North Richmond Wastewater Treatment Plant Report

Name of wastewater treatment plant	North Richmond Wastewater Treatment Plant

System Summary	Projected				
	2026	**2031**	**2036**	**2046**	**2056**
North Richmond catchment ADWF (ML/d)	1.5	1.7	1.8	1.8	1.8
North Richmond load (EP$_{COD}$)	9,301	10,682	11,520	11,534	11,542

Treatment capacity constraints for 2022 – 2036	Estimated year of exceedance
North Richmond WWTP design capacity of 1.3 ML/d forecast to be exceeded.	2020/21

Summary of servicing strategy for 2022 – 2036
Due to capacity constraints and asset condition issues, the preferred servicing strategy is to decommission North Richmond WWTP and transfer all flows to Richmond WWTP. Richmond WWTP will be upgraded and amplified to serve the current loads and growth from both Richmond and North Richmond catchment and to improve effluent quality outcomes.

Anticipated augmentation and upgrades for 2020 – 2030			
Year commissioned	**Description**	**Approximate capital cost ($M)**	**Impact on servicing capacity**
2025	At north Richmond A sewage transfer pumping station at North Richmond, transfer pipeline from North Richmond to Richmond and improvements to sewer network. At Richmond Conversion of existing two IDALs to sequential batch reactors (SBR) augmented with two additional SBRs, solids treatment in existing lagoons, sewer network improvements	156M**	Service growth in Richmond and North Richmond catchments to 2046

**combined cost for Richmond and north Richmond- allocated and approved funding for the project

Further investigations
Upgrade project in Detailed design and delivery phase. Servicing of new growth areas in Richmond or North Richmond not included in the current growth projections will require additional infrastructure and funding.

Date published: 30 June 2023