

Dr Gregory Peters

BE (Hons) (1993), PhD (2000)

Senior Lecturer / Senior Research Fellow Centre for Water and Waste Technology, UNSW (Jun 05 – present)

Employment History

Water Cycle Planner	Sydney Water Corporation	Sep 02 – May 05
Senior Environmental Consultant	Australian Water Technologies Pty Ltd	May 00 – Aug 02
Consulting Engineer	University of New South Wales	Feb 00 – Apr 00
Planning Engineer	Sydney Water Corporation	Feb 98 – Feb 00
Conference Organiser	International Ozone Association	Feb 95 – Apr 96
Teaching assistant	University of Sydney	Aug 94 – Jan 98
Visiting Scientist	US EPA, Louisiana, USA	Feb 94 – Jul 94
Process Engineer	Akzo Nobel AB, Sundsvall, Sweden	Feb 92 – Aug 92

Expertise

Dr Greg Peters is a Senior Research Fellow at the CWWT. He is currently responsible for the management for over \$900k of research projects including an environmental life cycle assessment of the feedlot and red meat industry, funded by MLA. He has had extensive experience of the management of environmental issues in the water industry and worked on Sydney Water's desalination feasibility study. He has managed teams of environmental scientists and engineers, and won an award for communicating technical information to managers and non-government organisations. His published research has been in two principal areas: environmental assessment of water or waste treatment systems, and fate of metalloid contaminants. He has also spent several years on cost assessment of desalination and alternative water cycle management options for confidential NSW Cabinet deliberations.

Selected Publications

1. Peters GM, Sack F, Lenzen M, Lundie S, Gallego B (2005) A Novel Ecological Footprint Calculation for the Australian Water Industry: Regionalisation and Inclusion of Downstream Impacts, *Environmental Planning and Management* (submitted)
2. Lundie, S. and Peters, G.M. (2005) Life cycle assessment of food waste management options, *Journal of Cleaner Production*, 13, 275 – 286.
3. Lundie S, Peters G, Beavis P (2004) Life cycle assessment for sustainable metropolitan water systems planning– options for ecological sustainability. *Environmental Science and Technology*, 38(13)3465–73.
4. Peters GM, Lundie S. (2002) Life-cycle assessment of biosolids processing options. *Journal of Industrial Ecology*, 5(2)103-121.
5. Peters GM, Maher WA, Jolley D, Carroll BI, Jenkinson AV, McOrist GD. (1999) Selenium contamination, redistribution and remobilisation in sediments of Lake Macquarie, NSW. *Organic Geochemistry*, 30(10)1287-1300.
6. Peters GM, Maher WA, Krikowa F, Roach AC, Jeswani HK, Barford JP, Gomes VG, Reible DD. (1999) Selenium in sediment, pore water and benthic infauna of Lake Macquarie, New South Wales, Australia. *Marine Environmental Research*, 47(5)491-508.
7. Carroll BI, Peters GM, Barford JP, Nobbs DM, Maher WA, Chapman P. (1998) Microbial and redox-dependent aspects of selenium biogeochemistry in a selenium contaminated lake – Lake Macquarie, NSW. Proceedings of the Second International Conference on Environmental Management (ICEM2), Wollongong, 10-13 February. pp221-228.
8. Peters GM; Maher WA; Barford JP; Gomes VG. (1997) Selenium associations in estuarine sediments: redox effects. *Journal of Water, Air and Soil Pollution*, 99(1-4)275-282.
9. Nobbs DM; Barford JP; Carroll BI; Peters GM. (1997) An integrated investigation of anthropogenic selenium contamination in Lake Macquarie, NSW. *Pure and Applied Chemistry*, 69(11)2387-2401.

Publications over last 5 years

Peer-reviewed research publications: 8

Conference publications: 2

Books and book chapters: 10