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## **PRELIMINARY GEOTECHNICAL ASSESSMENT:**

## 26 Woodward Street, Cromer

1.0	LANDSLIP RISK CLASS (Highlight indicates Landslip Risk Class of property)
	A - Geotechnical Report not normally required
	B - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
	C - Geotechnical Report is required
	D - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required
	E - Geotechnical Report required

### 2.0 Proposed Development

- **2.1** Various minor internal and external alterations.
- **2.2** No excavations or fills are shown on the plans.
- 2.3 Details of the proposed development are shown on 9 drawings prepared by Blue Sky Building Designs, Project number 2019050, drawings numbered A101 to 109, dated 29/1/20.

### 3.0 Site Location

**3.1** The site was inspected on the 19<sup>th</sup> February, 2020.

**3.2** This residential property is on the high side of the road and has an E aspect. It is located on the gentle to moderately graded middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops and steps up 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 with filling for the driveway



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and an excavation for a patio area on the uphill side of the house. 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

From the road frontage to the upper common boundary, the natural slope rises at an average angle of ~14°. At the road frontage, a concrete driveway runs to a garage on the lower ground floor of the house. The fill for the driveway is supported by a stable ~3.0m high brick retaining wall. The wall was observed to be supported directly onto outcropping competent Medium Strength Sandstone. The part two-storey house is supported on brick walls and brick piers. The supporting brick walls of the house display no significant signs of movement and the supporting brick piers stand vertical. Some of the supporting walls and piers were observed to be supported directly off an outcrop of Medium Strength Sandstone bedrock. The outcrop continues to and beyond the N common boundary and was observed to be undercut ~1.0m (Photo 1). The undercut joint block has a relatively thick cantilever arm in relation to its overhang length and does not show any jointing or cracking through the supporting cantilever arm as viewed from above or below. As such, we consider it to be currently stable. A tilepaved patio area extends off the uphill side of the house to the upper common boundary. The cut for the patio is supported by a ~1.4m high stable brick retaining wall that has a sandstone block facade. 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.



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### 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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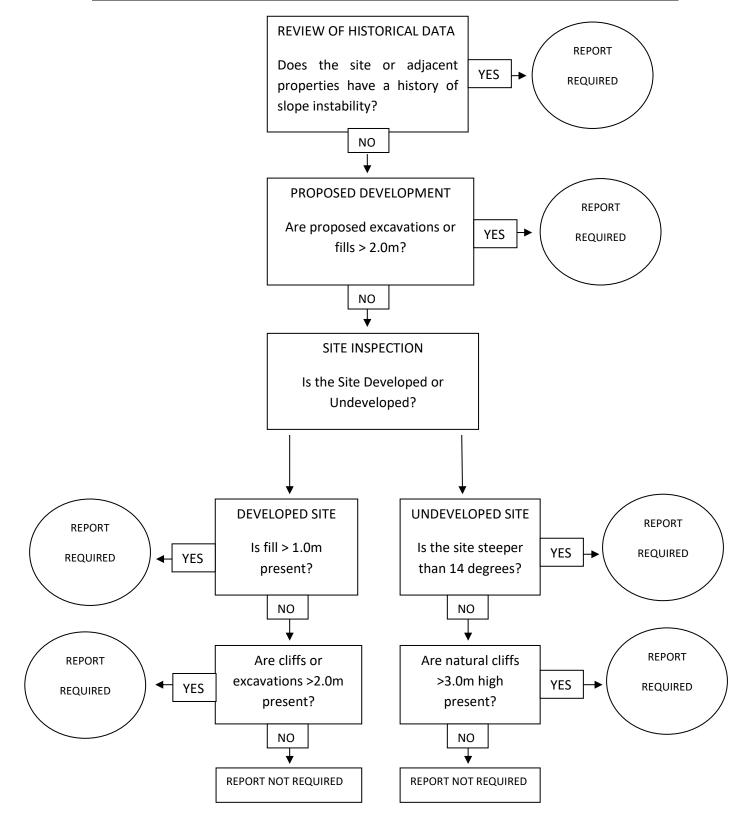


Photo 1



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





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#### 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.