

# Publications for 2015

## Book:

Murray, J., McBain, D., & Wiedmann, T. *The Sustainability Practitioner's Guide to Social Analysis and Assessment*. Champaign, Illinois, USA: Common Ground Publishing LLC.

## Book Chapters:

Chanan, A., Vigneswaran, S., Kandasamy, J., & Khan, S. J. Introduction to sewer mining: Technology and health risks. In A. F. Memon & S. Ward (Eds.), *Alternative Water Supply Systems* (pp. 289-307). London: IWA Publishing.

## Journal Articles:

Ahmadalipour, A., Rana, A., Moradkhani, H., & Sharma, A. Multi-criteria evaluation of CMIP5 GCMs for climate change impact analysis. *Theoretical and Applied Climatology*, 1-17.

Ajami, H., McCabe, M. F., & Evans, J. P. Impacts of model initialization on an integrated surface water-groundwater model. *Hydrological Processes*, 29(17), 3790-3801.

Alexova, R., Dang, T. C., Fujii, M., Raftery, M. J., Waite, T. D., Ferrari, B. C., & Neilan, B. A. Specific global responses to N and Fe nutrition in toxic and non-toxic *Microcystis aeruginosa*. *Environmental Microbiology*. 18(2), 401-413

Apurv, T., Mehrotra, R., Sharma, A., Goyal, M. K., & Dutta, S. Impact of climate change on floods in the Brahmaputra basin using CMIP5 decadal predictions. *Journal of Hydrology*, 527, 281-291.

Asadi Zarch, M. A., Sivakumar, B., & Sharma, A. Assessment of global aridity change. *Journal of Hydrology*, 520, 300-313.

Asadi Zarch, M. A., Sivakumar, B., & Sharma, A. Droughts in a warming climate: A global assessment of Standardized precipitation index (SPI) and Reconnaissance drought index (RDI). *Journal of Hydrology*, 526, 183-195.

Barnard, P. L., Short, A. D., Harley, M. D., Splinter, K. D., Vitousek, S., Turner, I. L., Allan, J., Banno, M., Bryan, K.R., Doria, A., Hansen, J.E., Kato, S., Kuriyama, Y., Randall-Goodwin, E., Ruggiero, P., Walker, I.J., & Heathfield, D. K. Coastal vulnerability across the Pacific dominated by El Niño/Southern Oscillation. *Nature Geoscience*, 8(10), 801-807.

Bellon-Maurel, V., Peters, G. M., Clermidy, S., Frizarin, G., Sinfort, C., Ojeda, H., Rouz, P., & Short, M. D. Streamlining life cycle inventory data generation in agriculture using traceability data and information and communication technologies e part II: Application to viticulture. *Journal of Cleaner Production*, 87(1), 119-129.

Blenkinsopp, C. E., Matias, A., Howe, D., Castelle, B., Marieu, V., & Turner, I. L. Wave runup and overwash on a prototype-scale sand barrier. *Coastal Engineering*. 113, 88-103.

Branch, A. D., Trinh, T., Carvajal, G., Coleman, H. M., Leslie, G., Stuetz, R. M., Drewes, J., Khan, S. J., & Le Clech, P. Hazardous events in membrane bioreactors – Part 3: Impacts on microorganism log removal efficiencies. *Journal of Membrane Science*, 497, 514-523.

Carvajal, G., Roser, D. J., Sisson, S. A., Keegan, A., & Khan, S. J. Modelling pathogen log<sub>10</sub> reduction values achieved by activated sludge treatment using naïve and semi naïve Bayes network models. *Water Research*, 85, 304-315.

Castelle, B., Marieu, V., Bujan, S., Splinter, K. D., Robinet, A., Sénéchal, N., & Ferreira, S. Impact of the winter 2013-2014 series of severe Western Europe storms on a double-barred sandy coast: Beach and dune erosion and megacusp embayments. *Geomorphology*, 238, 135-148.

Choudhury, D., Sharma, A., Sivakumar, B., Sen Gupta, A., & Mehrotra, R. On the predictability of SSTA indices from CMIP5 decadal experiments. *Environmental Research Letters*, 10(7).

Clark, M. W., Payne, T. E., Harrison, J. J., Comarmond, M. J., Collins, R. N., & Reichelt-Brushett, A. J. Reversibility of uranium and thorium binding on a modified bauxite refinery residue: The effects of aging temperature. *Applied Geochemistry*, 53, 79-90.

Collins, R. N., Jones, A. M., Waite, T. D., He, D., & Ma, X. Reductive Reactivity of Borohydride- and Dithionite-synthesized Iron-based Nanoparticles: A Comparative Study. *Journal of Hazardous Materials*, 303, 101-110

Cortés-Hernández, V. E., Zheng, F., Evans, J., Lambert, M., Sharma, A., & Westra, S. Evaluating regional climate models for simulating sub-daily rainfall extremes. *Climate Dynamics*, 1-16.

Davies, P. J., Gore, D. B., & Khan, S. J. Managing produced water from coal seam gas projects: implications for an emerging industry in Australia. *Environmental Science and Pollution Research*, 22(14) 10981-11000

De Nijs, A. H. A., Parinussa, R. M., De Jeu, R. A. M., Schellekens, J., & Holmes, T. R. H. A Methodology to Determine Radio-Frequency Interference in AMSR2 Observations. *IEEE Transactions on Geoscience and Remote Sensing*, 53(9), 5148-5159.

Drewes, J. E., & Khan, S. J. Contemporary design, operation, and monitoring of potable reuse systems. *Journal of Water Reuse and Desalination*, 5(1), 1-7

Felder, S., & Chanson, H. Aeration, Flow Instabilities, and Residual Energy on Pooled Stepped Spillways of Embankment Dams. Closure. *Journal of Irrigation and Drainage Engineering*, ASCE, 141(2).

Felder, S., & Chanson, H. Phase-detection probe measurements in high-velocity free-surface flows including a discussion of key sampling parameters. *Experimental Thermal and Fluid Science*, 61, 66-78.

Fujii, M., Yeung, A. C. Y., & Waite, T. D. Competitive Effects of Calcium and Magnesium Ions on the Photochemical Transformation and Associated Cellular Uptake of Iron by the Freshwater

Cyanobacterial Phytoplankton *Microcystis aeruginosa*. *Environmental Science and Technology*, 49(15), 9133-9142.

