Sydney WATER

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Water Cycle Management for Greater Parramatta and Olympic Peninsula

Over the next 30 years, the Greater Parramatta and Olympic Peninsula (GPOP) precinct will be home to an additional 250,000 people. In order to service this anticipated growth, Sydney Water must invest in infrastructure.

Wastewater in the GPOP area is transferred by the Northern Suburbs Ocean Outfall Sewer (NSOOS) to the North Head Wastewater Resource Recovery Facility (WRRF) for treatment and release into the ocean. The NSOOS and North Head WRRF do not have capacity to service projected growth into the future. Expanding and duplicating these assets is costly. It also wouldn't allow us to keep water in local waterways or be reused for local benefit. For the GPOP growth corridor, we're shifting away from a reliance on coastal treatment and ocean discharge, moving towards more holistic water management.

Sydney Water is planning a new water treatment facility to allow us to sustainably service the GPOP area. The new WRRF will produce high quality water using advanced treatment for release into the Parramatta River. In future, this high-quality water may be reused locally or used to top up raw water storages such as Prospect Reservoir.

What is a WRRF?

It's called a Wastewater Resource Recovery Facility (WRRF) instead of a wastewater treatment plant because wastewater doesn't have to go to waste.

Many of our WRRFs make their own energy using cogeneration, biomethane and even hydroelectricity.

The project involves:

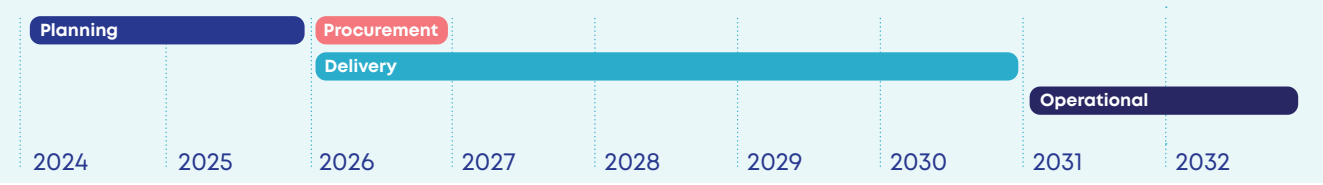
- a new WRRF in the Camellia-Rosehill industrial precinct
- upgrades for the pumping station in Camellia
- a range of pipelines to transfer wastewater, treated water and for river release

As the area grows, Sydney Water will explore options for the water. This could include watering for green spaces, or reuse.

Treatment processes

Before water is released to Parramatta River it will undergo advanced treatment using reverse osmosis. The water will meet NSW Environment Protection Authority requirements and will have lower nutrients and impurities than the existing water of Paramatta River.

Indicative project timeline



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Project benefits

- Efficient and cost-effective water services to support growth
- Supporting the vision to make the Parramatta River swimmable
- High-quality, advanced treated water available for non-drinking use to support greening and cooling initiatives
- A sustainable, circular economy

Our plan for a water resource recovery facility located within GPOP can be adapted in future to produce purified recycled water to supplement dams, providing drought resilience. This is not a part of the project currently and would be subject to approvals and regulations.

Contact us

We encourage feedback on the project to improve our planning.

www.sydneywatertalk.com.au/gpop

gpopproject@sydneywater.com.au

1800 172 263

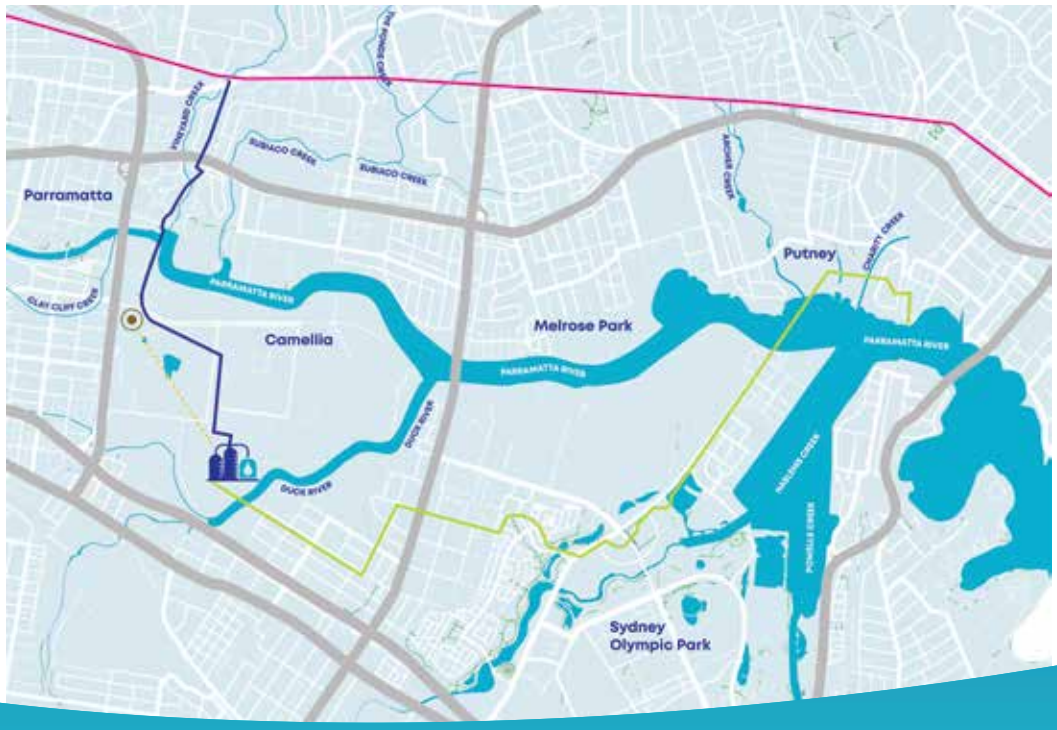
Project impacts

With the delivery of any new WRRF and its supporting pipelines, there will be some construction impacts. These include:

- drilling and trenching for pipelines
- additional vehicle movements
- noise, dust and light from construction and earth moving at the future WRRF site and pumping station

We're minimising impacts on private property by following roads where possible and using less invasive techniques such as horizontal directional drilling (underground).

Sydney Water will be engaging surrounding communities and land owners on the proposed project to capture feedback and explore additional opportunities to minimise impacts on the environment and community where possible.



Legend

- WWRF
- Pump station SP0067
- Indicative transfer main
- Indicative river release pipeline
- Indicative brine pipeline
- Existing sewer main