



LRT

Report TGE21840

17 October 2018

Garden Homes

PO Box 948

NEUTRAL BAY NSW 2089

Attention: Mrs. Anne McCusker,

Dear Madam,

**LETTER REPORT ON PRELIMINARY GEOTECHNICAL ASSESSMENT
PROPOSED RESIDENTIAL DEVELOPMENT
128 QUEENSCLIFF ROAD QUEENSCLIFF**

This letter report details the results of a preliminary geotechnical assessment undertaken at 128 Queenscliff Road Queenscliff. Garden Homes & D.A. Angles, project managers, requested the inspection which was made in order to comply with development application requirements from Northern Beaches Council (formerly Warringah Council) for a preliminary geotechnical assessment to be carried out for submission with a development application for this site.

It is understood that the development will comprise a first floor addition to the existing 2 & 3 storey timber, brick & tile residence. The aim of the inspection was to provide an assessment of site stability and any affect the proposed development may have.

The site is a single block, located on the south western side of Queenscliff Road in Queenscliff and is bounded by neighbouring properties to the north west, south east and south west with frontage to Queenscliff Road to the north east. The site is located within Area B of the Warringah Council Landslip Risk Map with ground slopes of approximately 5-10 degrees falling to the south west across the site with a sandstone cliff line, approximately 5-6 m in height located adjacent and along the rear boundary of the site. A two and three storey timber and brick residence is located centrally in the north eastern section of the site with a single attached brick garage located on the eastern side of the residence and an in-ground swimming pool located in the rear section of the site. Sandstone bedrock is exposed in the cliff line at the rear of the site. Sandstone is expected to underlie the site at shallow depth where not exposed at surface level.

Reference to the Sydney 1:100,000 Geological Sheet indicates that the site is underlain by Hawkesbury Sandstone from the Wianamatta Group, of the Triassic Period. The Hawkesbury Sandstone formation typically comprises medium to coarse grained quartz sandstone with very minor shale and laminite lenses. The rocks of these formations typically weather to form low and moderately reactive sandy clay soils but highly reactive clay soils are possible.

The geological mapping was confirmed with Hawkesbury sandstone outcrops observed on this and adjacent sites.

Assessment of the site has been made in accordance with the methods and requirements as outlined by the Australian Geomechanics Society "Landslide Risk Management", Australian Geomechanics Journal Vol 42, No 1, March 2007, and Section E10 of Warringah Councils DCP 2011.

The details of the proposed development are shown on Affordable Plans Nurhan Ediz Boyacioglu – Architectural Draftsman plans, Plan No. 798/18, Sheets 1 to 3, dated May 2018. It is understood that no excavation is required for construction of the first floor extension that is located in the south western section of the residence.

Based on the results of the inspection of the existing residence and surrounds, the site appears to be stable with no evidence of recent movement or past instability. The proposed development and its impact on the site and surrounds has been assessed and it is considered that the proposed development will not create an unacceptable risk of instability to this or adjoining sites. As such, in accordance with Section E10 of Warringah Councils DCP 2011, a full geotechnical investigation and report is not required for submission with the development application.

Should you require any additional information please contact the writer at this office.

TAYLOR GEOTECHNICAL ENGINEERING PTY LIMITED,



Lachlan Taylor

MIE Aust. CPEng. NER.

Principal Geotechnical Engineer