

CASE STUDY

PROJECT POTABLE WATER FOR COAL SEAM GAS PROJECT CONSTRUCTION CAMP

PRODUCT Ultrafiltration (UF)

INDUSTRY Oil and Gas

LOCATION Combabula, Queensland



BACKGROUND

The Combabula Gas Processing Facility (GPF) and Village is located three hours north-west of Roma, QLD and is part of the Australia Pacific LNG upstream gas processing pipeline. The project included construction offices, a 200 person village (phase 1) and a 350 person village (phase 2), with administration and support buildings.

MAK Water was contracted to design, manufacture and commission a customised 550EP potable water treatment plant to treat bore water for compliance with Australian Drinking Water Guidelines (ADWG). The client was looking for a fully automated, low maintenance system with online monitoring, suitable for such a remote location.

SOLUTION

- Custom design and manufacture of 165 m³/day containerised Ultrafiltration (UF) plant
- Continuous recirculation of the contents of the six potable water tanks with online monitoring of free chlorine and automated dosing to maintain compliance with ADWG
- Containerised with insulation and duty standby air conditioning to avoid heat degradation of sodium hypochlorite
- Self-contained equipment with protection from the harsh environment and including safety shower and eyewash station
- Plant powered by a combination of solar power and diesel generators
- Premium instrumentation with turbidity transmitter, online alarms and remote monitoring
- Flow totaliser to record daily water consumption
- On site commissioning and training of local operators with ongoing service and maintenance provided



Custom design and manufacture of a 165 m³/day containerised Ultrafiltration (UF) plant

RESULTS AND BENEFITS

- **Low Maintenance.** High level of automation and online monitoring to improve reliability.
- **Turnkey solution.** Custom “fit for purpose” design in a durable prefabricated containerised system.
- **Compliance.** Ensures compliance with ADWG.



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