

From: [canterbury](mailto:canterbury@royalcommission.govt.nz)
To: [Earthquake.InformationOffice](mailto:Earthquake.InformationOffice@royalcommission.govt.nz)
Subject: FW: Royal Commission - Canterbury Earthquakes - Foundations on Deep Alluvial Soils
Date: Tuesday, 27 September 2011 12:35:55 p.m.

From: ross thomson [mailto:roscoejt@hotmail.com]
Sent: Wednesday, 14 September 2011 11:00 a.m.
To: canterbury
Subject: RE: Royal Commission - Canterbury Earthquakes - Foundations on Deep Alluvial Soils

in draught i have an interesting proposal...150 x 150 SHS capped pile...drive to say 10-20 mm movement each stroke. then weld a 'ships hull' an upside down tapered pyramid and gunells...further driving displaces the ??? 'water of liquifaction' to bear known weight on known displaced liquified silt???

rebuild on the red zone 2.4m x 2.4m pile grid??? QED

From: canterbury@royalcommission.govt.nz
To: canterbury@royalcommission.govt.nz
Date: Thu, 1 Sep 2011 15:07:28 +1200
Subject: Royal Commission - Canterbury Earthquakes - Foundations on Deep Alluvial Soils

The Royal Commission is continuing to publish on the website www.canterbury.royalcommission.govt.nz technical reports relevant to the Terms of Reference.

This week a report prepared by Associate Professor Misko Cubrinovski from the University of Canterbury and Ian McCahon of Geotech Consulting Ltd in Christchurch will be published. The report, "Foundations on Deep Alluvial Soils", is relevant to a number of aspects of the Royal Commission's inquiry including Issue I: Seismicity, the issues relating to the performance of buildings in the Christchurch CBD and new technologies.

The report discusses the nature of the soils in the Christchurch CBD, and their susceptibility to liquefaction. It describes the effect of liquefaction in the Canterbury earthquakes on CBD buildings of different foundation types, identifies appropriate foundation types and land improvement measures suitable for buildings on deep alluvial soils, and discusses the importance of appropriate field investigations and the need for a holistic design approach that takes into account soil conditions, and foundation and structure systems. The report commences with a short Executive Summary.

The report is currently being peer reviewed by Professor Jonathan Bray of the University of California at Berkeley. His review will be published on the website when it is received.

The report will be presented in a hearing commencing on Tuesday 25 October (the day after Labour Weekend). Any persons wishing to give evidence or make submissions on the issues discussed in the report will also be heard in the balance of that week. The hearing venue will be the St Teresa Church Hall, on the corner of Riccarton Road and Puriri Street, Christchurch.

The Royal Commission now requests that any evidence or submissions on the issues discussed in the report be provided in electronic form by Friday 7 October 2011. The evidence and submissions will be published on the website, unless any party satisfies the Royal Commission that there are compelling reasons not to do so.

Yours sincerely
Justine Gilliland
Executive Director

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