

# John Gilbert WTP

## Water Treatment Plant Upgrade

### Key Elements

- Upgrade WTP to 80 ML/d including new chemical dosing, filters & clarifier
- Largest NSW lime/soda softening plant
- Repurposing of existing plant
- No disruption to water supply during construction



New 50 ML/d clarifier

### Background

Dubbo City Council operated the 30 ML/d John Gilbert Water Treatment Plant, commissioned in 1981. Council was required to increase their water production to cater for increasing population, and improve the overall quality of the drinking water produced.

### Project Scope

The existing WTP was to be upgraded from 30ML/d to 80 ML/d, and have a number of process improvements implemented. The upgraded WTP would include aeration, PAC dosing, softening, clarification, filtration, and chlorine and fluoride dosing. The upgraded plant would be fully automated.

### Our Role

Following on from the previously completed Options Study, Water Services were engaged to complete a Concept Design, HAZOP Workshop, Specification, Tender Evaluation, Technical Advice, and Commissioning for the new WTP.

### Outcomes

The design of the WTP included a number of innovative measures to improve operations and reduce costs. The WTP upgrade was successfully completed to the satisfaction of the client and the community and commissioned without disrupting water supply to Dubbo residents.



New 80 ML/d Filters

Location: **Dubbo, NSW**  
Client: **Dubbo City Council**  
Project Description: **Softening WTP Upgrade to 80 ML/d**  
Total Project Value: **\$ 20 M**  
Consultancy Fees: **\$ 1.5 M**  
Year Completed: **2007**

## Water Services

### Principal Engineer

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