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PRELIMINARY GEOTECHNICAL ASSESSMENT:

57 Nandi Avenue, Frenchs Forest

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** Extend the downhill side of the house.
- **2.2** Apart from those for footings, no excavations are required. No fills are shown on the plans.
- 2.3 Details of the proposed development are shown on 8 drawings prepared by Blue Sky Building Designs, Project number 2019016, drawings numbered A101 to 103, 107 to 110, and 112, dated 29/8/19.

3.0 Site Location

- **3.1** The site was inspected on the 6th September, 2019.
- 3.2 This residential property is on the low side of the road and has a W aspect. It is located on the gently graded lower reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops on the opposite side of the road to the subject 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



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with filling used for landscaping across the property. 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

The natural slope falls across the site at an average angle of ~8°. At the road frontage, a

concrete driveway runs to a parking area on the S side of the house. The fill for the parking

area is supported by a stable stack rock retaining wall ~0.9m high. Between the road frontage

and the house is a gently sloping garden area that has been terraced with a series of low

stable stack rock retaining walls. The part two-storey brick house is supported on brick walls.

The supporting walls display no significant signs of movement. A gently sloping lawn

surrounded by garden beds extends off the downhill side of the house. The lawn has been

terraced with two low stable stack rock retaining walls. The area surrounding the house and

driveway is mostly lawn-covered with some paved areas. 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.



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White Geotechnical Group Pty Ltd.

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

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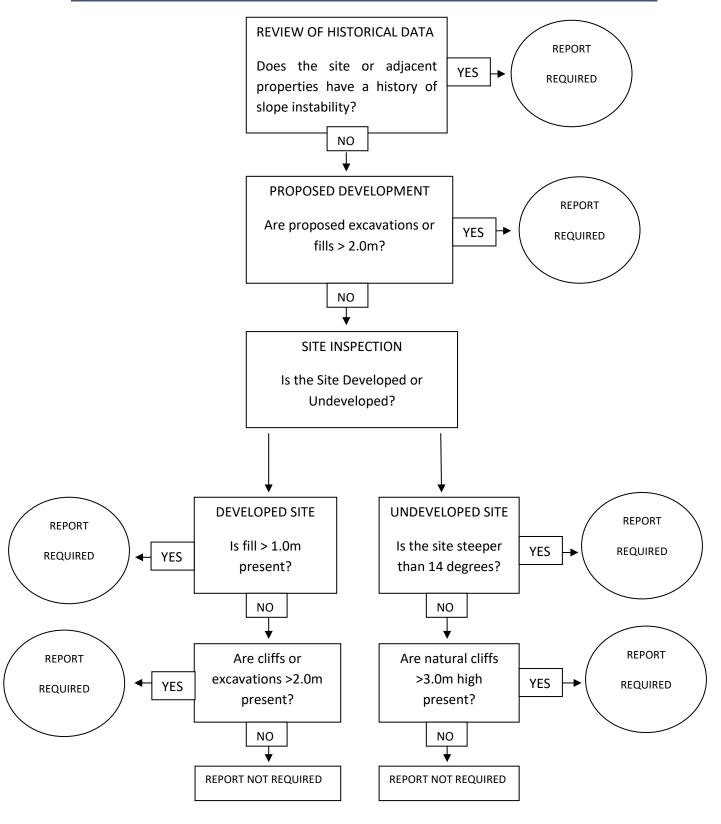
Engineering Geologist.



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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.