

NON-PROCESS WATER INFRASTRUCTURE





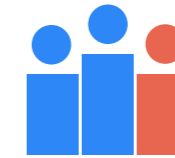
ABOUT US

Pensar offers insightful, original design thinking, implemented by a team with proven expertise to deliver flexible fit-for-purpose critical infrastructure solutions. We design and realise infrastructure solutions for a range of industry segments, providing a broad spectrum of technical capabilities to serve the diverse needs across a range of industry sectors, from bulk water supply authorities and water utilities to regional councils.

With a unique combination of dependable technical skills and proven experience, our clients can choose to draw on one or many of these capabilities according to their project requirements across process water infrastructure, non-process water infrastructure, specialist infrastructure, infrastructure rehabilitation and electrical infrastructure. This provides our clients with the benefits of streamlined project planning, cost-effective delivery and the seamless Pensar experience.

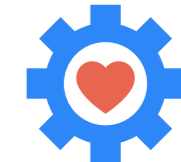


OUR GUIDING PRINCIPLES



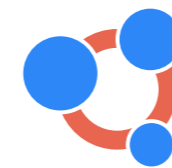
People are everything

We **value diversity and inclusion** and strive for the power of collective wisdom by encouraging individual competition, but not at the expense of a strong team. We **reward on merit** while seeking out people prepared to **engage ethically and responsibly** with the skills and imagination to aspire to reach the highest levels.



Doing the right thing

Doing the right thing is an **individual priority** and a **collective imperative**. We behave ethically and responsibly when faced with tough decisions about the **sustainability of our environment, the health and wellbeing of our people and our communities, and the safety of our work sites.**



Relationships matter

Relationships are built on trust and collaboration. We recognise the **power of partnerships** that put the **project first** and are **solutions focused**. We adhere to the principle of no surprises and the rule of producer/leader/manager to ensure our key people are always close to the action.



Bias for action

We have a bias for action, reinforced by **radical transparency and truth**. We make a powerful commitment to every project and **hold ourselves accountable** to get the job done. We will never be afraid to act when faced with uncertainty and recognise the critical importance of timely, **informed decision making.**



Always improving

We are always improving. Not to be the biggest but to be the best through **constant innovation** and **continuous improvement** of ourselves, our systems and our work practices and methods. We deliberately **engage a growth mindset** that embraces change, accepts mistakes and learns from them, says no to what is not working and **strives for excellence.**



OUR CAPABILITIES

Our expertise in non-process water infrastructure enables us to provide solutions for a diverse range of industry sectors, from bulk water supply authorities and water utilities to regional councils.

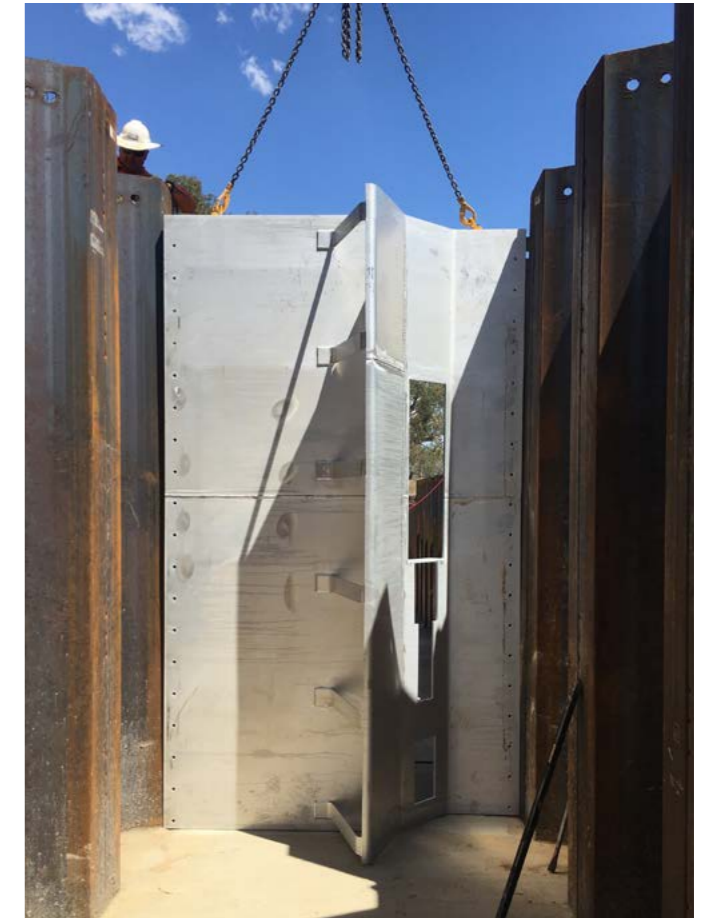
Our teams have the technical knowledge to deliver complex projects, working with clients to refine the design, delivering the best solution for each project.

