

## **PRELIMINARY GEOTECHNICAL ASSESSMENT:**

### **1 Yanina Place, Frenchs Forest**

<b>1.0</b>	<b>LANDSLIP RISK CLASS</b> (Highlight indicates Landslip Risk Class of property)
<input 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 upper floor addition.
- 2.2** No excavations or fills are required.
- 2.3** Details of the proposed development are shown on 1 drawing prepared by Add-Style, drawing numbered 2509 DA 1, Issue B, dated 10/5/23.

## **3.0 Site Location**

- 3.1** The site was inspected on the 19<sup>th</sup> May, 2023.
- 3.2** This corner residential property is on the low side of Yanina Place and is on the high side of Pringle Avenue. The property has a SE aspect. The block is located on the gently graded upper reaches of a hillslope. No rock outcrops on the property. The Sydney 1:100 000 Geological Sheet indicates the site is underlain by a shale band within the Hawkesbury Sandstone that is described as a medium to coarse grained quartz sandstone with very minor shale and laminite lenses. The bedrock is expected to underlie the surface at relatively shallow depths. The natural surface of the block

has been altered with an excavation and fill for landscaping across the property. The proposed development will not alter the surface further for the proposed works.

**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 slope falls across the property at an average angle of  $\sim 7^\circ$ . At the road frontage to Yanina Place, a concrete driveway runs to a garage attached to the W side of the house. The cut for the driveway is supported by sandstone flagging reaching a maximum height of  $\sim 0.6\text{m}$ . Between the road frontage and the house is a gently sloping lawn surrounded by garden beds. The cut for the lawn is supported by a stable batter lined with mortared rocks reaching  $\sim 0.6\text{m}$  high. The single-storey brick house is supported on brick walls. The external supporting brick walls of the house display minor horizontal and stepped cracking through the mortar between the bricks in the SE corner of the house. This type of cracking is typical in houses of this age and construction. No other significant signs of movement were observed in the supporting brick walls. A paved fill extends off the downhill side of the house to the lower common boundary. The fill is supported by a stable brick retaining wall reaching  $\sim 1.8\text{m}$  high that approximates the lower common boundary. The area surrounding the house and driveway 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 on the property or in the near vicinity. 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.



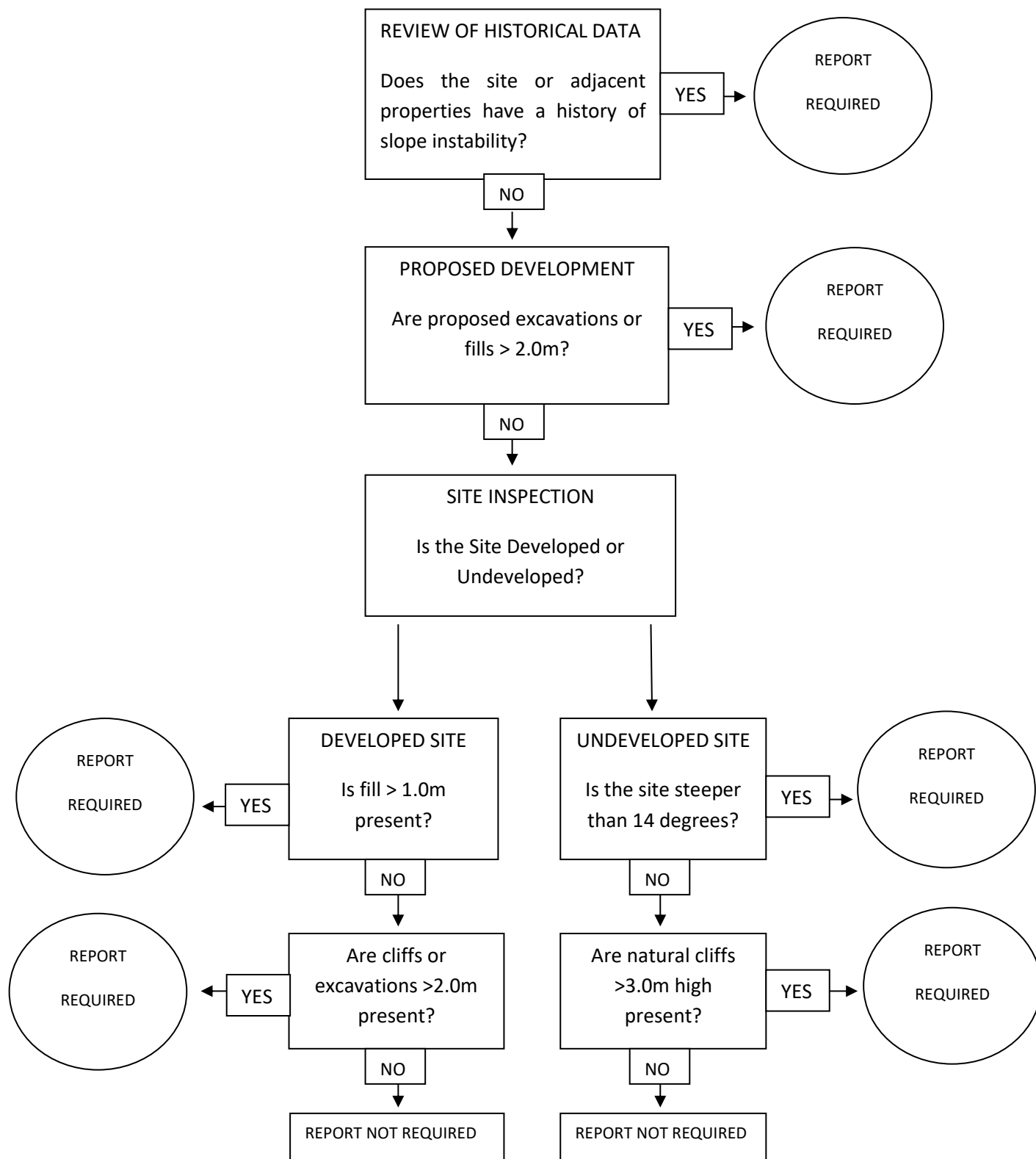
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## Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)



## 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.

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