

## **10 Gardere Avenue, Curl Curl**

### Geotechnical Comments for Section 4.55

We have reviewed the existing preliminary geotechnical report, the original plans, the 1 amended plan done by Urban Harmony, Project number 580, drawing numbered 580.A702, Issue CC.3, dated 3/11/21, and 3 structural drawings by Engineering Studio, Job number 20503, drawings numbered S00.01, S01.01, and S01.04, Revision E, dated 27/9/21.

The change is as follows:

- Add a new retaining wall along the lower common boundary. The structural specifications show the maximum possible height of the proposed retaining wall at ~1.8m.

The proposed change is considered minor from a geotechnical perspective and does not alter the recommendations in the report carried out by this firm numbered J2894 and dated the 3<sup>rd</sup> September, 2020.

White Geotechnical Group Pty Ltd.



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## **PRELIMINARY GEOTECHNICAL ASSESSMENT:**

### **10 Gardere Avenue, Curl Curl**

<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** Demolish the existing house and construct a new two-storey house.
- 2.2** Minor levelling will be required to construct the proposed house.
- 2.3** Details of the proposed development are shown on 24 drawings prepared by Urban Harmony, Project number 580, drawings numbered 580.A00 to A05, A100 to A104, A300, A301, A400 to A402, A500 to A502, A600 to A602, A700, and A701, Issue 01, dated 31/8/2020.

## **3.0 Site Location**

- 3.1** The site was inspected on the 20<sup>th</sup> August, 2020.
- 3.2** This residential property is level with the road and has an E aspect. The block runs longways to the S so the slope is a cross-fall. It is located on the gentle to moderately graded lower reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops at the road frontage 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 will be required to construct the proposed house.

**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 rises across the property at an average angle of ~10°. At the road frontage, a concrete driveway runs to a carport on the downhill side of the house. Between the road frontage and the house is a gently sloping lawn and garden area. The single-storey house and carport will be demolished as part of the proposed works. A gently sloping concrete-paved area extends off the S side of the house to the S common boundary. The area surrounding the house is mostly paved or lawn covered. 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.

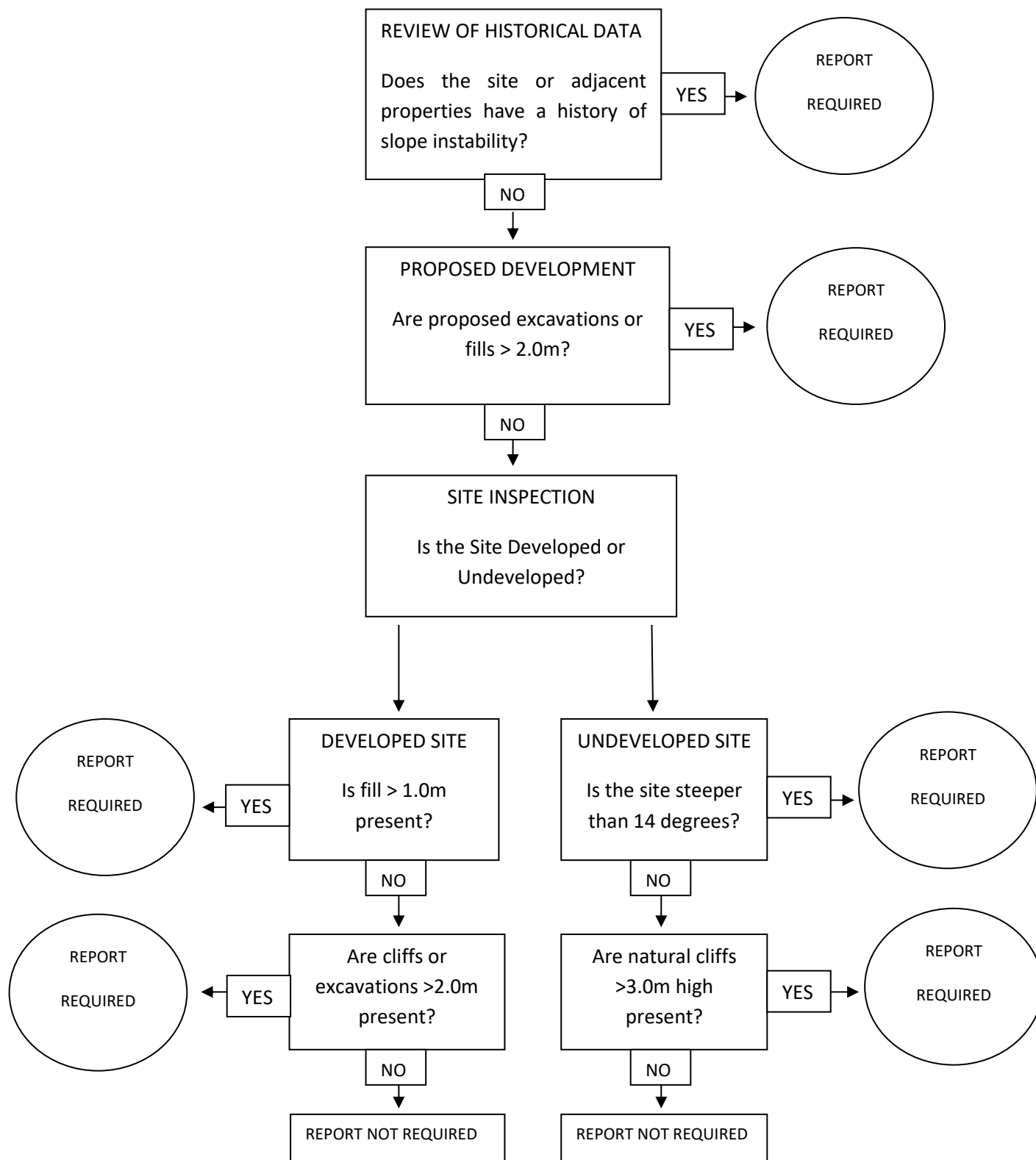
Provided good engineering and building practice are followed, no further Geotechnical assessment is recommended for the proposed development.

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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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