Fujioka, T., Khan, S. J., McDonald, J. A., & Nghiem, L. D. Rejection of trace organic chemicals by a nanofiltration membrane: the role of molecular properties and effects of caustic cleaning. *Environmental Science-Water Research & Technology*, 1(6), 846-854

Fujioka, T., Khan, S. J., McDonald, J. A., & Nghiem, L. D. Validating the rejection of trace organic chemicals by reverse osmosis membranes using a pilot-scale system. *Desalination*, 358, 18-26.

Garg, S., Jiang, C., & Waite, T. D. Mechanistic insights into iron redox transformations in the presence of natural organic matter: Impact of pH and light. *Geochimica et Cosmochimica Acta*, 165, 14-34.

Golian, S., Fallahi, M. R., Behbahani, S. M., Sharifi, S., & Sharma, A. Real-Time Updating of Rainfall Threshold Curves for Flood Forecasting. *Journal of Hydrologic Engineering*, 20(4).

Gragne, A. S., Alfredsen, K., Sharma, A., & Mehrotra, R. Recursively updating the error forecasting scheme of a complementary modelling framework for improved reservoir inflow forecasts. *Journal of Hydrology*, 527, 967-977.

Gragne, A. S., Sharma, A., Mehrotra, R., & Alfredsen, K. Improving real-time inflow forecasting into hydropower reservoirs through a complementary modelling framework. *Hydrology and Earth System Sciences*, 19(8), 3695-3714.

Guan, X., Sun, Y., Qin, H., Li, J., Lo, I. M. C., He, D., & Dong, H. The limitations of applying zero-valent iron technology in contaminants sequestration and the corresponding countermeasures: The development in zero-valent iron technology in the last two decades (1994-2014). *Water Research*, 75, 224-248.

Haddad, K., Johnson, F., Rahman, A., Green, J., & Kuczera, G. Comparing three methods to form regions for design rainfall statistics: Two case studies in Australia. *Journal of Hydrology*, 527, 62-76.

Hadjikakou, M., Miller, G., Chenoweth, J., Druckman, A., & Zoumidis, C. A comprehensive framework for comparing water use intensity across different tourist types. *Journal of Sustainable Tourism*, Published online: 30 Jul 2015.

Hambly, A. C., Henderson, R. K., Baker, A., Stuetz, R. M., & Khan, S. J. Application of portable fluorescence spectrophotometry for integrity testing of recycled water dual distribution systems. *Appl Spectrosc*, 69(1), 124-129.

Han, X., Wang, Z., Ma, J., Zheng, J., Wang, P., & Wu, Z. Formation and removal of dissolved organic nitrogen (DON) in membrane bioreactor and conventional activated sludge processes. *Environmental Science and Pollution Research*, 22(16), 12633-12643.

Han, X., Wang, Z., Ma, J., Zhu, C., Li, Y., & Wu, Z. Membrane bioreactors fed with different COD/N ratio wastewater: impacts on microbial community, microbial products, and membrane fouling. *Environmental Science and Pollution Research*, 22(15), 11436-11445.

Harley, M. D., Turner, I. L., & Short, A. D. New insights into embayed beach rotation: The importance of wave exposure and cross-shore processes. *Journal of Geophysical Research F: Earth Surface*, 120(8), 1470-1484.

Harley, M. D., Valentini, A., Armaroli, C., Perini, L., Calabrese, L., & Ciavola, P. Can an early warning system help minimize the impacts of coastal storms? A case study of the 2012 Halloween storm, Northern Italy. *Natural Hazards and Earth System Sciences Discussions*, 3(5), 3409-3448.

Hassan, M. M., Peirson, W. L., Neyland, B. M., & Fiddis, N. M. Evaporation mitigation using floating modular devices. *Journal of Hydrology*, 530, 742-750.

Henderson, R. K., Shutova, Y., Baker, A., Zamyadi, A., Le Clech, P., Branch, A., Newcombe, G., Khan S., & Stuetz, R. M. Fluorescence: State-of-the-art monitoring for water treatment systems. *Water: Journal of the Australian Water Association*, 42(2), 108-113.

Huang, J., Wang, Z., Zhang, J., Zhang, X., Ma, J., & Wu, Z. A novel composite conductive microfiltration membrane and its anti-fouling performance with an external electric field in membrane bioreactors. *Scientific Reports*, 5, 9268-9268.

Incelli, G., Dodd, N., Blenkinsopp, C. E., Zhu, F., & Briganti, R. Morphodynamical modelling of field-scale swash events. *Coastal Engineering*. 115, 42-57

Ito, H., Fujii, M., Masago, Y., Waite, T. D., & Omura, T. Effect of ionic strength on ligand exchange kinetics between a mononuclear ferric citrate complex and siderophore desferrioxamine B. *Geochimica et Cosmochimica Acta*, 154, 81-97.

Jackson, N. L., Harley, M. D., Armaroli, C., & Nordstrom, K. F. Beach morphologies induced by breakwaters with different orientations. *Geomorphology*, 239(C), 48-57.

Jha, S. K., Mariethoz, G., Evans, J., McCabe, M. F., & Sharma, A. A space and time scale-dependent nonlinear geostatistical approach for downscaling daily precipitation and temperature. *Water Resources Research*, 51(8), 6244-6261.

Jha, S. K., Mariethoz, G., Mathews, G., Vial, J., & Kelly, B. F. J. Influence of Alluvial Morphology on Upscaled Hydraulic Conductivity. *Groundwater*. 54(3)

Jha, S. K., Zhao, H., Woldemeskel, F. M., & Sivakumar, B. Network theory and spatial rainfall connections: An interpretation. *Journal of Hydrology*, 527, 13-19.

Jiang, C., Garg, S., & Waite, T. D. Hydroquinone-Mediated Redox Cycling of Iron and Concomitant Oxidation of Hydroquinone in Oxidic Waters under Acidic Conditions: Comparison with Iron-Natural Organic Matter Interactions. *Environmental Science and Technology*, 49(24), 14076-14084.

Johnson, F., & Sharma, A. What are the impacts of bias correction on future drought projections? *Journal of Hydrology*, 525, 472-485.

Jones, A. M., Griffin, P. J., Collins, R. N., & Waite, T. D. Corrigendum to "Ferrous iron oxidation

under acidic conditions - The effect of ferric oxide surfaces" [Geochim. Cosmochim. Acta 140 (2014) 1-12]. *Geochimica et Cosmochimica Acta*, 156, 241.