Pensar has built a reputation for tackling challenging projects and working in remote locations. We deliver water security solutions for infrastructure constructions and upgrades, ensuring that each project delivered is suitable for its application, region and surrounding environment.

Our key delivery capabilities include dams, weirs, fishways, pump stations, pipelines and reservoirs.

Key capabilities

- Pump Stations
- Pipelines
- Reservoirs
- Fishways
- Weirs
- Dams



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This project will ensure future capacity and reliability to service the growing community.

PROJECTS

Kirkwood Treated Water Booster Pump Station Gladstone Area Water Board

Design and Construct

Due to the future expected growth of the Calliope region, Pensar was engaged for the construction of the new Kirkwood treated water booster pump station.

The scope of works included construction of the pump station and chlorination building with in-situ concrete foundation and precast concrete tilt panel walls, 300m DICL watermain, installation of two booster pumps and supply and installation of electrical main switchboard and distribution

boards and associated conduiting, pits and cabling reticulation.

The new watermain was successfully connected to the existing watermain and completed within a six-hour window, ensuring zero impact to the Calliope community's main water supply.

The project was delivered seven weeks ahead of time, including a 20% increase to the original scope and one month delay due to inclement weather.



PROJECTS

Wamuran Irrigation Scheme Unitywater

Joint Venture, ECI, Design and Construct



The Wamuran Irrigation Scheme (WIS) will take Class A recycled water from the Caboolture Sewage Treatment Plant to agricultural irrigation.

After completing a customer focused EOI, Unitywater engaged the WIS JV of which Pensar is a partner, to deliver the design and construction of the scheme.

The concept provides local growers with climate-independent irrigation, while reducing demand on dams and creeks, and diverting discharge away from local river systems.

Pensar is currently in the construction phase of the 22km pipeline pumping infrastructure, including the installation and commissioning of the Local Control Cabinet.



PROJECTS

Boera and Homestead Dam Upgrades Public Works Advisory NSW

Design and Construct

As part of the Toorale Water Infrastructure Project, Pensar was engaged to deliver Phase 2, which included the upgrade of the existing dam regulator systems on the Warrego River in the Toorale National Park.

The project outcome will enable a more flexible management of flows on and through the Toorale National Park to support environments on and downstream of the park.



Pensar also completed the temporary works design. Pensar successfully installed the Homestead Dam Bridge using an InQuik bridging system in 21 days from foundations to completion.

PROJECTS



Boonah Fassifern Reservoir Construction Downer

Construction

The Boonah water supply network required upgrading to increase the service capacity and security of supply to meet current and projected demand.

Pensar was engaged for the construction of a new reservoir on the site, refurbishment of an existing reservoir and associated demolition works.

A proposed flyover platform system was proposed by Pensar as an alternative to the sunken roof system. This would improve the water quality and longevity of the reservoir.

As an outcome of this project delivery, Pensar was awarded the Reservoir 131 Birnam Range reservoir refurbishment.



Plainland Sewer Pump Station and Laidley Sewage Treatment Plant Upgrades John Holland

Design and Construction

Driven by surrounding population growth, Pensar was engaged to convert an existing sewage catchment, serviced by tankers, to a pump station with rising main to a nearby treatment plant, as the tankering was becoming unviable.

Pensar undertook a redesign of the trenchless sections (HDD and auger bores) to minimise the disruption to the community.



