

# PUBLICATIONS AND ARTICLES: DR KG EVANS

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## Journal Articles

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3. Proudfoot M, Valentine EM, **Evans KG**, King I. 2018. Calibration of a finite element model of a macro-tidal creek and floodplain in Northern Australia. *Journal of Hydraulic Engineering* Vol. 144(2): 05017005.
4. **Evans KG**, Narayan MR, Riwu Kaho N, Wurm P, Thapa R, Hobgen SE, Lamsal B, Miller J, Myers BA, Markus J, Godwin P. 2017. Deployment of Open Data Kit for Information Management for Various Engineering Projects In Rural, Indonesia. *International Research Journal of Electronics & Computer Engineering* (ISSN Online: 2412-4370), [S.l.], 3(1): 1-6.
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6. Staben G, Lucieer A, Scarth P, **Evans KG**, Cook, G. 2016. Obtaining biophysical measurements of woody vegetation from high resolution digital aerial photography in tropical and arid environments: Northern Territory, Australia. *International Journal of Applied Earth Observation and Geoinformation* 52: 204-220.
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9. Hancock GR, Lowry JBC, Coulthard TJ, **Evans KG**, Moliere DR. 2010. A catchment scale evaluation of the SIBERIA and CAESAR landscape evolution models, *Earth Surface Processes and Landforms*, **35** 863-875.
10. Hancock GR, **Evans KG**. 2010, Gully, channel and hillslope erosion - an assessment for a traditionally managed catchment, *Earth Surface Processes and Landforms*, **35** 1468-1479.
11. Moliere DR, **Evans KG** 2010. Development of trigger levels to assess catchment disturbance on stream suspended sediment loads in the Magela Creek, Northern Territory, Australia. *Geographical Research* 48, 370-385.
12. Hancock GR, Murphy D, **Evans KG**. 2010. Hillslope and catchment scale soil organic carbon concentration: an assessment of the role of geomorphology and soil erosion in an undisturbed environment, *Geoderma*, 155: 36-45.
13. Frostick A, Bollhöfer A, Parry D, Munksgaard N, **Evans K** 2008. Radioactive and radiogenic isotopes in sediments from Cooper Creek, Western Arnhem Land. *Journal of Environmental Radioactivity* 99, 468-482.
14. Staben GW, **Evans KG** 2008. Estimates of tree canopy loss as a result of Cyclone Monica, in the Magela Creek catchment northern Australia. *Austral Ecology* 33,562-569.
15. Hancock GR, Lowry JBC, Moliere DR, **Evans KG** 2008. An evaluation of an enhanced soil erosion and landscape evolution mode: a case study assessment of the former Nabarlek uranium mine,

- Northern Territory, Australia. *Earth Surface Processes and Landforms* 33(13). Published online in Wiley InterScience (www.interscience.wiley.com) DOI: 10.1002/esp.1653
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  21. Erskine WD, Saynor MJ, Erskine L, **Evans KG** and Moliere DR 2005. A preliminary typology of Australian tropical rivers and implications for fish community ecology. *Marine & Freshwater Research* 56, 253-267.
  22. Boggs GS, Moliere DR, **Evans KG**, Devonport CC 2005. Long-term hydrology modelling and analysis in a data limited small catchment in the wet-dry tropics of Australia: Reply to discussion by R French. *Australian Journal of Water Resources* 8(2), 225-226.
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  30. Saynor, M.J. and **Evans, K.G.** 2001. Sediment loss from a mine waste rock dump, Northern Australia. *The Australian Geographer*. 39(1) 34-51.

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## Consultancy Reports

These consultancy reports meet the requirements of current contracts. They are unpublished and confidential.

