

Selected Publications

A list of selected publications is provided below. The impact of these research publications is indicated by Google Scholar: 2625 citations, h-index of 26 and i10 index of 49 (as at 17 February 2019); and by more recent Research Gate statistics: research interest 963.4 (top 5%) and 10,770 reads.

Journal Articles

Barry M. E., and Coombes P. J., Planning resilient water resources and communities: the need for a bottom-up systems approach, *Australasian Journal of Water Resources*, 22(2), 113-136, 2018

Coombes P. J., Two decades of monitoring, *Renew*, 145, 76-78, 2018

Coombes P. J., Status of transforming stormwater drainage to a systems approach to urban water cycle management – moving beyond green pilots, *Australasian Journal of Water Resources*, 22:1, 15-28, 2018

Lucas S. A., Coombes P. J., Geary P. M., and Horn K., On-Site Wastewater Systems: Investigating Dynamics and Diurnal Patterns Impacting on the Performance of Mound Systems, *Journal of Environmental and Analytical Toxicology*, 7(5), 1-10, 2017

Coombes P.J., Smit M. and MacDonald G., Resolving boundary conditions in economic analysis of distributed solutions for water cycle management. *Australian Journal of Water Resources*, 20(1), 11-29, 2016

Coombes P. J., Response to Reply by AR Ladson and MI Magyar in Vol 19, No.1, 88–90, *Australasian Journal of Water Resources*, 19:2, 143-145, 2015

Coombes P. J., Discussion on “Influence of Roofing Materials and Lead Flashing on Rainwater Tank Contamination by Metals” by MI Magyar, AR Ladson, C Daiper and VG Mitchell, *Australasian Journal of Water Resources*, 19:1, 86-90, 2015

Daniell K. A., Coombes P. J., and White I., Politics of innovation in multi-level governance systems. *Journal of Hydrology*. 519(C): 2415-2435 2014

Coombes P.J., 14 Key principles for water cycle policy, *Water*, Australia Water Association, Sydney Australia, 2013

Morrow A., Dunstan H., Coombes P. J., Elemental composition at different points of the rainwater harvesting system. *Science of the Total Environment*, 408(20): 4542-4548. (2010)

Martin A., Coombes P. J., Harrison T. L., Dunstan R. H., Changes in abundance of heterotrophic and coliform bacteria resident in stored water bodies in relation to

incoming bacterial loads following rain events, *Journal of Environmental Monitoring*, 12, 255-260, 2010

Martin A., Coombes P. J., Dunstan R. H., Investigating the influences of season and coastal proximity on the elemental composition of harvested rainwater, *Water Science and Technology*, 61, 25-36, 2010

Lucas S. A., Coombes P. J., Sharma A. K., The impact of diurnal water use patterns, demand management and rainwater tanks on water supply network design', *Water Science and Technology: Water Supply*, 10, 69-80, 2010

Evans C. A., Coombes P. J., Dunstan R. H., Harrison T. L., Extensive bacterial diversity indicates the potential operation of a dynamic micro-ecology within domestic rainwater storage systems, *Science of the Total Environment*, 407, 5206-5215, 2009

Lucas S. A., Coombes P. J., Planner J., Welchman S., Rainfall harvesting and coal dust: The potential health impacts of trace elements in coal dust in rainwater, *Air Quality and Climate Change*, 43, 23-30, 2009

Evans C. A., Coombes P. J., Dunstan R. H., Harrison T. L., Martin A., Morrow A. C., Rainwater tanks and microbial water quality: Are the indications clear?, *Australian Journal of Water Resources*, 12, 143-152, 2008

Thyer M. A., Hardy M. J., Coombes P. J., Patterson C., The impact of end-use dynamics on urban water system design criteria, *Australian Journal of Water Resources*, 12, 161-170, 2008

Coombes P. J., Barry M. E., The relative efficiency of water supply catchments and rainwater tanks in cities subject to variable climate and the potential for climate change, *Australian Journal of Water Resources*, 12, 85-100, 2008

