

October 11, 2021
Project No. 30046/387A
Report No. 21/2816
IW/ms

PRELIMINARY LANDSLIP ASSESSMENT

Client: Montgomery Homes Pty Limited
Address: Lot 9, 15 Bridgeview Crescent, Forestville
Proposed Development: Construction of a new residential dwelling

1. Geology and Site Description

The site is roughly triangular in shape with an area of approximately 928m². A site inspection was undertaken by one of our Geotechnical Engineers on October 7, 2021. At the time of the inspection the site was occupied by a single level rendered residential dwelling with tile roof. The dwelling includes a concrete driveway at the front.

The ground surface falls approximately 8 metres to the south-east. The existing dwelling has been constructed on the flatter, central portion of the site, with minor cut and fill to level the house footprint. Sandstone outcrops were observed in the front, north-western portion of the site. The existing dwelling is founded on sandstone bedrock with bedrock exposed at numerous locations beneath the dwelling.

The site is surrounded by residential dwellings on all sides, with site vegetation comprising grass, shrubs and trees.

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

Based on the site inspection we expect the subsurface conditions to comprise minor topsoil and fill overlying residual clayey sand and sandy clay soils, overlying shallow sandstone bedrock. Sandstone bedrock was observed outcropping on the site.

2. Preliminary Landslip Assessment

The development will comprise the demolition of the existing site structures and construction of a two-storey residential dwelling. Excavation and filling of up to a 1.0 metre depth is expected to allow for site leveling during construction. The Council landslip hazard map shows the property is within a Class B area.

The preliminary landslip carried out is based on Council's check list. The assessment 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 greater than 1m of fill present: No
- Are cuts / excavations greater than 2m high present – No.

Based on our observations and Council's check list 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,



Ian Watts
Geotechnical Engineer
STS Geotechnics Pty Limited