



LRT

Report TGE22035

24 August 2020

Mr. Brett Hardaker
35 Collaroy Street
COLLARROY NSW 2097

Attention: **Mr. Brett Hardaker,**

Dear Sir,

LETTER REPORT ON PRELIMINARY GEOTECHNICAL ASSESSMENT
PROPOSED RESIDENTIAL DEVELOPMENT
35 COLLARROY STREET COLLARROY

This letter report details the results of a preliminary geotechnical assessment undertaken at 35 Collaroy Street Collaroy. Mr. Brett Hardaker, property owner, requested the assessment which was carried out by Taylor Geotechnical Engineering Pty Limited on Thursday 6th August 2020. The assessment was made to comply with a directive from Northern Beaches Council (formerly Warringah Council) for a preliminary geotechnical assessment to be carried out for submission with the development application as the site is located within Area D and Area E on Councils landslip risk map.

Reference to Michael Dyer architectural plans, Drawing No. 01 to 05 dated 23 February 2020 indicate that the development will comprise construction of a roof over the existing carport. 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 northern side of Collaroy Street in Collaroy and is bounded by neighbouring properties to the east and west, Feilding Reserve to the north with southern frontage to Collaroy Street. As mentioned earlier, the site is affected by Area D and Area E on Councils landslip risk map with Area E affecting the very Southern section of the site and the vast majority of the site within Area D. Natural ground falls to the north, with an embankment of approximately 20-25 degrees from street level extending approximately 5 m north into the site then average slopes of approximately 10-15 degrees across the remainder of the site.

A concrete carport supported on concrete piers is located in the south western corner of the site, with stairs leading to a 1 and 2 level clad residence with tile roof. Various views of the site are shown in Photos 1 to 4 attached.

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

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 over the design life of the current development and no hazards that would pose an unacceptable risk to property or life. The proposed development and its impact of 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 if carried out in accordance with current Australian building codes and standards. 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.

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.

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

Attachments: Photos 1 to 6



Attachments



Photo 1 – View of concrete carport area in south western corner of site, looking north east.

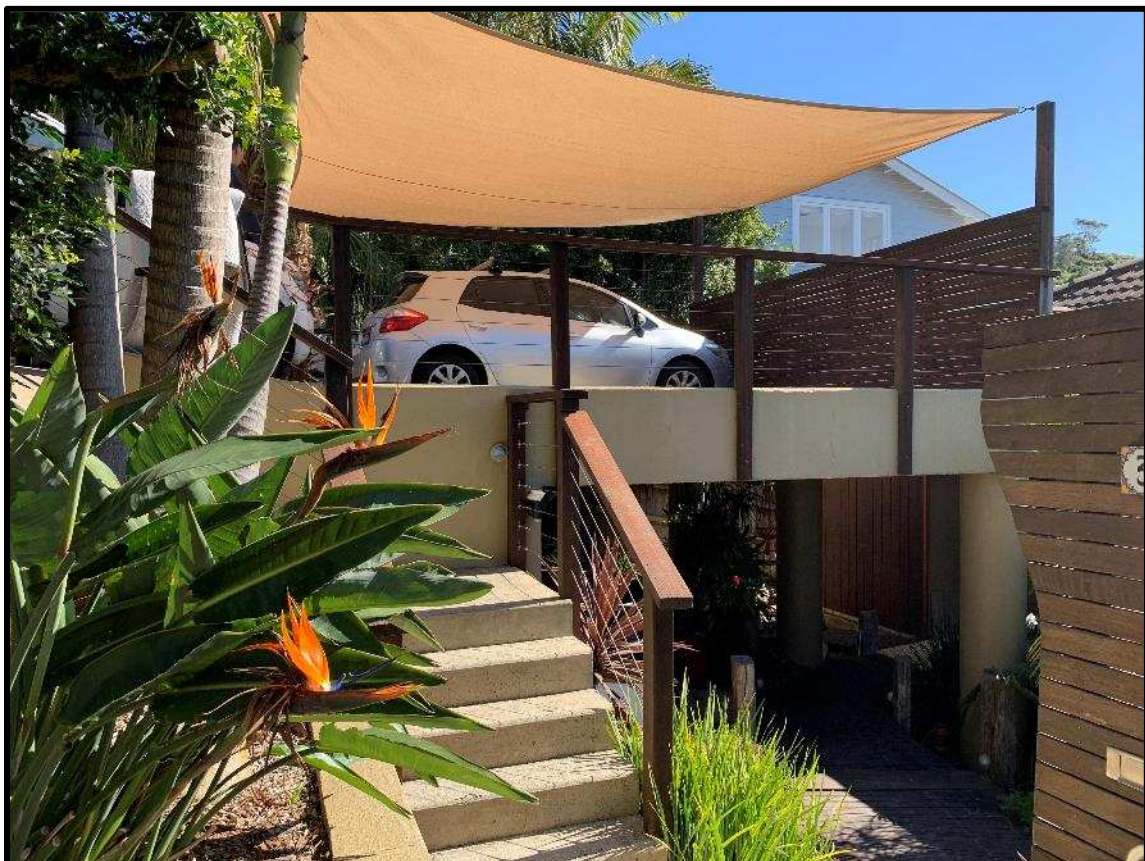


Photo 2 – View of stairs leading to residence from carport and support piers for carport.