Jones, A. M., Griffin, P. J., & Waite, T. D. Ferrous iron oxidation by molecular oxygen under acidic conditions: The effect of citrate, EDTA and fulvic acid. *Geochimica et Cosmochimica Acta*, 160, 117-131.

Kagawa, S., Suh, S., Hubacek, K., Wiedmann, T., Nansai, K., & Minx, J. CO<sub>2</sub> emission clusters within global supply chain networks: Implications for climate change mitigation. *Global Environmental Change*, 35, 486-496.

Kander, A., Jiborn, M., Moran, D. D., & Wiedmann, T. O. National greenhouse-gas accounting for effective climate policy on international trade. *Nature Climate Change*, 5, 431-435.

Khan, M. Z. K., Sharma, A., Mehrotra, R., Schepen, A., & Wang, Q. J. Does improved SSTA prediction ensure better seasonal rainfall forecasts? *Water Resources Research*, 51(5), 3370-3383.

Khan, S. J. Potable reuse of water. *Environmental Science-Water Research & Technology*, 1(5), 550-553.

Khan, S. J., Deere, D., Leusch, F. D. L., Humpage, A., Jenkins, M., & Cunliffe, D. Extreme weather events: Should drinking water quality management systems adapt to changing risk profiles? *Water Research*, 85, 124-136.

Kim, S., Parinussa, R. M., Liu, Y. Y., Johnson, F. M., & Sharma, A. A framework for combining multiple soil moisture retrievals based on maximizing temporal correlation. *Geophysical Research Letters*, 42(16), 6662-6670

Kleindl, W. J., Rains, M. C., Marshall, L. A., & Hauer, F. R. Fire and flood expand the floodplain shifting habitat mosaic concept. *Freshwater Science*, 34(4), 1366-1382.

Kobayashi, Y., Peters, G. M., Ashbolt, N. J., Heimersson, S., Svanström, M., & Khan, S. J. Global and local health burden trade-off through the hybridisation of quantitative microbial risk assessment and life cycle assessment to aid water management. *Water Research*, 79, 26-38.

Kobayashi, Y., Peters, G. M., Ashbolt, N. J., Shiels, S., & Khan, S. J. Assessing burden of disease as disability adjusted life years in life cycle assessment. *Science of The Total Environment*, 530-531, 120-128.

Kobayashi, Y., Peters, G. M., & Khan, S. J. Towards more holistic environmental impact assessment: Hybridisation of life cycle assessment and quantitative risk assessment. *Procedia CIRP*, 29, 378-383

Koenig, J. C., Boparai, H. K., Lee, M. J., O'Carroll, D. M., Barnes, R. J., & Manefield, M. J. Particles and enzymes: Combining nanoscale zero valent iron and organochlorine respiring bacteria for the detoxification of chloroethane mixtures. *Journal of Hazardous Materials*, 308, 106-112.

Kolařík, M., Hujslová, M., & Vazquez Campos, X. Acidotolerant genus *Fodinomyces*

- (Ascomycota: Capnodiales) is a synonym of *Acidiella*. *Czech Mycology*, 67(1), 37-38.
- Lawler, W., Alvarez-Gaitan, J., Leslie, G., & Le-Clech, P. Comparative life cycle assessment of end-of-life options for reverse osmosis membranes. *Desalination*, 357, 45-54.
- Le, H. V., Sivret, E. C., Parcsi, G., & Stuetz, R. M. Impact of storage conditions on the stability of volatile sulfur compounds in sampling bags. *Journal of Environmental Quality*, 44(5), 1523-1529.
- Lei, F., Crow, W. T., Shen, H., Parinussa, R. M., & Holmes, T. R. H. The impact of local acquisition time on the accuracy of microwave surface soil moisture retrievals over the contiguous United States. *Remote Sensing*, 7(10), 13448-13465.
- Li, J., Sharma, A., Johnson, F., & Evans, J. Evaluating the effect of climate change on areal reduction factors using regional climate model projections. *Journal of Hydrology*, 528, 419-434.
- Li, J. E., Zamyadi, A., & Hofmann, R. Effect of granular activated carbon type and age on quenching HOresiduals after UV/HODrinking water treatment. *Journal of Water Supply: Research and Technology - Aqua*, 65(1), 28-36.
- Li, X., Liu, T., Wang, K., & Waite, T. D. Light-induced extracellular electron transport by the marine raphidophyte *chattonella marina*. *Environmental Science and Technology*, 49(3), 1392-1399.
- Ma, J., Wang, Z., He, D., Li, Y., & Wu, Z. Long-term investigation of a novel electrochemical membrane bioreactor for low-strength municipal wastewater treatment. *Water Research*, 78, 98-110.
- Ma, J., Wang, Z., Mao, B., Zhan, J., & Wu, Z. Electrochemical Membrane Bioreactors for Sustainable Wastewater Treatment: Principles and Challenges. *Current Environmental Engineering*, 2(1), 38-49
- Ma, J., Wang, Z., Zang, L., Huang, J., & Wu, Z. Occurrence and fate of potential pathogenic bacteria as revealed by pyrosequencing in a full-scale membrane bioreactor treating restaurant wastewater. *RSC Adv.*, 5(31), 24469-24478.
- Ma, T., Garg, S., Miller, C. J., & Waite, T. D. Contaminant degradation by irradiated semiconducting silver chloride particles: kinetics and modelling. *Journal of Colloid and Interface Science*, 446, 366-372.
- Masselink, G., Ruju, A., Conley, D., Turner, I., Ruessink, G., Matias, A., Thompson, C., Castelle, B., Puleo, J., Citerone, V., & Wolters, G. Large-scale Barrier Dynamics Experiment II (BARDEX II): Experimental design, instrumentation, test program, and data set. *Coastal Engineering*. 113, 3-18.
- Mehrotra, R., Li, J., Westra, S., & Sharma, A. A programming tool to generate multi-site daily rainfall using a two-stage semi parametric model. *Environmental Modelling and Software*, 63, 230-239.
- Mehrotra, R., & Sharma, A. Correcting for systematic biases in multiple raw GCM variables across a range of timescales. *Journal of Hydrology*, 520, 214-223.

Mishra, A. K., Ines, A. V. M., Das, N. N., Prakash Khedun, C., Singh, V. P., Sivakumar, B., & Hansen, J. W. Anatomy of a local-scale drought: Application of assimilated remote sensing products, crop model, and statistical methods to an agricultural drought study. *Journal of Hydrology*, 526, 15-29.

Mishra, A. K., Sivakumar, B., & Singh, V. P. Drought processes, modeling, and mitigation. *Journal of Hydrology*, 526, 1-2.

