

Portsmouth Water Limited  
Havant Thicket Reservoir  
Strategic Advisory Group

28 September 2021

# Havant Thicket Reservoir

## AGENDA

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10:00	Welcome and introductions	Ingrid Strawson
10:05	Apologies / Minutes	Ingrid Strawson
10:15	Project Update	Ruari Maybank
10:30	Q&A	Discussion
10:50	Future water resource planning	Jim Barker / S Water
11:00	Q&A	Discussion
11:10	Issues register	Ingrid Strawson
11:40	Sub-groups	Discussion
11:50	AOB and group member updates	All

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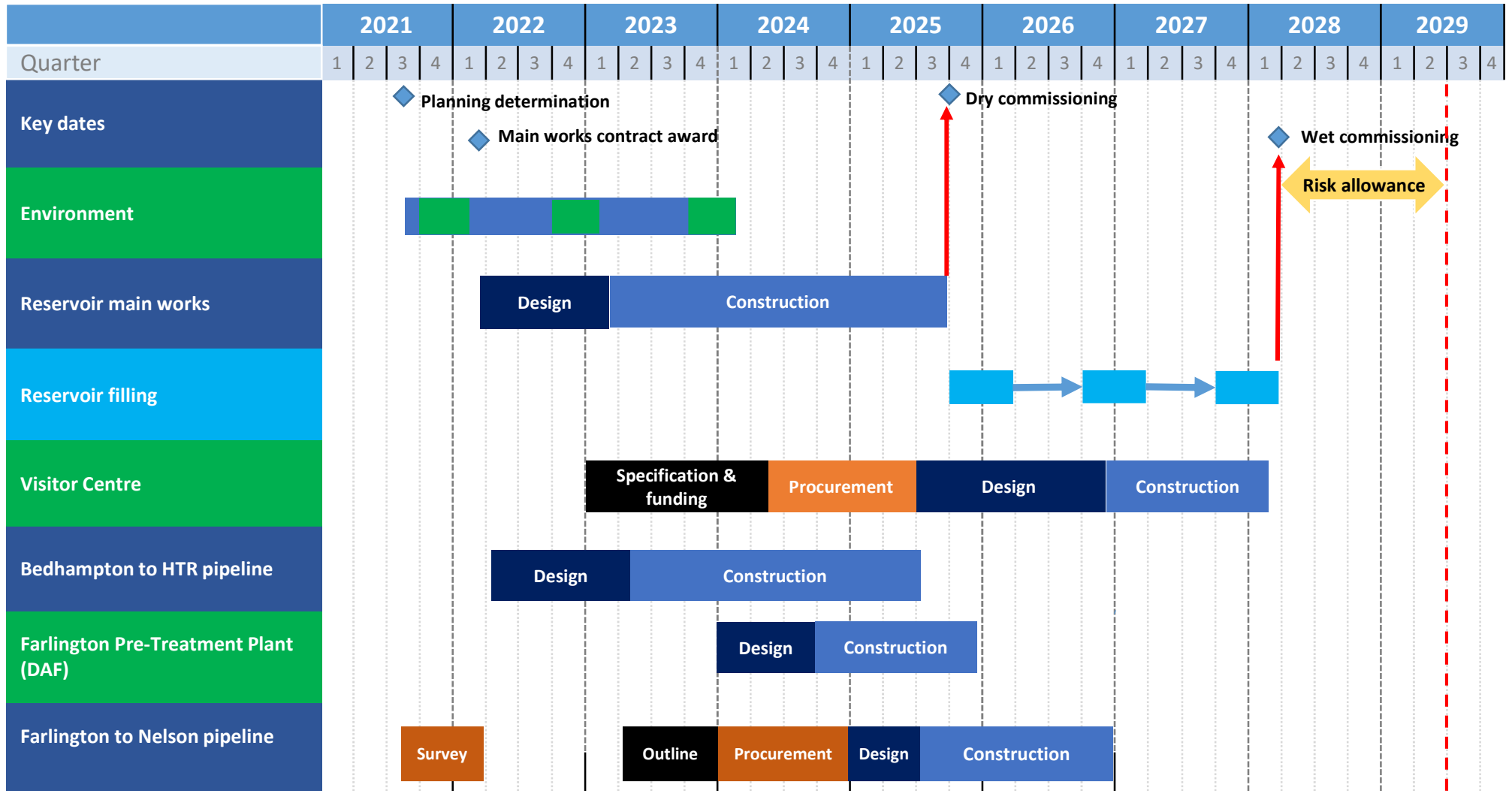
# Havant Thicket Reservoir

