



Drainage and Wastewater Management Plan (DWMP)

Technical Summary: Selection of Wastewater Systems for Options Development and Appraisal

August 2020
Version 1



1. Background

We are developing our first Drainage and Wastewater Management Plans (DWMPs) in accordance with the framework published by Water UK, and to a timetable set by Ofwat.

There are three levels of planning for the DWMPs to complete by March 2023. These are:

- (a) Level 1 - Corporate DWMP for our operating area
- (b) Level 2 – River Basin District catchments (there are 11 of these within our area); and
- (c) Level 3 – For each of the wastewater systems (there are 381 within our area).

Given the timetable set by Ofwat, we need to select which of the 381 wastewater systems we are able to deliver an investment plan for in this first round of DWMPs, and which systems we will develop the investment plan for outside of the initial programme and reporting period.

This note sets out our rationale and approach to selecting the wastewater systems to include in the first round of our Level 3 DWMPs.

2. Selection process

The principle we followed for our selection process was to adopt a risk-based approach, using the results from the Baseline Risk and Vulnerability Assessment (BRAVA), and to focus on wastewater systems with the highest risks. We determined the catchments with the greatest number of risks in band 2, followed by the greatest number in band 1. Band 2 means that the risk is ‘very significant’, and band 1 is ‘moderately significant’.

We also used the results of the Problem Characterisation (PC) stage of the DWMP to support the catchment selection. The two parts of the PC stage used for selection of systems were (a) the Investment Strategy, and (b) the PC matrix.

The investment strategy for each wastewater system was defined based on the BRAVA results. Systems with an Improve investment strategy are those where we need to improve the performance of the system and reduce the risks to customers and the environment, subject to funding. We therefore focused the selection on the wastewater systems with an Improve investment strategy because these are where the BRAVA indicates there is a significant risk of failing to achieve our performance commitments or of causing an impact on the environment. We need to target these systems for future investment to reduce the risks.

During the PC stage, we also assessed the complexity of the risks and the strategic need for investment in each of the wastewater systems. The results of this assessment were used in a matrix which categorised the systems into complex, extended and standard. This is explained in the technical summary on Problem Characterisation. We also used these categories to help with the selection of systems, such that we have included all the systems in the complex and enhanced categories, in our plans for completing the Level 3 DWMPs.

Table 1: Number of wastewater systems by category

Problem Characterisation Matrix	Investment Strategy	Number of Level 3 Wastewater Systems
Complex	Improve	13
Enhanced	Improve	34
Standard	Improve	197
	Prepare	52
	Enhance	3
	Sustain	3
	Maintain	79

We shared this information and the list of systems with partner organisations during our workshops in April and May 2021 and asked them to feed into the decision on which wastewater systems to include in the first round of the DWMPs. We will also be consulting our customers on this decision in Autumn 2021.

Taking wastewater systems forward to the Level 3 planning stage means that we are progressing the Options Development and Appraisal (ODA) process further for these systems in the first round of DWMPs to identify potential solutions. The technical summary on the ODA explains the process and our approach.

3. Selection Outcomes

We used the above approach to select the following systems to take forward to the Level 3 planning:

- (a) All 13 of the systems that were identified for the complex appraisal methods
- (b) All 34 systems that were identified for enhanced appraisal methods
- (c) 21 wastewater systems that were identified for standard appraisal methods.

The 24 systems in the standard category were proposed by our expert colleagues from across our business and from partner organisations. External partners agreed with the risk-based approach, but also identified that these additional 21 systems should be considered in this first cycle for a range of reasons. These included issues such as the level of growth planned in the area, or the impact on environmentally designated sites.

The 71 wastewater systems are listed in Appendix A of this technical summary. In total, these systems provide sewerage services for 81% of our customers.

Of the remaining 311 systems in our region, 137 of them have either a Prepare, Maintain, Sustain or Enhance investment strategy. These have much smaller populations and the delivery of the level 3 DWMP for all these systems will only increase the overall coverage of the DWMP by 1% of the population we serve.

Appendix A: List of Wastewater Systems selected for the level 3 planning in the first round of DWMPs

Kent

River Basin	Wastewater System
Medway	TUNBRIDGE WELLS NORTH
	TUNBRIDGE WELLS SOUTH
	REDGATE MILL CROWBOROUGH
	MOTNEY HILL
	GRAVESEND
	HORSMONDEN
	OXTED
	PADDOCK WOOD
	STAPLEHURST
	TONBRIDGE
	North Kent
QUEENBOROUGH	
SITTINGBOURNE	
Stour	SWALECLIFFE
	WEATHERLEES HILL
	BROOMFIELD BANK
	MAY STREET HERNE BAY
	CANTERBURY
	CHARTHAM
	MARGATE AND BROADSTAIRS
	DAMBRIDGE WINGHAM
	WESTBERE

Sussex

River Basin	Wastewater System
Adur and Ouse	EAST WORTHING
	SHOREHAM
	PEACEHAVEN BRIGHTON
	NEWHAVEN EAST
	GODDARDS GREEN
	SCAYNES HILL
Arun & Western Streams	HORSHAM NEW
	BOSHAM
	CHICHESTER
	LAVANT
	TANGMERE
	THORNHAM
	FORD
	LIDSEY
	LOXWOOD
	PAGHAM
	SIDLESHAM
	SOUTH AMBERSHAM
	Cuckmere and Pevensy Levels
HAILSHAM NORTH	
HAILSHAM SOUTH	
BEXHILL AND HASTINGS	
VINES CROSS	
Rother	RYE
	ROBERTSBRIDGE
	TICEHURST
	FAIRLIGHT
	NEW ROMNEY

Hampshire

River Basin	Wastewater System
East Hampshire	PEEL COMMON
	BUDDS FARM HAVANT
Isle of Wight	SANDOWN
New Forest	SLOWHILL COPSE MARCHWOOD
	ASHLETT CREEK FAWLEY
	BROCKENHURST
	LYNDHURST
	PENNINGTON
Test and Itchen	BARTON STACEY
	WEST WELLOW
	MILLBROOK
	PORTSWOOD
	WOOLSTON
	WHITCHURCH
	CHICKENHALL EASTLEIGH
	FULLERTON
	HARESTOCK
	KINGS SOMBORNE
	MORESTEAD ROAD WINCHESTER
	ROMSEY
	STOCKBRIDGE