1. EnviroConsult Australia 2018. Hydrology and flood inundation modelling for a greenfield mine site. NT (Confidential & unpublished)
2. EnviroConsult Australia 2018. Influence of a proposed lake at rural housing development on surface hydrology. Noonamah, NT (Confidential & Unpublished)
3. EnviroConsult Australia, 2018. Flooding resulting from estuarine storm surge coincident with terrestrial flooding. (Confidential & Unpublished)
4. EnviroConsult Australia 2017. Hydrology modelling and drainage design for a legacy mine in the Pine Creek Region NT. (Confidential & Unpublished).
5. **Evans KG**, Saynor MJ, Narayan MR 2016. Analysis of fine suspended sediment transport in Gulungul Creek adjacent to Ranger Mine, Jabiru NT. June 2016. School of Engineering and Information Technology, Charles Darwin University, pp19 (unpublished)
6. **Evans KG**, 2016. Final report: conceptual model for Ranger mine. Revision 0.16.0 19 July 2016 General comments with Detailed Risk Assessment. Project ID: 1807. Project Title: EIT37SM DME Establishment of Mining Technology Group (MTG) Period of Project: 01/08/2014 To 31/07/2017. Mining Technology Group, School of Engineering and Information Technology, Charles Darwin University. (*Confidential & Unpublished*).
7. **Evans KG**, Narayan M 2016. Quarterly Report 4-2015, 1 October 2015 – 31 December 2015. Project ID: 1807. Project Title: EIT37SM DME Establishment of Mining Technology Group (MTG) Period of Project: 01/08/2014 To 31/07/2017. Mining Technology Group, School of Engineering and Information Technology, Charles Darwin University. (Confidential & Unpublished).
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9. Valentine EM, Proudfoot M, **Evans KG** 2015. Comments on AIMS' report Timed Discharge Study at the Leanyer Sanderson WWTP Task 1: Review of existing CDU models Prepared for Power and Water Corporation. Water Engineering Group, School of Engineering and Information Technology, Charles Darwin University. (*Confidential & Unpublished*).
10. **Evans KG**, Narayan M 2015. Quarterly Report 3-2015, 1 July 2015 – 30 September 2015. Project ID: 1807. Project Title: EIT37SM DME Establishment of Mining Technology Group (MTG) Period of Project: 01/08/2014 To 31/07/2017. Mining Technology Group, School of Engineering and Information Technology, Charles Darwin University. (*Confidential & Unpublished*).
11. Narayan MR, **Evans KG** 2015. Dam Break Inundation Mapping, Risk Assessment and Guidelines for Tailings Storage Facilities. The Northern Territory Government, Department of Mines and Energy, NT 30 June 2015 Mining Technology Group, School of Engineering and Information Technology, Charles Darwin University. (Confidential & Unpublished).
12. **Evans KG**, Narayan M, Lilley DM 2015. Quarterly Report 2-2015, 1 April 2015 – 30 June 2015. Project ID: 1807. Project Title: EIT37SM DME Establishment of Mining Technology Group (MTG) Period of Project: 01/08/2014 To 31/07/2017. Mining Technology Group, School of Engineering and Information Technology, Charles Darwin University. (*Confidential & Unpublished*).
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  16. Proudfoot M, Valentine EM, **Evans KG** 2015. Hydrodynamic Modelling of Darwin Harbour 2005-2014 History, Development Interpretation Report No. 5. Water Engineering Group, School of Engineering and Information Technology, Charles Darwin University. (*Confidential & Unpublished*).
  17. **Evans KG**, Lilley DM, Fairfield C 2015. Recommended geotechnical studies to characterise the unconsolidated substrate of White's Pit, Rum Jungle NT. report to the Northern Territory Department of Mines & Energy, Darwin, NT. (*Unpublished and confidential*).
  18. Proudfoot M, Valentine EM, Fairfield C, **Evans KG** 2015. Buffalo Creek Modelling: Update Report 10 Power Water Corporation: Tender No. PWD01722-11 Darwin – Hydrodynamic Modelling of Darwin Harbour Water Engineering Group, School of Engineering and Information Technology, Charles Darwin University. (*Confidential & Unpublished*).
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  23. **Evans KG**, Proudfoot M, Valentine EM 2014. Quarterly Report 4-2014: Power Water Corporation Darwin Harbour Hydrodynamic and Water Quality Modelling, Quarterly period: 2 August 2014 – 1 November 2014. Water Engineering Group, School of Engineering and Information Technology, Charles Darwin University. (*Confidential & Unpublished*)
  24. **Evans KG**, Proudfoot M, Valentine EM 2014. Quarterly Report 3-2014: Power Water Corporation Darwin Harbour Hydrodynamic and Water Quality Modelling, Quarterly period: 3 May 2014 – 1 August 2014. Water Engineering Group, School of Engineering and Information Technology, Charles Darwin University. (*Confidential & Unpublished*)
  25. **Evans KG**, Proudfoot M, Valentine EM 2014. Quarterly Report 2-2014: Power Water Corporation