## Ruari Maybank, Havant Thicket Project Director



# Havant Thicket Reservoir

## Summary programme



# Havant Thicket Reservoir

## Planning and consents

- June 2021: Resolution to grant planning subject to Section 106 agreements
- S106 agreements in final stages of drafting
- No construction until planning is granted
- East-West bridleway diversion order withdrawn pending further consultation
- October: Works to be reviewed for northern diversion through Havant Thicket
- S106 commitments to improve pathways and access points for non-motorised users.



# Havant Thicket Reservoir

## Environmental works

- Strategy developed for translocation of aquatic species from Upper Lake
- Consultation with 'Stop the Chop' to explore areas for further improvement
- Woodland management plan in consultation with Forest Service, Natural England and County Ecologist
- Stream enhancement plan finalised with the Environment Agency
- Negotiating terms for a potential 80Ha new woodland and woodland meadow site.



# Havant Thicket Reservoir

## Environmental works

- 6,000 trees planted (Memory Park and Gypsies Plain)
- 191 dormice boxes translocated from the Avenue
- 109 new dormice boxes installed
- 200 bat boxes installed
- 50 natural roost features created
- Barriers created to protect watercourses
- Wildlife corridors are being created to enable natural relocation



# Havant Thicket Reservoir

## Environmental works

- Tree clearance will commence shortly after planning permission is granted
- Natural Environment and Rural Communities Act agreement and European Protected Species License to be signed after planning permission
- Traffic management plans being finalised with the Highways Authority and Forestry England
- Tree clearance ready to start in October
- Further clearance will be scheduled in 2022 (Spring or Autumn depending on the weather).



