

Our Ref: 41536  
4 September 2019

Attention: Lynn Li

## **RE: Preliminary Slope Stability Assessment at 911 Pittwater Road, Collaroy**

### **1 INTRODUCTION**

Ideal Geotech has prepared this report to discuss the results of the preliminary geotechnical assessment undertaken for the proposed development at 911 Pittwater Road, Collaroy. Ideal Geotech was engaged to provide a preliminary landslip risk assessment. It is understood the proposed development comprises the construction of a two-storey residential dwelling with a split level garage.

The site is located within **Area D** on the Landslip Risk Map LSR\_009 which requires a preliminary Geotechnical Assessment to determine if further investigation is required.

### **2 PROPOSED DEVELOPMENT**

With reference to the supplied drawings prepared by Wincrest Homes, job no. 17338 and dated 18/07/2019, it is understood that the proposed development comprises the construction of a two-storey residential dwelling with a split level garage. Up to 1.8m of cut and minimal fill is expected during the construction.

### **4 GEOLOGY**

The Sydney 1:100,000 scale Geological Series Map indicates that the subject site is situated within the Newport Formation of the Narrabeen Group comprising of interbedded laminate, shale and quartz to lithic-quartz sandstone along with soils derived from the weathering of these rocks.

### **5 SITE DESCRIPTION**

The site is rectangular in shape with a total area of approximately 632m<sup>2</sup>. The site is bound by Pittwater Road to the south and by residential dwellings on all other sides. The site is located within gentle to moderately sloping terrain with the site sloping downwards towards the south at gradients of approximately 7-8°. The site is currently occupied by an existing house and garage. Vegetation on the site consists of grass cover and some small trees along the northern boundary and a tree in the backyard.

During the course of the inspection no slip scarps or tension cracks were documented nor was there any visible hummocking of the land. This leads to the assumption that no significant slope failures have occurred.

Existing development comprises an existing retaining wall approximately 1.2m in height along the southern boundary of the site and small retaining wall approximately 0.5m in height at the rear of the house.

## 6 RECOMMENDATIONS

Based on the above items, and the attached flowchart that indicates the principal factors considered in the assessment, it is recommended that a Geotechnical Assessment is not required

Footings for the proposed house should extend through any fill into the underlying rock.

## 7 GENERAL

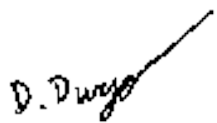
The scope of Ideal Geotech services are described in the report and are subject to restrictions and limitations. Ideal Geotech did not perform a complete assessment of all possible conditions or circumstances that may exist at the site. Site conditions may also change subsequent to the investigations and assessment due to ongoing use.

Where data has been supplied by the client or a third party, it is assumed that the information is correct unless otherwise stated. No responsibility is accepted by Ideal Geotech for incomplete or inaccurate data supplied by others.

Assessment was undertaken on 2 September 2019.

For and on behalf of

Ideal Geotech



**Dane Dwyer**  
*Geotechnical Engineer*

Attachments - *Warringah Council Preliminary Assessment Flow Chart*

# COUNCIL PRELIMINARY ASSESSMENT FLOW CHART