Naseem, B., Ajami, H., Cordery, I., & Sharma, A. A multi-objective assessment of alternate conceptual ecohydrological models. *Journal of Hydrology*, 529, 1221-1234

Norman, L., Worms, I. A. M., Angles, E., Bowie, A. R., Nichols, C. M., Ninh Pham, A., Salveykova, V., Townsend, A., Waite, T. D. & Hassler, C. S. The role of bacterial and algal exopolymeric substances in iron chemistry. *Marine Chemistry*, 173, 148-161.

Palmsten, M. L., & Splinter, K. D. Observations and simulations of wave runup during a laboratory dune erosion experiment. *Coastal Engineering*. 115, 58-66.

Parinussa, R. M., Holmes, T. R. H., Wanders, N., Dorigo, W. A., & De Jeu, R. A. M. A preliminary study toward consistent soil moisture from AMSR2. *Journal of Hydrometeorology*, 16(2), 932-947.

Patnaik, S., Biswal, B., Nagesh Kumar, D., & Sivakumar, B. Effect of catchment characteristics on the relationship between past discharge and the power law recession coefficient. *Journal of Hydrology*, 528, 321-328.

Peirson, W., Davey, E., Jones, A., Hadwen, W., Bishop, K., Beger, M., Capon, S., Fairweather, P., Creese, B., Smith, T. F., Gray, L., & Tomlinson, R. Opportunistic management of estuaries under climate change: A new adaptive decision-making framework and its practical application. *Journal of Environmental Management*, 163(C), 214-223.

Pells, S. E., & Peirson, W. L. Discussion: "Evaluation of Overtopping Riprap Design Relationships" by Steven R. Abt, Christopher I. Thornton, Bryan A. Scholl, and Theodore R. Bender. *Journal of the American Water Resources Association*, 51(2), 569-572.

Petterson, S., Roser, D., & Deere, D. Characterizing the concentration of Cryptosporidium in Australian surface waters for setting health-based targets for drinking water treatment. *Journal of Water and Health*, 13(3), 879-879.

Phan, H. V., Hai, F. I., McDonald, J. A., Khan, S. J., van de Merwe, J. P., Leusch, F. D. L., Zhang, R., Price, W. E., Broeckmann, A., & Nghiem, L. D. Impact of hazardous events on the removal of nutrients and trace organic contaminants by an anoxic-aerobic membrane bioreactor receiving real wastewater. *Bioresource Technology*, 192, 192-201.

Phan, H. V., Hai, F. I., McDonald, J. A., Khan, S. J., Zhang, R., Price, W. E., Broeckmann, A., & Nghiem, L. D. Nutrient and trace organic contaminant removal from wastewater of a resort town: Comparison between a pilot and a full scale membrane bioreactor. *International Biodeterioration and Biodegradation*, 102, 40-48.

Prata, A. A., Santos, J. M., Beghi, S. P., Fernandes, I. F., Vom Marttens, L. L. C., Pereira Neto, L. I., Martins. R. S., Reis Jr. N. C., & Stuetz, R. M. Dynamic flux chamber measurements of hydrogen sulfide emission rate from a quiescent surface - A computational evaluation. *Chemosphere*, 146, 426-434

Qiu, S., He, D., Ma, J., Liu, T., & Waite, T. D. Kinetic Modeling of the Electro-Fenton Process: Quantification of Reactive Oxygen Species Generation. *Electrochimica Acta*, 176, 51-58.

Rayner, D. S., Glamore, W. C., & Ruprecht, J. E. Predicting the buffering of acid plumes within estuaries. *Estuarine, Coastal and Shelf Science*, 164, 56-64.

Ridoutt, B., Fantke, P., Pfister, S., Bare, J., Boulay, A., Cherubini, F., Frischknecht, R., Hauschild, M., Hellweg, S., Henderson, A., Jolliet, O., Levasseur, A., Margni, A., McKone, T., Michelsen, O., Mila I Canals, L., Page, G., Pant, R., Raugei, M., Sala, S., Saouter, E., Verones, F., & Wiedmann, T. Making Sense of the Minefield of Footprint Indicators. *Environmental Science & Technology*, 49, 2601-2603.

Rowley, H. V., Geschke, A., & Lenzen, M. A practical approach for estimating weights of interacting criteria from profile sets. *Fuzzy Sets and Systems*, 272, 70-88.

Schleier, J. J., Marshall, L. A., Davis, R. S., & Peterson, R. K. D. A quantitative approach for integrating multiple lines of evidence for the evaluation of environmental health risks. *PeerJ*, 2015(1).

Singh, S., Henderson, R. K., Baker, A., Stuetz, R. M., & Khan, S. J. Online fluorescence monitoring of RO fouling and integrity: analysis of two contrasting recycled water schemes. *Environmental Science-Water Research & Technology*, 1(5), 689-698.

Sivakumar, B. Erratum to: Networks: a generic theory for hydrology? *Stochastic Environmental Research and Risk Assessment*. 29(3), 761-771

Sivakumar, B., & Singh, V. P. Special Issue on Grand Challenges in Hydrology Introduction. *Journal of Hydrologic Engineering*, 20(1).

Sivakumar, B., Singh, V. P., Berndtsson, R., & Khan, S. K. Catchment Classification Framework in Hydrology: Challenges and Directions. *Journal of Hydrologic Engineering*, 20(1).

Sivakumar, B., & Woldemeskel, F. M. A network-based analysis of spatial rainfall connections. *Environmental Modelling and Software*, 69, 55-62.

Sivret, E. C., Wang, B., Parcsi, G., & Stuetz, R. M. Prioritisation of odorants emitted from sewers using odour activity values. *Water Research*, 88, 308-321.

Smith, T., Marshall, L., & Sharma, A. Modeling residual hydrologic errors with Bayesian inference. *Journal of Hydrology*, 528, 29-37.

Steinfeld, C. M. M., Kingsford, R. T., Webster, E. C., & Sharma, A. A simulation tool for managing environmental flows in regulated rivers. *Environmental Modelling and Software*, 73, 117-132.



Sun, Y., Pham, A. N., & Waite, T. D. Effect of chloride driven copper redox cycling on the kinetics of Fe(II) oxidation in aqueous solutions at pH 6.5-8.0. *Geochimica et Cosmochimica Acta*, 161, 118-127.

