

## **PRELIMINARY GEOTECHNICAL ASSESSMENT:**

### **25 Kens Road, Frenches Forest**

<b>1.0</b>	<b>LANDSLIP RISK CLASS</b> ( <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** Extend the existing deck on the SW side of the house.
- 2.2** No fills are shown on the plans.
- 2.3** Details of the proposed development are shown on 15 drawings prepared by Drafting Help, Job number 227210, Issue A, drawings numbered 3 to 13, 16 to 18, and 26, dated 7/11/18.

## **3.0 Site Location**

- 3.1** The site was inspected on the 11<sup>th</sup> December, 2018.
- 3.2** This residential property is on the corner of Kens Road and Orange Grove. It is on the downhill side of Orange Grove with Kens Road to the NE of the property. The block has a SE aspect. It is located on the gently graded upper reaches of a hillslope. No rock outcrops were observed on the property. The Sydney 1:100 000 Geological sheet indicates the site is underlain by Hawkesbury Sandstone. It is described as a medium to coarse grained quartz sandstone with very minor shale and laminite lenses. The natural surface of the block has

been altered with an excavation for driveway access and the carport. The proposed development will not alter the surface 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 slope falls across the property at average angles of  $\sim 5^\circ$ . At the road frontage, a concrete and brick paved driveway runs to a carport on the NE side of the property frontage. An excavation has been made into the slope for the carport. The cut is supported by the NW brick wall of the carport that forms the retaining wall. It is in good condition. 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. No significant signs of movement were observed in the supporting brick walls and the supporting brick piers stand vertical. A gently sloping lawn extends off the NW side of the house to the NW common boundary. 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.

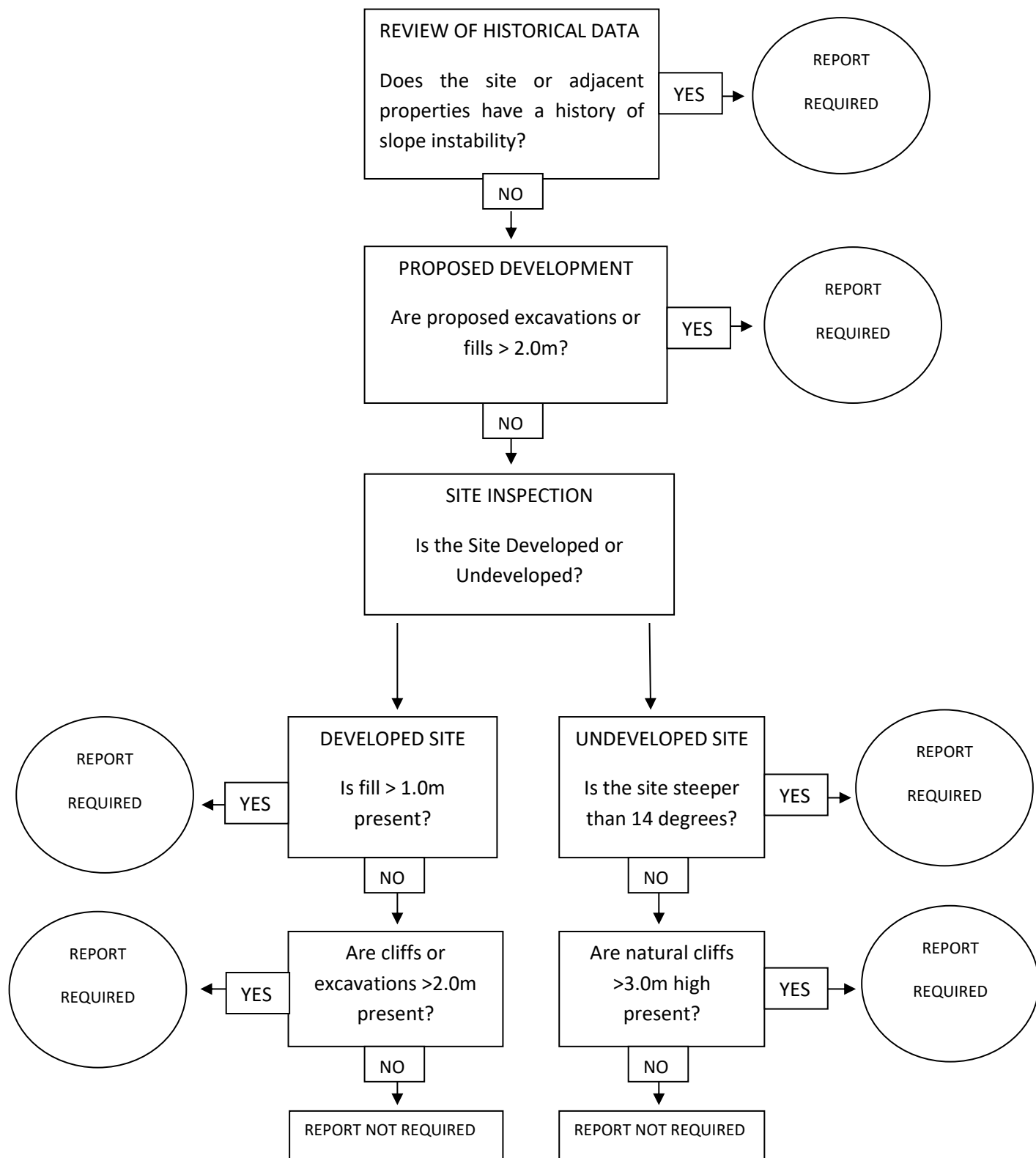
Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

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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