

**GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER
FORM NO. 1 – To be submitted with Development Application**

Development Application for	<u>Adam Waugh</u>	Name of Applicant
Address of site	<u>10 Bertana Crescent, Warriewood</u>	

Declaration made by geotechnical engineer or engineering geologist or coastal engineer (where applicable) as part of a geotechnical report

I, Garth Hodgson on behalf of Hodgson Consulting Engineers Pty Ltd
(insert name) (Trading or Company Name)

on this the 3rd March, 2021 certify that I am a geotechnical engineer or engineering geologist or coastal engineer as defined by the Geotechnical Risk Management Policy for Pittwater - 2009 and I am authorised by the above organisation/company to issue this document and to certify that the organisation/company has a current professional indemnity policy of at least \$2million.

Please mark appropriate box

- ☐ Prepared the detailed Geotechnical Report referenced below in accordance with the Australia Geomechanics Society's Landslide Risk Management Guidelines (AGS 2007) and the Geotechnical Risk Management Policy for Pittwater - 2009
- ☐ I am willing to technically verify that the detailed Geotechnical Report referenced below has been prepared in accordance with the Australian Geomechanics Society's Landslide Risk Management Guidelines (AGS 2007) and the Geotechnical Risk Management Policy for Pittwater - 2009
- ☐ Have examined the site and the proposed development in detail and have carried out a risk assessment in accordance with paragraph 6.0 of the Geotechnical Risk Management Policy for Pittwater - 2009. I confirm the results of the risk assessment for the proposed development are in compliance with the Geotechnical Risk Management Policy for Pittwater - 2009 and further detailed geotechnical reporting is not required for the subject site.
- ☒ Have examined the site and the proposed development/alteration in detail and am of the opinion that the Development Application only involves Minor Development/Alterations that do not require a Detailed Geotechnical Risk Assessment and hence my report is in accordance with the Geotechnical Risk Management Policy for Pittwater – 2009 requirements for Minor Development/Alterations.
- ☐ Have examined the site and the proposed development/alteration is separate form and not affected by a Geotechnical Hazard and does not require a Geotechnical report or Risk Assessment and hence my Report is in accordance with the Geotechnical Risk Management Policy for Pittwater – 2009 requirements
- ☐ Provided the coastal process and coastal forces analysis for inclusion in the Geotechnical Report

Geotechnical Report Details:

Report Title: 10 BERTANA CRESCENT, WARRIEWOOD. Geotechnical letter for proposed alterations and additions– QP 00187A
Report Date: 3 rd March, 2021
Author : Garth Hodgson
Author's Company/Organisation : HODGSON CONSULTING ENGINEERS PTY LTD

Documentation which relate to or are relied upon in report preparation:

JJ Drafting Job No: 860/20, Dwg No: DA01 to DA15, Revision A and dated 12th February, 2021.

I am aware that the above Geotechnical Report, prepared for the abovementioned site is to be submitted in support of a Development Application for this site and will be relied on by Pittwater Council as the basis for ensuring that the Geotechnical Risk Management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure, taken as at least 100 years unless otherwise stated and justified in the Report and that reasonable and practical measures have been identified to remove foreseeable risk.

Signature

Name Garth Hodgson

Chartered Professional Status MIE Aust

Membership No. 2211514

Company Hodgson Consulting Engineers Pty Ltd

Dear Sir,

Geotechnical letter for proposed alterations and additions

Figure 1

The proposed works will comprise of the construction of new timber deck extension on the ground floor level at the front of the existing main residence with minimal excavation required for any new foundations. Details of the proposed alterations and additions are shown on the plans prepared by JJ Drafting Job No: 860/20, Dwg No: DA01 to DA15, Revision A and dated 12th February, 2021.

The site is on the high north eastern side of Bertana Crescent Parkway with a south westerly aspect and is accessed by a concrete driveway on the south eastern corner of the site. From the road reserve the slope of the subject property is a moderate to steep slope rising to the north east at average angles of 10 to 20 degrees from the just inside the front boundary to approximately 40m above the subject property to the crest in the Elimatta Road properties above. The neighbouring properties have similar elevation and geomorphology to the subject property. No significant movement attributed slope instability was observed in the existing buildings.

The masonry retaining wall runs along the subject property's front boundary. A treated timber soldier pile retaining wall supporting the batter up the front lawn area is on the north western side of the driveway. A treated timber retaining wall supports the level patio area at the rear north eastern corner of the existing residence. A masonry retaining supports the cut batter to the north west and north east of the existing swimming pool. The retaining walls were observed to have no signs of significant movement at the time of our inspection.

The proposed alterations and additions will require minimal excavation for any new footings that are required. The depth to the underlying weathered bedrock is approximately 1.0 to 2.0 metres. We recommend that any new foundations are to be taken to the underlying weathered bedrock. The weathered bedrock will have a minimum design allowable bearing capacity of 450 kPa.

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.

HODGSON CONSULTING ENGINEERS PTY LTD.



Garth Hodgson MIE Aust
Member No. 2211514
Civil/Geotechnical & Structural
Engineer