



Dougal Greer

Nationality: Irish

Profession: Environmental Consultant/Consultant

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PRESENT POSITIONS:

- Director/Physical Oceanographer, eCoast Marine Consulting and Research

SPECIALISATION:

Hydrodynamic modelling, sediment transport modelling and processes, oil spill modelling, dispersal modelling, wave modelling, estuarine dynamics, data analysis, programming (Matlab, Python, R, C, Fortran), field data collection, tsunami modelling.

YEARS OF EXPERIENCE:

- Consulting since 2007

KEY QUALIFICATIONS:

- Graduate Diploma in Statistics, University of Auckland, Department of Statistics, Auckland (2005-2006).
- MSc (distinction) in Evolutionary and Adaptive Systems COGS, University of Sussex, Brighton, BN1 9RH (2001-2002).
- BSc (Hons) Physics with Computing, University of Bath, Department of Physics, Claverton Down, Bath BA2 7AY (1995-2000).

PERSONAL STATEMENT:

With a background in mathematical and computational sciences such as physics, statistics and adaptive systems, Dougal Greer has a fundamental understanding of the principles governing physical oceanic processes. Dougal works primarily in the area of numerical modelling, but he also has a keen interest in statistical and other forms of data analysis.

Dougal has been working as a physical oceanographer for 14 years and more broadly as a research assistant and data analyst for 16 years, and he has worked on a broad range of projects. Areas of specialization include modelling sediment dynamics; oil, pollutant and nutrient dispersal; larvae dynamics, primary production modelling and analysis and modelling of great tsunami events all of which have been applied at numerous worldwide locations. His breadth of experience has been broad ranging from project development to field data collection to data analysis and numerical modelling to technical writing.

WORK HISTORY:

Apr 2012-Present

eCoast, PO Box 151, Raglan, New Zealand, 3225

Coastal Scientist: Director. Field work and data collection. Field data analysis and modelling hydrodynamics, waves and sediment transport. Tsunami research.

Sept 2007-Apr 2012

ASR, 1 Wainui Rd, Raglan, New Zealand, 3225

Coastal Scientist: Field work and data collection. Field data analysis and modelling hydrodynamics, waves and sediment transport. Tsunami research.

Oct 2002-March 2005

Auckland University of Technology, 581-585 Grt Sth Rd, Ronald Trotter Hse, Penrose, Auckland Research Officer: Multivariate data analysis and modelling. Searching gene microarray data to find genes associated with cancer. Developing software packages to this end (mainly in Matlab). Lecturing in the Intelligent Systems course.

Jan 2003-Sept 2004

Enigma Publishing Ltd., Unit 4, 2B William Pickering Drive, PO Box 302-432 NHPC, Albany, Auckland, NZ. Data Analyst: Analysing medical data (Cardio Vascular Disease, Cervical Cancer) and creating prognostic models.

Oct 2000-June 2001

Future Publishing Ltd, Beauford Court, 30 Monmouth St, Bath. Technical Support Engineer: Troubleshooting Macintoshes (OS 8.6 and 9.0) and PCs (Windows 95/98/NT/2000). Supporting company network and Internet connections.

Aug 1999 – Sept 2000

Dell Computers Boghall Rd, Co. Wicklow, Rep. of Ireland. Technical Support Engineer: Troubleshooting PC hardware and software problems over the phone. Training new hires.

Aug 1997 – Aug 1998

Philips Research Laboratories, Redhill, Surrey, England. Scanning Electron Microscopist: Electron microscopy performing semiconductor research, analysis and diagnostics.

