

## QUALIFICATIONS

PhD- Marine ecology, Adelaide Univ. 2003-2008

## ROLE AT CAWTHRON

Bethany is Projects Manager for a portfolio of large multi-venture projects funded through Seafood Innovations Ltd. This research is focussed on enhancing the aquaculture industry toward a \$1 Bill vision by 2025. The largest of these research projects (\$2Mil) aims to develop technologies and protocols for hatchery based production of Greenshell™ Mussel spat.

As a Marine Ecologist, Bethany specialises in coastal habitat change as a result of human-derived disturbance. Her ecological expertise forms part of an inter-disciplinary team, combining economists, social scientists, modellers and analysts toward sustainable research outcomes for the Community, Business and Environment.

## PROFESSIONAL AFFILIATIONS

- NZ Marine Sciences Society
- Biodiversity Research Advisory Group (chaired by MFish)
- Reviewer: Journal of Diversity & Distributions

## SPECIAL INTERESTS & ACHIEVEMENTS

- Whole ecosystem-based management principles
- Predicting ecosystem change from contemporary disturbances
- Direct comparison of metrics and methods used to assess marine environment impacts
- Risk Assessment of environmental impacts
- Integrated research outcomes with modelling, economic and social outcomes

## SELECTED PUBLICATIONS

Mosley L, Billington K, **Roberts B** (in prep). A Framework for rapid assessment of risks to water quality along the Murray River in South Australia. *Journal of Environmental management*.

**Roberts B** (2009) Peer review of AEE for Westshore Beach Breakwater Extension- Stage 1 (\$92 request). Prepared for Hawkes Bay Regional Council.

Heasman K, Keeley N, **Roberts B**, Batstone C, Knight B, Mussely H (2009). Feasibility of Open Ocean Aquaculture in New Zealand. Prepared for the Foundation for Research, Science & Technology and Offshore Technology Development (OTD) Ltd. Cawthron Report No. 1481. 213 p.



Sinner J, **Roberts B**, Jackson J (2009). Setting Environmental Standards for Fisheries. Prepared for Ministry of Fisheries. Cawthron Report 1640. 31p plus appendices.

Sinner J, Forrest B, O'Brien M, Piola R, **Roberts B** (2009). Fiordland Marine Biosecurity Risk Management: operational Plan Recommendations 2009/10-2013/14. Prepared for MAF Biosecurity New Zealand & Fiordland Marine Guardians. Cawthron Report 1621. 32p plus appendices.

**Roberts B** and Connell, S (2008). Detecting benthic response to human-induced change: effectiveness of alternate taxonomic classifications and indices. *Marine Ecology Progress Series*. 258: 75-84

**Roberts B**, O'Brien M (2008). Assessment of Environmental Effects of Increased Seawater Intake for Glen Aquaculture Park Developments. Prepared for Glenhaven Aquaculture Centre Ltd. Cawthron Report No. 1523.

Batstone C, **Roberts B**, Sharp B (2007). Evaluating coastal receiving environments and the effects of stormwater. Prepared for Auckland Regional Council. Cawthron Report No. 1434.