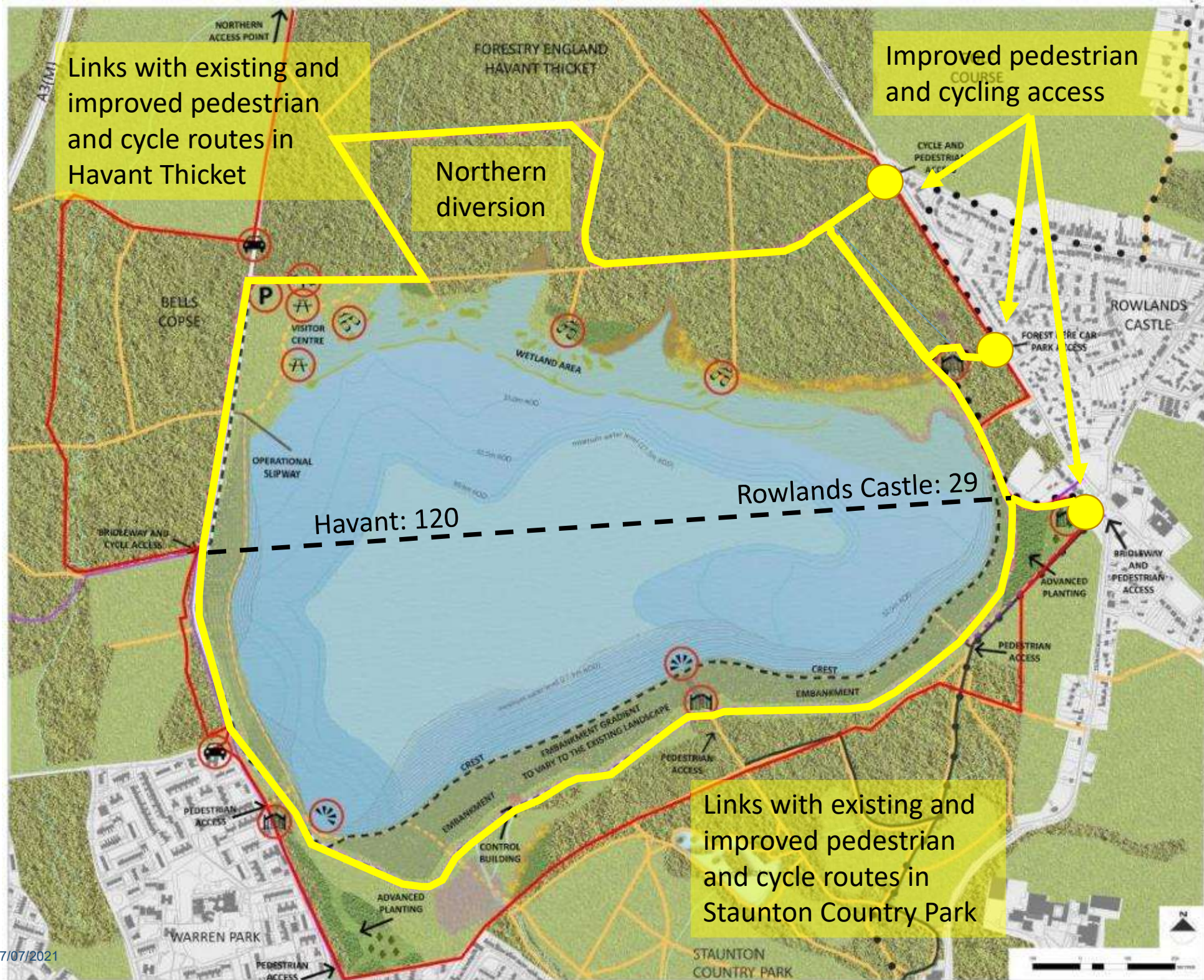


# Havant Thicket Reservoir

## Main construction works

- Two work packages being procured
  - Main reservoir
  - Bedhampton to Havant pipeline
- Stage 1 completed, shortlisting two preferred contractors for each package
- Stage 2 started in September
- Contract award due in March 2022
- Further procurement will follow for the Farlington to Nelson pipeline.





Links with existing and improved pedestrian and cycle routes in Havant Thicket

Northern diversion

Improved pedestrian and cycling access

Havant: 120

Rowlands Castle: 29

Links with existing and improved pedestrian and cycle routes in Staunton Country Park

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# Water for Life – Hampshire

Havant Thicket Stakeholder Group

September 28, 2021



# What is Water for Life – Hampshire?

- Water for Life – Hampshire is our response to the twin pressures of more extreme weather events and a growing population, which are stretching our planet's finite natural resources, including water.
- In Hampshire, reductions in the amount of water we can take from the Test and Itchen rivers leave us with a forecast shortfall of water in a drought.
- These chalk streams support a wide variety of species and deserve protection, but they also supply water to more than 700,000 people.
- Water for Life – Hampshire programme will bring greater resilience for customers and the environment.
- We are improving the way we abstract, treat and supply water across Hampshire and the Isle of Wight and exploring new sources of supply.
- We are also reducing leakage and supporting and incentivising people to reduce their water use to 100 litres a day.










# The three options we've explored and new pipelines we're investigating

Our plans also bring greater interconnectivity.

New bi-directional pipes between Testwood, Otterbourne and Andover will allow water to be shared across the network.

Additional storage is also being created to improve resilience.

