

**PRELIMINARY GEOTECHNICAL ASSESSMENT  
FOR  
PROPOSED ALTERATIONS AND ADDITIONS  
AT  
15 WAREHAM CRESCENT, 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 Area 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:-

	<b><i>LANDSLIP RISK CLASS (Highlight indicates Landslip Risk Class of property)</i></b>
<input 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** Various alterations and additions including a new garage and new secondary dwelling in an existing building.

**2.2** Details of the proposed development are shown on a series of architectural drawings prepared by Novam Design Studio Project No: AP-19-073 Dwg No: A00 to A20 dated July, 2019.

### **3.0 SITE LOCATION**

**3.1** The site was inspected for this assessment on the 30<sup>th</sup> August, 2019.

**3.2** This average sized residential block has an easterly aspect. From the road frontage the site falls moderately to the east towards the rear boundary at approximately 5 to 10 degrees.

### **4.0 SITE DESCRIPTION**

From the road frontage a concrete driveway leads straight down from Council's vehicle layback towards the existing carport located on the northern side of the existing residence. Access to the front and rear of the property is via separate pathways on the northern and southern side of the existing residence. The front yard is predominately lawn with some landscaping. The rear yard is a landscaped lawn and paved area with an existing detached building in the north eastern corner and the existing swimming pool near the south east corner. The existing residence is brick veneer construction supported on strip and pad footings. 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.

### **5.0 RECOMMENDATIONS**

The proposed alterations and additions may require minimal excavation for any new footings that are required. The depth to the underlying bedrock is approximately 0.5 to 1.5 metres. We recommend that any new foundations required are to be taken to the underlying bedrock.

The proposed alterations, additions and existing site conditions were considered and applied to the Council Flow Chart for class B area 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. It is not proposed to undertake major excavation for the works; therefore it is recommended no further geotechnical assessment is required.

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