SPECIALISED SKILLS/TRAINING AND OTHER BACKGROUND:

- PADI advanced certificate > 50 dives.
- Computer modelling (the 3DD suite) - WBEND (wave refraction and beach erosion/deposition model), GENIUS (sediment transport), 3DD (3-dimensional hydrodynamic and sediment transport),
- 2DBEACH (coupled beach and sediment transport model), Pol3DD (Pollution dispersal coupled to 3DD – sediment transport, pollutants, larvae, etc.). Data analysis. Experience with a wide range environmental parameter testing procedures and equipment (water – nutrients, chemical properties, biological properties, etc., air, sediment, etc.).
- Computer modelling (Delft 3D) – FLOW (Hydrodynamic modelling), WAVE & SWAN (Wave modelling), DELWAQ (Water Quality).
- Marine monitoring of hydrodynamics and wave properties, temperature and salinity gauging. Experienced in using instruments made by Aquadopp, Sontek, Sentinel, Odyssey, Hobo.
- Lecturer in Adaptive Systems (AUT). 2004 -2005.
- Programming in Matlab, Python, Fortran, C.
- PADI advanced certificate > 50 dives.

NATIONAL AND INTERNATIONAL CONFERENCES ATTENDED

- New Zealand Coastal Society (NZCS) Conference – Raglan, November 2020
- New Zealand Coastal Society (NZCS) Conference – Invercargil, November 2019
- New Zealand Coastal Society (NZCS) Conference Tairāwhiti – Gisborne, November 2018
- New Zealand Coastal Society (NZCS) Conference Tauranga Moana, November 2017
- Australian Marine Sciences Association (AMSA) Conference Geelong, Australia, July 2015
- New Zealand Coastal Society (IPENZ) Conference Raglan, New Zealand, November 2014
- New Zealand Coastal Society (IPENZ) Conference Hokitika, New Zealand, November 2013.

- New Zealand Coastal Society (IPENZ) Conference Auckland, New Zealand, November 2012.
- Coastal Management 2011 (ICE), Belfast, Ireland, November 2011.
- New Zealand Coastal Society (IPENZ) Conference Whitianga, New Zealand, November 2010.
- New Zealand Coastal Society (IPENZ) Conference. Tauranga, New Zealand, November 2007.

PUBLICATIONS SUMMARY

Peer-reviewed publications

2018

Atkin, E.A. and **Greer**, S.D., 2018. A Comparison of Methods for Defining a Surf Break's Swell Corridor. Submitted to the Journal of Coastal Research (Special Issue 87: Surf Break Management in Aotearoa/New Zealand)

2016

Sinclair E. A., Anthony J. M., **Greer D.**, Ruiz-Montoya L., Evans S. E., Krauss S. L., Kendrick G. A., (2016) Genetic signatures of Bassian glacial refugia and contemporary connectivity in a marine foundation species. Journal of Biogeography doi:10.1111/jbi.12822

2015

Greer, D., McIntosh, R., Harrison, S., Phillips, D., and Mead, S., (2015) Understanding Water Quality in Raglan Harbour, Australasian Coasts & Ports Conference 2015

2014

Borrero, J.C., Goring, **Greer, D.**, D., Power, W.L., (2014) and Wilson, R. (2014) Observed Far-Field Tsunami Hazard in New Zealand Ports, Pure and Applied Geophysics, DOI 10.1007/s00024-014-0987-4.

Amanda R. Admire, A., Dengler, L., Crawford, G., Uslu, B., Borrero, J.C., **Greer, D.** and Wilson, R. (2014) Observed and Modeled Currents from the Tohoku-oki, Japan and other Recent Tsunamis in Northern California, Pure and Applied Geophysics, DOI 10.1007/s00024-014-0797-8.

2013

Borrero, J., Bell, R., Csato, C., DeLange, W., **Greer, D.**, Goring, D., Pickett, V. and Power, W. (2013). Observations, Effects and Real Time Assessment of the March 11, 2011 Tohoku-oki Tsunami in New Zealand, Pure and Applied Geophys., 170, 1229-1248, DOI 10.1007/s00024-012-0492-6

Borrero, J. and **Greer, D.** (2013) Comparison of the 2010 Chile and 2010 Japan tsunamis in the Far-field, Pure and Applied Geophysics, 170, 1249-1274, DOI 10.1007/s00024-012-0559-4.

2012

Borrero, J.C. and **Greer, D.** (2012) Spectral Characteristics of Numerically Modeled Tsunami Waves at Khor Fakkan, Fujairah, UAE, UAE, prepared for Ove Arup and Partners, London.

