

## Co-Authorship Form

This form is to accompany the submission of any thesis that contains research reported in co-authored work that has been published, accepted for publication, or submitted for publication. A copy of this form should be included for each co-authored work that is included in the thesis. Completed forms should be included at the front (after the thesis abstract) of each copy of the thesis submitted for examination and library deposit.

**Please indicate the chapter/section/pages of this thesis that are extracted from co-authored work and provide details of the publication or submission from the extract comes:**

Chapter 2: Approximately 15% of the content in this chapter are in reference 3.

Chapter 3 is a review of the case study. Therefore, it is mainly a summary of published information. Approximately 70% of the content is based on all of the references below, as every paper summarizes different aspects of the background of this case study. The remaining portion of this chapter is from the papers that have been acknowledged throughout the main body.

Chapter 4: Approximately 60% of the content in this chapter is from references 1 and 2.  
Approximately 10% of the content in this chapter is from references 4–7.

Chapter 5: Approximately 60% of the content in this chapter is from references 1 and 2, though this 60% also contains elements from through references 4–7.

Chapter 6 is directly from reference 3, with approximately 15% added content to extend the work.

Chapter 8: Approximately 20% of the content is in references 9 and 10

1. Dhakal, R., Cubrinovski, M., Bray, J.D. & de la Torre, C. (2020). Liquefaction Assessment of Reclaimed Land at CentrePort, Wellington, *Bulletin of the New Zealand Society for Earthquake Engineering*, 53(1), 1-12, doi.org/10.5459/bnzsee.53.1.1-12.
2. Dhakal, R., Cubrinovski, M. & Bray, J.D. (2020). Geotechnical Characterization and Liquefaction Evaluation of Gravelly Reclamations and Hydraulic Fills (Port of Wellington, New Zealand), *Soils and Foundations*, 60(6): 1507-1531, doi.org/10.1016/j.sandf.2020.10.001.
3. Dhakal, R., Cubrinovski, M. & Bray, J.D. (2022). Evaluating the Applicability of Conventional CPT-Based Liquefaction Assessment Procedures to Reclaimed Gravelly Soils, *Soil Dynamics and Earthquake Engineering*, 155: 107176.

4. Dhakal, R., Cubrinovski, M., Bray, J.D. & de la Torre, C. (2019). Site Characterisation and Liquefaction Assessment for the Reclaimed Soils in CentrePort, Wellington, *Proc. 13<sup>th</sup> Australia New Zealand Conference on Geomechanics*, Perth, Australia, 1-3 April 2019.
5. Dhakal, R., Cubrinovski, M., Bray, J.D. & de la Torre, C. (2019). Liquefaction Assessment of Reclaimed Gravelly Soils at CentrePort, Wellington, *Proc. 2019 Pacific Conference on Earthquake Engineering*, Auckland, New Zealand, 4-6 April 2019.
6. Dhakal, R., Cubrinovski, M., Bray, J.D. & de la Torre, C. (2019). Site Characterization for Liquefaction Assessment of Gravelly Reclamations at CentrePort, Wellington, *Proc. 7<sup>th</sup> International Conference on Earthquake Geotechnical Engineering*, Rome, Italy, 17-20 June 2019.
7. Dhakal, R., Cubrinovski, M. & Bray, J.D. (2021). Liquefaction of Reclaimed Soils in the Port of Wellington, New Zealand, *Proc. 17<sup>th</sup> World Conference on Earthquake Engineering*, Sendai, Japan, 27 September – 2 October 2021.
8. Dhakal, R., Bray, J.D. & Cubrinovski, M. (2022). Sensitivity of CPT-based liquefaction assessment to sleeve friction depth correction, *Proc. 20<sup>th</sup> International Conference on Soil Mechanics and Geotechnical Engineering 2021*, Sydney, Australia, 1-6 May 2022.
9. Dhakal, R., Cubrinovski, M. & Bray, J.D. (2022). Application of the CPT for Liquefaction Assessment of Gravelly Reclamations at the Port of Wellington, *Proc. 5<sup>th</sup> International Symposium on Cone Penetration Testing, CPT'22*, Bologna, Italy, 8-10 June 2022.
10. Dhakal, R., Cubrinovski, M. & Bray, J.D. (2022). Input Ground Motion Selection for Site Response Analysis at the Port of Wellington (New Zealand), *Proc. 4<sup>th</sup> International Conference on Performance-based Design in Earthquake Geotechnical Engineering (PBD-IV)*, Beijing, China, 15-17 July 2022.

Please detail the nature and extent (%) of contribution by the candidate:

*The candidate contributed to at least 95% of each publication listed above in terms of writing and preparing content in the publications. The candidate performed the analyses described in these papers and processed and interpreted the results. He subsequently wrote each paper and prepared each figure.*

#### **Certification by Co-authors:**

If there is more than one co-author then a single co-author can sign on behalf of all

The undersigned certifies that:

- The above statement correctly reflects the nature and extent of the Doctoral candidate's contribution to this co-authored work
- In cases where the candidate was the lead author of the co-authored work he or she wrote the text

Name: Misko Cubrinovski

Signature:

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Date: 4/5/2022