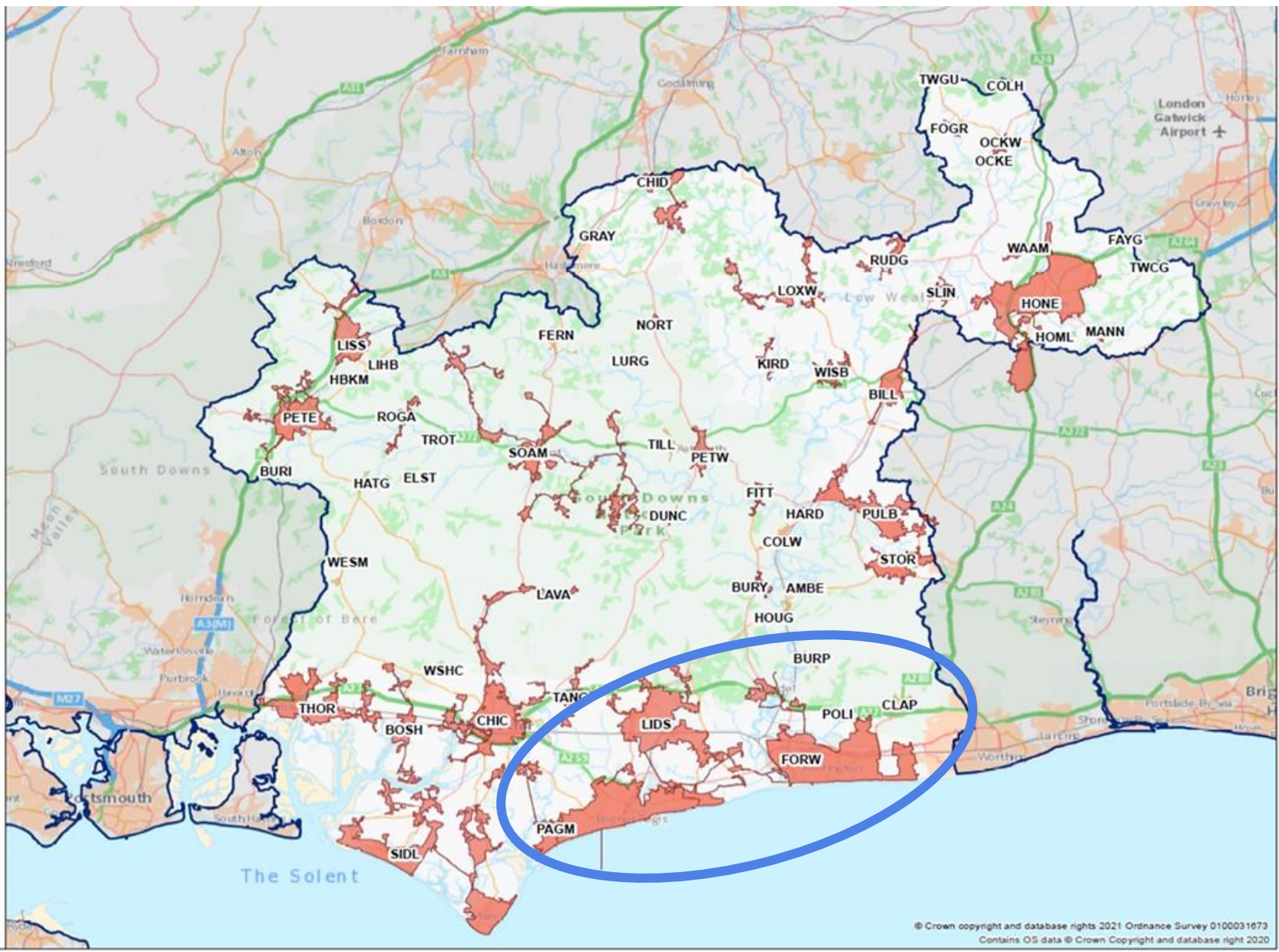
Environmental Capacity & Resilience



Affordability



Wastewater Systems in Arun & Western Streams



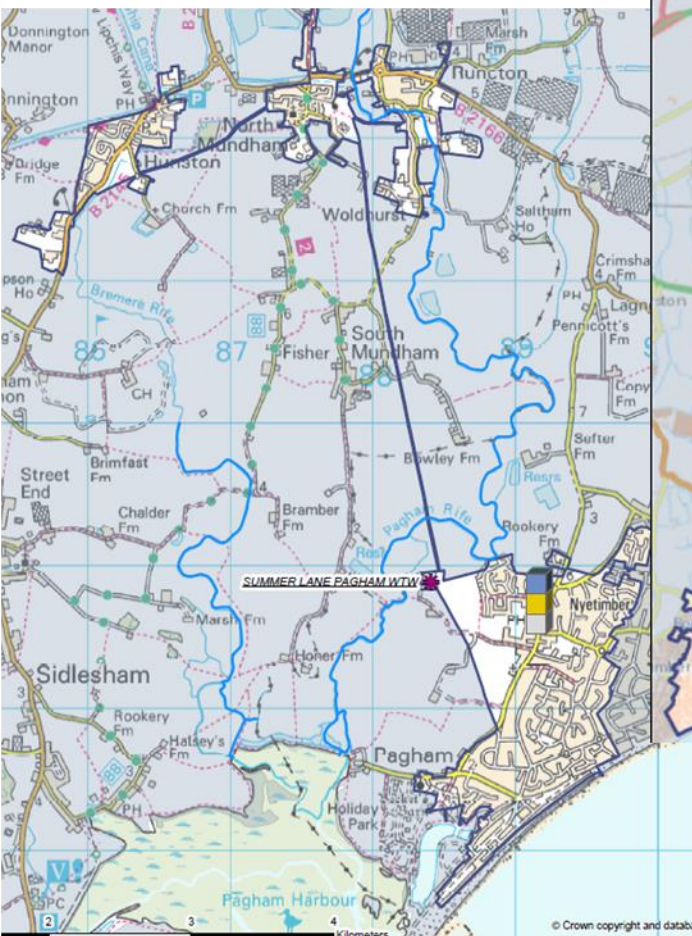
- 60 wastewater systems
- 56 WTWs
- 502 WPS
