

# Catchment Strategic Plan

Part of our Drainage and Wastewater Management Plan (DWMP)

Co-creating resilient wastewater catchments

A long-term strategic plan for Surrey



# Developing our best value plan for Surrey

## Defining a Best Value Framework

A best value framework is one that considers broader criteria than just economic cost. So our DWMP maximises outcomes for the communities it serves. Our criteria are based on the 12 planning objectives of DWMP with additional criteria to capture broader environmental impact.

## Defining what our customers and stakeholders value

We have used quantitative customer research to determine the relative priorities of the different criteria.



## Agreeing scenarios with stakeholders

For our catchments outside London, over fifty possible scenarios were identified to achieve various combinations of our planning objective targets.

These were further refined and agreed through discussions with our regional stakeholders.

Outcome
<b>Maintain</b> - maintain current performance for the next 25 years
<b>Maximise</b> - optimise across all 14 objectives to achieve maximum benefit for least cost
<b>Resilient</b> - spill rate of <10/year and prevents flooding up to 1 in 50 year storm by 2050 (50% properties by 2030; 75% by 2035; 100% by 2050)

To avoid customer bill volatility we also explored alternative investment profiles that define how quickly options are implemented.

## Scoring our options against our planning objectives

Scores have been generated for every option for each of our planning objectives, and weighted based on our customer priorities. For example: DWMP with additional criteria to capture broader environmental impact.



### Natural capital (NC) impact

We used data from Natural England on the existing NC in the catchment and assessed whether the option would improve or reduce this baseline based on additional green space generated. Surface water management schemes scored highly whilst new sewers and tanks scored lower.



### Wellbeing impact

We used data on environmental factors in the catchment that influence population and human health, including improved access to recreation and the environment, and assessed whether the option would improve or reduce this baseline.



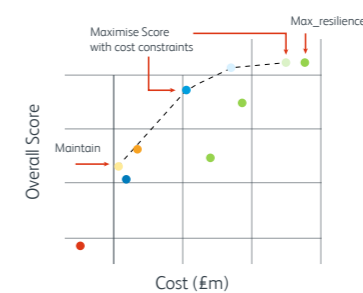
### Reducing misconnections

We assessed the area to be disconnected from our foul into surface water systems as part of our options.

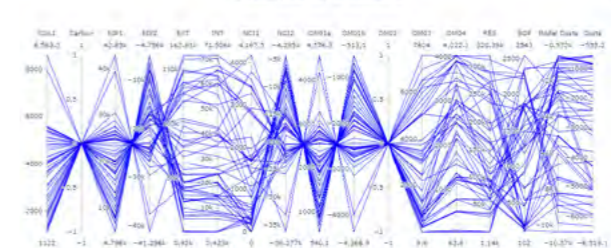
## Assessing different scenarios

We used a decision support tool to optimise our plan based on our 'value criteria'. We tested the plan with multiple scenarios to allow us to assess different scenarios and compare their outcomes.

### Illustrative Score vs Cost



Parallel Axis Plot of Scenarios



## Determining our preferred plan

Our preferred plan has been developed by considering a range of factors including:

- affordability
- deliverability
- performance outcomes
- strategic environmental appraisal
- stakeholder feedback

This has allowed us to develop an adaptive plan, understanding which interventions need to be prioritised over those that can be deferred, and recognising areas of risk and uncertainty.

Our first iteration of our preferred plan balances our ambitions, our stakeholder and customer desires, our planning objectives and affordability.