

Hunter H2O can help with...

- Wastewater treatment plant troubleshooting and process optimisation to improve performance, effluent quality and reduce costs,
- Assessment of plant capacity and capability to inform capital planning decisions,
- Options assessment and concept designs for augmentation or replacement,
- Recycled water management plans, biosolids management strategies and compliance.

Our Team

Our people are the leading specialists in the water industry with the experience to assist with every water, wastewater, industrial water and recycled water treatment issue. Our team has the all the specialists you need to deliver any wastewater project from conception to commissioning.

Our Approach

We believe that the best outcomes are realised by working in partnership with our clients. By working collaboratively, our team share knowledge with your team and work to support and develop your ongoing business operations. At Hunter H2O we provide a 'local feeling' combined with international professionalism and expertise for all your wastewater needs. We deliver practical, reliable and innovative solutions to secure long lasting cooperative relationships with you.

Key Projects

Mt St John BNR Purification Plant

We recognise the value that can be delivered by supporting a project through all stages of project delivery. Our project team was involved in all phases of delivery of Townsville City Council's (TCC) 106,500 EP Mt St John Biological Nutrient Removal (BNR) Wastewater Purification Plant. Our project work included initial planning, licence negotiation, process optioneering, process and mechanical design. Hunter H2O designers led the plant commissioning, resulting in a smooth transition from construction to operations and our team continued to support operational optimisation and troubleshooting via remote SCADA access.

The St John BNR Purification Plant upgrade includes a 5-Stage Bardenpho configured oxidation ditch with diffused aeration, UV disinfection, aerobic sludge digestion and dewatering. The plant operates the majority of the time without chemical supplementation, saving TCC in the order of \$450k per year.

Option Assessment and Concept Design Farley WWTW Upgrade

In undertaking concept designs our team are conscious of the fact that we are developing assets which needs to achieve both environmental and operational performance requirements. We pride ourselves on enabling clients to get the most out of their existing infrastructure and assets.

Farley WWTW is located in one of the fastest-growing urban development areas in the NSW lower Hunter region with population projected to increase by over 70% to 62,000 EP by 2031.

Hunter H2O was engaged to identify the preferred option for upgrading the existing carousel-style treatment plant. In developing the upgrade options, our team were mindful of making best use of the available site assets and the operational need to maintain treatment capacity throughout construction. The proposed upgrade will see the construction of a new BNR reactor incorporating membrane bioreactor technology to provide helminth control and meet effluent nitrogen and phosphorus targets. The existing carousel reactor will be rehabilitated and reconfigured to an aerobic digester that will provide Grade B stabilised biosolids.



Wastewater Treatment Specialists

Talk to us

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OFFICE LOCATIONS

NEWCASTLE
SYDNEY
BRISBANE
ADELAIDE
SUVA, FIJI