

Lower Nihotupu Pump Station Main Switchboard Replacement

Project: Lower Nihotupu Pump Station Main Switchboard Replacement

Client: Watercare Services Limited

Location: Waitakere

Contract Value: NZ\$163,000

Lower Nihotupu Dam, located in the Waitakere Ranges is an earth dam as opposed to a concrete dam. The Dam was completed in 1948, and has a lake area of 52.9 hectares and a capacity of 4.6 million cubic metres.

The project scope included the installation of a replacement main switchboard at the Lower Nihotupu Pump Station, replacement of all motor cables and replacement of building services wiring including a new Distribution board and the reconnection of all control cables. A temporary overhead line was provided to supply power to the valve tower control panel to allow isolation of pump station from Huia Filter Station.

Electrix were commissioned to install all relevant cabling to pump motors, building services wiring, diversion tunnel wiring and fibre optic installation. All final terminations to mains and control cables were carried out and testing completed and documented for handover to client.

Electrix employed Tunnel & Civil Limited and Sharp Communications as subcontractors and utilised the Transmission Lines Service Division to install an overhead line to supply temporary power to control cabinets. The project took 5 months from start to completion and had a staff of 4 on site.

Key points to the success of the project were liaising successfully with subcontractors and assisting in the design of the installation with the Watercare's Representative. The installation of a temporary overhead line to allow isolation of the pumping station. Electrix teams ability to coordinate successfully with other trades, to meet critical programme deadlines and work through numerous design changes.

Electrix successfully met all challenges and delivered a high quality installation with an exemplary onsite safety record.



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