**Key**

-  Desalination Plant
-  Water Transfers/ Havant Thicket Reservoir
-  Water Recycling Plant
-  Testwood Water Supply Works
-  Otterbourne Water Supply Works
-  Budds Farm Wastewater Treatment Works
-  Peel Common Wastewater Treatment Works



# Desalination

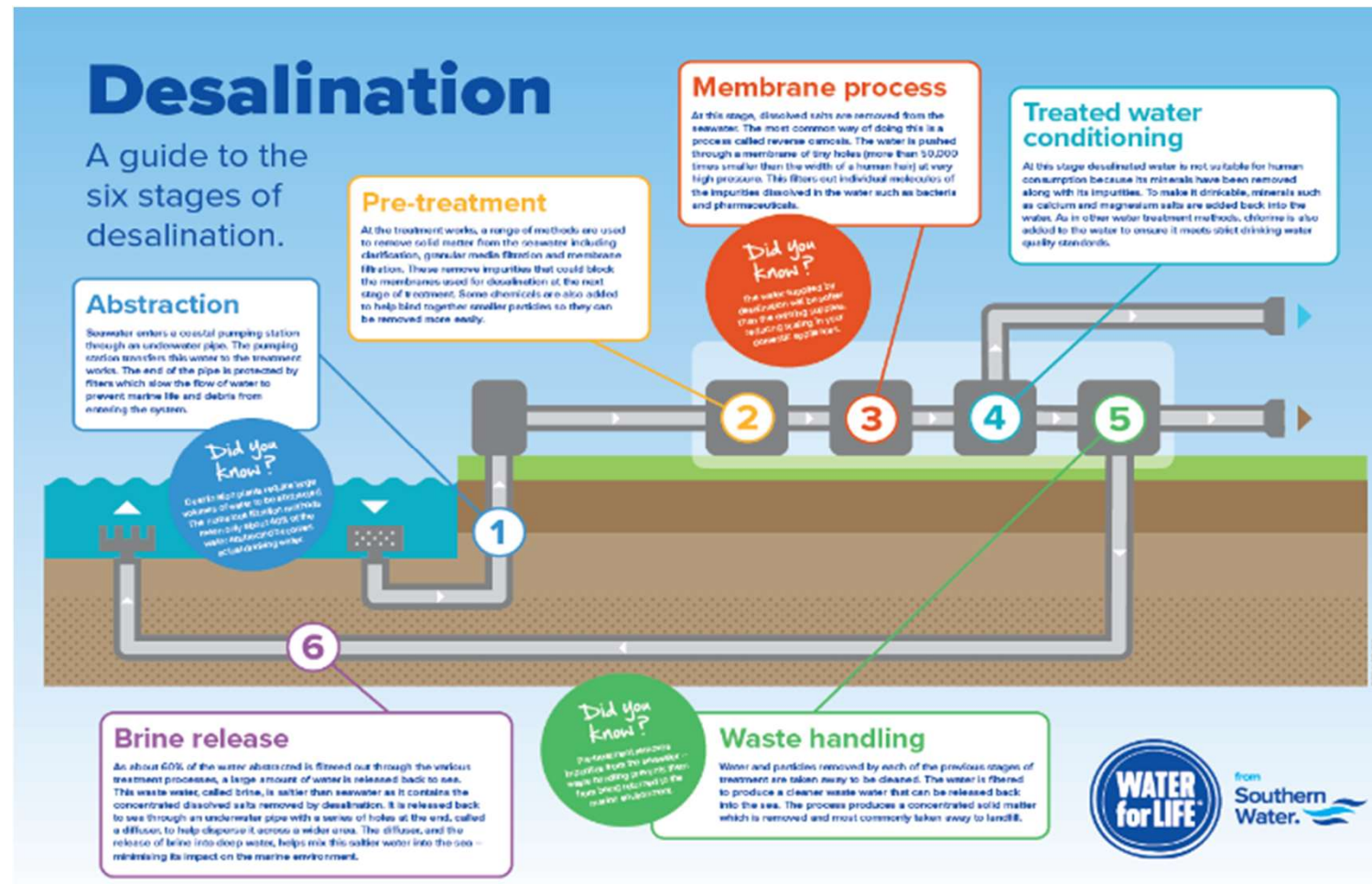
We outlined a plan to build a desalination plant at Fawley capable of supplying up to 75 million litres of water a day. This option, which we called the Base Case, was selected in our Water Resources Management Plan 2019.

