

July 8, 2021
Project No. 31299/5311D-G
Report No. 21/2058
IW/ms

PRELIMINARY LANDSLIP ASSESSMENT

Client: Louis Tague

Address: 19 Farnell Street, Curl Curl

Proposed Development: Alterations and Additions to an existing residential dwelling

1. Geology and Site Description

The site is roughly rectangular in shape with an area of approximately 682.9m². A site inspection was undertaken by one of our Geotechnical Engineers on July 6th, 2021. At the time of the inspection the site was occupied by a three-level brick rendered residential dwelling. The dwelling includes a paved driveway at the front.

The ground surface falls approximately 6 metres to the east. The existing lower ground floor area of the dwelling has been cut into the site with an estimated maximum cut depth of 1.5 metres. The adjoining cut slopes are retained by the lower ground floor walls. Elsewhere on the site there are several low height, brick rendered retaining walls that have been constructed for landscaping purposes. There is likely to be localised fill behind the walls, which have heights of less than 1 metre. The existing dwelling appears to be founded on sandstone bedrock with bedrock exposed at numerous locations in the rear of the property.

Site vegetation comprised grass, shrubs and some moderate sized trees in the back garden.

To the east of the site is Farnell Street. To the north, south and west are residential dwellings.

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 fine to medium grained quartz sandstone. The sandstone exposures are consistent with this geological setting.

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 in the southern portion of the site.

Any fill materials present on the site are expected to occur behind retaining walls and in landscaped areas.

No groundwater seepage was observed during the site inspection.

2. Preliminary Landslip Assessment

The proposed works comprise internal alterations and a minor extension at the rear of the dwelling, together with construction of a pergola area. No additional excavation other than those for footings and service trenches are proposed as part of these works. Reference to the Council Local Environment Plan indicates the property is located within a Class B area with respect to landslip hazard.

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*