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PRELIMINARY GEOTECHNICAL ASSESSMENT:

55 Bangaroo Street, North Balgowlah

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 Install a new pool on the downhill side of the property by excavating to a maximum depth of ~0.7m into the slope.
- 2.2 Re-landscape the downhill side of the property by filling to a maximum height of ~ 0.7 m.
- 2.3 Details of the proposed development are shown on 5 drawings prepared by Premier Pools, drawing number 1194, drawings numbered L-01 and 03 to 05 are Issue C, and drawing numbered L-02 is Issue D, all drawings dated 26/11/19.

3.0 Site Location

- **3.1** The site was inspected on the 9th December, 2019.
- 3.2 This residential property is on the low side of the road and has an E aspect. It is located on the gently graded middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops on the downhill side of the property. Where



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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 an excavation for the

house. The proposed development will require an excavation to a maximum depth of

~0.7m for the pool, and filling to a maximum height of ~0.7m for landscaping.

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 falls across the property at angles of <5°. At the road frontage, a concrete

and brick-paved driveway runs to a garage on the ground floor of the house. Between the

road frontage and the house is a gently sloping garden area. An excavation has been made in

the slope to create a level platform for the house. The cut is supported by a ~1.0m high stable

rendered masonry retaining wall. The two-storey rendered masonry house is supported on

masonry walls. No significant signs of movement were observed in the supporting walls. A

gently sloping lawn extends off the downhill side of the house to the downhill common

boundary. Competent Medium Strength Sandstone outcrops through the lawn in places. 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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White Geotechnical Group Pty Ltd.

Ben White M.Sc. Geol., AusIMM., CP GEOL.

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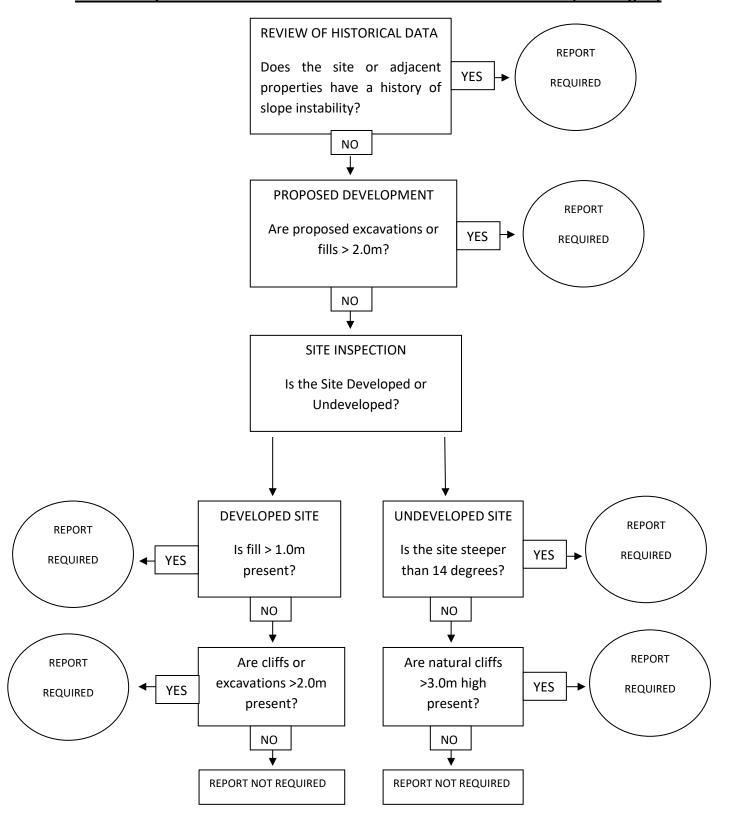
No. 222757

Engineering Geologist.



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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.