



## + Alan Hoban

Principal Environmental Engineer

# BLIGH TANNER

### + QUALIFICATIONS

- BE (Hons, Dux), University of Melbourne
- BSc (Physical Geography), University of Melbourne
- Certified Professional in Erosion and Sediment Control (CPESC 7832)
- Registered Professional Engineer of Queensland (RPEQ 14570)
- Chartered Professional Engineer, Civil and Environmental (CPEng)

### + AFFILIATIONS

- Member, Institution of Engineers, Australia (MIEAust)
- Member, Stormwater Industry Association
- Member, Australian Water Association

### + CAREER OVERVIEW

Alan contributes a high level of expertise in developing policies and technical standards for integrated water cycle management and sustainable urban design. He regularly advises government and developers on how to better manage water in urban environments. Alan works closely with his clients to help them achieve their goals despite institutional or policy barriers. Alan's successful initiatives include Water by Design, Flood of Ideas, Flexicar, and Cool Communities. He has received numerous awards including the Gilbert Vasey Award in Agricultural Engineering, the inaugural Sinclair Knight Merz Fellowship, the Tim Fairfax Scholarship, the AILA Queensland Medal and three best paper awards from Stormwater Queensland. In 2014 he was named one of the most influential contributors to the Australian stormwater sector.

### + EMPLOYMENT PROFILE

2012—present  
Principal Environmental Engineer  
Bligh Tanner, Brisbane

2007—2012  
Executive Manager  
Water by Design, Healthy Waterways,  
Brisbane

2003—2007  
Associate Director  
Senior Engineer  
AECOM/Ecological Engineering,  
Brisbane, Melbourne and Singapore

2003—2005  
Director  
Flexicar.com.au, Melbourne

2001  
Energy Efficiency Facilitator  
Environment Victoria

1999—2000  
Environmental Advisor  
Royal Thai Government

1997—1998  
Graduate Engineer  
Sinclair Knight Merz, Melbourne

### + AREAS OF EXPERTISE

- Policy and planning advice
- Integrated water management and water-sensitive urban design (WSUD)
- Waterway management and erosion and sediment control
- Complex development approvals and applications advice
- Facilitation, training and capacity building
- Flood and drainage studies and infrastructure planning
- Climate change adaptation and mitigation strategies
- Expert opinions

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## PROJECT EXPERIENCE

### + GUIDELINES AND MANUALS

- As Executive Manager—Water by Design, Alan led the development of the following publications:
- Total Water Cycle Management Planning Guidelines for South East Queensland (2011)
- Business Case for Best Practice Stormwater Management (2010)
- Concept Design Guidelines for Water Sensitive Urban Design (2009)
- Framework for the Integration of Flooding and Stormwater Management into Open Space (2011)
- Deemed to Comply Solutions: Stormwater Quality Management (2010)
- MUSIC Modelling Guidelines for South East Queensland (2010)
- Standard Drawings: Water Sensitive Urban Design (2010)
- Stormwater Harvesting Guidelines (Draft, 2010)
- Construction and Establishment: Swales, Bioretention and Wetlands (2009)
- Costs, Benefits and Risks of Decentralised Water Systems (2012)
- Transferring Ownership of Vegetated Stormwater Assets (2012)
- Maintaining Vegetated Stormwater Assets (2012)
- Rectifying Vegetated Stormwater Assets (2012)

### + POLICY AND PLANNING

- Review of State Infrastructure Standards (Water, Sewage and Stormwater) for the Queensland Department of State Development, Infrastructure and Planning
- Living Waterways Framework for Healthy Waterways
- Member, AWA Policy and Strategy Committee (2011 - 2013)
- Member, Policy Coordination Group of the Chief Executive Officers Committee for Natural Resource Management in South East Queensland (2010 - 2012)
- Member, Executive Officers Committee on Natural Resource Management in SEQ (2011 - 2012)
- Chair, Urban Stormwater Quality Policy Working Group
- State Planning Policy - Healthy Waters: Development of design objectives and statewide roadshow
- Regional Landscape Open Space Advisory Committee (2010/2012)
- Stormwater Offsets Discussion Paper (for Healthy Waterways)
- Brisbane City Plan 2014 - Stormwater code and policy, including worked examples and deemed to comply solutions
- Stormwater Offsets Implementation Plan for Ipswich City Council
- Singapore WSUD Framework
- Loganholme Stormwater Strategy
- Brisbane Priority Infrastructure Plan (Stormwater)
- Ripley Valley Total Water Cycle Planning - Facilitation
- Greater Flagstone Total Water Cycle Planning - Facilitation
- Moreton Bay Regional Council Total Water Cycle Planning - Facilitation
- Townsville Regional Stormwater Strategy

