



# ECOSYSTEM REHABILITATION & REPAIR CAPABILITY STATEMENT





# Ecosystem Rehabilitation & Repair

## 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:

- **Water Quality Services**
- **Fisheries and Aquatic Ecosystems Specialists**
- **Agriculture Innovation and Support**
- **Ecosystem Rehabilitation and Repair**
- **Environmental Planning and Approvals**

## STRATEGIC PLANNING

Catchment Solutions not only offer environmental assessment and planning services but are then able to utilise these plans, reports, recommendations and approvals to deliver on-ground rehabilitation and repair works to remedy the identified problem.

The Catchment Solutions team has extensive experience in delivering rehabilitation and repair works to streambanks and gullies suffering from soil erosion and riparian plant degradation, wetlands that no longer provide sufficient habitat to support biological productivity, barriers to waterway connectivity which impact fish stocks and the greater ecosystem and agricultural farm land runoff impacting water quality.

"Tailored End-to-End Environmental Solutions" is not just a company catch-phrase or tagline but a genuine philosophy for identifying environmental issues, developing recommendations and plans and then being able to deliver on-ground repair works that fix the problem.

We work with stakeholders at a project, regional and national scale, servicing both the private sector and government. We offer total program management from detailed design through to strategic environmental planning, construction and delivery of the finished product.

All of our work is supported by scientific research and monitoring, specialist services such as engineers, hydrologists, town planners, botanists and ecologists to ensure that all options are considered before making recommendation and then following through with monitoring and evaluation of each and every project.

IMAGES (top - bottom)

1. Log Structures for streambank stabilisation - Clyde Creek
2. Porous Check Dams for erosion control
3. Treatment Trains to capture and treat farm run-off
4. 38 ridge rock ramp fish ladder - Bakers Ck Mackay





## PROJECT EXAMPLES

### Reef Trust IV Fitzroy Subcatchment Gully & Streambank Erosion Control Program

This project undertook an integrated catchment approach to sediment reduction associated with gully and stream bank erosion by targeting two creek systems of Princhester and Ten Mile Creeks located within the neighbourhood catchment F11 of the Fitzroy River. These subcatchments within the Fitzroy River were identified as a high priority to address sediment loads from grazing within the Fitzroy Water Quality Improvement Plan.

This integrated approach provided materials towards undertaking stock exclusion fencing and off-stream water points to remove livestock and establish continuous well vegetated riparian areas.

The project also directly addressed gully (hillslope and alluvial) and stream bank restoration and re-vegetation programs (including replanting, porous check dams and runoff diversions) as well as targeted construction of gully head drop structures and stream bank toe protection to control erosion. It is estimated that this project will have reduced sediment entering the Great Barrier Reef by over 6000 tonnes per year.

Further information and site specific project details can be found at: <https://catchmentsolutions.com.au/catchment-solutions-projects/projects-system-repair/>

### Rehabilitation of Degraded Marine Fish Habitat and Stream Bank in Clyde Creek, Gladstone

Catchment Solutions were contracted by the Department of Agriculture and Fisheries (DAF) to undertake a streambank stabilisation and fish habitat restoration project on Clyde Creek in Gladstone, central Queensland. The project aimed to improve fish habitat by undertaking a holistic suite of system repair bank stabilisation works in order to remediate a section of actively eroding estuarine streambank. Specifically, the fish habitat rehabilitation activities aimed to repair and reconnect marine plant communities along the eroding stream bank while also providing complex woody fish habitat. Engineered log-jams were selected as the most appropriate method to achieve these multi-faceted fish habitat rehabilitation aims.

For further information site specific project details can be found at: <https://catchmentsolutions.com.au/projects/clyde-creek-marine-fish-habitat-rehabilitation/>



Gully erosion in the Fitzroy region



Crane & Excavator lowering logs into position - Clyde Creek

## PRODUCTS & SERVICES

- Identification of specific environmental issues that impact communities and their broader ecological footprint.
- Development of specialist issue reviews focusing on a wide variety of environmental areas including (but not limited to) water quality, aquatic ecology, erosion control, Receiving Environment Monitoring Programs (REMP), wetlands biological productivity, mining, quarry activities, construction and port operations.
- Design practical rehabilitation and repair options for consideration and implementation.
- Research and then organise all potential development and statutory permit approvals on behalf of clients.
- Facilitate and coordinate on-ground construction activities with a range of providers that best suit individual project requirements.
- Provide monitoring and evaluation services to track and report on outcomes of each project.



## Catchment Solutions Pty Ltd

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