

## PROFILE

# MATT MOORE

## FISHERIES ECOLOGIST



## EDUCATION AND TRAINING

### **B.Sc Fisheries and Aquaculture**

Southern Cross University, NSW, Australia 2000 - 2002

### **Certificate in Electrofishing Principles and Techniques**

Narrandera, 2014

### **Certificate III in Horticulture – Prepare and apply chemicals**

Completed 2014

### **Coxswain Certificate (11) Maritime Operations (Theory)**

### **ESS Elements of Shipboard Safety**

### **Recreational Ship Masters License: class RMDL**

### **Construction White Card**

## PAST EXPERIENCE

### **Fisheries Queensland**

Fisheries Biologist, 2007-2014

### **Isolagen, Microbiology, London**

Quality Control Analyst 2005-2006

## ABOUT

Matt Moore is a senior fisheries ecologist with a specialist focus on fish passage design and aquatic habitat rehabilitation and monitoring. Matt has worked for more than a decade across Australia and internationally, managing the construction of fishways from start to finish. This includes fish barrier identification, fish passage design, approvals, construction supervision and monitoring. Matt's experience designing and constructing fishways has led him to being 'Suitably qualified and experienced in fish passage biology and fish passage design and construction', a prerequisite qualification required by Fisheries QLD when undertaking fish passage works associated with state development approvals.

Matt is also experienced in undertaking large-scale habitat rehabilitation projects, using a holistic approach to restore ecosystem function. For example; rehabilitating eroding streambanks and degraded fish habitat through the construction of complex log jams in both estuarine and freshwater environments, and the design and construction of 'treatment train wetlands' to improve water quality and ecosystem services.



Matt's work leaves a legacy, for entire communities across Australia and internationally. Working with Fisheries Queensland and now Catchment Solutions, Matt's expertise extends to fish passage design and construction, addressing threats posed by invasive aquatic animals, endemic revegetation projects and in-stream habitat restoration.

Matt's skills in GIS analysis have led him to undertaking several regional scale fish barrier prioritisation projects throughout QLD and overseas, priority ranking thousands of barriers to fish passage to identify sites where remediation efforts can deliver the greatest ecological outcomes. Matt's passion for improving aquatic habitats has led to him developing aquatic ecosystem fish health metrics and assisting in the development of Fisheries QLD's 'Waterway Barrier Works' stream layer used by industry, state and local governments to determine required fish passage provisions associated with development works.

With qualifications in electrofishing, aquatic biota identification and water quality analysis, Matt is ideally placed to deliver aquatic ecosystem monitoring activities and outcomes in freshwater, estuarine and marine environments. His strong connections with industry, government and natural resource stakeholders allow Matt to lead the development of effective freshwater fish habitat, fish barrier and fish passage policy management strategies, codes and guidelines.



# RELEVANT PROJECTS

PROJECT	DESCRIPTION	ROLE	CLIENT	YEAR
Scrubby Creek Recovery Plan	Identify & prioritise barriers to fish passage and provide remediation options. Undertake fish community monitoring (electrofishing)	Fisheries Ecologist	E2Designlab	2019
Tedlands Wetland Fish Passage Project	Design and Construct rock ramp fish ladder	Site Supervisor/ Suitably qualified Fish Biologist	Mackay Regional Council & Reef Catchments NRM	2019
Gregory River & Tedlands Wetland Fish Community Monitoring	Undertake boat electrofishing to determine fish community condition	Fisheries Ecologist	Reef Catchments NRM	2019
Janes Creek Water Quality Treatment Train Wetland	Design and supervise construction of a treatment train wetland to improve water quality flowing to the GBR from intensive sugar cane landuse.	Wetland Designer & Site Supervisor	Reef Catchments NRM	2019
Sunshine Coast Council (SCC) Fish Barrier Prioritisation	Using GIS, identify and prioritise over 3500 potential barriers to fish passage within SCC catchments & recommend fish passage remediation options to increase fish populations.	Entire project; GIS analysis, site inspections, priority ranking, and reporting.	Sunshine Coast Council	2018
Niddoe Creek Fish Passage Restoration	Undertake fish passage design and construct fishway.	Fishway Design & Construction	Mackay Regional Council	2018
Clyde Creek Streambank Stabilisation & Fish Habitat Improvement	Supervise and construct 5 large log jams to provide fish habitat and remediate actively eroding estuarine streambank, Central QLD.	Log Jam Construction & Monitoring	Fisheries Queensland	2018
Urban Marine Fish Habitat Monitoring	Undertake estuarine fish community surveys across 13 sites in Central QLD with varying degrees of urbanisation, utilising seine nets, cast nets, box traps and fyke nets.	Monitoring Design & Field Work	Fisheries Queensland	2017- 2018
South-east QLD Fish Barrier Prioritisation	Using satellite imagery and GIS river network analysis identify & prioritise 11,797 potential barriers to fish passage within SEQ. Priority rank the top 170 barriers to fish passage, and construct 5 fishways on high priority barriers.	Entire project; GIS analysis, site inspections, priority ranking, construction & reporting.	Australian Government	2014- 2018
Warrill Creek & Bremer River Fish Barrier Assessment & Fish Passage Remediation Options	Undertake fish community trap monitoring on high priority fish barrier sites to determine level of impact. Undertake upstream and downstream boat and back pack electrofishing.	Monitoring Design, Field Work & Reporting	Ipswich City Council	2017- 2018
South Pine River Fish Passage Restoration	Design, construct and monitor a nature-like rock ramp fishway on Leitchs Crossing on the South Pine River in South-east QLD.	Fishway Design, Construction & Monitoring	Moreton Bay Regional Council & Aust. Gov.	2016- 2018
Paradise Road, Slacks Creek Fish Passage Restoration	Design, construct and monitor two fishways; a 17 ridge rock ramp and 10 ridge horizontal culvert baffle fishway to successfully restore fish passage past a 1.8m high barrier on Paradise Road, Logan.	Fishway Design, Construction & Monitoring	Logan City Council	2017
Bremer River Fish Passage Restoration	Design, construct and monitor Australia's largest nature-like rock ramp fishway (33 ridges) on Berrys Weir, Bremer River, South-east QLD.	Fishway Design, Construction & Monitoring	Ipswich City Council & Aust. Gov.	2016- 2018
Hilliards Creek Fish Passage Restoration	Design, construct and monitor a nature-like rock ramp fishway on Hilliards Creek in Redlands, South-east QLD.	Fishway Design, Construction & Monitoring	Redland City Council & Aust. Gov.	2016
Lagoons Creek wetland rehabilitation/fishway construction project	Design and supervise the construction of four nature-like rock ramp fishways, two bed control/rock riffle habitat features, stream bank stabilisation and revegetation.	Project Manager, Site Supervisor, Technical Input	Mackay Regional Council & Reef Catchments	2016
Mackay Whitsunday Healthy Rivers to Reef Partnership - Fish Barrier Metric Development	Develop aquatic ecosystem health metrics to determine fish barrier condition ratings in freshwater and estuarine reporting areas.	Fisheries Ecologist	Healthy Rivers to Reef Partnership	2016