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## Working Papers

1. Narayan MR, **Evans KG**, Hobgen SE, Thapa R, Myers BA and Wurm P. 2017, Groundwater Quality Studies in Sumba, Indonesia 2016 & 2017. Unpublished report SEIT and RIEL, Charles Darwin University, Darwin, Australia. 33p.
2. **Evans KG**, Narayan MR, Lamsal B, Thapa R, Riwu Kaho N, Hobgen SE, Myers BA, Wurm P. 2016. Improving Food and Water Security in Sumba, Indonesia. Unpublished report Charles Darwin University, Darwin Australia and Universitas Nusa Cendana, Kupang, West Timor 34p.

## Conferences and Symposia

1. Erskine, W., Saynor, M., Turner, K., Whiteside, T., Boyden, J. M., & **Evans, K.** (2014). Do suspended sediment and bedload move progressively from the summit to the sea along Magela Creek, northern Australia? In Y. J. Xu, M. A. Allison, S. J. Bentley, A. L. Collins, W. D. Erskine, & V. Goloso (Eds.), *Sediment Dynamics: From the Summit to the Sea*. Proceedings of a symposium held at New Orleans, USA, 11–14 December 2014, IAHS Publ. 367, 283-290.
2. Erskine WD, Saynor MJ, Turner K, Whiteside T, Boyden J, **Evans KG** 2014. Suspended sediment and bedload discontinuities along Magela Creek, northern Australia. Paper presented at 7<sup>th</sup> Australian Stream Management Conference Townsville, Queensland 28-30 July 2014.
3. Erskine WD, Saynor MJ, Turner K, Whiteside T, Boyden J, **Evans KG** 2014. How efficient is wetland vegetation at trapping suspended sediment and bedload on Magela Creek in northern Australia? Paper presented at Joint Congress of the Australian Society for Fish Biology and the Australian Society for Limnology 30 June – 3 July 2014, Darwin Convention Centre.
4. Erskine WD, Saynor, MJ, **Evans KG**, Moliere DR 2011. Bedload transport efficiency of forested sand-bed streams in the seasonally wet tropics of northern Australia. In *Proceedings of the 7th IAHR Symposium on River, Coastal and Estuarine Morphodynamics*. Eds Shao X, Wang Z, Wang G, Sep 6–8 2011, Tsinghua University, Beijing, China, Tsinghua University Press, Beijing, China, 1–13.
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6. Hancock GR, **Evans KG**, McDonnell JJ, Hopp L, Reaney S 2010 'Death and landscape dynamics: The effect of tree throw on sediment transport and landscape evolution', 2010 AGU Fall Meeting. Program and Abstracts, San Francisco, CA
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8. Lowry JBC, **Evans KG**, Coulthard TJ, Hancock GR, Moliere DR 2009. Assessing the impact of extreme rainfall events on the geomorphic stability of a conceptual rehabilitated landform in the Northern Territory of Australia. In *Mine Closure 2009. Proceedings of the Fourth International Conference on Mine Closure*, 9–11 September 2009, Perth, Australia, eds A Fourie , M Tibbett, 203–212.
9. Moliere DR **Evans KG** 2009. Cyclone Monica and the resulting impacts of treefall on stream sediment transport. In *Adapting to change, Proceedings of the 32nd Hydrology and Water Resources Symposium*, 30 November – 3 December 2009, Newcastle, Engineers Australia (CD).
10. Saynor M, Staben G, Moliere D, Lowry J, **Evans K** 2009. Landslips as sediment sources in the wet dry tropics of Australia, Kakadu National Park. Paper presented at 7<sup>th</sup> International Conference on Geomorphology, Melbourne, 6–11 July 2009
11. Saynor MJ, Staben GW, Moliere DR, Lowry J, **Evans KG** 2008. Effect of an extreme storm event on catchment hydrology and sediment transport in the Alligator Rivers Region, Northern Territory. Paper presented at 13<sup>th</sup> meeting Australia and New Zealand Geomorphology Group Conference, Queenstown Tasmania, 11–15 February.
12. Moliere D, **Evans KG**, Turner K 2008. Effect of an extreme storm event on catchment hydrology and sediment transport in the Magela Creek catchment, Northern Territory. In *Water Down Under 2008*, Proceedings of the 31<sup>st</sup> Hydrology and Water Resources Symposium and 4<sup>th</sup> International Conference on Water Resources, 15–17 April 2008, Adelaide, South Australia, Engineers Australia (CD).

