4415
6 December 2014

GEOTECH
consulting ltd

Selwyn District Council
PO Box 90
Rolleston

Attention J. Tuilaepa

Dear Ms Tuilaepa,

RE: Plan change Application – Coles Block, Main South Road

Geotech Consulting has been asked to carry out a peer review on the geotechnical report for the proposed rezoning of 20.59 ha Lot 4 DP 74253. The report is by Riley Consultants Ltd dated 18 December 2012, and is appended to the Application for Plan Change, Aston Consultants, September 2014, for Dreamtime Ltd. In particular the peer review is to ensure compliance with the MBIE / CERA guidelines for the geotechnical assessment for subdivisions.

The report includes a summary of a site investigation which covered both Lot 4 and adjacent Lot 3 and included nine test pits up to 5.0m deep and 15 scala penetrometer tests. Reference is also made to 2 Ecan well logs within the two lots. The test pits show about 0.3m of silty topsoil over silty sand to between 0.7m and 2.2m, over sandy gravel. The deeper well logs all show gravels extending to tens of metres depth. The Ecan wells indicate a ground water level at about 15 - 19m depth, although high levels could reach 10m depth.

The report concludes that there is a low risk of liquefaction because of the nature of the soils and the depth to groundwater, and that the site can be considered equivalent Foundation technical category TC1. The penetrometer tests indicate that the surface siltier soils do not comply with NZS 3604 “good ground, but that viable foundation options are available requiring specific design input.

We conclude that the report complies with the intent of the MBIE Guidelines with test frequency consistent with those recommended for plan changes. As stated in the report, the site will be equivalent to foundation technical category TC1. Although the surface soils are not consistent with NZS 3604 “good ground”, viable foundation solutions exist and the site is suitable for residential development..

Yours faithfully
Geotech Consulting Limited

IF McCahon

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