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**+ WATER SENSITIVE URBAN DESIGN**

- Noosa Flexi Learning Centre (2014 Excellence in Integrated Stormwater Design Award)
- Global Change Institute - University of Queensland
- Little Creek (Sydney) Alternative Stormwater Management Strategy
- Peer review - Caloundra South Urban Development
- Singapore Water Sensitive Urban Design Strategy 2006/2007, including training of Public Utilities Board staff and the design of Singapore's first raingardens
- Bellvista Estate, Caloundra, Queensland
- Childers Street 'Arts Heart' Precinct, Canberra
- STORM Rating Tool - Victoria
- Brighton Drainage Alternatives - Perth
- Bioretention Street Trees - North Terrace, Adelaide and Little Bourke Street, Melbourne
- Royal Park Native Garden Pond, Victoria
- Coomera Waters Village and Resort, Queensland
- Macau Cotai Resort Master Plan
- WSUD strategies for numerous other residential, educational, commercial and industrial urban developments

**+ INTEGRATED WATER CYCLE MANAGEMENT**

- Nutrient Emission Abatement Plan (Queensland Urban Utilities)
- The Milton highrise development
- Brisbane City Council Stormwater harvesting (Downey Park, Norman Park, Sexton St and Langlands Park)
- Tooronga Village Masterplan
- Macau Cotai Resort Masterplan
- Wet'n'Wild watercycle management and backwash investigation
- Wyong Town Centre and Porters Creek Wetland water cycle strategy

**+ WATERWAYS AND WATERBODIES**

- Bundamba Creek Realignment
- Lilac Street, Inala - Erosion management and natural channel design
- Lake Apex Park, Gatton - Erosion management and natural channel design
- Iron Pot Creek, Pine Mountain - Erosion and drainage management on dispersive soils
- Greenslopes Creek Filtration - Natural channel design
- Cubberla St, Fig Tree Pocket - Waterway corridor mapping
- Anglican Church Grammar School (Churchie) creek erosion
- Little Creek Tributary - Blacktown City Council
- Artificial Lakes Discussion Paper (project director)
- Brolga Lakes Urban Development Proposal - peer review

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- Investigations and Lake Management Plans for:
  - Halpine Lake
  - Norfolk Lake
  - Lake Eden
  - Mungarra Lakes
  - Topaz Drive Wetland
  - Dowse Lagoon
  - Clydebank Morass
  - Billabong Parkland, Coomera Waters
  - Chancellor Park Lakes
  - Bowies Flat Wetland

+ **EROSION AND SEDIMENT CONTROL**

- Member, Erosion and Sediment Control Steering and Technical Advisory Group (2010)
- Brisbane City Council Erosion Hazard Assessment Form (2014 revision)
- Development of a regional ESC code for SEQ (with local and state government)
- Facilitation of an ESC Industry Forum for Stormwater Queensland
- Erosion and Sediment Control Business Case - Healthy Waterways
- Detailed ESC Programmes for the Bundamba Creek Realignment
- Detailed ESC Programmes for the Caltex Jetfuel pipeline and Caltex North Products pipelines
- Detailed ESC Plans for numerous urban development subdivisions

+ **FLOODING**

- Established the Flood of Ideas project ([www.floodofideas.org.au](http://www.floodofideas.org.au)) to help build community resilience to floods and natural disasters
- Dambreak assessments for 17 large dams in the Snowy Mountains and Adelaide region
- Overland flow path assessments for multiple residential developments