13. Hancock GR, Lowry JBC, Coulthard TJ, **Evans KG** 2008. A catchment scale evaluation of the SIBERIA and CAESAR landscape evolution models. In *14ARSPC: Proceedings of the 14th Australasian Remote Sensing and Photogrammetry Conference*, Darwin NT, 30 September – 2 October 2008. USB2.0
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15. Staben GW, Saynor MJ, Hancock GR, Fox G, Lowry JBC, Calvert G, Moliere DR, **Evans KG** 2007. Assessment of the impact of Cyclone Monica on the Alligator Rivers Region – Northern Territory. Paper presented at ESA (Ecological Society of Australia) 2007 Conference, Perth, 25–30 November.
16. Saynor MJ, Erskine WD, Moliere DR, Evans KG 2006. Water, solute and sediment yields for a seasonal tropical river in northern Australia. 30th Hydrology, Water Resources Symposium: Past, Present & Future 4 - 7 December 2006 Launceston, TAS. IEAust, Australia. p. 618.
17. Lowry JBC, **Evans KG**, Moliere DR, Hollingsworth I 2006. Assessing landscape reconstruction at the Ranger Mine using landform evolution modelling. [First International Seminar on Mine Closure, Perth WA, 3-15 September 2006] 10 p
18. Frostick A, Bollhöfer A, Parry D, Munksgaard N, **Evans KG** 2006. Radioactive and radiogenic isotopes in Cooper Creek sediments. Paper presented at South Pacific Environmental Radioactivity Association (SPERA) Conference, 9–13 October 2006, Melbourne Australia.
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20. Martinez C, GR Hancock, **KG Evans** and DR Moliere 2005. A Catchment Based Assessment Of The 3-Arc Second SRTM Digital Elevation Data Set. In Zerger, A. and Argent, R.M. (eds) MODSIM 2005 International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand, December 2005, pp. 1409-1415.
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- Bell LSJ 1998. Determination of hydrology and erosion model parameters: Natural site adjacent to pit #1 at ERA Ranger Mine, Northern Territory, Australia. BEng(Hons) thesis, University of Newcastle.
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- Patterson RG, 2014. Upper Darwin Harbour Dye Study Palmerston Outfall. BEng(Civil) Thesis, Charles Darwin University
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- Paras VS, 2014. A feasibility study on applying the Guidelines for the Environmental Assessment of Marine Dredging in the Northern Territory as described in the NT EPA Act 2013. MEng(Civil) Thesis. Charles Darwin University
- AO X, 2016. Calibrating the CAESAR landform evolution model for application to rehabilitation construction at Ranger Mine NT. MEng(Civil) Thesis. Charles Darwin University
- Thapa R, 2016 Impact of an unmanaged Ephemeral Stream on Channel Irrigation, Sumba, Eastern Indonesia. MEng(Civil) Thesis. Charles Darwin University
- Lamsal B, 2016. An engineering solution to drain permanently flooded rice paddy fields to increase agricultural productivity, Sumba, East Nusa Tenggara, Indonesia. BEng(Civil)(hons) Thesis. Charles Darwin University.
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- Kieran S, 2017. Hydrological Data Collection and Analysis: A Sustainable Open Source Approach to Aid Under-serviced Communities. BEngSc(Civil) Thesis. Charles Darwin University
- Villacotta S, 2018. Geomorphological-hydrological evolution of the alluvial fan, Lima and implications for climate change. PhD, Polytechnic University of Madrid.

**Current:**

- Staben G, 2012-present. Investigating the impact of tropical cyclones on natural vegetation communities across northern Australia using remotely sensed data. PhD, University of Tasmania.
- Tonyes SG, 2012-present. Non-cohesive sediment dynamics, provenance and transport processes in Darwin Harbour, Northern Territory. PhD, Charles Darwin University.