



# capability statement **WATER RESOURCES**



## Planning, development and management of water infrastructure, from farm scale to regional

We work with clients to develop their water resource infrastructure and irrigation supply systems sustainably and efficiently. Our areas of expertise include the following:

- Development and implementation of practical strategies for applying on-farm and regional fresh and recycled water supply systems.
- Investigation and project management of water related infrastructure (e.g. dams, levees, pipelines, pump stations) for on-farm systems through to large scale corporate or government projects.
- Investigation, design, procurement and project management of new and upgraded on-farm irrigation systems (e.g. centre pivot, sprinkler, drip systems).
- Contract management and administration services including the provision of superintendents for water infrastructure projects.
- Irrigation system efficiency audits, with the capability to assess systems for both agricultural and engineering issues (e.g. energy use, irrigation efficiency, system uniformity, scheduling to meet crop requirements).
- Hydrology services, including flow gauging, flow monitoring and hydrology assessments monitoring in particular catchment yield assessments in support of dam and irrigation permit applications.
- Hydraulic modelling including 2-D flood modelling, dam break modelling and levee impact modelling.
- Irrigation system trouble shooting and performance reviews.
- Advice and project management for all aspects of water licencing and farm dam development including compliance with state and federal permitting processes.
- Design and delivery of training programs covering all aspects of water management and sustainable water use.



# CAPABILITY STATEMENT

## water resources



### OUR TEAM

Pinion Advisory has a capable team of consultants with years of experience working in water resources. The team members are:

- Chris Thompson (principal consultant, water resources team leader)
- James Curran (senior consultant)
- Alistair Brooks (senior consultant)
- David Mohr (water resources engineer)
- Brock Nadler (water resources engineer)
- David McLaren (consultant)
- Fletcher Pegus (technical officer)

### PROJECTS IN BRIEF

#### Prosser Plains raw water scheme

The Prosser Plains raw water scheme extracts water from the Prosser River via submersible river pumps and delivers it to Triabunna via Orford. Pinion Advisory were engaged by the Glamorgan Spring Bay Council to provide project management and superintendent services through the final stages of construction, commissioning and into practical completion. Pinion Advisory have been retained as operators for the scheme to manage the day-to-day operation. This has provided the client with a cost effective and practical solution to a difficult project with many stakeholders.

#### Melrose dam

Melrose dam is a 3400ML, 28m high zoned earth-fill dam located on the east coast of Tasmania. Pinion Advisory were engaged by Tasmanian Irrigation to provide contract management and project oversight for the construction period. This project involved managing a number of separate contracts including design, earthworks, supply of filter sand, curtain grouting and fencing. The project achieved a successful outcome and has been delivering irrigation water to the expanding horticultural region since 2019.

#### Lower Huon bathing water scheme

The lower Huon bathing water scheme comprises two pump stations and approximately 15km of land based and subsea pipeline, supplying fresh water from the Esperance River to several offshore salmon farming pens. The water supply was a tripartite development between the state government and two major fish farming companies and is a shared operating system.

Pinion Advisory were engaged to undertake a comprehensive audit of the scheme to identify upgrades to the system control method to ensure water is delivered fairly between the two companies. The audit comprised system research, documentation review to establish baseline information, scenario modelling, efficiency analysis and control system design. The outcome of this process was to provide an updated equitable and transparent operating regime.

#### Lockyer Valley irrigation scheme - detailed business case

Pinion Advisory were commissioned by international engineering firm Jacobs to provide practical engineering solutions for the detailed business case for the Lockyer Valley irrigation scheme. This involved site investigations, preliminary pipeline analysis, design and budgets, preliminary pump station designs and budgets, assessment of the potential for solar energy support to the system, stakeholder engagement and guidance on operational requirements for the scheme.

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