Borrero, J., Bell, R., Csato, C., DeLange, W., **Greer, D.**, Goring, D., Pickett, V. and Power, W. (2012) Observations, Effects and Real Time Assessment of the March 11, 2011 Tohoku-oki Tsunami in New Zealand, Pure and Applied Geophysics, in press.

Borrero, J.C. and **Greer, D.** Comparison of the 2010 Chile and 2010 Japan tsunamis in the Far-field – Submitted to Pure and Applied Geophysics, in review accepted, with minor revision.

Lebreton, L.C.-M., **Greer, D.** and Borrero J.C., (2012) Numerical modelling of floating debris in the world's oceans. Mar. Pollut. Bull., doi:10.1016/j.marpolbul.2011.10.027.

Lee, R.S., Black, K.P., Bosserel, C., and Greer, S.D., Randall S. Lee, Kerry P. Black, Cyprien Bosserel and **Greer, D.**, Present and future prolonged drought impacts on a large temperate embayment: Port Phillip Bay, Australia, Topical Collection on Physics of Estuaries and Coastal Seas 2010

Lynett, P., Borrero, J., Weiss, R., Son, S., **Greer, D.**, Renteria, W. (2012) Observations and Modeling of Tsunami-Induced Currents in Ports and Harbors, Earth and Planetary Science Letters, 327-328 (68-74).

2011

Borrero, J.C., **Greer, D.**, Lebreton, L. and Fritz, H.M. (2011) Field Surveys and Numerical Modelling of the 2009 South Pacific and 2010 Mentawai Islands Tsunamis, Proceedings of Coasts and Ports Conference, Perth, Australia, September 28-30, 2011 (conference proceedings, full paper)

Greer, D., Lee, R., and Oldman, J., (2011) Climate Change Effects on Mixing Characteristics of a Large Embayment. ICE Coastal Management 2011 (conference proceedings).

Borrero, J.C., **Greer, D.**, Lebreton, L. and Fritz, H.M. (2011) Field Surveys and Numerical Modelling of the 2009 South Pacific and 2010 Mentawai Islands Tsunamis, Proceedings of Coasts and Ports Conference, Perth, Australia, September 28-30, 2011.

2010

Greer, D., Phillips, D., Borrero, J., Mead, S., Stark, N., and Harrison, S. (2010). The Whaingaroa (Raglan) Harbour Project, NZ Coastal Society Conference, Whitianga (Vol. 1)

Stark, N., **Greer, D.**, Phillips, D., Borrero, J., Harrison, S., and Kopf, A. (2010). In-situ Geotechnical Investigation of Sediment Dynamics over 'The Bar', Raglan, New Zealand, American Geophysical Union Fall Meeting 2010, abstract #OS43C-022005

2005

Kasabov, N., Chan, Z. S. H., Song, Q. and **Greer, D.**, Book Chapter: "Evolving Connectionist Systems with Evolutionary Self-Optimisation" in "Do smart adaptive systems exist - Best practice for selection and combination of intelligent methods", the Springer series on Studies in Fuzziness and Soft Computing, 2005

2002

Greer, D., (2002). An Exploration of Viable Architectures for Homeostatic Robot Controllers. MSc Thesis,

Abstracts

2018

Greer, D., 2018. Accounting for Global Plastic Pollution with Nearshore Dynamics. New Zealand Coastal Society (NZCS) Conference. Gisborne, New Zealand, November 2018.

O'Neill, S., **Greer, D.**, Mead, S. 2018. 3D Hydrodynamic Numerical Modelling of the Wairoa River Wastewater Treatment Plant Outfall. New Zealand Coastal Society (NZCS) Conference. Gisborne, New Zealand, November 2018.

2017

McIntosh, R., S. T. Mead, D. **Greer** and S. O'Neill, 2017. Upgrading the Goodman Fielder Poultry Processing Facility in the Rewa River catchment, Fiji and subsequent impacts on downstream water quality. New Zealand Coastal Society (IPENZ) Conference, Tauranga, New Zealand, 15-17 November 2017.

