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PRELIMINARY GEOTECHNICAL ASSESSMENT:

6 Dorrigo Avenue, North Balgowlah

1.0	LANDSLIP RISK CLASS (Highlight indicates Landslip Risk Class of property)
	A - Geotechnical Report not normally required
	B - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
	C - Geotechnical Report is required
	D - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
	E - Geotechnical Report required

2.0 Proposed Development

- **2.1** Extend the SE side of the house.
- **2.2** Construct a new carport on the E corner of the house.
- **2.3** Construct a new deck on the NW side of the house.
- **2.4** Construct a new first floor addition.
- **2.5** Re-landscape the NW side of the property.
- **2.6** Minor levelling will be required to re-landscape the NW side of the property.
- 2.7 Details of the proposed development are shown on 5 drawings prepared by Site Specific Designs, Project number 2020 08, drawings numbered DD 01 to 05, dated 30/9/2020.

3.0 Site Location

3.1 The site was inspected on the 21st October, 2020.



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- This residential property is level with the road and has a SW aspect. The block runs longways to the NW so the slope is a cross-fall. It is located on the gentle to moderately graded middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops at the road frontage of the property and within the foundation space of the house. Where sandstone is not exposed, it is expected to underlie the surface at relatively shallow depths. The natural surface of the block has been altered with excavations used for landscaping across the site. Minor levelling will be required to re-landscape the NW side of the property.
- **3.3** The site shows no indications of historical movement in the natural surface that could have occurred since the property was developed. We are aware of no history of instability on the property.

4.0 Site Description

The natural slope rises across the property at an average angle of ~10°. Competent Medium Strength Sandstone outcrops at the road frontage to the property. At the road frontage, a concrete driveway runs to a parking area on the uphill side of the house. The cut for the parking area is supported by a stable brick retaining wall ~0.9m high. Between the road frontage and the house is a gently sloping lawn. The single-storey rendered brick house is supported on brick walls and brick piers. The external supporting brick walls display no significant signs of movement and the supporting brick piers stand vertical. Some of the walls and piers were observed to be supported directly onto outcropping sandstone within the foundation space of the house. An excavation has been made in the slope for the N corner of the house. The cut is supported by a stack rock retaining wall that will be demolished as part of the proposed works. Another gently sloping lawn extends off the NW side of the house to the NW common boundary. The area surrounding the house is mostly lawn covered with some paved areas. No signs of movement associated with slope instability were observed on the grounds. No cliffs or large rock faces were observed on the property or in the near vicinity.



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The adjoining neighbouring properties were observed to be in good order as seen from the road and the subject property.

5.0 Recommendations

The proposed development and site conditions were considered and applied to the Council Flow Chart.

Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

White Geotechnical Group Pty Ltd.

Ben White M.Sc. Geol., AusIMM., CP GEOL.

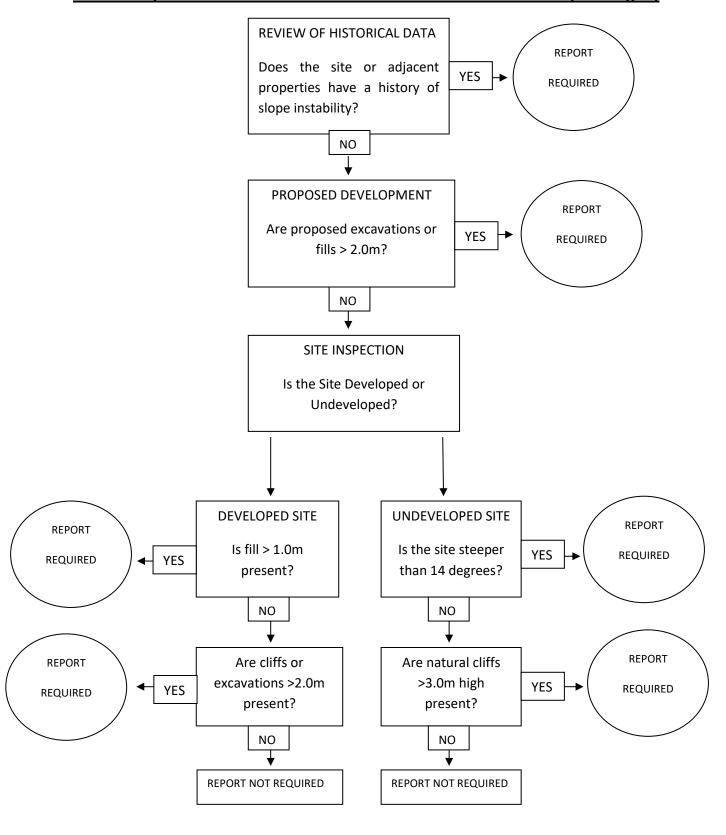
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Engineering Geologist.



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Preliminary Assessment Flow Chart - Northern Beaches Council (Warringah)





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Information about your Preliminary Assessment

This Preliminary Assessment relies on visual observations of the surface features observed during the site inspection. Where reference is made to subsurface features (e.g. the depth to rock) these are interpretations based on the surface features present and previous experience in the area. No ground testing was conducted as part of this assessment and it is possible subsurface conditions will vary from those interpreted in the assessment.

In some cases, we will recommend no further geotechnical assessment is necessary despite the presence of existing fill or a rock face on the property that exceed the heights that would normally trigger a full geotechnical report, according to the Preliminary Assessment Flow Chart. Where this is the case, if it is an existing fill, it is either supported by a retaining wall that we consider stable, or is battered at a stable angle and situated in a suitable position on the slope. If it is a rock face that exceeds the flow chart limit height, the face has been deemed to be competent rock that is considered stable. These judgements are backed by the inspection of over 5000 properties on Geotechnical related matters.

The proposed excavation heights referred to in section 2.0 of this assessment are estimated by review of the plans we have been given for the job. Although we make every reasonable effort to provide accurate information excavation heights should be checked by the owner or person lodging the DA. If the excavation heights referred to in in section 2.0 of this assessment are incorrect we are to be informed immediately and before this assessment is lodged with the DA.