CLIENT:
Coffs Harbour Alliance

LOCATION:
Coffs Harbour, NSW

SERVICE:
Water Reclamation Plant

CAPACITY:
18,000 EP

PRODUCT:
SBR

COMPLETION DATE:
2005

CONTACT:
Karl Naumann

PROJECT ACHIEVEMENT:
Winner of the 2005 NSW
Earth Case Award

Woolgoolga Water Reclamation Plant

Aquatec Maxcon was selected to provide the mechanical components for the Woolgoolga Water Reclamation Plant as part of an Alliance Team.

The Woolgoolga STP upgrade involved the design of a new 9000 EP SBR compartmentalised system with innovative tertiary cloth disc filtration and disinfection to bring the plant capacity up to 18,000 EP.

The project included both UV disinfection for water release to the adjacent Marine Park, but also included chlorination to provide biological security for water delivered to a major water re-use pipeline that now runs the full length of the Shire. As a result, this plant has been able to achieve almost 100% re-use since its commissioning.

Upgrade of the Woolgoolga WRP to 18,000 EP included the following:

- Inlet works upgrade with 3mm step screen
- Secondary treatment process upgrade with two (2) SBR tanks using AquaStar Surface Aerators and AquaDecanter
- Disinfection
- Filtration with rotating disk filters
- Reclaimed water storage and pumping.

The majority of construction activity was on Woolgoolga WRP which was situated within a residential area, with Woolgoolga WRP immediately adjacent to Solitary Island Marine Park and bounded by wetlands. A modified watercourse ran through the centre of the site and connected to Willis Creek in the wetlands.

Due to the establishment of a high performing integrated team and innovative achievements, the WRP Alliance delivered on all stakeholders expectations with zero environmental or safety incidents.

The Coffs Harbour City Council expressed their immense satisfaction with the delivery of a robust and operator friendly plant.

"…we would certainly do it all again." (Geoff Newton CHCC 2004)

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