**OTHER ACTIVITIES**

- Queensland Leadership 2011/12
- Facilitation Masterclass 2011
- Systems Thinking Masterclass 2009
- Sessional Lecturer - QUT
- Sessional Lecturer - Griffith University
- Riversymposium Program Committee 2008 - 2011
- Chair - Stormwater Qld Policy and Strategy Committee (2014)
- RiverSymposium Program Committee (2009 - 2011)
- RiverSymposium Urban Rivers Session Chair (2008 - 2009)
- Awards Judge: Stormwater Australia, Stormwater Queensland, Engineers Australia Michael Woodhouse Award
- Urban Stormwater Quality Working Group - Water Sensitive Urban Design Chair (2008/09)

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- UDIA EnviroDevelopment Technical Standards Taskforce (2013)
- Urban Stormwater Quality Management Group (2010 - 2012)
- SEQ Executive Officers Group on Natural Resource Management (2012)
- AWA Policy and Strategy Committee (2011 - 2013)
- GreenStar advisor on stormwater standards (2012)
- Water Industry Capacity Development (WICD) University Project Roundtable
- Australian Deans of Science Forum (2013)
- Queensland 30 Year Water Plan Innovation Roundtable (2014)
- St Olafs Minnesota Study Tour (2012 - 2014)

## SELECTED PUBLICATIONS AND PRESENTATIONS

- Hoban, A.T., Mills, K.M., Tanner, C.T. & Hamlyn-Harris, D (2015) **Climate Change Impacts on Stormwater Harvesting Yields**. Water - Journal of the Australian Water Association, Feb 2015.
- Hoban (2014) **Lifecycle Water Quality Analyses**. Stormwater Queensland Conference, Noosa.
- Hoban, Tanner, Kalinowski and Gleeson (2013) **The School with no Stormwater - Noosa Flexi Learning Centre**. 8th International Conference on Water Sensitive Urban Design, Gold Coast.
- Hoban (2012) **Doing things right or doing the right things?** Stormwater Queensland Conference, Brisbane (awarded best paper).
- Hoban A.T. and Kennedy, K. (2012) **Community Perceptions of Streetscape Raingardens**. 7th International Conference on Water Sensitive Urban Design, Brisbane.
- Breen, P.F. and Hoban, A.T. (2009) **Alternative Infiltration Basin Design**. The 6th International Conference on Water Sensitive Urban Design and Hydropolis #3, Perth.
- Hoban, A.T. and Lee, G. (2009) **Interpretive Signage for Water Sensitive Urban Design**. 6th International Conference on Water Sensitive Urban Design and Hydropolis #3, Perth.
- Hoban, A.T. (2009) **Design and Operation of a Best Practice Capacity Building Program**. OzWater'09, Melbourne.
- Hoban, A.T. (2008) **The Mainstreaming of Water Sensitive Urban Design in South East Queensland**. 11th International Riversymposium, Brisbane.
- Hoban, A.T. (2008) **Developing an Institutional Capacity Building Program for Sustainable Urban Water Management: The Results of a Needs Analysis**. Stormwater'08, Gold Coast.
- Hoban, A.T. (2008) **Green Roofs and the Water Sensitive City**. 2nd Australian Green Roofs Conference, Brisbane.
- Hoban, A.T., Eadie, M.E. and Rowlands, L.P. (2007) **Urban Design Solutions for Stormwater Treatment on Flat Sites**. 5th International Water Sensitive Urban Design Conference, 21-23 August, Sydney.
- Hoban, A.T. and Rowlands, L.P. (2007) **Delivering Best Practice WSUD on Flat Sites - Bellvista Estate**. Stormwater Industry Association (Queensland) State Conference, September 2007.
- Hoban, A.T. and Wong, T.H.F. (2006) **Water Sensitive Urban Design and Resilience to Climate Change**. 1st National Hydropolis Conference, Perth.
- Hoban, A. T., Breen, P. F., and Wong, T. H. F. (2006) **Relating Water Level Variation to Vegetation Design in Constructed Wetlands Proceedings**. 4th International Conference on Water Sensitive Urban Design, Melbourne.