Tang, W., Kovalsky, P., He, D., & Waite, T. D. Fluoride and nitrate removal from brackish groundwaters by batch-mode capacitive deionization. *Water Research*, 84, 342-349.

Taormina, R., Chau, K. W., & Sivakumar, B. Neural network river forecasting through baseflow separation and binary-coded swarm optimization. *Journal of Hydrology*, 529, 1788-1797.

ten Hoeve, M., Nyord, T., Peters, G. M., Hutchings, N. J., Jensen, L. S., & Bruun, S. A life cycle perspective of slurry acidification strategies under different nitrogen regulations. *Journal of Cleaner Production*. 591-599.

Teo, T. L. L., Coleman, H. M., & Khan, S. J. Chemical contaminants in swimming pools: Occurrence, implications and control. *Environment International*, 76, 16-31.

Teo, T. L. L., Coleman, H. M., & Khan, S. J. Occurrence and daily variability of pharmaceuticals and personal care products in swimming pools. *Environmental Science and Pollution Research*, 23(7), 6972-6981.

Teo, T. L. L., McDonald, J. A., Coleman, H. M., & Khan, S. J. Analysis of organophosphate flame retardants and plasticisers in water by isotope dilution gas chromatography-electron ionisation tandem mass spectrometry. *Talanta*, 143, 114-120.

Trinh, T., Branch, A., Hambly, A. C., Carvajal, G., Coleman, H. M., Stuetz, R. M., Drewes, J. E., LeClech, P., & Khan, S. J. Hazardous events in membrane bioreactors - Part 1: Impacts on key operational and bulk water quality parameters. *Journal of Membrane Science*. 497(1), 494-503

Trinh, T., Coleman, H. M., Stuetz, R. M., Drewes, J. E., Le-Clech, P., & Khan, S. J. Hazardous events in membrane bioreactors - Part 2: Impacts on removal of trace organic chemical contaminants. *Journal of Membrane Science*, 497, 504-513.

Trinh, T., Coleman, H. M., Stuetz, R. M., Drewes, J. E., Le-Clech, P., & Khan, S. J. Hazardous events in membrane bioreactors (MBRs) - Part 2: Impacts on removal of trace organic chemical contaminants. *Journal of Membrane Science*. 497(1) 504-513

Turner, I. L., Rau, G. C., Austin, M. J., & Andersen, M. S. Groundwater fluxes and flow paths within coastal barriers: observations from a large-scale laboratory experiment (BARDEX II). *Coastal Engineering*. 113, 104-116

Van Leeuwen, B. R., McCarroll, R. J., Brander, R. W., Turner, I. L., Power, H. E., & Bradstreet, A. J. Examining rip current escape strategies in non-traditional beach morphologies. *Natural Hazards*, 81(1), 145-165.

Vancov, T., Schneider, R. C. S., Palmer, J., McIntosh, S., & Stuetz, R. Potential use of feedlot cattle manure for bioethanol production. *Bioresource Technology*, 183, 120-128.

Vázquez-Campos, X., Kinsela, A. S., Collins, R. N., Neilan, B. A., Aoyagi, N., & Waite, T. D. Uranium Binding Mechanisms of the Acid-Tolerant Fungus *Coniochaeta fodinicola*.

*Environmental Science and Technology*, 49(14), 8487-8496.

Vignesh, R., Jothiprakash, V., & Sivakumar, B. Streamflow variability and classification using false nearest neighbor method. *Journal of Hydrology*, 531, 706-715.

Wang, B., Sivret, E. C., Parcsi, G., & Stuetz, R. M. Determination of VOSCs in sewer headspace air using TD-GC-SCD. *Talanta*, 137, 71-79.

Wasko, C., Pui, A., Sharma, A., Mehrotra, R., & Jeremiah, E. Representing low-frequency variability in continuous rainfall simulations: A hierarchical random Bartlett Lewis continuous rainfall generation model. *Water Resources Research*, 51(12), 9995-10007.

Wasko, C., & Sharma, A. Steeper temporal distribution of rain intensity at higher temperatures within Australian storms. *Nature Geoscience*, 8(7), 527-529.

Wasko, C., Sharma, A., & Johnson, F. Does storm duration modulate the extreme precipitation-temperature scaling relationship? *Geophysical Research Letters*, 42(20), 8783-8790.

Wiedmann, T. O., Schandl, H., Lenzen, M., Moran, D., Suh, S., West, J., & Kanemoto, K. The material footprint of nations. *Proceedings of the National Academy of Sciences*, 112, 6271-6276.

Wiedmann, T. O., Schandl, H., & Moran, D. The footprint of using metals: new metrics of consumption and productivity. *Environmental Economics and Policy Studies*, 17(3), 369-388.

Wijekoon, K. C., McDonald, J. A., Khan, S. J., Hai, F. I., Price, W. E., & Nghiem, L. D. Development of a predictive framework to assess the removal of trace organic chemicals by anaerobic membrane bioreactor. *Bioresource Technology*, 189, 391-398.

Woodhouse, J. N., Kinsela, A. S., Collins, R. N., Bowling, L. C., Honeyman, G. L., Holliday, J. K., & Neilan, B. A. Microbial communities reflect temporal changes in cyanobacterial composition in a shallow ephemeral freshwater lake. *ISME Journal*, 10, 1337-1351.

Wu, H., Ikeda-Ohno, A., Wang, Y., & Waite, T. D. Iron and phosphorus speciation in Fe-conditioned membrane bioreactor activated sludge. *Water Research*, 76, 213-226.

Xin, Y., Bligh, M. W., Kinsela, A. S., Wang, Y., & Waite, D. Calcium-mediated polysaccharide gel formation and breakage: Impact on membrane foulant hydraulic properties. *Journal of Membrane Science*, 475(C), 395-405.

Zamyadi, A., Coral, L. A., Barbeau, B., Dorner, S., Lapolli, F. R., & Prévost, M. Fate of toxic cyanobacterial genera from natural bloom events during ozonation. *Water Research*, 73, 204-215.

Zamyadi, A., Henderson, R., Stuetz, R., Hofmann, R., Ho, L., & Newcombe, G. Fate of geosmin and 2-methylisoborneol in full-scale water treatment plants. *Water Research*, 83, 171-183.

Zamyadi, A., Sawade, E., Ho, L., Newcombe, G., & Hofmann, R. Impact of UV-H<sub>2</sub>O<sub>2</sub> Advanced Oxidation and Aging Processes on GAC Capacity for the Removal of Cyanobacterial Taste and Odor Compounds. *Environ Health Insights*, 9(Suppl 3), 1-10.

