

## **PRELIMINARY GEOTECHNICAL ASSESSMENT:**

### **193 Headland Road, North Curl Curl**

<b>1.0</b>	<b>LANDSLIP RISK CLASS</b> <i>(Highlight indicates Landslip Risk Class of property)</i>
<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** Add a partial additional level/bedroom to the NW corner of the house.
- 2.2** No excavations or fills are shown on the plans.
- 2.3** Details of the proposed development are shown on 10 drawings prepared by Rapid Plans, numbered RP0118WAR DA 1003, 1011, 2001, 2002, 2004, 2006, 3001, 4001, 4002 & 5001 REV1 and dated 3.5.8.

## **3.0 Site Location**

- 3.1** The site was inspected on the 4<sup>th</sup> June, 2018.
- 3.2** This residential property is on the low side of the road and has a southerly aspect. The block is on the upper middle reaches of a hill slope with a moderate grade that borders on steep. Hawkesbury sandstone bedrock outcrops on the slope below the house. The natural surface of the block has been altered during its development to date with levelling carried out for the footprint of the house and terracing on the slope below. The proposed development will alter the natural surface no further.
- 3.3** The site shows no indications of historical movement that could have occurred since it was developed. We are aware of no history of instability on the property.

## 4.0 Site Description

The natural slope falls across the site at average angles of 20°. At the road frontage a concrete driveway cuts the slope diagonally and runs to a raised carport. Lawn extends across the front of the house beside the carport. The split level house is supported on masonry walls at the lower level with the upper levels timber framed and clad. It appears the original house has been recently extensively renovated and extended. Decking that steps down the slope extends off the downhill side of the house. Immediately below three levels of lawned terracing steps down the slope to the lower boundary. The fill for the upper terrace is supported by a rendered masonry wall that shows no sign of movement. The lower two terraces are supported by stack rock retaining walls that have recently been repointed. The base of the walls are some half their height, so the rock mass in these gravity walls will be sufficient to resist the earth pressures from the backfill.

No signs of ground movement was observed on the subject property. No geotechnical hazards were observed on the neighbouring properties that could impact on the subject property. No large rock faces or cliffs were observed on the property or in the immediate vicinity.

## 5.0 Recommendations

The proposed development and site conditions were considered and applied to the Council Flow Chart.

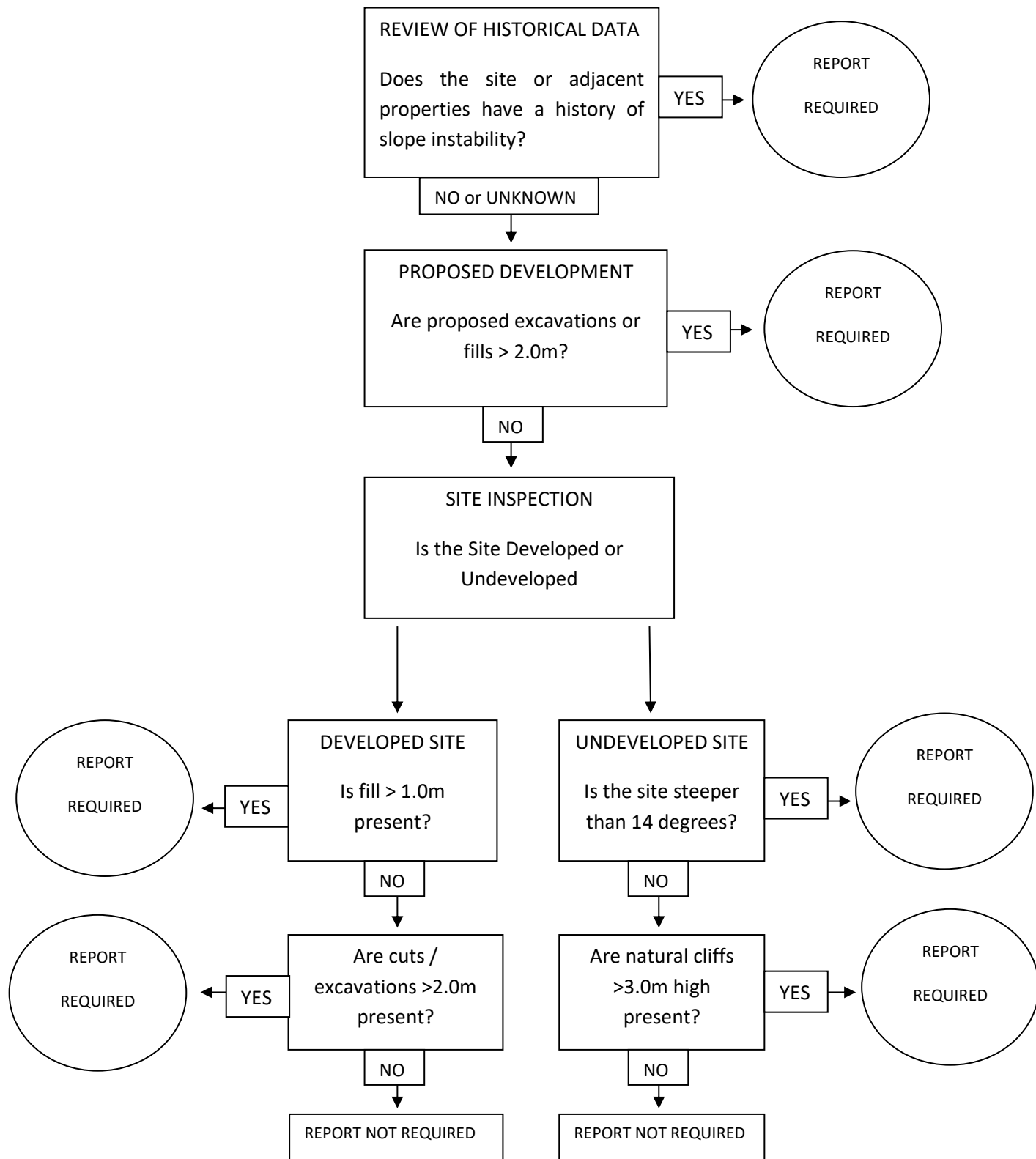
Provided good engineering and building practice are followed no further Geotechnical assessment is recommended.

White Geotechnical Group Pty Ltd.



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## Preliminary Assessment Flow Chart – Warringah Council



## 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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