Expert Evidence

2021

Greer, D., 2021, Statement of Evidence on Oil Spill Modelling requirements in the proposed Taranaki Regional Coastal Plan. Prepared for Taranaki Energy Watch Incorporated.

2017

Greer, D., 2017, Review of Statistical Considerations Associated with the Establishment of Turbidity Trigger Levels. Expert report and evidence relating to an application by Lyttleton Port Company for resource consent to undertake capital dredging in Lyttleton Harbour. Prepared for Hearing Panel appointed by Canterbury Regional Council.

2016

Greer, D., 2016. Expert Witness on behalf of KASM for the Release of Redacted Information as Part of Trans-Tasman Resources Application for a Marine Consent Application Made to Excavate Iron Sand from the Seabed, Environment Court Hearing, November 2016.

2014

Mead, S. T., and **Greer, D.**, 2014. *Assessment of the Sediment Plume Models Provided in the CRP Marine Consent Application*. Expert report on sediment plume modeling prepared for the NZ EPA, September 2014

Mead, S. T., and **Greer, D.**, 2014. *Pre-Lodgement review of the application information in terms of the information principles under section 61 of the EEZ Act*. Prepared for the EPA in relation to CRP deepsea phosphate extraction, May 2014

Greer, D., 2014, Evidence of Dougal Greer, prepared for KASM in relation to Trans-Tasman Resources Ltd. for a Marine Consent Application Made to Excavate Iron Sand from the Seabed.

Huber, M., Hume, T., **Greer, D.**, D., Orpin, A., Sutherland, A., Yeates, M., 2014, Joint Witness Statement of Experts in the Field of Effects on Coastal Stability

Consulting and Technical Reports

2021

Borrero, J., **Greer, D.**, 2021, Multi-Hazard Disaster Risk Assessment, Tongatapu, Tonga. Prepared for the Asian Development Bank.

Greer, D., and S. T. Mead, 2021. *Wairoa WTP Outfall: Numerical Modelling of Closed Channel*. Prepared for Wairoa District Council.

Greer, D., McIntosh, R., Mead, S., 2021, Clive River Dredge Disposal Fate Modelling, Prepared for Hawkes Bay Regional Council

Greer, D., 2021, Review of Hydrodynamic Modelling and modelling of plume discharge from a proposed LNG facility in Western Port Bay, Prepared for Aecom

2020

Greer, D., Atkin, E., Mead, S., (2020), Phu Cong Soc Trang Offshore Wind Farm Project: Field Data Collection and Analysis Part II, Prepared for Mainstream Renewable Power and The Phu Cong Group

Greer, D., McIntosh, R., Borrero, J. (2020), Whangārei Harbour Stormwater Dilution Modelling, Prepared for Northland Regional Council

Greer D., 2020, Review of Modelling of Porirua Wastewater Discharge and associated QMRZ from the Porirua WWTP consent application, prepared for Greater Wellington Regional Council

2019

Greer, D., 2019, Review of Hydrocarbon Dispersion Modelling Numerical modelling of the dispersal and coastal impacts of accidental hydrocarbon spills from Site Tawhaki-1 prepared for Greenpeace

Greer D., 2019, Review of Modelling of wastewater Discharge into Hutt River, prepared for Greater Wellington Regional Council

Greer, D., O'Neill, S., 2019, Port Spencer Sediment Transport Modelling Investigation, Prepared for Free Eyre, August 2019

Greer, D., McIntosh, R., O'Neill, S., 2019, Long Term Hydrodynamic Modelling of Mozambique, Prepared for Deakin University, August 2019

Greer, D., McIntosh, R., O'Neill, S., E. Atkin, 2019. Phu Cong Soc Trang Offshore Wind Farm Project: Metocean Data Overview. Prepared for Mainstream Renewable Power and the Phu Cong Group.

Greer, D., Watson, A., 2019. Phu Cong Soc Trang Offshore Wind Farm Project: Phase 1a: Metocean Design Criteria. Prepared for Mainstream Renewable Power and the Phu Cong Group.

