

Case Study Water Tank 105kL Water Storage Unit, Tjirrkali Community

ABCO Water Systems was contracted to supply a complete water storage and pumping system for the Tjirrkali Aboriginal Community in the Shire of Ngaanyatjarraku, Western Australia, through the Department of Housing in WA.

This is a unit manufactured by ABCO Water Systems and is fully manufactured and tested in our Kelmscott workshops prior to transport direct to site. We manufacture in our own mould a fully engineered fibreglass unit 3,300 mm in diameter by whatever length the client requires, while still being able to be road transported throughout Australia. In this case, the unit was 14.4 metres long, allowing 12.4 metres as water storage and 2.0 metres for the air conditioned control room containing water pumping and sterilisation equipment. The client representatives inspected the completed system in our factory, and after acceptance and testing, it was loaded and transported direct to site using a tilt tray. This allowed the unit to be unloaded into position without the need for a crane to be sent to this remote site.

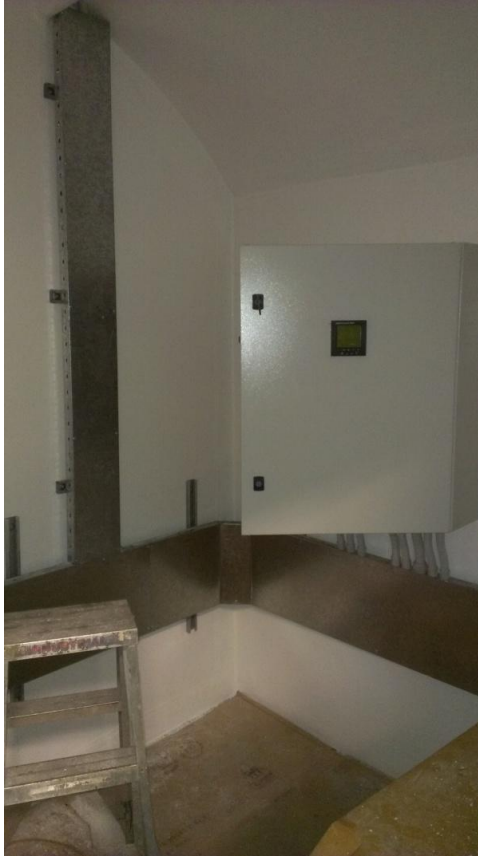
The system was as required by the client and contains the following features:

- All the internal of the fibreglass tank unit was coated with black flow coat ensuring no algae growth in the water
- A ladder and handrail set were installed to ensure safe access at all times
- A swivel crane divot was installed so that safe access for confined entry was available if required
- The installed control panel was designed and built in-house to provide connection for pumps and all sterilisation equipment
- The control room was fully air conditioned using a split system. All was designed to be lockable and vandal proofed to suit the location

ABCO Water Systems did not attend site. The installation was coordinated by the tilt tray truck driver with directions from the client representative. Connection of the power and the water supply was handled by Kimberley contractors.

Pump Specifications			
Model	GHV20/5SV04F005	Make	Lowara
	T/M		
No. Of Pumps		2	
Speed (rpm)		2900 rpm	
Number of Stages		4	
Max. Working Pressure		44.1 psi	
Flow Nominal		0.8 l/s	
Head Nominal		29.1 m	
Motor Size		0.55 kW	
Frequency Converter		Hydrovar	
Antiscalant		SPE0111	
Dosing Rate		3grams/hr	
Dilution Rate		50:1	





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