- 4,012km sewers
- 12% area
- 93% homes connected



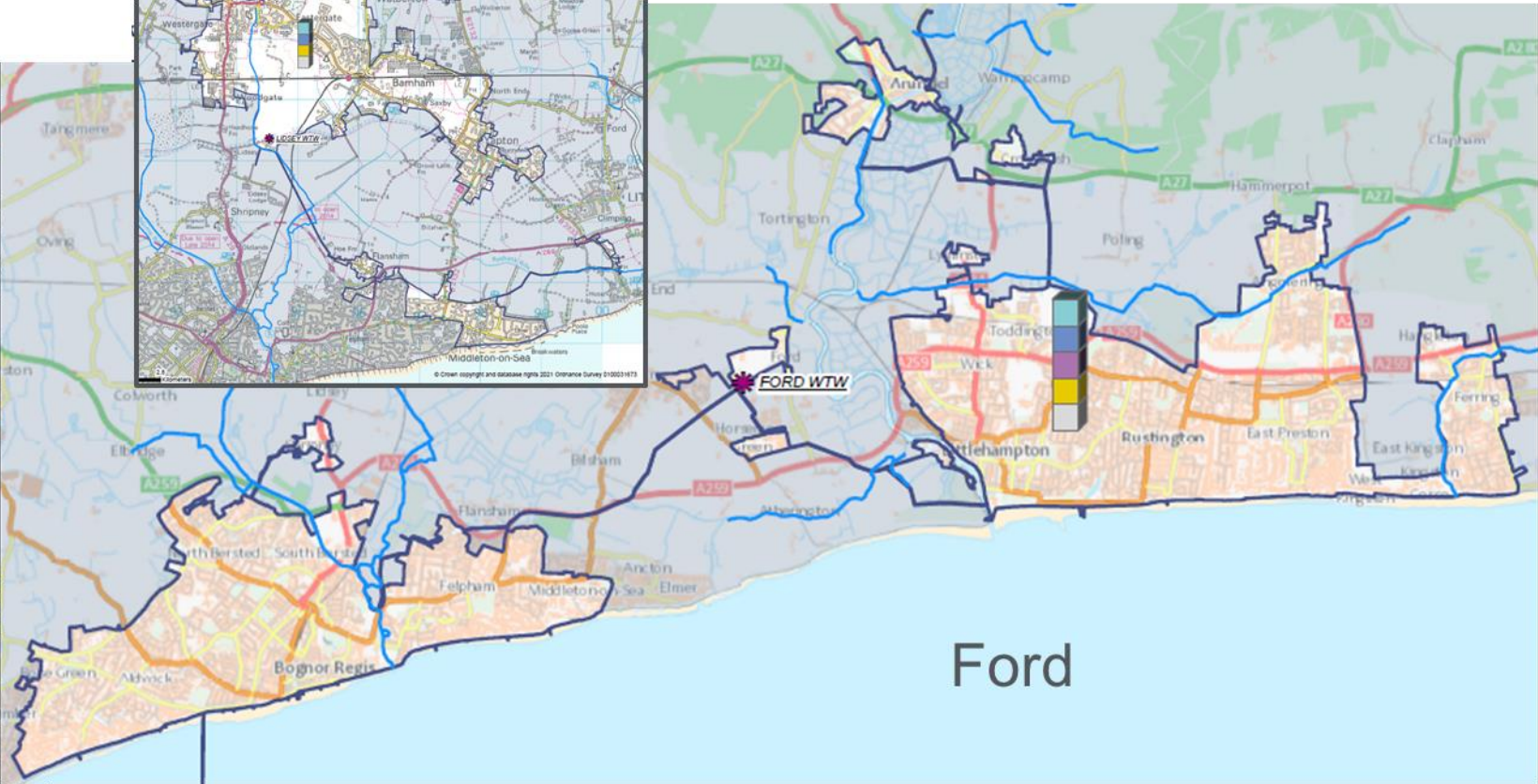
© Crown copyright and database rights 2021 Ordnance Survey 0100031673
Contains OS data © Crown Copyright and database right 2020

