

Upper South Creek Advanced Water Recycling Centre Report

| Name of wastewater treatment plant | Upper South Creek Advanced Water Recycling Centre |
|------------------------------------|---|

| System Summary | Projected | | | |
|--|-----------|---------|---------|---------|
| System Summary | 2021 | 2026 | 2036 | 2046 |
| Upper South Creek AWRC ADWF (ML/d) | N/A | 17.0 | 46.0 | 71.0 |
| Upper South Creek AWRC load (EP _{COD}) | N/A | 112,000 | 306,000 | 473,000 |

| Treatment capacity constraints for 2022 – 2036 | Estimated year of exceedance | |
|---|------------------------------|--|
| No existing dedicated wastewater treatment facility. Existing interim servicing | 2026 | |
| schemes will be exceeded by 2026. | 2020 | |

Summary of servicing strategy for 2022 – 2036

Existing growth wastewater catchments are being serviced by interim servicing at Liverpool and West Camden WRP's. It is forecast that interim servicing at these plants will need to cease in 2026 to ensure servicing capacity is available for their dedicated catchments. A new treatment facility to be online now to receive the interim serviced flows and provide ongoing dedicated treatment to those catchment and other adjacent growth catchments.

Treated effluent is proposed to be transferred to the Nepean River for disposal. To manage environmental impact, advanced treated is proposed to facilitate very low nutrient contribution to the river. Brine from reverse osmosis process will be discharged to the Malabar System at Liverpool, for ocean discharge via Malabar WWTP.

| Anticipated augmentation and upgrades for 2020 – 2030 | | | | | |
|---|---|--------------------------------|--|--|--|
| Year commissioned | Description | Approximate capital cost (\$M) | Impact on servicing capacity | | |
| 2024 | Advanced wastewater treatment facility; effluent transfer scheme to Nepean River; brine disposal transfer to Liverpool. | 81.5 | Servicing for interim serviced population at existing facilities | | |
| 2032 | Advanced wastewater treatment facility; effluent transfer scheme to Nepean River; brine disposal transfer to Liverpool. | 918 | future population beyond 2030. | | |

| Further investigations | |
|------------------------------------|--|
| Currently in Concept Design phase. | |

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