

KURANDA WATER SUPPLY DESIGN & CONSTRUCTION OF RESERVOIR - TMSC2014 – 23



fgf's Civil Construction Division completed the following works associated with the design and construction of one 1ML reservoir including roof structures and electrical and telemetry equipment (as per existing Council infrastructure) required with Councils SCADA network;

- Design and construct new reservoir and roof structure
- The supply and installation of ancillary items such as hatches, guttering and flashing etc.
- Internal and external access ladders with stainless steel ladder. Stainless steel cage to external ladder only
- Valve boxes with aluminum check plate covers and stainless steel fittings and flush non-trip handles
- All pipework and fittings necessary for the construction of inlet, outlet, overflow and scour structures to a point of connection outside the reservoir. Inlet must finish 50mm minimum inside reservoir wall with a flange to couple float valve assembly.
- The supply, manufacture, delivery and installation associated with the above, and the provision of all labour, transport, equipment, materials and all other things necessary to satisfactorily complete the works
- Electrical and telemetry equipment as per existing Council infrastructure required to interface with Councils SCADA network
- Security fencing as per existing to be extended to secure the new reservoir
- Provide and install Mag flow meters to the existing water mains leaving the reservoirs – flow meters to be connected to Councils telemetry network
- Pipework from the reservoirs to the existing main to be valved so to allow each reservoir to be isolated for maintenance works.
- Plan and implement Erosion and Sediment Control measures



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Location:

Myola Road, Kuranda

Client:

Mareeba Shire Council

Design Engineers:

Aurecon

Duration:

Jan 2015 – Sept 2015

PROJECT SHEET



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Project opportunities and challenges included:

- Project complexity (challenging construction program, wet season works, coordination with other trades packages and supply times)
- Live connection to existing 450mm water main with limited night-time window available
- Proactive relationship management with many stakeholders

This project delivered security of water supply to 60% of Kuranda's population along with the visiting tourists presently serviced by the Myola Road Reservoir, where there was previously a shortfall.

The construction of the reservoir created employment for 24 full time positions directly and will indirectly support more than 370 full time positions.



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