Wastewater Systems in Arun District Council area

Pagham



Lidsey



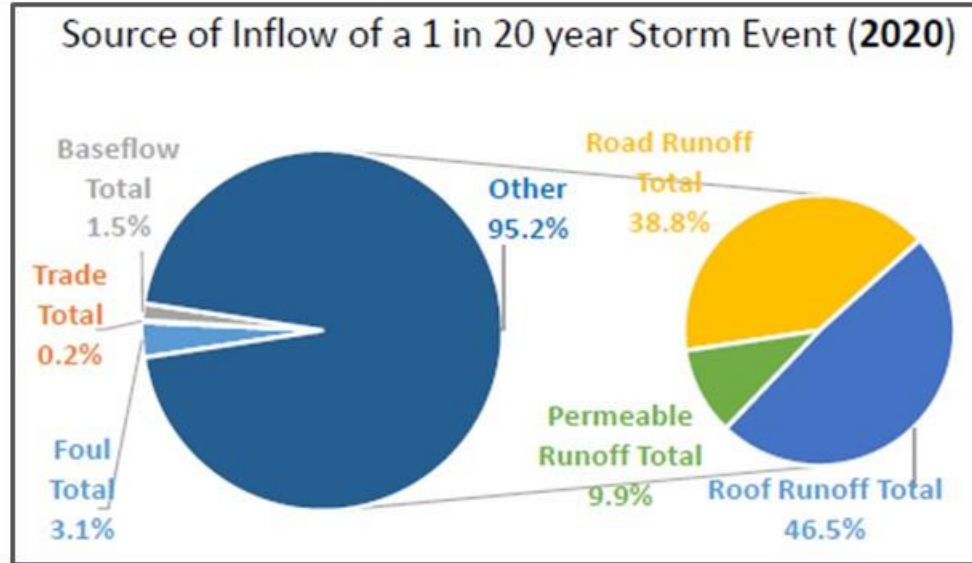
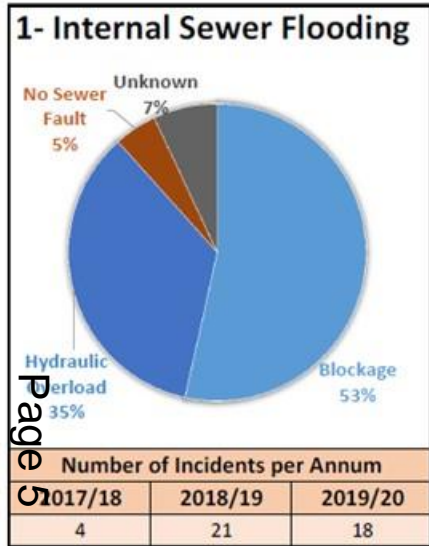
Ford

