



Client: Aquatec Maxcon provided all mechanical works for the complete water treatment plant Coffs Harbour which comprised of the following main elements:

City

Council

Location:

Coffs Harbour, New South Wales

Service:

Water treatment

Capacity:

42 ML/d

Value:

AUD \$11.5 M

Problems:

- Inlet works from Karangi Dam including raw water pump station and surge vessel.
- Pre treatment equipment for Mn oxidation contact tank, PAC contact tank and flash mixer stages.
- Flocculation mixing equipment.
- Dissolved Air Flotation/Filtration (DAFF) equipment (3 train system) including recycle pumping, saturation and dispersion system, float skimmers, filter media, plenum underdrains, backwash and air scour systems.
- Ultraviolet disinfection system, in pipe reactor design.
- Treated water pump station.
- Wastewater handling system including washwater balance tank, gravity sludge thickener and centrifuge mechanical dewatering.
- Service water and compressed air ancillary systems.
- Chemical storage and dosing systems for hydrated lime, CO₂, PAC, alum, coagulant aid, filter aid, caustic soda and potassium permanganate.
- Fluoridation and chlorination systems.

Other related projects:

Water supply essential untreated (stabilisation)

- Mt Beauty DAFF WTP (2010) design and construct
- bcaa Enoggera DAF WTP(2008) upgrade project.

n and disinfection only) and not consistently meeting ADWG. *Giardia/Cryptosporidium* contamination risk.

- Kalkie DAFF WTP (2007) design and construct
- Ararat DAFF WTP Grampians Water (2000), 200 L/s
- Corowa DAFF WTP Corowa Shire Council (2002), 200 L/s

Solutions:

Full conventional water treatment plant with multiple barrier pathogen protection.

Benefits:

Reliable supply of high quality drinking water to consumers.

Products:

Full con
vention
al treat
ment
plant eq
uipment
from
raw
water
pump
station
to
treated
water d
elivery.

**Comple
tion
Date:**

June
2009

**Contact
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