This redesign also avoided any unpermitted lane closures on the surrounding TMR roadway.

The project scope of works included installation of 11km of pipe, supply and installation of 18 air valves, 18 section valves and 10 scour valves.

PROJECTS

Moura Raw Water Pump Station Upgrade Banana Shire Council

Design and Construction

Pensar was engaged to increase the Moura Raw Water Pump Station's instantaneous flow.

The Banana Shire Council also required a solution to retrieve the pumps from the river during a Q100 flood without having to work over water.



Pensar designed a custom hose reeling machine and pump catch tray to enable the pumps to be pulled from the depths of the river and be maintained without having to be disconnected from the flexible rising main.

As well as doubling the pump station's flow capacity from 50L/s to 100L/s, the refined design also eliminated the hazard of working over water and provided additional drought resilience with lower intake levels.

Cooranbong Water Centre Construction Flow Systems

Construction

This two-stage project involved the construction of a new greenfield local water centre via an MBR plant to service the new subdivision.



Stage 1: Completion of all related works to enable a fully functional potable water system for the development including two 1.25ML storage tanks.

Stage 2: Construction of the new dual train 1ML MBR STP complete with membrane bioreactor tank,

main control building and two additional 1.25ML storage tanks.

Pensar engaged a full-time spotter to relocate protected fauna and their dwellings when required and successfully met all environmental requirements.

PROJECTS

Pallara Pumping Station and Rising Main Turrissi Properties/Ausbuild

Design and Construct

The Pallara development transformed acreage properties into a residential development. Pensar was engaged to construct a pump station and trunk sewer main. The project scope of works included the design and construction of an innovative manhole deck system, which expedited work and reduced time spent in hazardous work zones.



Flinders Dolomite Reservoir Upgrade Urban Utilities

Design and Construct

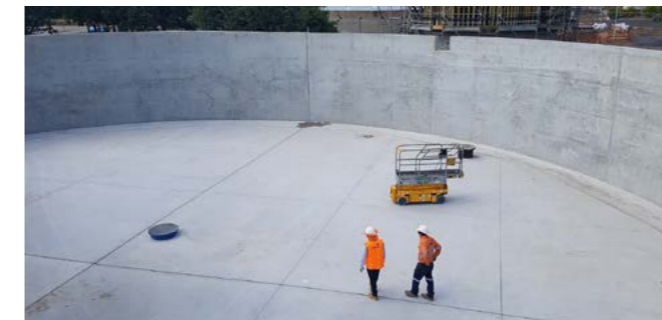
An upgrade of the water supply network for the Peak Crossing water management zone was required to provide service capacity and security of present and future demands. Pensar developed a new set of standard drawings for Urban Utilities' Chlorine Dosing Unit to be deployed across 22 Queensland sites. The drawings included programming SCADA integration and code block development.



Branyan Clear Water Storage and PAC Reservoir Bundaberg Regional Council

Design and Construct

Pensar was contracted to deliver a new clear water storage and powdered activated carbon tank system. The works included the installation of all valves and equipment necessary for safe operation and isolation, chemical dosing pipework, stormwater drainage and all interconnecting pipework. The project team developed a 3D Navisworks model to explain and deliver the design to the relevant designers, subcontractors, and the client.



Hammond Island Water Reticulation Upgrade Torres Strait Island Regional Council

Construction

The works involved the decommissioning of the heavily dilapidated existing main and installation of a new one. The project team provided solutions and controls to the client, proving competency to deliver the project during the pandemic. Pensar batched and sampled their own work sending it onto Cairns for testing. Hydrostatic pressure testing and QA was completed via video.



PROJECTS

Minimbah Reservoir Upgrade Singleton Shire Council

Construction



The existing Minimbah potable water storage tank required an upgrade along with the addition of a newly constructed standalone steel circular reservoir.

To complete these works, two existing temporary polyplastic tanks and a redundant concrete reservoir were decommissioned and removed.

Pensar also installed power supply to the site including reservoir instruments and switchboards, ASP1, 2 and 3 works, a new recirculation pump and enclosure, and the installation of pipework and associated works.