Page 4

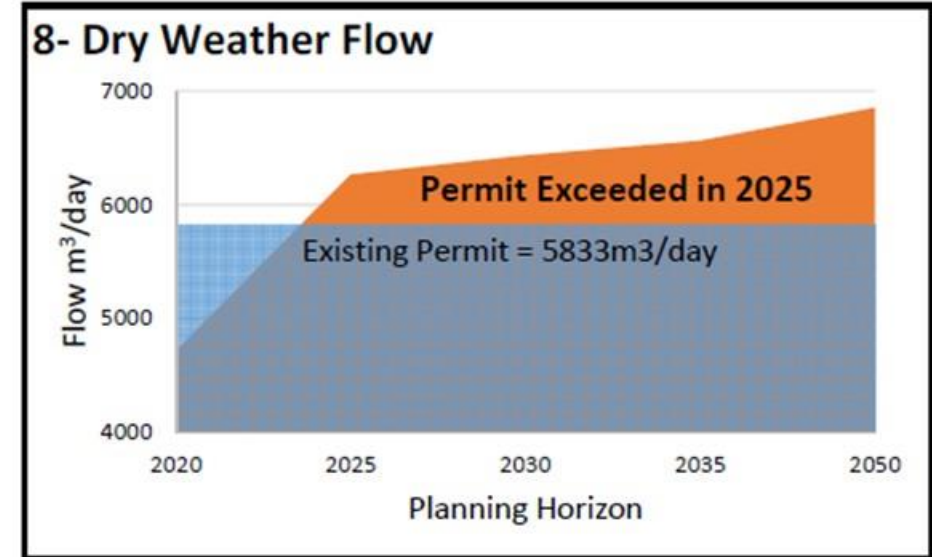


Our Findings – Risks

Ford: Sewer Flooding



Lidsey – Treatment Work Capacity



- Blockages cause ~70% of internal sewer flooding
- Up to 97% of flow in combined sewers during a storm is rainwater
- Flow can increase by 30 times the Dry Weather Flow during a storm resulting in releases of diluted sewage through storm overflows
- A significant proportion of rainwater in sewers is from roads, paved areas and roofs

Our Plan – Creating Resilient Wastewater Systems

■ Optimising our Wastewater Assets and Systems

maximising and looking after what we've got already, for example through:

- operational procedures (maintenance and incident response)
- smart technology
- interdependencies between systems and across sectors to improve resilience

■ Tackling the problems at source

For example:

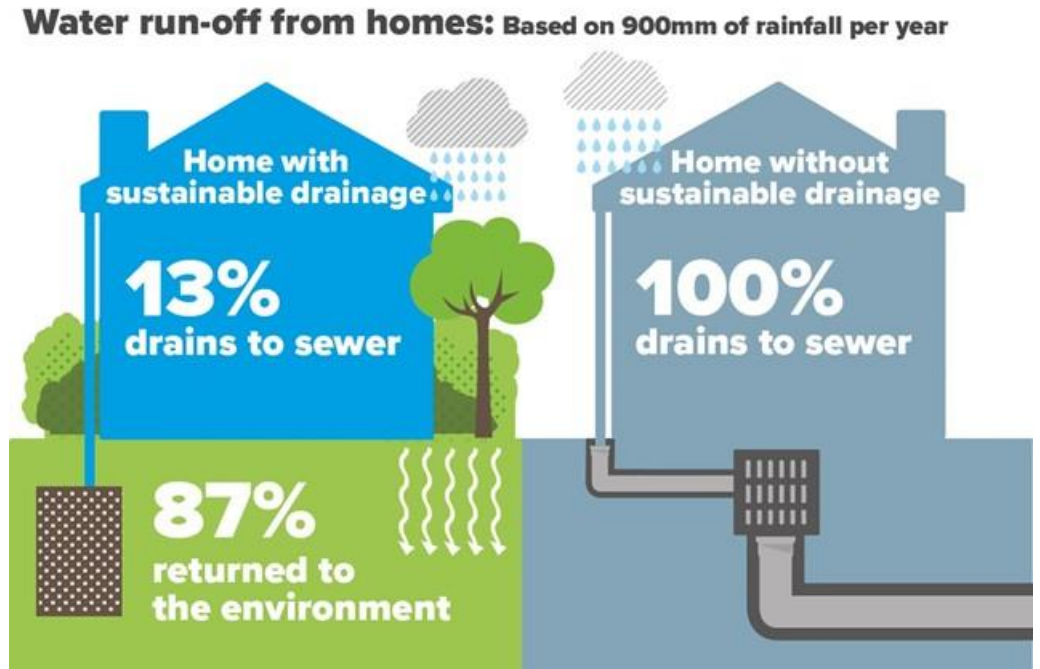
- customer education to reduce blockages
- reducing rainwater getting into foul and combined systems

