

KURANDA SUBURBAN WATER SECURITY UPGRADE D&C RESERVOIRS AT PLATYPUS CLOSE & HILLTOP CLOSE – MSC2016-13



fgf Developments were awarded the design and construction of the Warril Drive booster pump station, Platypus Close 500kL reservoir and the Hilltop Close 500kL reservoir.

The scope of works involved:

- Warril Drive Pump Station
 - Access Track and Earthworks
 - Relocation of Power Meter
 - Construction of Pump house, installation of pump set and associated pipe work and valve Pit
 - Installation of Switchboards, controls and instrumentation
 - Pressure Transmitter
 - Live cut-in to existing water main
 - Integration of pump station into MSC Scada System
 - Decommissioning and Demolition of Existing Booster Pump Station and Pipework

- Platypus Close Reservoir
 - Installation of gravel access track
 - Earthworks to site
 - Detailed Excavation for concrete foundation
 - Construction of new Concrete Tank (500kL working) including new roof, ventilation, access platform and hatch, ladders
 - Supply and Install of all pipework and instrumentation including bi-directional flow meter and level transducer.
 - Installation of new Switchboard and Telemetry including Ergon Meters, Distribution board and telemetry and instrumentation controls
 - Testing, Commissioning and integration of new reservoir into MSC Scada System.



Unit 5, 2 James Street
North Cairns, QLD 4870

PO Box 6665 Cairns, 4870

T: (07) 4041-4350

Fax: (07) 4041-4969

E: fgfdev@fgf.com.au

ABN 67102 951 039

Location:

Warril Drive, Hilltop
Close & Platypus Close
Kuranda

Client:

Mareeba Shire Council

Design Engineers:

Aurecon

Duration:

February 2017 –
September 2017

KURANDA SUBURBAN WATER SECURITY UPGRADE D&C RESERVOIRS AT PLATYPUS CLOSE & HILLTOP CLOSE – MSC2016-13



- Hilltop Close Reservoir
 - Installation of gravel access track
 - Decommissioning and Demolition of Existing Concrete Tank
 - Earthworks to site including detailed excavation for tank concrete foundation
 - Design, Supply and Installation of new Glass-Fused Steel Tank (500kL working) including new roof, ventilation, access platform and hatch and ladders.
 - Inlet/Outlet pipe works, associated instrumentation (bi-directional flow meter and level transducer), power and telemetry
 - Testing and Commissioning and integration of new reservoir into MSC Scada System.

Project opportunities and challenges included:

- Project complexity - challenging construction program, coordination with multiple other trades packages including and supply times.
- Proactive relationship management with many stakeholders and community liaison.
- Interaction with wildlife on site. Troublesome Cassowary at the Platypus Close Reservoir site.
- A number of live cut-ins carried out in conjunction with Mareeba Shire Council Operations personnel.



Unit 5, 2 James Street
North Cairns, QLD 4870

PO Box 6665 Cairns, 4870

T: (07) 4041-4350

Fax: (07) 4041-4969

E: fgfdev@fgf.com.au

ABN 67102 951 039

Location:

Warril Drive, Hilltop
Close & Platypus Close
Kuranda

Client:

Mareeba Shire Council

Design Engineers:

Aurecon

Value:

\$1.3M

Duration:

February 2017 –
September 2017

Referee

Morris Hamill
0407 675 907