# MANNUM LOW LEVEL PUMP STATION

## Project Description

Due to the low water levels in the Murray River, the main pumps that feed Adelaide from Mannum are beginning to cavitate. As a precaution, the client contracted out the design and construction of a low level pump station which pumps water from deeper in the river to the suction point of the existing pumps. Eco Connection was subcontracted to complete all electrical design, controls and installation.

## Project Achievements

The client was extremely happy with the quality of both the design and the installation.

The installation operated as per the functional requirements. Eco Connection was praised for our installation, which was reflected in the defects and punch list having zero electrical items. WEG motors and drives stated that it was the best VSD installation that they had seen in Australia and have asked Eco Connection to provide installation services to them in the future.

## Scope of Work

Eco Connection's scope was to manage the electrical design and installation components of the project. This involved managing the design and approvals phases of Switchboards, Control systems, SCADA interface and the Functional description of control philosophy prior to beginning manufacture and installation. Manufacture of the switchboard and control panels prior to Factory acceptance testing and shipment to site. Site installation included installation of a new switchroom, ETSA transformer, consumer mains to the new 1600A switchboard, installation of vendor supplied WEG VSD's (four of), field cable ladder and underground conduit works, field power distribution and instrumentation cabling. The plant was fully commissioned and the process tuned by Eco Connection.

## PROJECT SPECS

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| **Status** | Complete |
| **Dates** | September 07 to April 08 |
| **Location** | Mannum, South Australia |
| **Contract Type** | Lump Sum |
| **Discipline** | Electrical / Controls / Instrumentation |
| **Budget** | $400k |
| **Safety Incidents** | 0 |
| **Environmental Incidents** | 0 |