Delivering Our Plan – Sustainable Solutions

Catchment and Nature Based Solutions

- Tackling sewer flooding and storm overflows at source – rainwater separation / attenuation
- **Sustainable drainage systems (SuDS)** to “slow the flow” through green roofs, permeable paving, wetlands etc
- Keep rainwater out and allow more wastewater in

Page 7



Pathfinder projects – pioneering solutions in AMP7 to support our Business Plan for AMP8



Summary of our DWMP

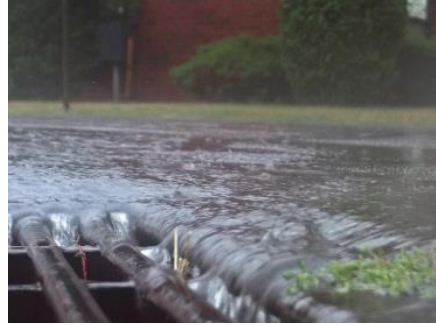
Our Actions:



Optimise Assets



Prevent Blockages



Separate Rainwater



Enhance Treatment

Page 8

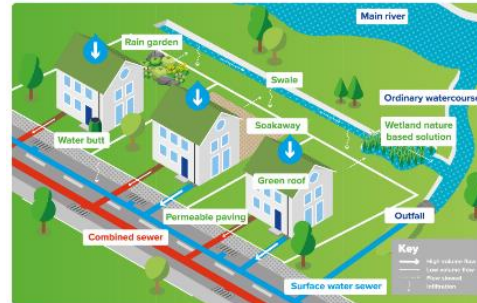
Our Approaches:



Catchment Based Approach



Collaboration & Partnerships



Grey to Green



Innovation & Technology



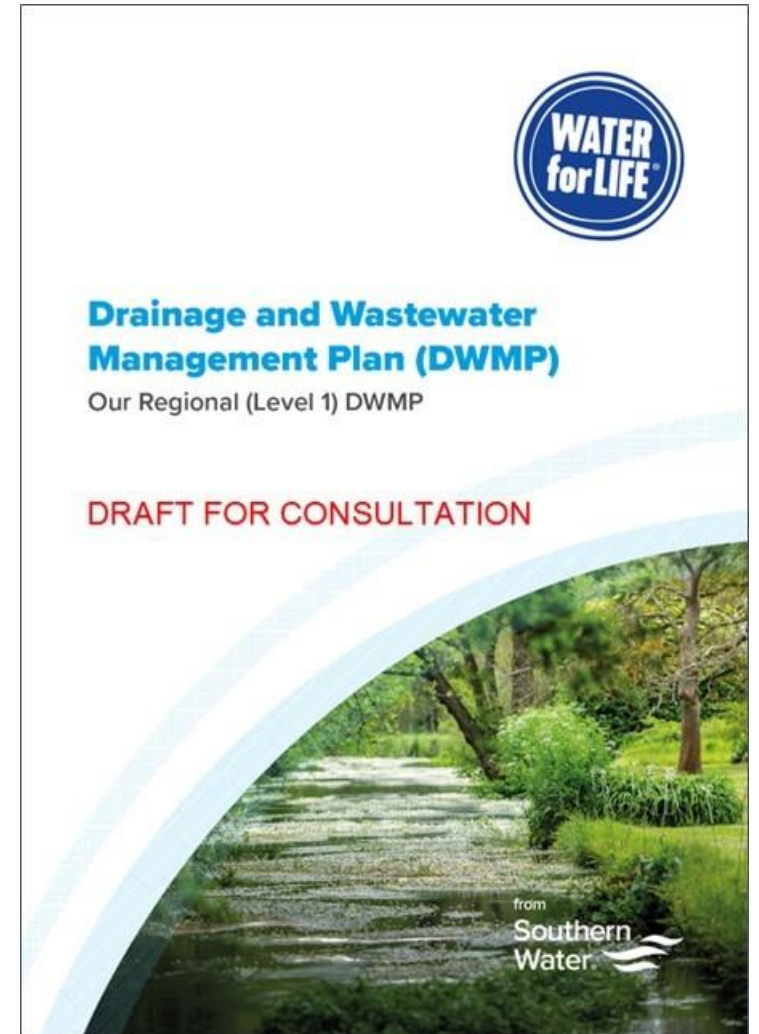
Have your say

Public consultation on our DWMP runs from Monday 13 June through to Monday 5 September 2022.

www.southernwater.co.uk/dwmp

Page 9

Contact us: DWMP@southernwater.co.uk



Drainage and Wastewater Management Plans (DWMPs)

Website: www.southernwater.co.uk/dwmp

Contact us: DWMP@southernwater.co.uk