Shah V., Dunstan R. H., Geary P. M., Coombes P. P., Roberts T. K., Rothkirch T. B., Bacterial source tracking from diverse land use catchments by sterol ratios, *Water Research*, 41, 3667-3674, 2007

Shah V., Dunstan R. H., Geary P. M., Coombes P. J., Roberts T. K., Rothkirch T. B., Comparisons of water quality parameters from diverse catchments during dry periods and following rain events, *Water Research*, 41, 3655-3666, 2007

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Coombes P. J., Barry M. E., The effect of selection of time steps and average assumptions on the continuous simulation of rainwater harvesting strategies, *Water Science and Technology*, 55, 125-133, 2007

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Lucas S. A., Coombes P. J., Hardy M. J., Geary P. M., Rainwater Harvesting: Revealing the Detail, *Water Journal of the Australian Water Association*, 33, 50-55, 2006

Spinks A. T., Dunstan R. H., Harrison T. L., Coombes P. J., Kuczera G. A., Thermal inactivation of water-borne pathogenic and indicator bacteria at sub-boiling temperatures, *Water Research*, 40, 1326-1332, 2006

Geary P. M., Shah V., Dunstan R. H., Coombes P. J., Rothkirch T. B., Tracing faecal contributions from on-site wastewater systems, *Water*, 33, 48-51, 2006

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Hardy M. J., Kuczera G. A., Coombes P. J., Integrated Urban Water Cycle Management: The UrbanCycle Model, *Water Science and Technology*, 52, 1-9, 2005

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Coombes P. J., Kuczera G. A., Kalma J. D., Economic, Water Quantity And Quality Impacts From The Use Of A Rainwater Tank In The Inner City, *Australian Journal of Water Resources*, 7, 111-120, 2003

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Coombes P. J., Kuczera G. A., Frost A. J., O'Loughlin G., Lees S., The Impact Of Rainwater Tanks In The Upper Parramatta River Catchment, *Australian Journal Of Water Resources*, 7, 121-129, 2003

Coombes P. J., Kuczera G. A., Kalma J. D., Argue J. R., An Evaluation Of The Benefits Of Source Control Measures At The Regional Scale, *Urban Water*, 4, 307-320, 2002

Coombes P. J., Micevski T., Kuczera G. A., Deterioration, depreciation and serviceability of stormwater pipes, *Waterfall*, Journal of the Stormwater Industry Association, 2002

Micevski T., Kuczera G. A., Coombes P. J., Argue J. R., Markov Model For Storm Water Pipe Deterioration', *Journal Of Infrastructure Systems*, 8(2), 49-56, 2002

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Coombes P. J., Geomatics? Low Quality Students? *The Australian Surveyor*, 40(2), 149-152, 1995

Chapter in Book or Book

Avis R., Avis M., Essential rainwater harvesting -a guide to home scale system design, Edited by Coombes P.J., New Society Publishers, Canada, 2019

Coombes P. J., Roso S., Chapter 1: Introduction, Book 9: Runoff in Urban Areas, *Australian Rainfall and Runoff*, Commonwealth of Australia (Geosciences Australia), Australia, 2018

Coombes P. J., Roso S., Chapter 3: Philosophy of Urban Stormwater Management, Book 9: Runoff in Urban Areas, *Australian Rainfall and Runoff*, Commonwealth of Australia (Geosciences Australia), Australia, 2018

Coombes P. J., Roso S., Chapter 6: Modelling approaches, Book 9: Runoff in Urban Areas, *Australian Rainfall and Runoff*, Commonwealth of Australia (Geosciences Australia), Australia, 2018

Coombes P. J., Roso S., Editors, Book 9: Runoff in Urban Areas, *Australian Rainfall and Runoff*, Commonwealth of Australia (Geosciences Australia), Australia, 2018

Coombes P. J., Mitchell G., Urban Water Harvesting and Reuse, *Australian runoff quality : a guide to water sensitive urban design*, Engineers Australia, Canberra, Australian Capital Territory, 6.1 - 6.15, Australia, 2006