Only three percent of the Earth's water is freshwater – the rest is mostly seawater.

Desalination is the process that makes seawater suitable for human consumption.

The plant would take water from the Solent, be treated at Fawley and then pumped to our Testwood Water Supply Works.

The brine produced would be released back into the Solent.



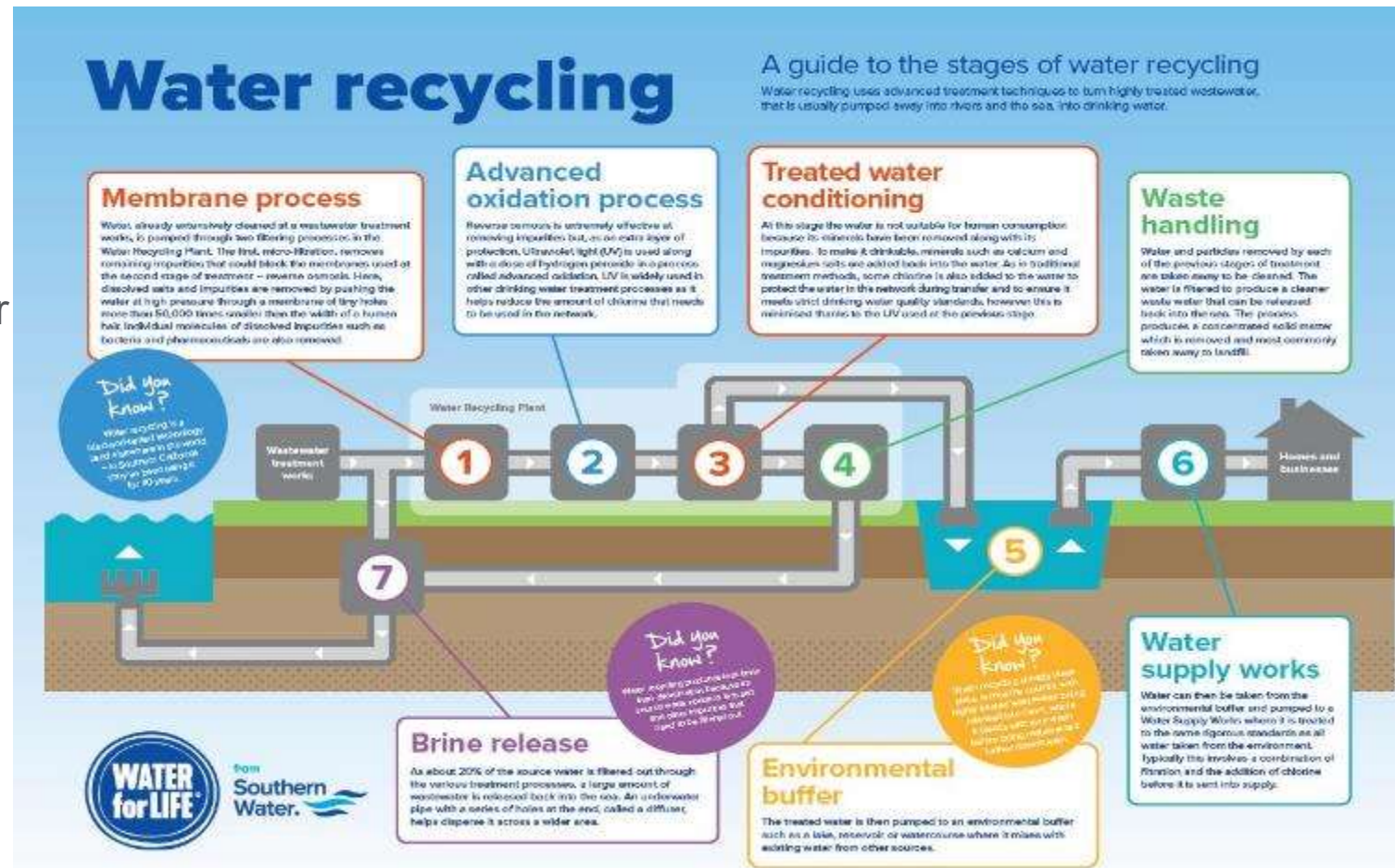
# Water recycling

This process uses advanced treatment techniques including ultra-filtration to turn what was previously regarded as wastewater into drinking water. We're exploring it as a potential alternative to desalination.