Greer, D., Watson, A., 2019. Phu Cong Soc Trang Offshore Wind Farm Project: Phase 1b: Metocean Design Criteria. Prepared for Mainstream Renewable Power and the Phu Cong Group.

Greer, D., O'Neill, S., Borrero, J., (2019), Dynamics of Nearshore Plastic Pollution Part I: Literature and Data Review, Prepared for The Ocean Cleanup

Mead, S. T., D. **Greer**, R. McIntosh, J. Davies-Campbell and E. Atkin, 2019. *Oceania Ocean Outfall Dispersion Modelling*. Prepared for Babbage Consultants, July 2019.

Greer, D., E. Atkin and S. T. Mead, 2019. *Mekong Delta: Field Data Collection and Analysis*. Prepared for Mainstream Renewable Power and the Phu Cuong Group, April 2019.

2018

Greer D., 2018, Review of Modelling of Wastewater Discharge Consent Application into Titahi Bay, prepared for Greater Wellington Regional Council

Greer, D., O'Neill, S., Borrero, J., 2018, Dynamics of Nearshore Plastic Pollution Part I: Literature and Data Review, Prepared for The Ocean Clean Up

Greer, D., and S. T. Mead, 2018. *Wairoa WTP Outfall: 3D Hydrodynamic Numerical Modelling*. Prepared for Wairoa District Council, September 2018.

Greer, D., Walton, R., O'Neill, S., Borrero, J., Lebreton, L., (2018), Dynamics of Nearshore Plastic Pollution Part II: Statistical Modelling, Prepared for The Ocean Cleanup, May 2018

Mead S. T., E. Atkin, **D. Greer** and S. O'Neill, 2018. *Coastal Processes Assessment for Malolo Island Resort*. Prepared for Freesoul Real Estate, April 2018.

Greer, D., McIntosh, R., O'Neill, S., 2018, Long Term Hydrodynamic Modelling of Sulawesi, Prepared for Deakin University, March 2018

2017

McIntosh, R S. T. Mead, **D. Greer** and S. O'Neill, 2017. *Hydrological Assessment for Goodman Fielder's Proposed Poultry Processing WWT Plant in Coloisuva*. Prepared for Goodman Fielder, September 2017.

Atkin, E., S. T. Mead, **D. Greer** and S. O'Neill, 2017. *Denis Island (Seychelles) Coastal Management Options*. Prepared for Denis Private Island Ltd, August 2017

Mead, S. T., and **D. Greer**, 2017. *Silver Fern Farms Outfall – AEE Expert Review*. Prepared for Environment Canterbury, April 2017.

Mead., S. T., and **D. Greer**, 2017. *Denarau Road Residential Canal Development: Coastal Processes and Hazards Report*. Prepared for EMEI Ltd, April 2017.

Mead, S. T., and **Greer**, D., 2017. Rangitahi Bridge Hydrodynamic Modelling and Scour Assessment. Prepared for Raglan Land Company, February 2017.

Mead, S. T., and **Greer**, D., 2017. Coastal Engineering Review of Two Existing Marinas in Lake Wakatipu. Prepared for the Warburton Group, January 2017.

Greer, D., Atkin, E., McIntosh, R., 2017. Water Quality Sampling in Raglan Harbour. Report prepared for Waikato Regional Council, January 2017.

2016

Mead, S. T., and **D. Greer**, 2016. *Savusavu Wharf Wave Modelling*. Prepared for Fijian Roads Authority, November 2016.

Borrero, J. C., E. Atkin, **Greer**, D., S. O'Neill and S. T., Mead. Coastal Processes Study: North East Point, Mahé Island, Seychelles Mahé Island, Seychelles. Prepared for the UNDP, November 2016.

Greer, D, Atkin, E., S. T. Mead, T. Haggitt and S. O'Neill, 2016. Hydrodynamic Modelling and Residence Times of the Waikato West Coast: Fieldwork and Data Collection. Report prepared for Waikato Regional Council, January 2016.

