

20th August 2019

Newport Homes Pty Ltd
PO Box 7301
BAULKHAM HILLS BC NSW 2153

Our Ref: AWT51477
Your Ref:

Re: Preliminary Landslip Assessment for Lot 12, No 183 Barrenjoey Road, Newport

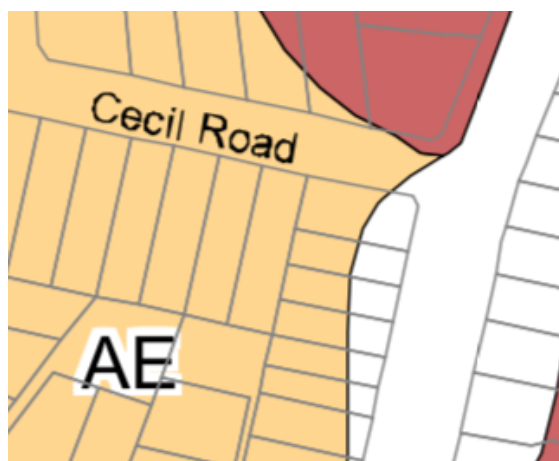
We have carried out the following investigation:

- Studied the building plans by Newport Homes, (dated 07/08/2019 Issue G), outlining the proposal.
- Reviewed the Pittwater Council online landslip mapping system.
- Reviewed a Site Classification report by AW Geotechnics Pty Ltd (dated 21/03/2019 Rev B), AWT51477, which included two(2) boreholes.

Based on the information from the above sources, we have concluded the following;

1. The site plots within what is denoted as Geotechnical Hazard Zone H2.

NOTE: There are no other landslide maps covering this area known to us.



Geotechnical Hazard

W	Geotechnical Hazard H1
AE	Geotechnical Hazard H2

2. On the relevant 1:100,000 geological map, this site plots within the Mesozoic Aged Hawkesbury Sandstone.



3. The onsite testing encountered shallow bedrock at depths ranging from 1000-1600mm and was noted within the cut face in the front right hand corner of the site.
4. The onsite testing encountered filled ground down a depth of 1000mm.
NOTE: Localised shallow pockets of disturbed natural may be encountered across the site.
5. Proposed fill works will be fully contained within the engineer designed drop edge beams.
6. No signs of slope instability was noted within the geotechnical report nor during our site walk over.
7. We are unaware of any proposal to create an excavation deeper than 2000 mm.

8. Using Appendix C of the 2007 Australian Geomechanics Society LRM guidelines, we are of the opinion that the following applies to the proposed building footprint:

The likelihood of a Landslide event adversely affecting this dwelling during its life expectancy is conceivable, but only under exceptional circumstances (Rare: 10^{-5}).

If such an event does occur, then the damage to the structure will be in the "minor" range, which is also interpreted as having a cost in the range of 1-10% of the market property value at the time of the event.

All of this results in a risk classification due to landslide as "very low", which is the lowest most stable category of the five(5) risk categories available.

After considering the Pittwater Council Landslip Risk Guidelines, it is our opinion that there is no need for a more detailed geotechnical report with respect to landslip risk on this site and providing that the proposed footing system is fully supported on the underlying bedrock and is designed by a suitably qualified engineer to the relevant AS2870-2011 site classification including the site specific guidelines provided in the above referenced report.

Furthermore, providing all retaining structures are designed by a suitably qualified person and ongoing geotechnical input/supervision during earthworks is undertaken we see no reason why this development will abnormally influence the adjoining properties and associated infrastructure for the life span of the dwelling.

AW Geotechnics Pty Ltd



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