

DR MICHAEL SHORT

POSITION

Research Associate, Sustainability Assessment Program

PEN PICTURE

Michael Short is a Research Associate in the Sustainability Assessment Program group of the UNSW Water Research Centre. Since being awarded his PhD in 2008, and in spite of having served in this role for only a short time, he has worked on a wide range of projects covering a number of scientific and industrial disciplines. Michael's background in environmental and biological sciences as well as his prior experience with water treatment have proven a welcome addition to the Program group, and have served as a solid platform from which to apply the principles of environmental sustainability and life cycle assessment. Michael's specific roles within the group include: literature reviewing; formulating research proposals; project management; communication and liaising with academic and industry partners; life cycle inventory data acquisition and analysis; life cycle modelling using GaBi 4 software; life cycle impact assessment; and project reporting.

EXPERIENCE SUMMARY

- Specialist experience in general microbiology and nutrient dynamics in wastewater environments;
- Liaising, data acquisition, analysis and life cycle modelling for the New South Wales Department of Housing (LCA of water heaters);
- Consulting projects in troubleshooting and process sustainability assessment for the water and wastewater industry; and
- Comprehensive literature review for the Victorian EPA (sustainability assessment of contaminated land remediation technologies).

QUALIFICATIONS

2008	Flinders University	PhD (Environmental Science)
2002	Flinders University	Bachelor of Science (Honours H1)
1999	Flinders University	Bachelor of Technology (Aquaculture)

RESEARCH OUTPUT SAMPLE

Short MD, Peters GM (2009) Electric Hot Water Service – Life cycle and specification performance analysis. Report for Housing NSW.

Yamamoto, A., Short, M., van den Akker, B., Cromar, N and Fallowfield, H. (2009). Nitrification potential in waste stabilisation ponds: comparison of a secondary and tertiary pond system. Accepted for presentation at 8th International Water Association Specialist Group Conference on Waste Stabilization Ponds. Brazil, April 26–30 (2009).

Short M, Peters GM (2008) Milestone 6a – Report: Life Cycle Management of Soil and Groundwater Remediation—Literature Review (report to client, EPA Victoria).

Schulz M, Short M, Peters GM (2008) Life Cycle Assessment for Sustainable Water Cycle Management at Penrith Lakes (report to client, Penrith Lakes Development Corporation).

Short, M.D., Nixon, J.B., Cromar, N.J. and Fallowfield, H.J. (2007). Relative performance of duckweed ponds and rock filtration as advanced in-pond wastewater treatment processes for upgrading waste stabilisation pond effluent: a pilot study. *Water Science and Technology* 55(11): 111–119.