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PRELIMINARY GEOTECHNICAL ASSESSMENT:

9 Ozone Street, Freshwater

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** Subdivide the property into two lots with right of carriageway.
- **2.2** No significant excavations or fills are shown on the plans.
- **2.3** Details of the proposed development are shown on 1 drawing prepared by Copland C. Lethbridge, dated 6/4/22.

3.0 Site Location

3.1 The site was inspected on the 11th May, 2022.

3.2 This residential property is on the high side of the road and has a W aspect. It is located on the moderately graded middle reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops at various locations across 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 a cut for the driveway and garage (currently under construction) and fills for lawn, garden and paved areas across the property. The proposed development will not alter the surface further for the proposed works.



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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°. A driveway and garage are currently under construction on the downhill side of the house. The works have excavated to a maximum depth of ~4.7m into the slope. The majority of the cut faces are supported by concrete and sprayed concrete retaining walls. Some portions of the cut faces are unsupported and have exposed Medium Strength Sandstone bedrock. The cut faces that were visible at the time of inspection appear to be currently stable. Part of the downhill side of the house is supported by acrow props where the excavation comes flush with the house. The part two storey brick house is supported by brick walls, brick piers and acrow props. The supporting walls and piers stand vertical and show no significant signs of movement.

Fill provides a level platform for a concrete pavement and lawn area on the N side of the house. The fill is supported by a stable rough stack rock retaining wall up to ~1.5m high. A deck supported on outcropping sandstone extends off the uphill side of the house. A spa supported by a concrete slab is located S of the deck. Fill provides a level lawn area next to the spa. The fill is supported by a stable timber retaining wall up to ~1.9m high. Competent Medium Strength Sandstone bedrock outcrops across the slope on the uphill side of the property. Detached sandstone joint blocks are embedded in stable positions in the slope. The area surrounding the house is mostly lawn/garden covered with some paved areas. No signs of movement associated with slope instability were observed on the grounds that could have occurred since the property was developed. No cliffs or large rock faces 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.

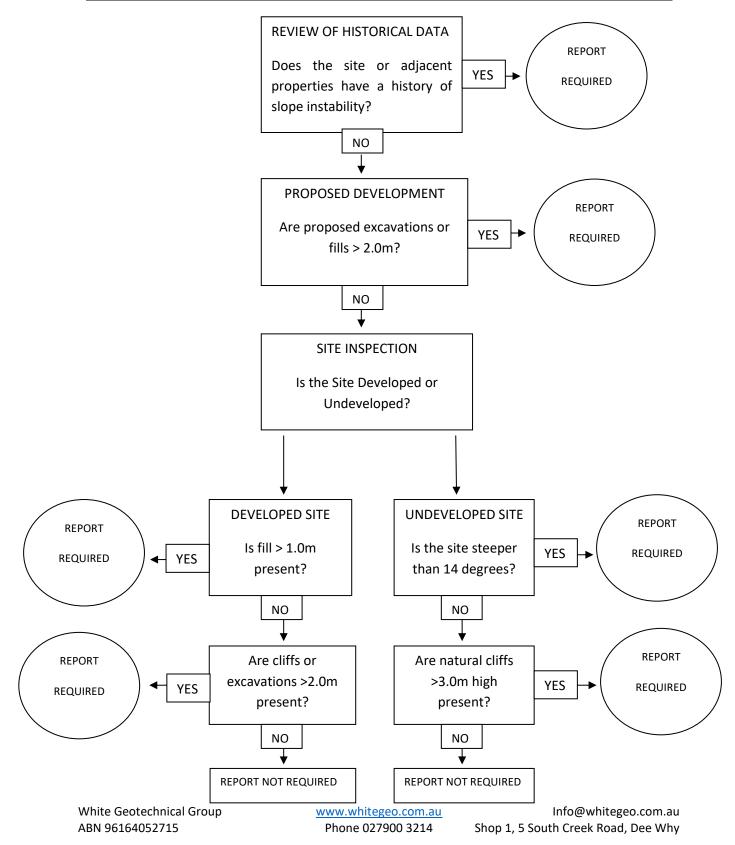
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Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)





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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.