

## SUNBURY RECYCLED WATER PLANT UPGRADE



### Project Synopsis

- Upgrading existing plant from 5.9ML/d (10mg/L TN) to 9.2ML/d (7mg/L TN)
- Provide Class B recycled water to customers
- Brownfields
- Dig, Lay & Backfill pipe (0.1 – 1.1m) including GRP, PE, PVC, SS
- MBR Tank
- Inlet Works
- Odour Control
- Chemical Dosing
- Centrifuge
- Generator
- Switchroom
- UV
- Outfall Structure
- Concrete Remediation
- Epoxy Coating

**Client:** Downer/Western Water

**Location:** Sunbury, VIC

**Year:** 2016-2018

**Value:** \$26.9M + \$24M (Ops)

Downer Utilities was awarded the Sunbury Recycled Water Plant (SRWP) Upgrade by Western Water. The project involved the construction of the new upgrade to cater for population growth in the area and operation of the plant for ten years.

Novel Group was engaged to project manage the construction of the SRWP Upgrade.

The project involved:

- Upgrading the existing plant from 5.9ML/d (10mg/L TN) to 9.2ML/d (7mg/L TN) effluent
- Dig, lay & backfill of large diameter (100-1100mm) gravity pipes in a brownfields environment using multiple type materials (PE, PVC, GRP, SS)
- Construction of new MBR tank, Inlet works, Odour Control Facility, Chemical dosing, Dewatering, Generator, Switchroom, UV and Outfall structure
- Repurposing the existing tanks involving concrete remediation and epoxy
- Installation of new equipment including membranes, UV, Odour Control, Chemical dosing skids, Screens, Blowers, Centrifuge, Weirs/Decanters, Diffusers, pumps, mixers, generators, instrumentation and switchboards.