Water recycling speeds up the natural process of water treatment, reducing the amount taken from the environment.

The wastewater would be sent from our Budds Farm Wastewater Treatment Works to a Water Recycling Plant and then either directly to our Otterbourne Water Supply Works or the Havant Thicket Reservoir.

We're running a pilot at our Peel Common Wastewater Treatment Works in Gosport as part of our investigations.



## Water transfers

- We're working with Portsmouth Water to develop and fund Havant Thicket Reservoir, a new strategic water resource for the South East.
- The 8.7 billion litre reservoir will be the first new reservoir in the South East since the 1970s.
- As part of the RAPID process, we are also exploring an additional enhanced use of the reservoir as a potential alternative to desalination. It involves taking more water via a new pipe to our Otterbourne Water Supply Works.
- We're also exploring the potential of maintaining levels in the reservoir by topping it up with recycled water to provide further drought resilience.
- These potential enhancements would be subject to further planning consultation.



Artists' impression courtesy of Portsmouth Water

## Latest developments

- We have undertaken an options appraisal process to inform our most recent submission to RAPID (on September 27).
- This detailed process, which included engagement with key regulators, stakeholders and customers.
- It considered the viability and impact of the desalination plant against a series of alternative options.
- Following the options appraisal process, desalination was found to be the least preferable and lowest ranking solution. The alternatives emerged with higher rankings and as more preferable.
- Consequently, we have written to our regulators informing them that the plans for desalination have been stopped in favour of the alternative solutions.
- While desalination is not considered to be the right solution for this location at this time, the approach remains a viable technology for securing future water resources elsewhere in our region.

## Next steps

- We are continuing to develop the alternatives ahead of our next submission to regulators this December.
- In December, a new preferred solution and potential back-up option will be identified.
- We will then carry out further consultation before starting the planning process.
- We will continue to carry out wider engagement with customers and stakeholders as our plans progress.



*“Water for Life – Hampshire is part of Southern Water’s commitment to protect and enhance the natural world around us. Our climate is changing and it’s vitally important that we take the right decisions now to ensure that in the future our children and grandchildren can enjoy both a fantastic environment and a clean and plentiful water supply.”*

Toby Willison, Director of Environment and Corporate Affairs



For more information visit:  
[www.southernwater.co.uk/water-for-life-hampshire](http://www.southernwater.co.uk/water-for-life-hampshire)

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## Navigating the Issues / Actions Register

### Using the Issues / Actions Register

- Raising issues
- Updating, progressing and tracking action plans
- Signing off issues as addressed:

Proposal: The advisory group member who raised the issue

Either,

- Agrees that the actions are satisfactory and complete, or
- Agrees a mitigation plan with the project team, or
- PW / HTR project team provide an explanation as to why it cannot or will not be addressed.

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**Effective management of issues and actions**

**Terms of Reference**

**Voluntary lead**

**Report back to the Strategic and / or Community Advisory Groups**

**Aims:**

- **To enable more detailed discussion between interested parties**
- **To develop ideas and prepare specific proposals**
- **To improve communication across advisory group members.**

# Havant Thicket Reservoir

## Proposed Subgroups

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### Access

Construction traffic  
Cars, cyclists, motor bikes, electric scooters, horse riders and walkers

### Local Economy

Sub-contracts for local firms  
Local apprentices and skill development

### Environment

Environmental mitigation work  
Development of wildlife corridors and the wetland

### Recreation

Recreational activities for local people and local youth, supported by voluntary organisations  
Visitors Centre

### Education

Involvement of local schools to develop educational opportunities  
Address anti social behaviour  
Safety and security of the site

### Pipeline

Community Projects  
Communications during construction.

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