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Coombes P. J., Barry, M. E., Smit, M., Bottom up systems analysis of urban water resources and market mechanisms for pricing water and sewage services. *Hydrology and Water Resources Symposium (HWRS 2018): Water and Communities*, Engineers Australia, Melbourne, Australia, 2018

Coombes P.J., Barry M. E., Systems analysis reveals challenges of climate change on linked towns and irrigation districts connected to Murray Darling basin, *4th Practical Responses to Climate Change Conference: "Climate Adaptation 2018: Learn, Collaborate, Act*, Melbourne, Australia, 2018

Coombes P. J., Systems Analysis quantifies urban stormwater resources and market mechanisms for pricing stormwater and environmental management, *Stormwater 2018*, Stormwater Australia, Sydney, Australia, 2018

Coombes P. J., Colegate M., Buchanan S., Use of direct rain as an investigation process and design of basins using ARR2016 methods, *Stormwater 2018*, Stormwater Australia, Sydney, Australia, 2018

Coombes P. J., Barry, M. E., Smit, M., Systems analysis and big data reveals economic efficiency of solutions at multiple scales, *OzWater 2018*, Australian Water Association, Brisbane, Australia, 2018

Coombes P. J., Two decades of household water and energy monitoring - rainwater harvesting to solar battery storage, *10th International Conference on Water Sensitive Urban Design: Creating water sensitive communities (WSUD 2018 & Hydropolis 2018)*, Engineers Australia, Perth, Australia, 2018

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Coombes P. J; Colegate M., Barber L., Babister M., A modern perspective on hydrology processes of two catchments in regional Victoria, *37th Hydrology & Water Resources Symposium 2016: Water, Infrastructure and the Environment*, Engineers Australia, Queenstown, New Zealand, 2016

Coombes P. J., Smit M., Byrne J., Walsh C. J., Stormwater, waterway benefits and water resources benefits of water conservation measures for Australian cities, *37th Hydrology & Water Resources Symposium 2016: Water, Infrastructure and the Environment, Engineers Australia, Queenstown, New Zealand, 2016*

Coombes P.J and M.E. Barry., Impact of spatial and temporal averages on prediction of water security using systems analysis, *37th Hydrology & Water Resources Symposium 2016: Water, Infrastructure and the Environment, Engineers Australia, Queenstown, New Zealand, 2016*

Coombes P. J., Smit M., Byrne J., Walsh C. J., Water resources, stormwater and waterway benefits of water conservation measures for Australian capital cities, *Stormwater 2016, Stormwater Australia, Gold Coast, Queensland, Australia, 2016*

Coombes P. J.; Colegate M., Barber L., Babister M., A modern perspective on the hydrology processes of Armstrong Creek and Canadian Creek catchments in regional Victoria, *Stormwater 2016, Stormwater Australia, Gold Coast, Queensland, Australia, 2016*

Coombes P. J., Babister, M., McAlister T., Is the science and data underpinning the rational method robust for use in evolving urban catchments, *36th Hydrology and Water Resources Symposium: The art and science of water, Engineers Australia, Hobart, Australia, 2015*

Coombes P. J., Downes G., A decade of observations of local water cycle management at the Buderim Escape project, *36th Hydrology and Water Resources Symposium: The art and science of water, Engineers Australia, Hobart, Australia, 2015*

Coombes P. J., Transitioning Drainage into Urban Water Cycle Management, *36th Hydrology and Water Resources Symposium: The art and science of water, Engineers Australia, Hobart, Australia, 2015*

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Coombes P.J and M.E. Barry., Key insights from development of policies for integrated water cycle management that include stormwater in Systems Frameworks

for Big Data analysis, *3rd National Conference on Urban Water Management*, Stormwater Australia, Adelaide, 2014

Coombes P.J., A systems framework of big data driving policy making – Melbourne's water future, *OzWater14 Conference*, Australian Water Association, Brisbane, Australia, 2014

