

PROFILE

EMILY GRAY

ENVIRONMENTAL PROJECT OFFICER



BACKGROUND

Emily is an Environmental Project Officer at Catchment Solutions, contributing to both the Fisheries and Aquatic Ecosystems and Water Quality teams. Her role spans a diverse range of projects, including water quality monitoring, development assessments under legislative frameworks, fishway monitoring, and fish passage reporting.

Previously, Emily worked with the Department of Primary Industries (Fisheries) in the Impact Assessment and Management team, where she assessed urban development applications affecting Fisheries Matters of State Environmental Significance (MSES), such as waterways, marine plants, and declared fish habitat areas. This role enhanced her understanding of environmental legislation and planning frameworks through the assessment and approval of development proposals.

Emily holds a Bachelor of Animal Ecology and a Bachelor of Science (Honours Class I) from the University of the Sunshine Coast. Her honours research focused on commercially targeted coral reef fish within the Great Barrier Reef, using fish surveys and ultra-fine scale Structure from Motion (SfM) mapping to analyse species-habitat relationships. Through this and other university-led projects, Emily has developed strong fieldwork capabilities in marine environments, including project management, equipment logistics, deployment, and data processing.



"I'm passionate about conservation and want to make a real difference by easing the environmental impact of urban growth."

KEY SKILL AREAS

- Fish passage ecological monitoring
- Water quality monitoring (freshwater and marine)
- Planning and Assessment (particularly under the Fisheries Act 1994)
- Report writing
- Data analysis
- Fish Surveys (Stereo RUVS, BRUVS, transects)



EDUCATION AND TRAINING

Bachelor of Animal Ecology

University of the Sunshine coast (2018-2020)

Bachelor of Science (Honours Class I)

University of the Sunshine Coast (2020-2023)

CASA REPL (drone license) – up to 25kgs

First Aid and CPR trained

Construction White Card

Recreational Ship Masters License

EXPERIENCE

Department of Primary Industries – Impact Assessment and Management Team

Fisheries Biologist (Feb 2024 – December 2025)

University of the Sunshine Coast

Research Assistant (2021-2023)

RELEVANT PROJECTS

PROJECT	DESCRIPTION	ROLE	CLIENT	YEAR
Scenic Rim Fish Barrier Prioritisation	Assessment of fish barriers within the Scenic Rim Regional Council. Prioritisation of the identified barriers	Identification and classification of barriers	Scenic Rim Regional Council	2025 - Present
Cairns Airport culvert upgrade	Remediation project to improve hydrology and fish passage at Ellie Point wetland	Options Analysis Fish passage provisions report Prelodgement submission Prelodgement meeting Planning report	OzFish	2025 - Present
Linderman Island water quality monitoring	Conducting a long-term marine and freshwater water quality monitoring program	Water Quality consultant	Well Smart Pty Ltd	2025 - Present
Condamine Weir	Fish passage provisions for Condamine River Weir	Review of technical design Fish passage provisions report SDAP responses	Western Downs Regional Council	2025 - Present
Carmila Gauging Weir	Remediation of Carmila Gauging Weir to provide fish passage	Review of technical design	Reef Catchments NRM	2025
Impact Assessment and Management of Fisheries Resources	Urban development applications which will impact on fisheries resources including waterways, marine plants and declared fish habitat areas	Prelodgement advice Applicant prelodgement meetings Waterway assessments Development application approvals Resource allocation authorities	Department of Primary Industries (Employer)	2024
Honours Research Project	Contrasting effects of terrain variation on targeted reef fishes in protected reef seascapes	Project proposal Design Data collection Data analysis Report writing	The University of the Sunshine Coast	2023
Student projects	University of the Sunshine Coast student course projects	Supervising several third-year University students helping them to design and carry out research projects	Working for the University of the Sunshine coast	2021 and 2022

