

## Jack Hodgson Consultants Pty Limited

CONSULTING CIVIL, GEOTECHNICAL AND STRUCTURAL ENGINEERS

ABN: 94 053 405 011

**MT 31653** 17<sup>th</sup> December, 2018 Page 1

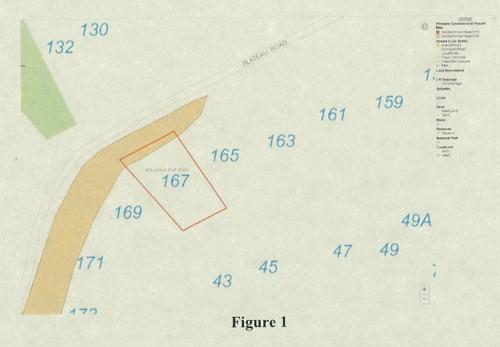
The General Manager Northern Beaches Council - Pittwater PO Box 882 MONA VALE NSW 1660

Dear Sir,

## 167 PLATEAU ROAD, BILGOLA PLATEAU

Geotechnical Report for Minor Alterations and Additions

A Geotechnical Site Inspection was carried out at the above address on the 14<sup>th</sup> December, 2018. No subsurface investigation was undertaken. The site is mapped by the Northern Beaches Council 'Pittwater LEP 2014' Geotechnical Hazard Map with only the top of the site being 'H2 Hazard' category, Figure 1. The rest of the site is uncategorised meaning no geotechnical risk assessment is required.



The proposed works will comprise of the construction of a carport roof over the existing driveway, a new first floor addition to the existing residence, some internal room changes and external deck and a new roof to the existing rear shed. Details of the proposed alterations and additions are shown in architectural plans prepared by Hot House Studio, Project Number: 18182, Drawing No: DA 001 to DA 003, DA 100 to DA 102, DA 200 to DA 201 and DA 300 and dated 6<sup>th</sup> December, 2018.



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MT 31653 17<sup>th</sup> December, 2018 Page 2

The existing residence is sited near the crest of the slope which falls from the north west to the south east. This area is gentle to moderate slope. No evidence of significant slope instability was identified during our inspection. The road batter slope created when the road was constructed is the reason for the H2 geotechnical classification due to the slight increase in the steepness of the slope.

The proposed development is to be constructed with minor excavations for footings and in our opinion requires no detailed geotechnical assessment provided any new foundations required are taken to underlying stiff clays or better of the natural profile. Materials of this kind will provide an approximate allowable bearing pressure of 300 kPa. All new footings are to be inspected and approved by the geotechnical engineer before concrete is placed so that the final 'Form 3' can be issued as per Councils' requirements.

The property appears stable by inspection and accordingly the proposed development will have an Acceptable Risk Level in accordance with the 2009 Geotechnical Risk Management Policy for Northern Beaches Council - Pittwater subject to good engineering practice for the structural design and construction methods.

JACK HODGSON CONSULTANTS PTY. LIMITED.

Peter Thompson MIE Aust CPEng

Member No. 146800

Civil/Geotechnical Engineer