

<b>Name of wastewater treatment plant</b>	Rouse Hill Water Reclamation Plant
---	------------------------------------

System Summary	Projected				
	2026	2031	2036	2046	2056
Rouse Hill catchment average dry weather flow (ML/d)	30.3	33.9	35.7	36.4	36.8
Rouse Hill catchment load (EP <sub>cod</sub> )	202,318	225,783	238,259	242,394	245,357

Treatment capacity constraints for 2022 – 2036	Estimated year of exceedance
Liquid stream hydraulic and load capacity exceeded; aerobic digestion capacity exceeded (without influent diversion to Riverstone WWTP)	2020

Summary of servicing strategy for 2022 – 2036
<p>Temporary wastewater transfer to Riverstone WWTP followed by liquid treatment facility upgrade and sludge transfer to Riverstone.</p> <p>Meet the requirements of the pollution reduction program (PRP) in a timely manner. This consists of a new inlet works, RE upgrades, the OCF, and reinstating the wet weather PST by 2024 in an expedited manner.</p> <p>Increase treatment capacity to 40 ML/d, meet new nutrient load limits for compliance with the revised EPL and Hawkesbury Nepean Regulatory Framework, and provide dedicated sludge transfer to Riverstone WWTP (by 2024/25).</p>

Anticipated augmentation and upgrades for 2022 – 2036			
Year commissioned	Description	Approximate capital cost (\$M)	Impact on servicing capacity
2024	Expedited Phase 2 works: New Inlet works, RE upgrades, the OCF, and the reinstating the wet weather PST.	32.5**	Required to meet the requirements of the pollution reduction program (PRP) and EPA standards. Plant capacity increased to 40 ML/d.
2025	Phase 2 works: Increase treatment capacity to 40 ML/d, meet nutrient load limits with revised EPL, and sludge transfer to Riverstone WWTP.		
2032	Phase 3 works: Addition of a 2.5 ML/d MBR and UF equipment	237	Cater for projected growth to 2033/34 and maintain EPL compliance.

\*\* in progress, remaining expenditure for completion

Further investigations
Phase 1 works delivery being completed
Phase 2 works are in detail design and delivery phase – Delivery timeframes may vary.

© June 2023 Sydney Water

While Sydney Water has made every effort to provide information that is up to date, this information can be affected by many factors and is provided as a guide only. Sydney Water makes no representation, warranty, undertaking or guarantee (express or implied) that the information provided in this document is accurate, reliable or complete.

Date published: 30 June 2023