

PRELIMINARY GEOTECHNICAL ASSESSMENT:

20 Duke Street, Forestville

1.0	LANDSLIP RISK CLASS (Highlight indicates Landslip Risk Class of property)
<input checked="" type="checkbox"/>	A - Geotechnical Report not normally required
<input checked="" type="checkbox"/>	B - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
<input type="checkbox"/>	C - Geotechnical Report is required
<input type="checkbox"/>	D - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
<input type="checkbox"/>	E - Geotechnical Report required

2.0 Proposed Development

- 2.1** Construct a new granny flat in the SE corner of the property.
- 2.2** Minor levelling may be required to construct the proposed granny flat.
- 2.3** Details of the proposed development are shown on 5 drawings prepared by RK Designs, Project number 21-85, sheets numbered 0 to 4, Issue A, dated 6/8/21.

3.0 Site Location

- 3.1** The site was inspected on the 14th September, 2021.
- 3.2** This residential property is level with the road and has a S aspect. The block runs longways to the E so there is a slight cross-fall. It is located on the gently graded upper middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops nearby to 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 little with the development to date. Minor levelling may be required to construct the proposed granny flat.

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 $<5^{\circ}$. At the road frontage, a concrete driveway runs to a stable brick carport in the SW corner of the property, and to a garage under the downhill side of the house. Between the road frontage and the house is a gently sloping garden area. The part two-storey house is supported on brick and sandstone block walls and brick piers. The external supporting walls display no significant signs of movement and the supporting brick piers stand vertical. A gently sloping lawn surrounded by garden beds extends from the E side of the house to the E common boundary. The area surrounding the house is mostly lawn or garden covered with some paved areas. No 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.

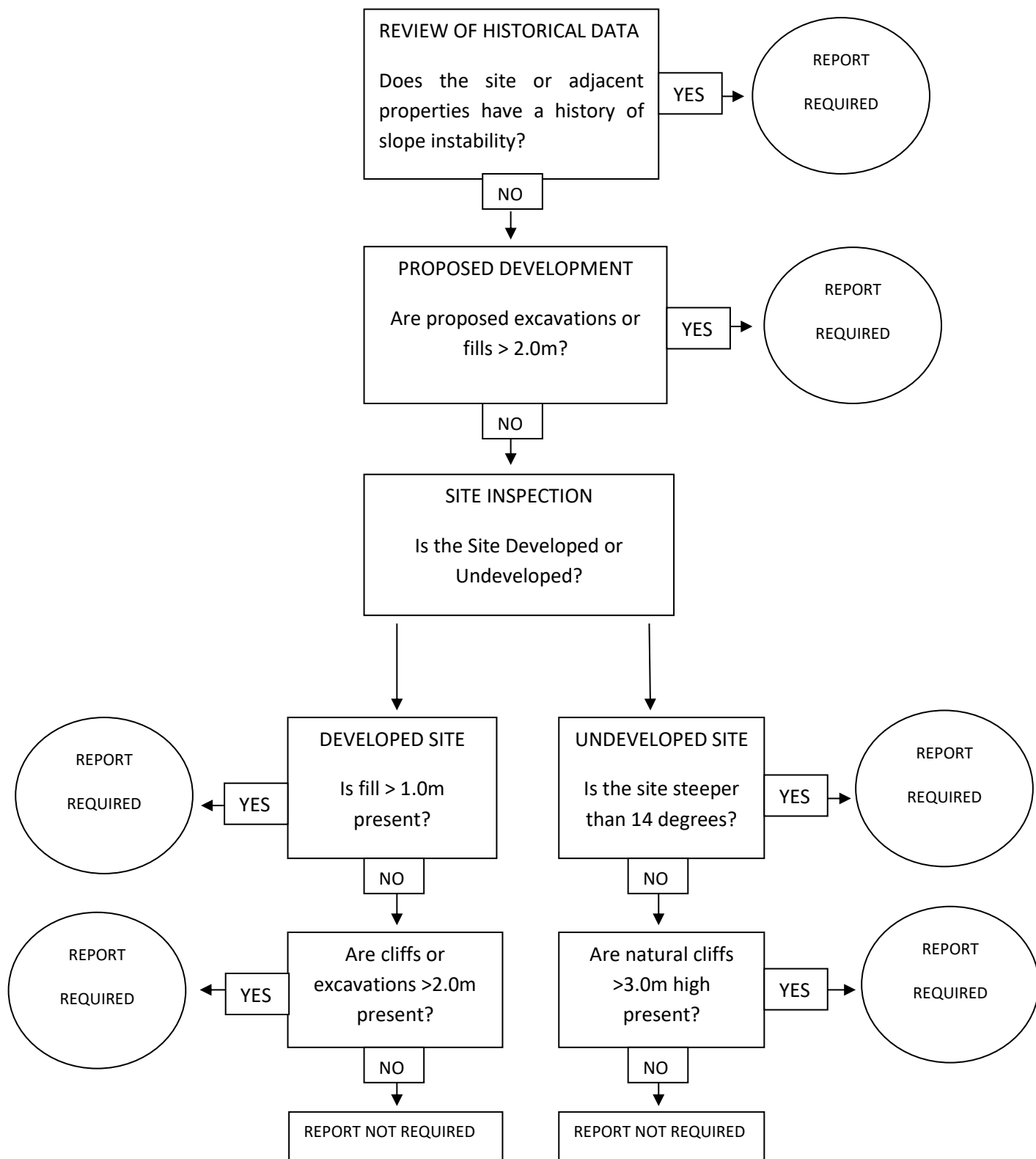
Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

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.
