

PRELIMINARY GEOTECHNICAL ASSESSMENT:

9 Keith Payne VC Place, Narraweena

1.0	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 - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required</i>
<input type="checkbox"/>	<i>E - Geotechnical Report required</i>

2.0 Proposed Development

- 2.1** Construct an extension off the downhill side of the house.
- 2.2** Construct a new awning over the entryway on the uphill side of the house.
- 2.3** Various other internal and external alterations and additions.
- 2.4** Details of the proposed development are shown on 25 drawing prepared by Cadence and Co, drawings numbered DA00 to DA24, dated 5.8.22.

3.0 Site Location

- 3.1** The site was inspected on the 29th August, 2022.
- 3.2** This residential property is on the downhill side of the road and has a N aspect. It is located on the moderately graded middle reaches of a hillslope. Medium Strength Sandstone bedrock outcrops and steps down the downhill side of the property. 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 a cut for the pool, backyard, and lower level of the house. The proposed development will not significantly alter the natural surface of the block further.

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 surface falls across the property at an average angle of $\sim 8^\circ$. At the road frontage, a concrete driveway runs down the slope to a garage on the ground floor of the house. In between the road frontage and the house is a moderately sloping garden area. The part three-storey rendered brick house is supported on rendered brick walls. Some of the walls of the house displayed fine cracking through the mortar in some locations but otherwise appeared to be in good condition. Part of the house was currently undergoing renovation works at the time of inspection. A level lawn area extends off the downhill side of the house to a pool and beyond to the lower boundary. The cut for the level lawn area has been taken partially through Medium Strength Sandstone. The fill for the level lawn area is supported by a stable $\sim 0.5\text{m}$ high rendered brick retaining wall. This wall was observed to be supported directly on outcropping Medium Strength Sandstone. No significant signs of movement were observed in the pool shell and the pool appears to be in good condition. The area surrounding the house is mostly paved with some lawn covering. No significant signs of movement associated with slope instability were observed on the grounds. 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.

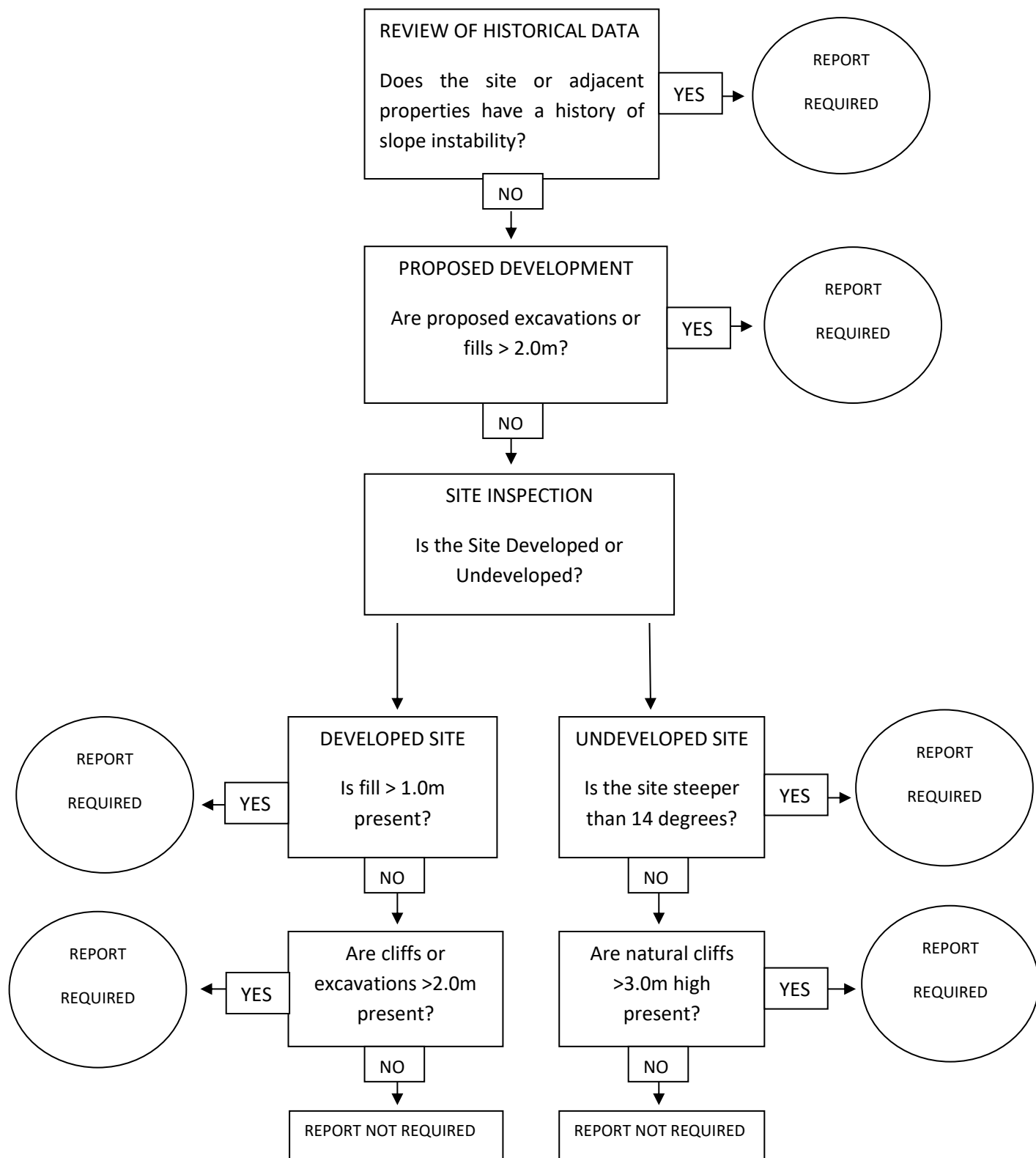
Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

White Geotechnical Group Pty Ltd.



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

Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)



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.
