

Name of wastewater treatment plant	West Hornsby Wastewater Treatment Plant
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System Summary	Projected				
	2026	2031	2036	2046	2056
West Hornsby WWTP ADWF (ML/d)	11.7	12.4	12.9	13.2	13.4
West Hornsby WWTP load (EP _{cod})	64,700	67,600	68,760	71,080	73,400

Treatment capacity constraints for 2022 – 2035	Estimated year of exceedance
Constraint to meet Hawkesbury-Nepean framework load limit targets	2026

Summary of servicing strategy for 2022 – 2035
Continued treatment of wastewater for discharge to river as per the current EPL. Biosolids stabilisation by anaerobic digestion onsite followed by pumped transfer to the North Head Wastewater System for collection, further treatment and out loading to disposal at North Head WWTP. Biosolids reliability upgrade project in delivery phase, estimated to be commissioned by 2024 – will resolve several operating constraints and is funded by the Reliability and Renewals (R&R) Project. Conversion to MBR plant/ Improvement to secondary treatment as a reliability upgrade and to provide capacity.

Anticipated augmentation and upgrades for 2022 – 2035			
Year commissioned	Description	Approximate capital cost (\$M)	Impact on servicing capacity
2024	Biosolids Upgrade	Funded by R&R Project	Provide capacity for currently projected growth up to 2024
2026-2028	Primary sludge thickening, Grit system upgrade, second digester mixing, odour control upgrade	35**	Provide capacity for currently projected growth up to 2035

** based on the current options study underway

Further investigations
The options study being undertaken now may identify additional capital spending required prior to 2035. The need for a plant capacity upgrade in the form of an MBR or transfer to other catchment may be needed beyond 2035 and will be informed by the options study.