Zhang, Z., Bligh, M. W., & Waite, T. D. Ascorbic acid-mediated reductive cleaning of iron-fouled membranes from submerged membrane bioreactors. *Journal of Membrane Science*, 477, 194-202.

Zhang, Z., Wang, Y., Leslie, G. L., & Waite, T. D. Effect of ferric and ferrous iron addition on phosphorus removal and fouling in submerged membrane bioreactors. *Water Research*, 69(C), 210-222.

### Conference Proceedings:

Allan, R., Peirson, W., & Douglas, K. J. *Laboratory experiments and numerical modelling of backward erosion piping*. Paper presented at the TKZ2015 - XVI Dam Monitoring International Conference, Wierchomla, Poland.

Allan, R. J., Douglas, K. J., & Peirson, W. L. *Development of an experimental research program into backward erosion piping*. Paper presented at the 7th International Conference on Scour and Erosion, The University of Western Australia, Perth, Australia.

Azouz, L., Zamyadi, A., Stuetz, R., & Henderson, R. Flipped classroom approach to increase student engagement with algal harmful metabolites separation from water *International Chemical Congress of Pacific Basin Societies (PacifiChem)*. Hawaii, USA.

Barnard, P. L., Short, A. D., Harley, M. D., Allan, J., Banno, M., Bryan, K., & Walker, I. *Multi-Decadal patterns of pacific ocean physical forcing and coastal response*. Paper presented at the AGU Ocean Sciences, Honolulu, Hawaii.

Bates, B. C., McLuckie, D., Westra, S., Johnson, F. M., Green, J., Mummery, J., & Abbs, D. *Australian Rainfall and Runoff - The Interim Climate Change Guideline*. Paper presented at the HWRS2015 - The Art and Science of Water, Hobart.

Blacka, M., Flocard, F., Splinter, K. D., & Cox, R. *Estimating Wave Heights and Water Levels inside Fringing Reefs during Extreme Conditions*. Paper presented at the Australasian Coasts and Ports, Auckland, NZ.

Chen, G., Wiedmann, T., Rowley, H., & Hadjikakou, M. *Intercity Carbon Footprint Networks*. Paper presented at the 23rd International Input-Output Conference of the International Input-Output Association (IIOA), Mexico City.

Chen, G., Wiedmann, T., Rowley, H. V., & Hadjikakou, M. *Intercity Carbon Footprint Networks IELab Conference*, Sydney.

Collins, R. N., Jones, A. M., Xue, Y., Kinsela, A. S., & Fink, D. Speciation of Al, Fe, trace metals and REEs in coastal lowland acid sulfate soil drainage waters *International Symposium on Environmental Science and Technology*. Chongqing, China.

Collins, R. N., Rose, A. L., Glover, C. J., & Waite, D. Ferric iron hydrolysis and precipitation - An in situ XAS study *16th International Conference on X-ray Absorption Fine Structure*. Karlsruhe, Germany.

Collins, R. N., Rose, A. L., Glover, C. J., & Waite, T. D. Ferric Iron hydrolysis and precipitation - An in situ XAS study *16th International Conference on X-ray Absorption Fine Structure*. Karlsruhe, Germany.

Collins, R. N., Tsarev, S., Johansen, M., & Waite, D. Radionuclide speciation at former nuclear weapons testing sites and in situ technologies to immobilise aqueous uranium *Asia Oceania Forum for Synchrotron Radiation Research*. Melbourne, VIC, Australia.

Cox, R., Carley, J., Ware, D., & Colleter, G. *An overview of financing models for coastal protection in Australia*. Paper presented at the Australasian Coasts & Ports Conference, Auckland New Zealand.

Cox, R., Carley, J. T., Coghlan, I., Flocard, F., & Shand, T. *Establishing the Design Scour Level for Seawalls*. Paper presented at the Australasian Coasts & Ports Conference, Auckland New Zealand.

Cox, R., & Pearce, B. *Effectiveness of Adaptive Coastal Protection in Managing Wave Overtopping and Retaining Beach Views at the Crest of Seabee Seawalls*. Paper presented at the 24th NSW Coastal Conference, Forster NSW.

Cox, R., & Watson, P. *Developing improved methodologies for sea-level trend estimation*. Paper presented at the International Conference on Coastal Engineering, Seoul Korea.

Crookston, B., Shearin-Feimster, L. E., & Felder, S. M. *Design approaches and numerical modeling of a stepped spillway under high tailwater conditions*. Paper presented at the 35th Annual USSD Conference, Louisville, Kentucky, US.

Drummond, C. *Practical Examples Of Drone Surveying For Local Council Applications*. Paper presented at the IPWEA NSW Division Works Conference, Sydney.

Drummond, C. D., Turner, I. L., Matheen, A. N. A., Harley, M. D., & Glamore. *UAV Applications to Coastal Engineering*. Paper presented at the Australasian Coasts & Ports Conference, Auckland, New Zealand.

Ely, R., Carneiro, D., Chen, G., & Wiedmann, T. *Carbon Footprinting the Gold Coast City consumption of goods and built environment products*. Paper presented at the 23rd International Input-Output Conference of the International Input-Output Association (IIOA), Mexico City.

Felder, S. *Pressure, velocity and boundary layer distributions on an embankment weir*. Paper presented at the 36th IAHR World Congress, The Hague, The Netherlands.

Felder, S., & Chanson, H. *Scale Effects in High-Velocity Air-Water Flows on a Stepped Spillway*. Paper presented at the 36th IAHR World Congress, The Hague, The Netherlands.

Hadjikakou, M., & Wiedmann, T. *'Foodprints' for sustainability and health: an Australian case study*. Paper presented at the 11th International Conference of the European Society for Ecological Economics (ESEE): Transformations, University of Leeds, Leeds, UK.

Hadjikakou, M., & Wiedmann, T. *What sustains food consumption as countries get richer? ISIE Conference – Taking Stock of Industrial Ecology*. University of Surrey, Guildford, UK.

Harley, M. D., Barnard, P. L., & Turner, I. L. *Linkages between climate oscillations and coastal wave variability across the Pacific Basin*. Paper presented at the Coastal Sediments, San Diego, California.

Harley, M. D., Turner, I. L., Short, A. D., Bracs, M., Phillips, M., Simmons, J., & Splinter, K. *Four decades of coastal monitoring at Narrabeen-Collaroy Beach: the past, present and future of this unique dataset*. Paper presented at the Australasian Coasts and Ports Conference, Auckland, New Zealand.

