

Name of wastewater treatment plant	Cronulla Wastewater Treatment Plant
---	-------------------------------------

System Summary	Projected				
	2026	2031	2036	2046	2056
Cronulla catchment ADWF (ML/d)	56.5	57.9	59.2	60.2	60.4
Cronulla catchment load (EP _{COB})	316,867	326,423	335,022	341,656	343,214

Treatment capacity constraints for 2022 – 2036	Estimated year of exceedance
Reliability and Renewal constraints including inlet works performance; odour control; primary sedimentation; primary thickener; digester capacity.	2025
Bioreactor nitrogen removal capacity - total nitrogen load limit (growth related)	2026

Summary of servicing strategy for 2022 – 2036
Reliability and Renewal upgrades required and planned in the short term to resolve a range of asset performance issues and improve reliability moving forward. The only primarily growth driven project is a nitrite shunt for the management of increasing effluent nutrient loads with growth in the secondary bioreactors. The proposed servicing augmentations were assessed during the Cronulla Upgrade Options Assessment. The identified upgrades will ensure sufficient capacity to service growth demands; however, process reliability and renewal is the primary driver rather than growth.

Year commissioned	Description	Approximate capital cost (\$M)	Impact on servicing capacity
2024	Digester capacity upgrade by recuperative thickening, odour control upgrade.	58**	Provide digestion capacity to 2035, improve Nutrient removal
	Secondary bioreactor nitrite shunt	3.6	
2034	Digester upgrade	45.28	Additional digester to enable servicing of current loads and growth beyond 2035.

** current project in progress

Further investigations
TN load limit tracking continue, timing of upgrade will be revised to meet increasing loads and maintain regulatory compliance.
Cronulla Upgrade Program is currently undergoing re-options and concept design any of the details listed above are subject to change

© 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