2015

McIntosh, R. and **Greer**, D., 2015, Raglan Water Quality Modelling – Domain Decomposition, Prepared for Waikato Regional Council.

Mead, S. T., and **Greer**, D., 2015. Dam Water Aeration/Circulation Optimization – Upper Nihotupu. Report for Watercare Services Ltd, August 2015.

Greer, D., 2015. Western Treatment Plant: Yearly Mixing Zone Modelling for a 5 Outlet Scenario. Prepared for Melbourne Water.

- Borrero, J.C., Mead, S.T., Clarke, M., Klaus, R. and Persand, S., **Greer, D.** (2015) Coastal Adaptation Measures for Mon Choisy Beach, Republic of Mauritius: Detailed Technical Assessment, Prepared for Ministry of Environment, Sustainable Development, Disaster and Beach Management.
- Borrero, J.C., Mead, S.T., Clarke, M., Klaus, R. and Persand, S. **Greer, D.** (2015) Coastal Adaptation Measures for Rivière des Galets, Republic of Mauritius: Detailed Technical Assessment, Prepared for Ministry of Environment, Sustainable Development, Disaster and Beach Management.
- Hirst, A. J., Lee, R. S., **Greer, D.**, 2015, Developing tools for the management of nutrient and sediment interactions with seagrass ecosystems in Port Phillip Bay: broad-scale modelling, EPA Vic Technical Report 1591
- Mead, S. T., **Greer, D.** and E. Atkin, 2015. Coastal Processes and Design Studies for the Nawi Island Development. Report prepared for Nawi Island Ltd, Fiji, October 2015.
- Mead, S. T., and **Greer, D.**, 2015. Dam Water Aeration/Circulation Optimization – Lower Nihotupu Dam. Prepared for Watercare Services Ltd, August 2015
- Mead, S. T., and **Greer, D.**, 2015. Extreme Wave Events at the Rena. Report prepared for Jacobs.
- 2014**
- Mead, S. T., J. C. Borrero, **Greer, D.** and D. Phillips, 2014. Woja Causeway Project: Coastal Processes and Feasibility Study. Report prepared for the Secretariat of Pacific Communities (SPC), specifically the Global Climate Change Alliance: Pacific Small Island States (GCCA:PSIS), February 2014.
- Mead, S. T., and **Greer, D.** 2014. Preliminary Assessment Towards a Solution to Reduce Gravel Entering Gate 18, Lake Pukaki. Report prepared for Meridian Energy Ltd, July 2014.
- Greer, D.** and Grant, D. 2014. Western Treatment Plant: Yearly Mixing Zone Modelling for Additional Scenarios. Prepared for Melbourne Water.
- Mead, S. T., and **Greer, D.**, 2014. *Lodgement review of the application information in terms of the information principles under section 61 of the EEZ Act.* Prepared for the EPA in relation to CRP deepsea phosphate extraction, May 2014.
- 2013**
- Mead, S. T., and **Greer, D.** 2013. Dam Water Aeration/Circulation Optimization – Upper Huia Dam. Report for Watercare Services Ltd, September 2013
- Mead, S. T., and **Greer, D.**, 2013. Dam Water Aeration/Circulation Optimization – Mangatangi. Report for Watercare Services Ltd, December 2013
- Mead, S. T., Atkin, E. and **Greer, D.**, 2013. Shangri La – Coastal Engineering Assessment. Prepared for Shangri La Hotels and Resorts.
- Mead, S. T., Atkin, E., **Greer, D.** and Haggitt, T., 2013. Puhoi – Warkworth Coastal Modelling and Field Data Collection. Prepared for Further North Consortium, May 2013
- Mead, S. T., Atkin, E., **Greer, D.** and Phillips, D., 2013. Naisoso Island – Beach Management and Coastal Engineering. Prepared for RELCORP Property Development.
- Mead, S. T., Atkin, E. and **Greer, D.**, 2013. Vunabaka Detailed Design – Coastal. Prepared for Vunabaka Bay Fiji Ltd.
- Greer, D.**, 2013, Western Port Suspended Sediment Modelling, Prepared for Melbourne Water & Monash University
- Mead, S. T., **Greer, D.**, 2013. Vinh Tan Power Plant Project, Vietnam – Dredge Plume Modelling. Prepared for Sinclair Knights Mertz (SKM).
- Greer, D.**, 2013, Whangamata Harbour Modelling: Estimating Bed Shear Stress for Sediment Transport Modelling Part II. Environment Waikato (EW).
- Borrero, J.C., Goring, D.G., **Greer, D.**, Power, W.L. and Barberopoulou, A. (2013) Decision Making Tools for the Real-Time Assessment of Far-Field Tsunami Hazards in New Zealand Ports and Harbours Part 1: Background Information and Preliminary Analysis. Prepared for New Zealand Ministry of Business Innovation and Employment, December 20, 2013.

