



DALBY CLASS A+ WATER RECYCLING PLANT

Water Infrastructure Group designed and built a \$2.4 million Class A+ water recycling plant as part of the Stage 1 upgrade of Dalby Wastewater Treatment Plant for Dalby Regional Council in Queensland.

Project Drivers

The Western Downs Region of south east Queensland has had below average rainfall for 13 years and in November 2009 Dalby residents moved to Level 5 water restrictions.

Our Solution

Water Infrastructure Group designed and built the 1.0 ML/d membrane water recycling plant, which will supply Class A+ recycled water as a substitute for potable water currently used to irrigate open space at schools, a race track, golf course and sports fields. Importantly, the plant will also supply a bio refinery that currently uses around 25% of the town's potable water. The bio refinery produces ethanol from sorghum crops that is used as an alternative fuel source.

In the future, Dalby Regional Council will install an additional 1.0 ML/d process train, increasing the plant capacity to 2.0 ML/d.

CLIENT

Western Downs Regional Council

LOCATION

Queensland

VALUE

\$2.4 million

CONTRACT

Design & Construct (AS4300 Contract)

COMPLETION

Practical Completion 31 March 2010



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Technology

Design, manufacture, supply, install, construct, test and commission the civil, mechanical, electrical and control works for the following:

- Plant building suitable for 2 ML/day upgrade
- Flow diversion box and pipe work
- Clarified effluent pumping system
- Submerged ultrafiltration plant including all necessary ancillary equipment, such as automatic strainers, blowers, compressors, clean-in-place (CIP) chemical cleaning system, chemical waste neutralisation and return system, backwash tank and return system, hot water Mechanical ventilation for new building including acoustic louvres
- Chlorine contact tank and transfer pumping system
- Chemical storage and dosing equipment
- Switchboard
- Electrical and control systems
- Connections to existing council assets
- Commissioning, proof running and operator training
- Operation and Maintenance Manuals
- As Built documentation

Delivery Timeline

40 weeks

Client Contact

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