Recycled Water Supply Zones Stage 1 City of Gold Coast

Construction



To ensure the future sustainability of Gold Coast green spaces, the City of Gold Coast is upgrading and expanding its recycled water network.

Pensar was engaged for the delivery of Stage 1 of this project, providing a climate-resilient, affordable, reliable, and fit for purpose Class A recycled water supply for green spaces and sporting fields.

PROJECTS



Walgett Weir and Fishway Conservation Works Walgett Shire Council

Design and Construct

Pensar was engaged to upgrade the weir infrastructure to secure the future water supply in Walgett.

A vertical fishway was incorporated into the weir to allow fish to move freely across the weir.

Following five years of drought, this project was critical to the local

community as it will ensure future fish continuity and sustainability in the Barwon and upstream rivers.

The scope of works included raising the weir by 1m, construction of a new 31 vertical slot fishway and construction of a high flow full width rock ramp.



Ravenswood Tailings Storage Facility Ravenswood Gold

Construction

As part of the larger development of the Ravenswood Gold Mine upgrade, a tailings storage facility was needed. Pensar was engaged for Stage 1 of the tailings storage facility.

The scope of works included bulk earthworks, bund replacement and compaction works, tailings water management infrastructure, construction of bituminous

geo-membrane (BGM) liner subgrade works and installation of 650,000m² of BGM liner.

In the initial stages of engagement, the project team successfully proposed an innovative redesign solution for the northern discharge bund, which mitigated costly working at heights constraints for the future stages of the project.

OUR MANAGEMENT SYSTEMS



Pensar maintains a well-documented management system that serves as an effective risk management tool and communicates our focus and commitment to our quality assurance, workplace health and safety and environmental management processes.

Safety

Pensar strives to be recognised as an industry leader in health and safety performance and follows industry best practice. Safety is our highest priority and our very low Workers Compensation Premium Rates are evidence of our proven health and safety systems and culture.



Mining Qualifications

Ensuring safety, efficiency and compliance on our mine project sites, Pensar key team members are G1, G8 and G9 qualified. These qualifications equip and support our onsite teams with advanced knowledge prioritising safety, optimising productivity and contributing to the success of mining sites in Australia.

Community

Pensar has aligned itself with grassroots organisations where our team members can be actively involved and see first-hand the impact of their positive actions and contributions.

Quality Assurance

Pensar puts systems in place to ensure our projects deliver a level of quality that exceeds client expectations. With the application of our management systems, we ensure all employees, suppliers and subcontractors operate with Pensar's quality objectives in mind.

Environment

Pensar is committed to reducing environmental harm and minimising our impact on the environment. We believe excellence in environmental performance is essential and effective environmental management is an integral part of all projects.

