



WATER RESOURCE MONITORING

Monitoring of river flows, water quality, rainfall, evaporation, groundwater and aquatic ecology

We work with clients to develop and implement their water monitoring requirements. Our areas of expertise include the following:

- Design, Construct and Operation of Surface Water Monitoring Stations
- Water Quality Sampling
- Ground Water Monitoring
- Water Level and Streamflow
- Installation of Dam Level and Volume Monitoring
- Realtime rainfall data collection
- Realtime evaporation data collection
- Telemetry
- Web-data hosting
- Data management, editing, validation, and analysis using the Seveno DataSight cloud-based system
- Flow gauging measurements and rating curve development
- Aquatic Ecology Assessments

We collect all our water resources data to national industry standards. We currently operate around 40 water monitoring stations across Tasmania.

We use state of the art high accuracy Sontek flow monitoring equipment for all river flow measurements. This includes the Sontek Flowtracker meter for wading gauging's and the Sontek Riversurveyor S5 for high flow gauging's. This equipment is now used extensively across Australia by most hydrographic companies.

WATER RESOURCE MONITORING



OUR TEAM

Pinion Advisory has a multidisciplinary team of consultants with significant experience in various aspects of water monitoring.

These include:

- Alistair Brooks (Senior Consultant)
- David Thorp (Senior Consultant)
- Hugh Ludford (Consultant)
- Fletcher Pegus (Technical Officer)
- Sarah Jones (Team Leader)
- Cameron Everard (Senior Consultant)
- Ryan Francis (Senior Consultant)
- Lincoln Hanslow (Consultant)
- Hilton Henning (Senior Consultant)
- Mel Rae (Team Leader)
- Access to sub-contractor consultants as required

RECENT PROJECTS IN BRIEF

Tasmanian Irrigation Pty Ltd

Tasmanian Irrigation (TI) is a key client. We have installed most of their river flow and dam level monitoring sites. We currently operate and manage all of these permanent river flow and dam level monitoring sites. These sites are integral in the day-to-day operations of irrigation schemes. Pinion Advisory have now installed over 18 concrete flow monitoring weirs for TI in a number of rivers to enable accurate river flow monitoring data to be collected. Several of these sites have permanently installed traveller-ways to enable high river flows to be gauged using state of the art acoustic doppler technology.

We also install and operate a number of short-term flow monitoring sites for TI during the feasibility stages of irrigation scheme development.

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 design, construct and operate river flow monitoring sites at key locations to account for transmission losses in various parts of the river.
Mini Hydro Scheme Development

We currently operate river flow monitoring sites near Trial Harbour. This data is being used in the development of a mini hydro scheme.

On-farm environmental monitoring

Pinion Advisory were engaged by a large farming organisation in Northeast Tasmania to design, construct and operate river flow monitoring sites, dam level and volume, dam outlet flows, and rainfall sites.

Bureau of Meteorology

The Bureau of Meteorology operate many flood warning stations across Tasmania. Pinion Advisory were engaged to undertake an audit of these sites and then complete upgrade works as required. This work included the installation and repair of gauge boards, surveying checks of river levels gauges and instrumentation, and recommendations for any future upgrades.

Clyde Water Trust

The Clyde Water Trust is one of the oldest operating irrigation schemes in Australia, delivering around 15,000ML to over 30 irrigators. Pinion Advisory have been engaged to operate this irrigation scheme over the last two irrigation seasons. This work includes installing and operating water monitoring equipment at key locations across the scheme. Real time telemetered data is collected at flow monitoring weirs and used to make key decisions for scheme operations.

Monitoring of flows in fish farm hatcheries

Pinion Advisory were commissioned to provide practical solutions and cost-effective monitoring for a flow through fish farm hatchery in order to meet their Environmental Protection Agency (EPA) requirements. Flow data through the hatchery and in a neighboring river is now being collected to meet these requirements.

Water Quality and Groundwater Monitoring

TasWater, Tassal, Tasmanian Irrigation, and Huon Aquaculture are four key clients of our team. We provide annual groundwater and surface water quality sampling at a number of locations across Tasmania for these clients.

We have also undertaken Macroinvertebrates (AUSRIVAS Sampling) and other aquatic ecology sampling for these clients.

WHY WORK WITH US?

Pinion Advisory is focused on helping you with water infrastructure development. We strive to understand your needs and offer unbiased advice that benefits your business. Our integrated services make it easy for us to resource projects and provide access to knowledge and expertise from multiple fields.

Our solutions are designed to be technically sound, financially achievable, and practical. We work with clients all across Australia, and our international connections provide access to new technologies, innovations, and additional resources.

Our team consists of technically skilled professionals, including industry leaders in irrigation design, water infrastructure development, and environmental sustainability. We are committed to helping you achieve your goals and providing you with the best possible service.

RECENT PROJECTS



V-Notch weir installation



Large Weir Construction



Logging and telemetry of flow meters, rainfall, evaporation and dam level



Instrumentation



Measuring river flows



Monitoring water quality and groundwater



For more information
contact us on **1300 746 466**
or visit **pinionadvisory.com**