Atkin, E., **Greer, D.** and S. T. Mead, 2013. Analysis of Bathymetric Surveys, Wave Climate, Breaking Patterns and Wave Driven Circulation at Whangamata Ebb Tidal Delta. Report prepared for Waikato Regional Council, January 2013

Greer, D., and S. T. Mead, 2013. Review of Sedimentation Processes in the Upper Mahurangi Estuary. Prepared for Auckland Council, July 2013

Rogers, D. I., Loyn, R. H. and **Greer, D.**, 2013, Factors influencing shorebird use of tidal flats adjacent to the Western Treatment Plant. Arthur Rylah Institute for Environmental Research, Technical Report Series No. 250.

Holland DP, Cook PLM, Mac Nally R, Thomson JR, Wormersley B, Ball D, Longmore AR, Keough MJ, Lee R, Martinez G, **Greer D** (2013) Water quality requirements of seagrasses in Western Port Bay. A report prepared for Melbourne Water. Water Studies Centre, Monash University

2012

Grant, D., **Greer, D.**, Frazerhurst, J. and Oldman, J. W., (2012). Cape Hardy Field Data Report, Sinclair Knights Mertz (SKM).

Greer, D., Oldman, J. W., and Grant, D. (2012). Madang Harbour Hydrodynamic Modelling Papua New Guinea, Coffey Environments.

Oldman, J. W., **Greer, D.** and Grant, D. (2012). Western Treatment Plant Multi-Outlet Modelling, Melbourne Water.

Borrero, J.C. and **Greer, D.** (2012) Spectral Characteristics of Numerically Modeled Tsunami Waves at Khor Fakkan, Fujairah, UAE, UAE, prepared for Ove Arup and Partners, London.

Mead, S. T., **Greer, D.** and E. A. Atkin, 2012. Dam Water Aeration/Circulation Optimization – Cossey's Dam. Prepared for Watercare Services Ltd, December 2012.

Mead, S. T., E. A. Atkin and **Greer, D.**, 2012. *Vunabaka Detailed Design – Coastal*. Prepared for Vunabaka Bay Fiji Ltd, December 2012.

2011

Atkin, E. and **Greer, D.**, (2011). Bathymetry Survey Waihou River Delta, Firth of Thames. June 2011, Waikato Regional Council (WRC).

Atkin, E., Mead, S. and **Greer, D.**, (2011). An Appraisal of Waitakere River Erosional Issues at the Te Henga Surf Lifesaving Club and Preliminary Solutions, Auckland City Council (WRC).

Borrero, J. and **Greer, D.** (2011). Wheatstone LNG Terminal: Tsunami Hazard Study, Chevron Wheatstone.

Greer, D. (2011), Whangamata Harbour Modelling: Estimating Bed Shear Stress for Sediment Transport Modelling. Environment Waikato (EW).

Borrero, J.C., Lebreton, L.C.-M, **Greer, D.**, Mueller, H. and Csato, C. (2011) Plastic Pollution in the World Ocean: A Research Study into the Origin, Transport and Distribution of Floating Debris, Prepared for the Sea•thos Foundation, Venice, CA.

