

July 3, 2020
Project No. 30560/4004D-G
Report No. 20/1809
MG/RM/ms

PRELIMINARY LANDSLIP ASSESSMENT

Client: Xcel Building Solutions Pty Limited
Address: 13 Kinsdale Close, Killarney Heights
Proposed Development: Alterations and Additions

1. Site Description

Approx. area (m²): 742
Approx. fall: 2.0 metres to the south west in the building area, reasonable site drainage
Vegetation: Grass, shrubs and trees
Improvements: Existing residential dwelling

2. Geology, Fieldwork Details and Subsurface Conditions

The Sydney geological series sheet, at a scale of 1:100,000 indicates that the site is underlain by Triassic Age Hawkesbury Sandstone bedrock. Bedrock within this formation comprises fine to medium grained quartz sandstone.

A site inspection was undertaken by one of our senior geotechnical engineers on June 26, 2020. During our site inspection sandstone bedrock was observed outcropping at the rear of the site. The proposed development area at the rear of the site is relatively flat.

Based on the outcomes of our inspection, we expect the site to be underlain by shallow bedrock. There is likely to be a thin layer of topsoil, fill and residual clayey soils overlying the bedrock. The thickness of soil in the profile is not expected to exceed 1 metre. No evidence of extensive fill materials was observed during our inspection.

No groundwater seepage or signs of erosion were observed during the site inspection.

3. Preliminary Landslip Assessment

The development will comprise the construction of a swimming pool (or spa) at the rear of the site. The maximum cut and fill heights are around 1.2 metres. Council landslip hazard mapping shows the property is within a Class B area and therefore a preliminary assessment of the site conditions is required.

The preliminary landslip risk assessment carried out is based on Council's checklist. The assessment is as follows:

- Does the site or adjacent properties have a history of slope instability – No.
- Are excavations or fills greater than 2 metres proposed – No.
- Is the site developed – Yes.
- Is fill greater than 1 metre in depth present – No.
- Are cut/excavations deeper than 2 metres present – No.

Based on our observations and Council's checklist a detailed landslip assessment will not be required.

We trust this meets with your requirements. Should you have any questions, please contact us.

Yours faithfully,



Rasoul Machiani
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STS Geotechnics Pty Limited



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Principal Engineering Geologist
STS Geotechnics Pty Limited