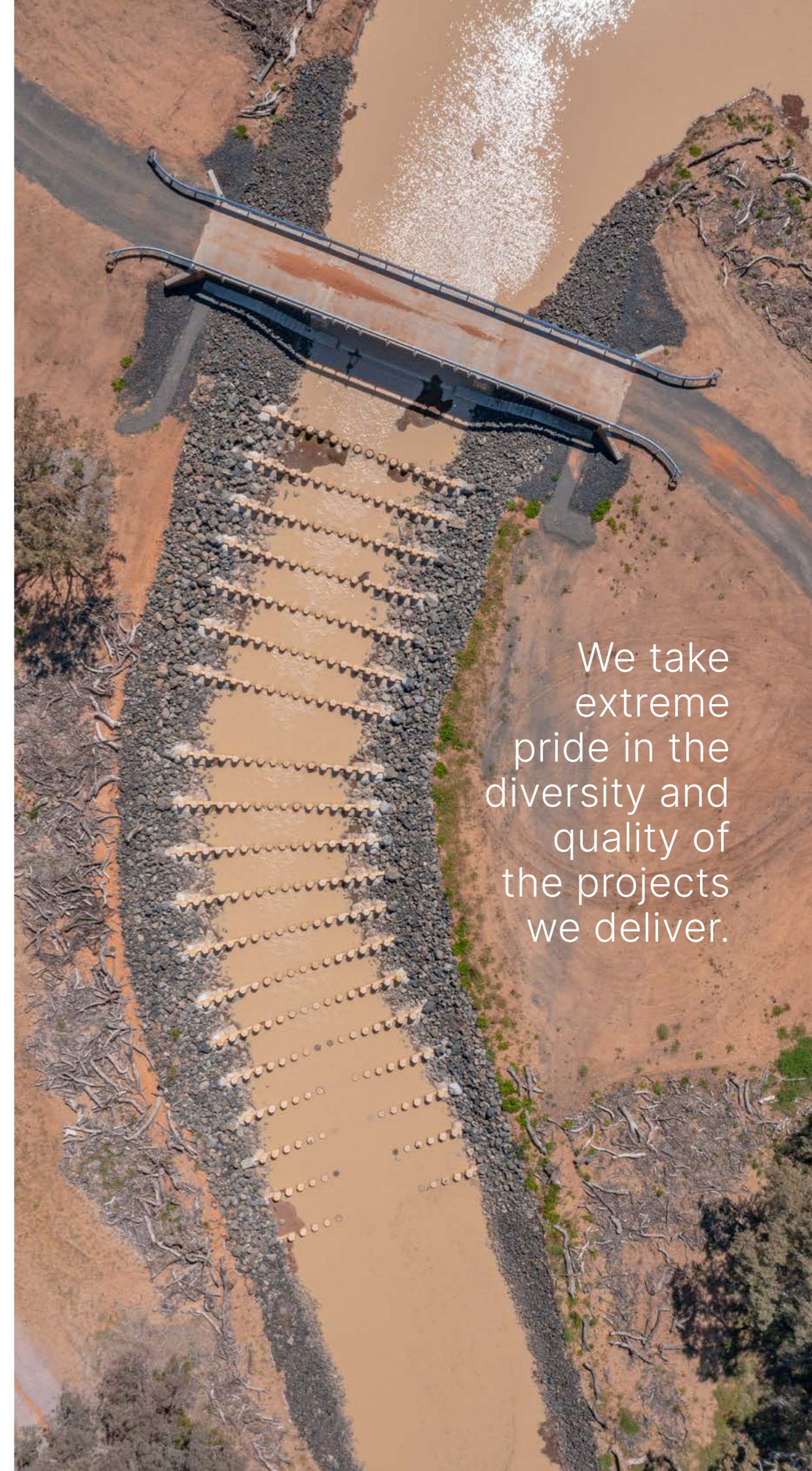
Procurement

Pensar always aims to use a local workforce where possible. Our policies

and procedures ensure our procurement principles are ethical whilst ensuring we focus on value for money, quality products.

Aboriginal and Torres Strait Islander Peoples

Pensar fosters a comprehensively inclusive culture where Aboriginal and Torres Strait Islander Peoples participation and cultural heritage is included as a core function of the company's management processes. Aboriginal and Torres Strait Islander Peoples communities play an active role in caring for the natural environment and landscape, particularly in the regional and remote locations where Pensar often operates. We are committed to sharing the values and knowledge of Aboriginal and Torres Strait Islander Peoples at all levels of our business, and to forging a workplace where diversity and these values are acknowledged, celebrated, and appreciated.



We take extreme pride in the diversity and quality of the projects we deliver.

Industry Certifications and Accreditations

Occupational Health and Safety Management Systems Standard ISO 45001 (GRS Quality Management System, Certificate number: 4779001610075)

Environmental Management System Standard ISO 14001 (GRS Environmental Management System, Certificate number: 47714001610075)

Quality Management System Standard ISO 9001 (GRS Occupational Health & Safety Management System, Certificate number: 47745001610075)

Occupational Health and Safety System Standard AS/NZS 4801
OFSC: Pensar Water, Pensar Building, Pensar Project Infrastructure: Certificate number: 341

Building Services Authority PQC3
Energex Accreditation Rating WCS2, 34, 37 & 61

Ergon Energy Approved Suppliers Register Rating B
Austroads DS6 - BM/F2 (Tasmania)
Silver Master Electrician

Licences

QBCC Contractor Licence 1081361
QLD Government Electrical Contractor Licence 76158
NSW Government Contractor Licence 266065C



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