Coombes P.J., Want S., Colegate M., Development of Policies for Water Cycle Reform in Greater Melbourne and Sydney. Water and Climate – policy implementation challenges. Engineers Australia, Canberra, Australia, 2012

Coombes P.J., and M.E. Barry, The impact of spatial and temporal averages on prediction of water security using systems analysis – towards understanding the true potential of WSUD, *7th International Conference on WSUD*, Melbourne, 2012

Coombes P.J., Insights into Household Water Use Behaviours Throughout South East Queensland During Drought. *34th Hydrology and Water Resources Symposium*, Sydney, Australia, 2012

Coombes P.J., Integrated Systems Analysis to Create Evidence Based Policies for Water Cycle Reform in Greater Melbourne. *34th Hydrology and Water Resources Symposium*, Sydney, Australia, 2012

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Daniel K., Coombes P. J., White I., Multi-level governance and politics of innovation uptake in the water sector, *33rd Hydrology and Water Resources Symposium*, Brisbane, Australia, 2010

Coombes P.J., Colegate M., Bethke K., Integrated water cycle management at Doncaster Hill. *33rd Hydrology and Water Resources Symposium*, Brisbane, Australia, 2010

Thyer M. A., Duncan H., Coombes P. J., Kuczera G. A., Micevski T., A probabilistic behavioural approach for the dynamic modelling of indoor household water use, *H2009: 32nd Hydrology and Water Resources Symposium*, Newcastle, New South Wales, Australia, 2009

Micevski T., Thyer M. A., Coombes P. J., Evaluation of a behavioural approach and a regression approach for the modelling of household-scale outdoor water use, *H2009: 32nd Hydrology and Water Resources Symposium*, Newcastle, New South Wales, Australia, 2009

Lucas S. A., Coombes P. J., Improving downpipe and gutter configuration on a residential dwelling to increase rainwater yield, *H2009: 32nd Hydrology and Water Resources Symposium*, Newcastle, New South Wales, Australia, 2009

Lucas S. A., Coombes P. J., Mains water savings and stormwater management benefits from large architecturally-designed under-floor rainwater storages, *H2009: 32nd Hydrology and Water Resources Symposium*, Newcastle, New South Wales, Australia, 2009

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Lucas S. A., Coombes P. J., The performance of infiltration trenches constructed to manage stormwater runoff from an existing urbanised catchment, *H2009: 32nd Hydrology and Water Resources Symposium*, Newcastle, New South Wales, Australia, 2009

Coombes P. J., The use of rainwater tanks as a supplement or replacement for onsite stormwater detention (OSD) in the Knox area of Victoria, *H2009: 32nd Hydrology and Water Resources Symposium*, Newcastle, New South Wales, Australia, 2009

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Hardy M., Kuczera G. A., Coombes P. J., Barbour E., Jurd K., An evaluation of the performance of the application of the urbanCycle model to a gauged urban catchment, *Rainwater and Urban Design Conference 2007*, Sydney, Australia, 2007

Lucas S. A., Coombes P. J., Geary P. M., Dunstan R. H., Assessing catchment water quality: The 'Snapshot Study', *Rainwater and Urban Design Conference 2007*, Sydney, Australia, 2007

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Geary P. M., Lucas S. A., Shah V., Dunstan R. H., Coombes P. J., Contaminant transport in surface and groundwaters from wastewater systems in a coastal catchment, *Innovation and Technology for On-site Systems: On-site '07 Conference*, Armidale, New South Wales, Australia, 2007

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Barry M, Coombes P. J., Optimisation of mains trickle topup volumes and rates supplying rainwater tanks in the Australian urban setting, *Rainwater and Urban Design Conference 2007*, Sydney, Australia, 2007

Lucas S. A., Coombes P. J., Geary P. M., Dunstan R. H., Rainwater harvesting and wastewater reuse in peri-urban areas, *Rainwater and Urban Design Conference 2007*, Sydney, Australia, 2007

