



## Trility Group

### Agnes Water Desalination Plant

**Background:**

The Gladstone Regional Council (GRC) installed a Reverse Osmosis Desalination Plant in Agnes Water to supplement their borehole supply of potable water for the growing town. United Utilities, now known as the Trility Group, were contracted to install and operate the plant on the behalf of the GRC.

Welcon Technologies were sub-contracted by Trility for the balance of plant electrical design including:

- Design of the main power supply to the plant as well as the power supply to the sea water intake pump station, including transformers, LV switchboards and associated control and communication equipment.
- External field instrument design and preparation of the functional specification of the plant operations.
- SCADA programming, intake pump station PLC programming, site services PLC programming as well as the site commissioning.

Project Specifics	
Client	Trility Group
Location	Agnes Water, QLD
Year Completed	2013
Size / Quantities	Plant Capacity (potable water): 2,000 m <sup>3</sup> /day Reverse Osmosis Capacity: 1,500 m <sup>3</sup> /day, Bore Water Filtration Capacity: 500 m <sup>3</sup> /day
Services Provided	<ul style="list-style-type: none"> <li>• High Voltage Power Supply Design</li> <li>• Seawater Intake Pump Station Power &amp; Control Design</li> <li>• Field Instrumentation Design</li> <li>• Site Services PLC Design</li> <li>• Communications System Design</li> <li>• SCADA Functional Specification</li> <li>• PLC and SCADA Programming</li> <li>• Site Commissioning of Control System</li> </ul>
Delivery Method	Electrical Engineering Consultant