

Alligator Creek chlorine dosing system

(Reference site only)



Design, construct, install and commission a gas chlorination building for Mackay Regional Council at Alligator Creek potable water booster station



TRILITY designed, supplied and installed a pre-fabricated, dual-room chlorine dosing module complete with internal electrical and plumbing fit out including commissioning, testing, proving and operator training.



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Converting from sodium hypochlorite dosing to gaseous chlorine dosing, to provide increased consistency of disinfection and to reduce disinfection by-products.

Mackay Regional Council (MRC) wanted to replace the existing sodium hypochlorite system at Alligator Creek with a gas chlorination system to provide increased consistency of disinfection and to reduce disinfection by-products.

MRC appointed TRILITY to supply and install a pre-fabricated, dual-room insulated module complete with internal electrical and plumbing fit out. TRILITY designed and built a complete stand-alone chlorine gas dosing system in a modular building off-site at our workshop facilities in Yatala, South East Queensland.

The system included chlorine analysers, a sample water recovery tank and reinjection system to eliminate water wastage from the water quality instrumentation. The system was fully manufactured and tested off-site in a controlled workshop environment prior to being shipped and installed at site. It also allowed the new system to run in parallel with the old one until changeover. This considerably reduced on-site time and travel costs for the economic benefit of the client.

The project delivered an appropriately-sized chlorine dosing system to meet the Council's requirements and included commissioning, testing, proving and operator training.



Who

Mackay Regional Council supplies water to more than 41,750 residential connections and 3496 commercial and industrial connections. To do this the council manages two water treatment plants and 11 smaller water treatment facilities along with numerous sewage treatment plants, pump stations and over 1,000km of water mains.

What

TRILITY designed, supplied and installed a pre-fabricated, dual-room insulated module complete with internal electrical and plumbing fit out. On completion of the new system, the existing sodium hypochlorite system was decommissioned.

Where

Mackay, Queensland.

Why

The Council wanted to convert from sodium hypochlorite dosing to gaseous chlorine dosing, to provide increased consistency of disinfection and to reduce disinfection by-products.

Snapshot

Client	Mackay Regional Council
Type of Contract	Design and construction, using a modular solution
Facilities	Chlorine gas building
Technology	Disinfection
Design Capacity	4.468 ML/d