Mead S. T., D. **Greer, D.** Grant and L. Lebreton, 2011. Four Seasons Resort, Langkawi, Malaysia: Beach Stabilization Investigation. Prepared for the Four Seasons Hotels and Resorts, March, 2011.

Grant, D., **Greer, D.** and Cosotti, Y. (2011). Port Spencer Public Environmental Report Sediment Transport Modelling, Golders Associates.

2010

Grant, D. and **Greer, D.** (2010). South Taranaki Bight Iron Sands Environmental Baseline Study, Trans-Tasman Resources Limited (TTR).

Greer, D., Oldman J (2010) Firth of Thames Hydrodynamic Modelling. Report prepared for Waikato Regional Council (available on request)

Grant, D., **Greer, D.** and Cosotti, Y. (2010). Lipson Cove Field Data Programme - Summary Report, Golders Associates.

- Greer, D.**, Cosotti, Y. and Grant, D. (2010). Lipson Cove Field Data Report Deployment 4, Golders Associates.
- Grant, D., **Greer, D.** (2010). Hawar Islands Tidal Analysis: Bahrain, Mouchel Middle East Ltd.
- Oldman, J. W., **Greer, D.** and Cosotti, Y. (2010). Coromandel Wastewater Treatment Plant Dilution Study, Thames Coromandel District Council.
- Oldman, J.W., Lebreton., L., **Greer, D.**, Mead., S. and Mathew, J., (2010). Hawar Islands Tidal Analysis: Bahrain, Mouchel Middle East Ltd.
- Mead, S. T., D. **Greer, D.** Grant, and L. Lebreton, 2010. Wailagilala Island Beach Sand Retention Investigation. Report for Sean Howard, November 2010.
- Oldman, J., L. Lebreton, **Greer, D.**, S. Mead and J. Mathew, 2010. Numerical Modelling of Proposed Ship Building Site Cuddalore, India. Report for GoodEarth Shipbuilding Private Limited (GSPL), July, 2010.
- Grant, D., **Greer, D.**, T. Haggitt and S. Mead, 2010. South Taranaki Bight Iron Sands Environmental Baseline Study. Report for Trans-Tasman Resources Limited, June, 2010.
- 2009**
- Greer, D.**, Oldman, J.W. and Black, K.P. (2009). Western Treatment Plant Field Data Report, Melbourne Water.
- Oldman, J. W., Parry, G., **Greer, D.** and Black, K.P. (2009). Model Calibration and Quantification of Western Treatment Plant Mixing Zones, Melbourne Water.
- 2008**
- Black K. P., **Greer, D.**, Mathew J. (2008) Sub-Projects: Planning Design of Works in Goa, prepared by ASR Ltd, P.O. Box 67, Raglan, New Zealand.
- Black K. P., **Greer, D.**, Mathew J. (2008) Sub-Projects: Planning Design of Works in Maharashtra, prepared by ASR Ltd, P.O. Box 67, Raglan, New Zealand.
- Black K. P., **Greer, D.**, Mathew J. (2008) Sub-Projects: Planning Design of Works in Karnatika, prepared by ASR Ltd, P.O. Box 67, Raglan, New Zealand.
- Black, K. P., Bosserelle, C., Bou, A. and **Greer, D.** (2008). Particle Dispersal Modelling: Seasonal and Spatial Variations, Department of Sustainability and Environment (DSE).
- Black, K. P., Harrison, S., Lebreton, L., **Greer, D.** and Borrero, J. (2008b). Mid-Field and Far-Field Modelling of the Desalination Plant Outlet Plume, State Government Victoria.
- Bosserelle, C., Black, K. P. and **Greer, D.** (2008a). Extreme Wave Statistics, Department of Sustainability and Environment (DSE).
- Bosserelle, C., Black, K. P. and **Greer, D.** (2008b). Wave Exceedance Probabilities, Department of Sustainability and Environment (DSE).
- Bou, A., Black, K. P., **Greer, D.**, Bosserelle, C. and Frazerhurst, J. (2008a). Physical Oceanographic Measurement Programme: December 2007/February 2008, Department of Sustainability and Environment (DSE).
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