Harley, M. D., Turner, I. L., Short, A. D., Bracs, M., Phillips, M. S., Simmons, J. A., & Splinter, K. D. *40 years and still going strong: the past, present and future of coastal monitoring at Narrabeen-Collaroy Beach*. Paper presented at the 24th NSW Coastal Conference, Forster NSW.

Harrison, A., & Cox, R. *Physical and Economic Feasibility of Rubble Mound Breakwater Upgrades for Sea Level Rise*. Paper presented at the Australasian Coasts & Ports Conference, Auckland New Zealand.

Johnson, F. M., White, C., Van Dijk, A., Ekstrom, M., Evans, J. P., Jakob, D., & Westra, S. *How and why are floods changing in Australia?* Paper presented at the HWRS2015 - the art and science of water, Hobart.

Lane, J., & Rowley, H. V. *Enhancing LCA with the Australian Industrial Ecology Virtual Laboratory LCM Australia: Mainstreaming Sustainability. The 9th Australian Conference for Life Cycle Assessment and Life Cycle Management*. Melbourne.

Li, X., Joll, C., Linge, K., Khan, S. J., & Henderson, R. K. *Characterisation Of Algal Organic Nitrogen Acting As N-DBP Precursors And Investigation of Potential N-DBP Formation IWA 7th international Young Water Professionals Conference*.

Li, X., Joll, C., Linge, K., Khan, S. J., & Henderson, R. K. *Characterisation Of Organic Nitrogen In Algal-Impacted Drinking Water Sources And Its Emerging N-DBP Formation Upon Chlorination*. Paper presented at the: Disinfection By-products in drinking water, Muelheim an der Ruhr, Germany.

Mohd Zaki, Z., Peirson, W., & Cox, R. *2-D Investigation of River Flow on Wave Setup in Estuaries*. Paper presented at the Australasian Coasts & Ports Conference, Auckland New Zealand.

Newcombe, G., Krasner, S., Henderson, R., & Zamyadi, A. *Optimizing Conventional Treatment for the Removal of Cyanobacteria and Toxins*. Paper presented at the American Water Works Association (AWWA) Water Quality Technology Conference (WQTC), Salt Lake City, USA.

Phillips, M., Turner, I., Cox, R., Splinter, K., & Harley, M. *Bringing back the sand: beach recovery following storm erosion*. Paper presented at the 24th NSW Coastal Conference, Forster NSW.

Phillips, M. S., Turner, I. L., Cox, R. J., Splinter, K. D., & Harley, M. D. *Will the sand come back? Observations and characteristics of beach recovery*. Paper presented at the Australasian

Coasts & Ports Conference, Auckland, New Zealand.

Rosso, K. M., Alexandrov, V., Newmann, A., Qafoku, O., Pearce, C. I., Collins, R. N., & Scherer, M. M. Interactions of ferrous iron with iron rich clay minerals with implications for redox-reactions with polyvalent radionuclides *15th International Conference on the chemistry and migration behaviour of actinides and fission products in the geosphere*. Santa Fe, NM, USA.

Rowley, H. V., & Lane, J. IELab Applications for Life Cycle Assessment *IELab Conference*. Sydney.

Rowley, H. V., Lundie, S., Gollnow, S., & van Buuren, N. *Carbon footprint of dairy products: What is the impact of different allocation approaches?* Paper presented at the AgriFoodLCA: Growth through sustainability. The 1st Life Cycle Assessment Conference for Agriculture and Food, Melbourne.

Simmons, J., Marshall, L., Turner, I., Splinter, K., Cox, R., Harley, M., & Kinsela, M. *A Robust Method of Evaluating Coastal Numerical Models: the GLUE Approach*. Paper presented at the 24th NSW Coastal Conference, Forster NSW.

Simmons, J. A., Marshall, L. A., Turner, I. L., Splinter, K. D., Cox, R. J., Harley, M. D., Kinsela, M. *A more rigorous approach to calibrating and assessing the uncertainty of coastal numerical models*. Paper presented at the Australasian Coasts & Ports Conference, Auckland, New Zealand.

Spiers, K. M., Collins, R. N., & Kappen, P. *'Forget the wet chemistry' - How the Australian Synchrotron can help with tailings and mine waste management*. Paper presented at the Tailings and mine waste management for the 21st century, Sydney, Australia.

Splinter, K. D., Simmons, J., & Turner, I. *Extension of an Empirical Dune Erosion Model*. Paper presented at the Australasian Coasts and Ports, Auckland, NZ.

Teh, S. H., Wiedmann, T., Schinabeck, J., Rowley, H., & Moore, S. *Integrated Carbon Metrics and Assessment for the Built Environment*.

Teh, S. H., & Rowley, H. V. Hybrid LCA for Construction Materials: Database and Tool *IELab Conference*. Sydney.

Teh, S. H., Wiedmann, T., Schinabeck, J., Rowley, H. V., & Moore, S. Hybrid LCA for Construction Materials: An Application of the Australian Industrial Ecology Virtual Laboratory *AusBuildLCA: Sustainable Foundations. The 1st Life Cycle Assessment Conference for Building and Construction*. Melbourne.

Teng, W., Rui, H., Vollmer, B., de Jeu, R., Fang, F., Lei, G. D., & Parinussa, R. *NASA Giovanni: A Tool for Visualizing, Analyzing, and Intercomparing Soil Moisture Data*. Paper presented at the AGU Chapman Conference on Remote Sensing of the Terrestrial Water Cycle, Kona, HI.

Tsarev, S., Waite, D., & Collins, R. N. Formation of surface U(V) by reduction of Ca-U-Carbonate complexes with nanoscale zero-valent iron *Asia Oceania Forum for Synchrotron Radiation Research*. Melbourne, VIC, Australia.

Tsarev, S., Waite, T. D., & Collins, R. N. Formation of surface U(V) by reduction of Ca-U-

carbonate complexes with nanoscale zero-valent iron *Goldschmidt*. Prague, Czechoslovakia.

Wang, Y., Liu, X., Guan, J., Waite, D., & Leslie, G. *Application of Computational Fluid Dynamics to Optimisation of Membrane Module Configurations in Submerged Membrane Bioreactors*. Paper presented at the Ozwater'15, Adelaide, Australia.

Wasko, C. D., & Sharma, A. *Changed design temporal patterns with higher temperatures*. Paper presented at the 36th Hydrology and Water Resources Symposium: The art and science of water, Hobart, Tasmania.

