

J2949. 17th September, 2020. Page 1.

PRELIMINARY GEOTECHNICAL ASSESSMENT:

21 Kirra Road, Allambie Heights

1.0	LANDSLIP RISK CLASS (Highlight indicates Landslip Risk Class of property)
	A - Geotechnical Report not normally required
	<i>B</i> - 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** Re-landscape the downhill side of the property by filling to a maximum height of ~0.8m.
- **2.2** No excavations are shown on the plans.
- 2.3 Details of the proposed development are shown on 2 drawings prepared by BH Designs, drawings numbered 2010/DA-01 and DA-02, Issue A, dated September 2020.

3.0 Site Location

3.1 The site was inspected on the 10th September, 2020.

3.2 This residential property is on the low side of the road and has a NE aspect. The block runs longways to the N so the slope is a cross-fall. It is located on the gently graded upper middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops on the downhill side of the property. Where sandstone is not exposed, it is expected to underlie the surface at relatively shallow depths. The natural



J2949. 17th September, 2020. Page 2.

surface of the block has been altered with an excavation for the driveway. The proposed development will require filling to a maximum height of ~0.8m to relandscape the downhill 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 falls across the property at an average angle of ~7°. At the road frontage, a concrete driveway runs to two garages on the lower ground floor of the house. The cut for the driveway is supported by a stable brick retaining wall reaching ~1.2m high. Between the road frontage and the house is a gently sloping lawn. The part two-storey brick house is supported on brick walls and brick piers. The external supporting walls of the house display no significant signs of movement and the supporting brick piers stand vertical. Some of the supporting walls and piers were observed to be supported directly onto outcropping competent Medium Strength Sandstone within the foundation space of the house. A gently sloping lawn extends off the downhill side of the house to the lower common boundary. The area surrounding the house is mostly paved or lawn covered. No signs of movement associated with slope instability were observed on the grounds. No cliffs or large rock faces 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.



J2949. 17th September, 2020. Page 3.

White Geotechnical Group Pty Ltd.

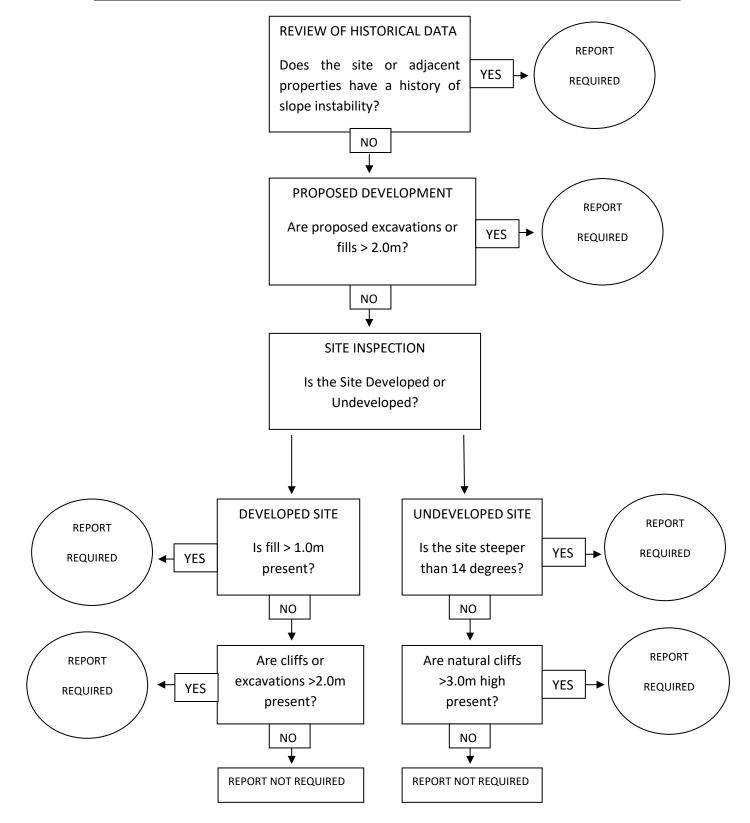
Bulut

Ben White M.Sc. Geol., AusIMM., CP GEOL. No. 222757 Engineering Geologist.



J2949. 17th September, 2020. Page 4.

Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)





J2949. 17th September, 2020. Page 5.

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.