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PRELIMINARY GEOTECHNICAL ASSESSMENT:

93 Parkes Road, Collaroy Plateau

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 existing property into two new properties.
- **2.2** Install OSD tanks within the existing excavation for the garage.
- 2.3 Construct a new Right of Carriageway (ROW) along the W side of the property and over the OSD tanks.
- **2.4** Minor levelling may be required to construct the ROW. No other excavations or fills are shown on the plans.
- 2.5 Details of the proposed subdivision are shown on 2 drawings prepared by Adam Clerke Surveyors Pty Ltd, reference number 16316A_2, dated 11/12/18.

 Details of the proposed ROW are shown on 2 drawings by Michal Korecky, drawing number 17040, sheets C1 and SW-1, dated 21/12/18.



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3.0 Site Location

- **3.1** The site was inspected on the 6th February, 2017.
- 3.2 This residential property is on the higher side of the road and has a SW aspect. It is located on the gently graded middle reaches of a hillslope. Medium strength Hawkesbury sandstone bedrock outcrops along the road frontage. 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 by excavations for the garage and pool. Minor levelling may be required for the proposed ROW.
- **3.3** The site shows no indications of historical movement 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 lower boundary to the upper boundary, the natural slope rises at an average angle of ~5°. At the road frontage, a concrete and tile paved driveway runs to a brick garage that has been cut into the slope. The cut for the driveway is supported by a stable mortared sandstone block retaining wall ~1.0m high. No visible signs of movement were observed in the supporting brick walls of the garage. The cut for the garage and stairs behind the garage has been made through competent medium strength sandstone bedrock. The ~2.0m high cut face displays no geological defects. It had been wet in the days prior and during the inspection and a lot of groundwater seepage was moving over the rock and stairs (Photo 1). An outcrop of medium strength sandstone rises to a gently sloping lawn on the downhill side of the house. The single storey weatherboard clad house is supported on stable brick walls and concrete piers. A tile paved area extends off the uphill side of the house to a pool that has been cut into the slope. The water level indicates no ground movement has occurred in the shell of the pool. Filling has been placed around the pool and is supported by a stable sandstone block retaining wall ~1.0m high. A small timber framed cabana sits beside the pool. A gently sloping



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lawn rises above the pool to the upper 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. 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.

White Geotechnical Group Pty Ltd.

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

Felite

No. 222757

Engineering Geologist.



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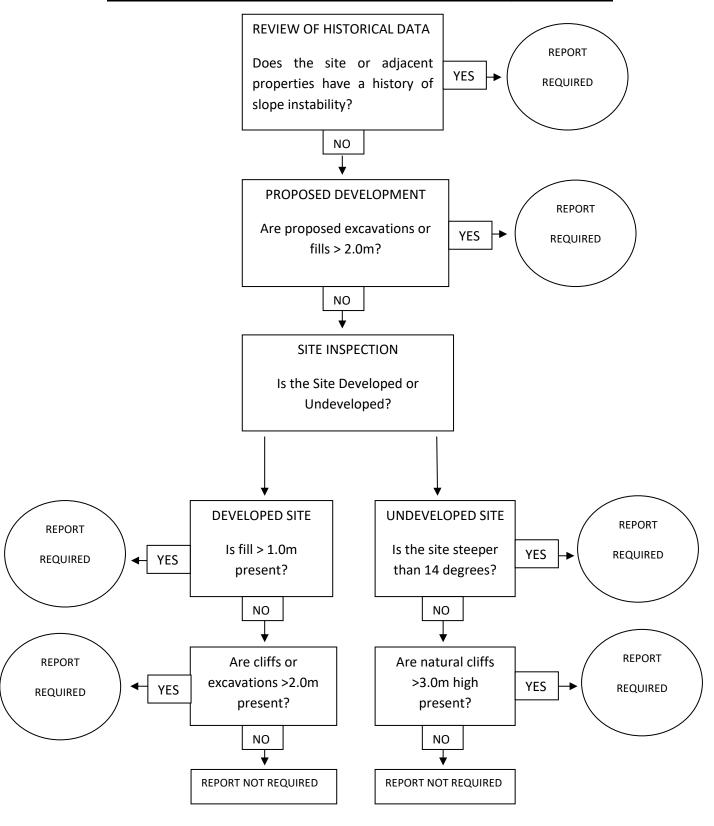


Photo 1



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Preliminary Assessment Flow Chart – Warringah Council





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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.