



Client: Aquatec Maxcon provided all materials and labour for removal and replacement of the filter media to Module #1 and Module #2 filter banks (total 32 filter cells). The project comprised the following main elements:

Location:

Townsville, Queensland

- Isolation of filter bank and draining of filter cells.
- Dismantling of connecting pipework and clearing of top access to filter cells.
- Removal of existing filter media and gravel by use of vacuum sucker truck.

Service:

Water treatment

- Disposal of existing filter media and gravel.
- Flushing of existing filter floor channels and lateral system.
- Filter cell internal wall inspection and rendering works as required.

Capacity:

80 ML/d

- Loading of new filter gravel support and filter sand layers.
- Rinsing, backwashing and surface scraping operations to condition the filter bed for service.

Value:

AUD \$1.0 M

- Disinfection of filter bed according to AWWA C 653-03 guidelines.
- Return of filter cells to service and system commissioning.

Problems:

Other related projects:

Filter media clogging and mudballing, filtered water quality, short

- Gympie WTP (2010) filter underdrain and media replacement
- Seqwater filter media replacement program for 10 water treatment plants (2009-2011)
- Coffs Harbour DAFF plant (2009) ,42 ML/d design capacity
- Kalkie WTP (2007) upgrade to dual

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media filtration, 200 L/s

- 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

**Solutio
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and
replace
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**Benefit
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Longer
filter run
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quality,
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**Produc
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Filter
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AWWA
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cation
plus
gravel
to
support
layers.

**Comple
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Date:

Decemb
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Contact

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Aquatec
Maxcon