

QUALIFICATIONS

PhD, University of Tasmania, 2007

MESc, Griffith University, 2001

BSc, Massey University, 1995

PROFESSIONAL AFFILIATIONS

NZ Freshwater Sciences Society

Australian Society for Limnology

Society for Freshwater Science

ROLE AT CAWTHRON

Joanne is a freshwater ecologist within the Coastal and Freshwater resources group and specialises in river ecosystem processes (not just what is there but what it is doing!), as well as the interaction between terrestrial and freshwater environments. Joanne has worked in a range of freshwater environments from small headwater streams in Tasmania to arid billabongs in Queensland and large rivers in New Zealand.

SPECIAL INTERESTS

- Metabolism and organic matter dynamics
- The effects of land use on in-stream processes
- Development of novel techniques for assessing river health
- River restoration
- Working with industry to attain high environmental performance

SELECTED PUBLICATIONS

Collier KJ, Clapcott JE, David BO, Death RG, Kelly D, Leathwick JR, Young RG 2012. Macroinvertebrate-pressure relationships in boatable New Zealand rivers: Influence of underlying environment and sampling substrate. *River Research and Applications* DOI: 10.1002/rra.2564.

Clapcott JE, Collier KJ, Death RG, Goodwin EO, Harding JS, Kelly DJ, Leathwick JR, Young RG 2012. Quantifying the relationships between land-use gradients and structural and functional indicators of stream ecological integrity. *Freshwater Biology* 57 (1): 74-902.

Harmsworth GR, Young RG, Walker D, **Clapcott JE**, James T 2011. Linkages between cultural and scientific indicators of river and stream health. *New Zealand Journal of Marine and Freshwater Research* 45 (3): 423-436.

Clapcott JE, Death RG, Harding JS, Matthaei CD, Quinn JM, Young RG 2011. Sediment Assessment Methods: Protocols and guidelines for assessing the effects of deposited fine sediment on in-stream values. Cawthron Institute, Nelson.



Clapcott J, Young R, Goodwin E, Leathwick J, Kelly D 2011. Relationships between multiple land-use pressures and individual and combined indicators of stream ecological integrity. DOC Research and Development Series. Department of Conservation, Wellington.

Clapcott JE, Young RG, Goodwin EO, Leathwick JR 2010. Exploring the response of functional indicators of stream health to land-use gradients. *Freshwater Biology*, 55: 2181-2199.

Clapcott JE & Barmuta LA 2010. Metabolic patch dynamics in small headwater streams: exploring spatial and temporal variability in benthic processes. *Freshwater Biology*, 55, 806-824.

Clapcott JE & Barmuta LA 2010. Forest clearance increases metabolism and organic matter processes in small headwater streams. *Journal of the North American Benthological Society*, 29, 546-561.

Parkyn S, Collier K, **Clapcott J**, David B, Davies-Colley R, Matheson F, Quinn J, Shaw W, Storey R. 2010. The restoration indicators toolkit: Indicators for monitoring the ecological success of stream restoration. National Institute of Water and Atmospheric Research, Hamilton.

Harding JS, **Clapcott JE**, Quinn JM, Hayes JW, Joy MK, Storey RG, Greig HS, Hay J, James T, Beech MA, Ozane R, Meredith AS, Boothroyd IKD 2009. Stream habitat assessment protocols for wadeable rivers and streams of New Zealand. University of Canterbury Press, Christchurch.

Barmuta LA, Watson A, Clarke A, **Clapcott JE** 2009. The importance of headwater streams. National Water Commission, Canberra.

Fellows CS, **Clapcott JE**, Udy JW, Bunn S E, Harch BD, Smith MJ, Davies PM 2006. Benthic metabolism as an indicator of stream ecosystem health. *Hydrobiologia* 572: 71-87.

Udy JW, Fellows CS, Bartkow ME, Bunn SE, **Clapcott JE**, Harch BD 2006. Measures of nutrient processes as indicators of stream ecosystem health. *Hydrobiologia* 572: 89-102.

Clapcott JE & Bunn SE 2003. Can C4 plants contribute to aquatic food webs of subtropical streams? *Freshwater Biology* 48: 1105-1116.