

Name of water treatment plant	Cascade Water Filtration Plant
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System Summary	Projected					
	2026	2031	2036	2041	2046	2056
Total Equivalent Population (EP)	31,379	31,815	32,244	32,674	33,099	33,851
Average day demand (ADD) ML/d	13.7	14.1	14.4	14.7	15.0	15.5
Max day demand (MDD) ML/d	29.1	29.8	30.4	31.1	31.8	32.8

Current treatment capacity	(ML/d)
Treatment / filtration - normal raw water quality	37
Treatment / filtration - poor raw water quality	14

Treatment capacity constraints for 2022 – 2036	Estimated year of exceedance
No growth constraints within the next 10 years	>10 years
Reliability constraints and constraints in the treatment of alternate source water during drought.	Event based

Anticipated augmentation and upgrades 2022-2036			
Year commissioned	Description	Approximate capital cost (\$M)	Impact on servicing capacity
N/A	None identified		

Further investigations
Resilience planning and growth servicing studies continuing to optimise supply resilience during poor raw quality events and in periods of drought. Outcomes of studies may vary infrastructure response.

One additional filter will be required to service the projected 2039 MDD and as well as growth beyond 2039. The additional filter will be similar to the existing filters, and will increase the filtration capacity by 4 ML/d.