



WATER QUALITY SERVICES

CAPABILITY STATEMENT





ABOUT CATCHMENT SOLUTIONS

Catchment Solutions is a Queensland based service provider, offering a range of specialised environmental services that combine technical expertise, innovation and collaboration to meet our client's needs. Working closely with business and government across diverse industries, we provide tailored solutions for strategic environmental and commercial outcomes.

Our core capabilities are:

- Fisheries and Aquatic Ecosystems
- Fire Management
- Rural Production Innovation
- Water Quality Services
- Systems Repair

WATER QUALITY

Catchment Solutions offers a range of services covering on-ground water quality improvement activities, water quality monitoring and research design. In addition, we also offer strategic design and coordination of water quality management programs.

The team has specialist skills in regional-scale water quality impact monitoring and modelling, coordinating data provision, and integration of major programs such as Paddock to Reef. The Paddock to Reef Program is a leading monitoring and modelling program involving diverse organisations and partnerships along the coast of the Great Barrier Reef.

As part of the wider Reef Catchments Group, Catchment Solutions has been involved in the design and implementation of water quality improvement plans for more than a decade, receiving widespread recognition for ecosystem health improvement work. The Mackay Whitsunday Water Quality Improvement Plan 2008 was a finalist in the Eureka Awards and the lessons from these water quality planning experiences now extend to other regions.

The Catchment Solutions water quality team has a deep and comprehensive understanding of the relationships between water quality and ecosystem health. The team understands the importance of engaging the community and multiple interest groups, including government and industry, to work out solutions that are both practical and sustainable. Catchment Solutions has established strong relationships at every level and takes an approach that considers all stakeholders, engaging them where relevant in the water improvement process.

Our work spans plot, paddock, sub-catchment and catchment scale programs, and our team are recognised leaders in the production of new knowledge and information to guide management actions based on water quality monitoring and modelling programs.

Catchment Solutions designs and delivers complex multi-facet projects across diverse platforms, including sustainable agriculture, healthy waterways, catchment management and regional planning outcomes.



PRODUCTS & SERVICES

Water Quality services include:

STRATEGIC AND PLANNING

- Development of Water Quality Improvement Plans
- Development of Ecosystem Health Improvement Plans
- Monitoring and Evaluation strategy design

ON GROUND MONITORING

With a focus on water quality, soil science and ecosystem health:

- Experimental design
- Installation and maintenance of monitoring equipment
- Rainfall simulation
- Data collection
- Data analysis and interpretation
- Scientific and report writing
- Local knowledge of Central Queensland

COORDINATION AND MANAGEMENT

- Integration of complex data sets in practice
- Project management and reporting
- Training and workshop facilitation
- Science synthesis
- Science communication for general audiences - knowledge transfer
- Stakeholder consultation



As a long time resident of Mackay, I appreciate the importance of good water quality to sustain the community, the region's fisheries, farm irrigation and drinking water sources, and ecosystems, including the Great Barrier Reef - one of Australia's most important icons. The Mackay Whitsunday Water Quality Improvement Plan addresses water quality issues and presents practical implementation strategies to protect waterways, and the Great Barrier Reef lagoon."

- Tim Mulherin MP, Member for Mackay

RAINFALL SIMULATION

Catchment Solutions offers a unique service as one of the region's only providers of skilled rainfall simulation data collection. Rainfall simulators allow for the simulation of created rain events of known properties (e.g. intensity and duration), providing an opportunity for increased control over the many variables that govern natural rainfall. By delivering rainfall when and where it is required, and under the specific conditions of interest, it provides accurate and cost-effective information in a fraction of the time required for studies that rely on natural rainfall.





Catchment Solutions Pty Ltd

PHONE (07) 4968 4200
EMAIL info@catchmentsolutions.com.au
WEB www.catchmentsolutions.com.au
ADDRESS Suite 4/85 Gordon Street | Mackay QLD 4740