Evans C. A., Coombes P. J., Dunstan R. H., Harrison T. L., Martin A., Morrow A. C., Roof harvested rainwater - Indicator organisms, water quality and risk assessment, *Rainwater and Urban Design Conference 2007*, Sydney, Australia, 2007

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Martin A., Coombes P. J., Dunstan R. H., Evans C. A., Morrow A. C., The passage of direct precipitation to rainwater storage: A case study, *Rainwater and Urban Design Conference 2007*, Sydney, Australia, 2007

Barton A., Coombes P. J., Rodriguez J. F., Understanding ecological response in urban catchments, *Rainwater and Urban Design Conference 2007*, Sydney, Australia, 2007

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Coombes P. J., Jayakody C., Anson C., Foster G., Development, Analysis and Monitoring of a WSUD and IWCM strategy for The Groves project in Mernda Victoria, *30th Hydrology & Water Resources Symposium: Conference Proceedings*, Launceston, Tasmania, Australia, 2006

Hardy M., Kuczera G. A., Coombes P. J., Embedded Hierarchical Network Modelling: A Means to Integrate Across Scales and System, *7th International Conference on Urban Drainage Modelling and the 4th International Conference on Water Sensitive Urban Design (7UDM + 4WSUD)*, Melbourne, Australia, 2006

Coombes P. J., Energy and Economic Impacts of Rainwater Tanks in Urban Areas on the Operation of Regional Water Systems, *30th Hydrology & Water Resources Symposium: Conference Proceedings*, Launceston, Tasmania, Australia, 2006

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Coombes P. J., Insights From A Decade Of Research Into The Quality Of Rainwater Supplies Collected From Roofs, *2nd IWA-ASPIRE Conference and Exhibition*, Fremantle, Western Australia, Australia, 2006

Coombes P. J., Dunstan R. H., Spinks A. T., Evans C. A., Harrison T. L., Key Messages from a Decade of Water Quality Research into Roof Collected Rainwater Supplies, *Hydropolis Conference*, Perth, Western Australia, Australia, 2006

Shah V., Dunstan R. H., Geary P. M., Coombes P. J., Limitations of Faecal Sterol Ratio Analyses in Distinguishing Sources of Faecal Contamination in Mixed Land Use Water Catchments, *7th International Conference on Urban Drainage Modelling and the 4th International Conference on Water Sensitive Urban Design (7UDM + 4WSUD)*, Melbourne, Australia, 2006

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Coombes P. J., Lucas S. A., Towards Sustainable Water Strategies in the Perth Region of Western Australia: Inclusion of Decentralised Options, *Hydropolis Conference*, Perth, Western Australia, 2006

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Geary P. M., Shah V., Dunstan R. H., Coombes P. J., Rothkirch T. B., Bacterial Source Tracing Methods to Distinguish Between Faecal Contributions from On-Site Wastewater Systems, *Proceedings of the Performance Assessment for On-Site Systems: Regulation, operation and monitoring conference*, University of New England, Armidale, Australia, 2005

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Coombes P. J., Kozaroski P., Development of a regional model to understand the hydrological and economic benefits of rainwater tanks across NSW, *29th Hydrology and Water Resources Symposium*, Engineers Australia, Canberra, Australia, 2005

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Barry M. E., McAlister A. B., Coombes P. J., Modelling the Urban Water Cycle in South East Queensland, *Environmental Engineering Society National Conference*, Sydney, Australia, 2005

Barry M. E., McAlister A. B., Coombes P. J., A Three-Tier Approach to Urban Water Cycle Modelling in South East Queensland, *IPWEA Queensland Division Conference 2004*, Warwick, New South Wales, Australia, 2004

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Hardy M. J., Coombes P. J., Kuczera G. A., An Investigation Of Estate Level Impacts Of Spatially Distributed Rainwater Tanks, *Cities as Catchments: WSUD2004*, Adelaide, South Australia, Australia, 2004

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Coombes P. J., Integrated Water and Energy Management at the Newcastle Lighthouse Site, *Cities as Catchments: WSUD2004*, Adelaide, South Australia, Australia, 2004

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