

**PRELIMINARY GEOTECHNICAL ASSESSMENT
FOR
PROPOSED ALTERATIONS AND ADDITIONS
AT
39 SUNSHINE STREET, MANLY VALE**

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:-

	LANDSLIP RISK CLASS (<i>Highlight indicates Landslip Risk Class of property</i>)
<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 main entry in an existing under building space.

2.2 Details of the proposed development are shown on a series of architectural drawings prepared by JMR Building Contractors, Dwg No: 20190508, Sheet 1.1 to 1.5, 2.1, 4.1 to 4.2, 5.1 to 5.2, 6.1, 14.1, 14.3, 15.1, 2.2 and dated 5th August, 2019.

3.0 SITE LOCATION

3.1 The site was inspected for this assessment on the 19th September, 2019.

3.2 This average sized residential block has a north westerly aspect. From the road frontage the site rises moderately to south east towards the rear boundary at approximately 5 to 10 degrees.

4.0 SITE DESCRIPTION

From the road frontage a concrete driveway leads straight up from Council's vehicle layback towards the existing single attached garage located on the north eastern front corner of the existing residence. A car turning area branches off the main driveway at the front of the existing residence. Access to the main entrance on the existing residence is off the driveway along a concrete path on the eastern side of the driveway. Front and rear of the property is via separate pathways on the eastern and western side of the existing residence. The front yard is predominately concrete driveway with some lawn and landscaping. At the rear of the existing residence is a level paved patio area. A set of landscaped stairs leads up to the higher swimming pool and level lawn area. Terraced retaining walls provide support to the upper swimming pool level. Exposed Hawkesbury Sandstone is observed in the south east corner of the subject property. 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 due to geotechnical instability.

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 1.0 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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