Photo 3 – View of residence from Collaroy Street, looking north west.

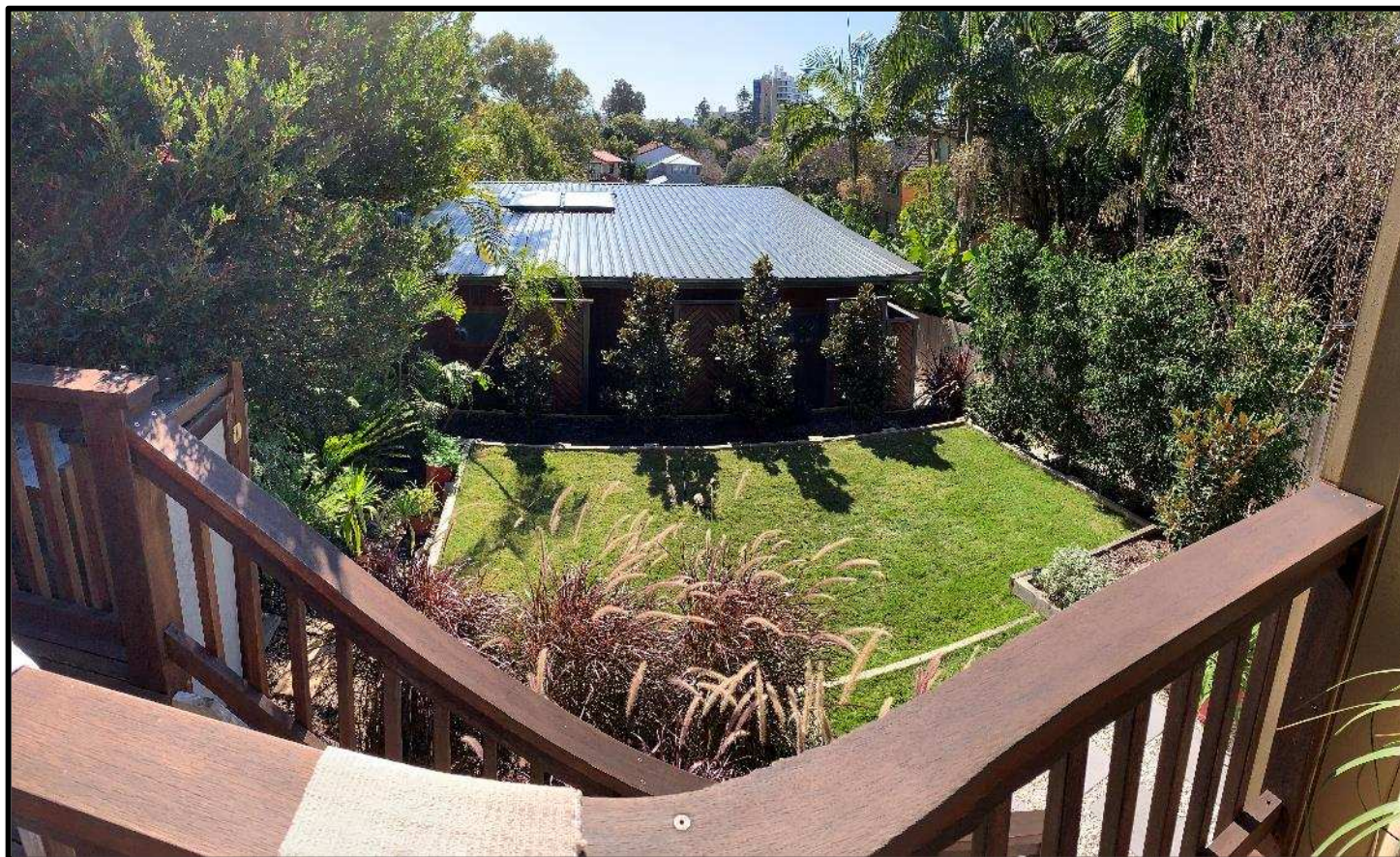


Photo 4 – Northern section of site showing granny flat, viewed from rear deck of main residence, looking north.



Photo 5 – View of main residence from rear yard, looking south.



Photo 6 – View of main residence from south eastern corner of site, looking north west.