

CLIENT:

Abigroup Contractors

LOCATION:

Coomababah, QLD

SERVICE:

Anaerobic Sludge
Stabilisation

CAPACITY:

426m³/day

CONTACT:

Peter Ferrando

ISSUES:

Recycle pump design requirement of 5% solids which wasn't reached in reality causing pipework vibration

SOLUTIONS:

Change out all 4 pumps to volute impeller and less head in design

BENEFITS:

Operator friendly, small footprint

PRODUCT:

WAS

COMPLETION DATE:

December, 2012

Coomababah Digesters

Aquatec Maxcon provided the project management, design, documentation, supply, delivery to site, safety, installation including pre-commissioning testing, on-site mechanical and electro-mechanical commissioning, on-site process commissioning assistance, operational and maintenance training, manuals and maintenance during the defects liability period of the mechanical components of the anaerobic sludge digester system.

Works included:

- 2 primary digesters (Digesters 2 & 3 – each 23m diameter x 12.7 m side water depth):
 - Floating roof with 1.5m vertical travel including ballast weights and access ramps.
 - Water seal trough with automatic water level top up.
 - Adjustable standpipes and stainless steel weir plate in the sludge outlet chamber.
 - Sequential gas lance sludge mixing system including gas compressors.
- Digester roof access:
 - 1 platform linking the outlet chambers of the digesters.
 - 1 access stairways for each digester.
 - 4 floating roof access ways (1 to each stairway and 1 to each outlet chamber).
- Sludge heating system.
- All interconnecting valves, pipework and pipe supports for all fluids and gasses.
- All necessary instrumentation.
- All safety equipment, safety signage and line marking.

