

**PRELIMINARY GEOTECHNICAL ASSESSMENT
FOR
PROPOSED ALTERATIONS AND ADDITIONS
AT
4 KANYA STREET, FRENCHS FOREST**

1.0 INTRODUCTION.

1.1 This assessment has been prepared to accompany an application for development approval.

1.2 The site is located in land that is subject to Areas A and B on the Landslip Risk Map. The methods used in this Assessment are based on those described in Landslide Risk Management March 2007, published by the Australian Geomechanics Society. Also Council checklist contained within Clause E10 of Warringah DCP and the WLEP Map identifying the Landslip Risk Class as highlighted (red) below:-

	<i>LANDSLIP RISK CLASS (Highlight indicates Landslip Risk Class of property)</i>
<input checked="" type="checkbox"/>	<i>A Geotechnical Report not normally required</i>
<input checked="" type="checkbox"/>	<i>B Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required</i>
<input type="checkbox"/>	<i>C Geotechnical Report is required</i>
<input type="checkbox"/>	<i>D Council officers to decide if Geotechnical Report is required</i>
<input type="checkbox"/>	<i>E Geotechnical Report required</i>

1.3 The experience of Hodgson Consulting Engineers spans some 25 years in Northern Beaches and the Greater Sydney area.

2.0 PROPOSED DEVELOPMENT

2.1 Construct a new swimming pool and landscaping.

2.2 Details of the proposed development are shown on a series of architectural drawings prepared by Jamie King Landscape Architect, Project No: 22033, Dwg No: Sht-101 to 104 Sht-201, Revision A and dated 20th September, 2021.

3.0 SITE LOCATION

3.1 The site was inspected for this assessment on the 1st October, 2021.

3.2 This average sized rectangular residential block has a southerly aspect. From the road frontage the gentle sloped road reserve continues into the front of the subject property. The main slope falls to the west at moderate average angles of 5 to 10 degrees. Beyond western side boundary the slope changes to steep to very steep slope at average angles of 10 to 25 degrees down to Forestville Park.

4.0 SITE DESCRIPTION

4.1 From the road frontage the short concrete driveway crossing starts near the south eastern corner of the property heading north towards the attached double garage on the south eastern corner of the existing residence. Pedestrian access to the main entrance of the existing residence is via the driveway and pathway. Access to the rear of the property is via gated fences on the western and eastern sides of the existing residence. At the rear of the existing residence is a lawn area with part terraced area adjacent the north western rear corner of the existing residence. This paved area is lower than the main lawn and the cut supported by small masonry retaining walls. The existing residence is of brick veneer construction supported by masonry walls, raft slab on piers. At the time of our inspection no significant geotechnical hazards were identified and the existing residence was in good condition with no signs of significant movement due to geotechnical instability.

5.0 RECOMMENDATIONS

5.1 The proposed alterations and additions will require minimal excavation for any new footings that are required. The depth to the underlying bedrock is approximately 0.5 to 1.0 metres. We recommend that any new foundations required are to be taken to the underlying bedrock.

5.0 RECOMMENDATIONS (Continued)

5.2 The proposed alterations, additions and existing site conditions were considered and applied to the Council Flow Chart for classes A & B areas as contained within Clause E10 of Warringah DCP and the WLEP. Based on this preliminary assessment, the proposed development works would be considered satisfactory from a Geotechnical and landslip perspective subject to the application of good engineering practice for the structural design and construction methods. As it is not proposed to undertake any major excavation for the future works it is therefore recommended that no further geotechnical assessment is required.

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