

Client: Aquatec Maxcon provided a design & construct solution for this project.

Central

Highlands
The upgraded Avoca WTP consists of the following main elements:

Water

Location:

Avoca,
Victoria

Service:

Water treatment

Value:

AUD
\$2.5 M

Problems:

Plant upgrade for township

Solutions:

Containerised

RO system
Aquatec Maxcon provided a high rate lamellae system, a containerised RO system to treat a blend of bore and surface waters to ensure

- Powder activated carbon dosing (existing equipment)
- Pre caustic soda dosing (pH/alkalinity adjustment, if required)
- Pre chlorine dosing (Fe oxidation, if required)
- Alum dosing (coagulation)
- Flash mixing chamber
- Flocculation chamber
- Lamella type clarifier
- Pressure sand filters, self backwashing (existing equipment)
- Filtered water pump tank (existing equipment)
- Post filtration ammonia dosing
- Filtered water tank, 150 m3
- Salt reduction plant and associated ancillary and chemical dosing equipment
- Permeate tank
- Post ammonia dosing (chloramination disinfection)
- Post chlorine dosing (chloramination disinfection)
- Post caustic soda dosing (pH)
- Clear water storage, 5 ML (existing system)
- Waste water handling, sludge drying lagoons and supernatant return equipment (existing equipment)

Benefit that target water quality parameters were met.

S:

Other related projects:

Reliable
supply
oftowns
water

- Mt Beauty (2010), 2.7 ML/d design capacity
- Coffs Harbour DAFF plant (2009) ,42 ML/d design capacity

Product:

Lamella
e, Mem
branes

- Ararat DAFF WTP Grampians Water (2000), 200 L/s
- Halls Gap DAFF WTP Grampians Water (2000), 45 L/s
- Corowa DAFF WTP Corowa Shire Council (2002), 200 L/s
- Lockington DAFF WTP Coliban Water (2003), 12 L/s

Completion

Date:

Decemb
er 2010

Contact
:

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