Wasko, C. D., & Sharma, A. *Intensification of storms due to warmer temperatures MODSIM2015, 21st International Congress on Modelling and Simulation*.

Wiedmann, T. *City footprints as a pathway to decarbonization 5th IWA Cities of the Future Conference*. UNSW, Sydney, Australia.

Wiedmann, T., & Chen, G. *Intercity Carbon Footprint Networks 8th Biennial Conference of the International Society for Industrial Ecology - Taking Stock of Industrial Ecology*. University of Surrey, Guildford, UK.

Wiedmann, T., & Wolfram, P. *Carbon Footprint Scenarios for Renewable Electricity Generation in Australia 1st Industrial Ecology Virtual Laboratory Conference*. Sydney, Australia.

Woldemeskel, F. M., Sharma, A., Sivakumar, B., & Mehrotra, R. *Quantifying GCM Simulation Uncertainty And Incorporating Into Water Resources Assessment*. Paper presented at the 11th International Conference on Hydroinformatics (HIC), New York City, USA.

Yuan, F., & Cox, R. J. *Modelling beach morphodynamics for southern Gold Coast beach nourishment project at Bilinga Beach*. Paper presented at the 34th International Conference on Coastal Engineering, Seoul.

Yap, R., Whittaker, M., Stuetz, R., Peirson, W., Newcombe, G., Jefferson, B., & Henderson, R. K. *Novel adaptation of the dissolved air flotation process for algae harvesting in waste stabilisation ponds 5th International Conference on Algal Biomass, Biofuels and Bioproducts*. San Diego, CA.

Zamyadi, A., Dorner, S., Prevost, M., Newcombe, G., & Henderson, R. *Fate of emerging cyanobacterial harmful metabolites in water supply systems. International Chemical Congress of Pacific Basin Societies (PacifiChem)*. Hawaii, USA.

Zamyadi, A., Dorner, S., Prevost, M., Newcombe, G., & Henderson, R. *Monitoring cyanotoxins and their producing cells in clarifiers and sludge treatment processes*. Paper presented at the 9th IWA Specialist Conference on Assessment and Control of Micropollutants and Hazardous Substances in Water: Micropol & Ecohazard Conference, Singapore.

Zamyadi, A., Ellis, D., Bolduc, A., Dorner, S., & Prevost, M. *Cyanotoxins Breakthrough in Eastern Canadian Water Treatment Plants*. Paper presented at the American Water Works Association (AWWA) Water Quality Technology Conference (WQTC), Salt Lake City, USA.

Zamyadi, A., Henderson, R., Stuetz, R., Newcombe, G., Dorner, S., & Prevost, M.

*Cyanobacterial Cells-Water Treatment Challenges*. Paper presented at the American Water Works Association (AWWA) Water Quality Technology Conference (WQTC), Salt Lake City, USA.

Zamyadi, A., Henderson, R., Stuetz, R., Newcombe, G., Dorner, S., & Prevost, M. *Real-Time Management of Cyanobacterial Blooms: Advantages and Limitations of in Vivo Fluorescence Probes*. Paper presented at the American Water Works Association (AWWA) Water Quality Technology Conference (WQTC), Salt Lake City, USA.

Zamyadi, A., Prevost, M., Dorner, S., Newcombe, G., Stuetz, R., & Henderson, R. *Fluorescence probes for real-time management of cyanobacterial blooms in drinking water sources*. Paper presented at the Ozwater'15 conference, Adelaide, Australia.

### Technical Reports:

Anderson, D. J., & Rahman, P. F. *Hydraulic Conductivity Testing of Drill Core - Perth Confined Aquifer*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Blacka, M. J., Guerry, N., & Davey, E. K. *Coastal Imaging and Shoreline Analysis Report Palm Beach and Northern Gold Coast Beaches: March to August 2014*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Blacka, M. J., Mariani, A., & Carley, J. T. *North Wonboyn NSW Foreshore Protection Study*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Drummond, C., Modra, B., & Blacka, M. *Coastal Imaging and Shoreline Analysis Report: Palm Beach and Northern Gold Coast Beaches*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Fischer-Kowalski, M., Dittrich, M., Eisenmenger, N., & Wiedmann, T. *International Trade in Resources: A Biophysical Assessment*. Water Research Centre, School of Civil and Environmental Engineering, UNSW Australia.

Flocard, F. D. *3D Physical Modelling of Coffs Harbour Northern Breakwater Upgrade*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Flocard, F. D., & Guerry, N. *Royal Yacht Club of Victoria Wave Screen Physical Modelling*. Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Fouché, M., Crawford, R., Teh, S. H., Rowley, & Wiedmann, T. *Integrated carbon metrics (ICM): Scoping study results and industry utilisation workshop notes*. Water Research Centre, School of Civil and Environmental Engineering, UNSW Australia.

Glamore, W., Ruprecht, J. E., & Rahman, P. F. *Jersey Avenue Wetland Investigation*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Guerry, N. S., Deiber, M., & Miller, B. *Warringah Mall Chamber C6 Physical Model Study*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.



Jones, A., & Collins, R. N. *Investigation into Acid Sulfate Soil Discharge in the Mooball Creek Catchment: Scale, Severity, Identification of Landscape Processes and a Prioritised Remediation Plan*. Water Research Centre, School of Civil and Environmental Engineering, UNSW Australia.

Miller, B. M., Rahman, P. F., Coghlan, I., & Guerry, N. *Uncalibrated Modelling of Botany Bay Overflows*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Miller, B. M., & Rayner, D. S. *Astrolabe Park Gross Pollutant Trap - Physical Model Testing*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Roser, D., Carvajal G., Van den Akker. B., Keegan. A., Regel. R., & Khan, S. J. *National Validation Guidelines for Water Recycling: Comprehensive Bayesian Recycled Eater Validation. A report of a study funded by the Australian Water Recycling Centre of Excellence*. Water Research Centre, School of Civil and Environmental Engineering, UNSW Australia

Smith, G. P. *Expert Opinion: Stability of People, Vehicles and Buildings in Flood Water*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Smith, G. P., & Rahman, P. F. *Voluntary Purchase Assessment - Merewether Flooding*. Water Research Laboratory, School of Civil and Environmental Engineering, UNSW Australia.

Vazquez Campos, X. *Geomicrobiological aspects of the (bio) leaching of weathered low-grade uranium ore*. Water Research Centre, School of Civil and Environmental Engineering, UNSW Australia.