

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

Development Application for Tim & Helen Anderson  
Name of Applicant

Address of site 158 Crescent Road, Newport

**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 8<sup>th</sup> December, 2020 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: 158 CRESCENT ROAD, NEWPORT. Geotechnical letter for proposed alterations and additions- QY 00167A

Report Date: 8<sup>th</sup> December, 2020

Author : Garth Hodgson

Author's Company/Organisation : HODGSON CONSULTING ENGINEERS PTY LTD

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

**Drawings prepared by SDG Land Development Solutions, Ref:- 7188, Plan A3, Sheets 1 to 2, Issue 'E' and dated 7<sup>th</sup> December, 2020**

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

The General Manager  
Northern Beaches Council  
Pittwater Area  
PO Box 82  
**MANLY NSW 2095**

Dear Sir,

**158 CRESCENT ROAD, NEWPORT.**

Geotechnical letter for proposed alterations and additions

A Geotechnical Site Inspection was carried out at the subject address on the 20<sup>th</sup> November, 2019. No subsurface investigation was undertaken. The site is mapped by the Northern Beaches Council 'Pittwater LEP 2014' Geotechnical Hazard Map with the lower two thirds of the site is in Hazard Category H1, Figure 1.



Figure 1

The proposed works will comprise of a new sea wall to be built approximately 1.0 to 1.2 metres high above existing ground levels at the bottom of the existing bank. Minor filling behind the proposed sea wall will be required for the reclamation of land. Details of the proposed development are shown on the plans prepared by SDG Land Development Solutions, Ref:- 7188, Plan A3, Sheets 1 to 2, Issue 'E' and dated 7<sup>th</sup> December, 2020.

The site is on the low side of the Crescent Road and is accessed by a concrete driveway on the north eastern corner of the site. The moderate to steep slope falls predominately to the north at average angles of 15 to 25 degrees towards the waters of Pittwater and extends above the subject property to the crest near The Avenue. The neighbouring properties have similar elevation and geomorphology to the subject property. No significant movement attributed slope instability was observed in the existing buildings.

Some minor movement in the stacked sandstone retaining walls at the rear of the existing boat shed was observed at the time of our inspection. We recommend that these retaining walls are to be monitored and if any further significant movement is observed then appropriate action is to be taken at this time.

The proposed sea wall is to be designed and certified by a suitably qualified structural engineer.

The Geotechnical Engineer is to inspect and approve the foundation materials of all footing excavations before concrete is placed.

In our opinion the risk of instability in the slope will be reduced by the construction of the proposed sea wall provided good engineering and building practices are followed and if the recommendations above are undertaken the likelihood of the slope failing and impacting on the subject property is assessed as having an Acceptable Risk Level.

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**