

J1861A. 14th October, 2021. Page 1.

PRELIMINARY GEOTECHNICAL ASSESSMENT:

22A Connemara Avenue, Killarney Heights

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 pool in the NE corner of the property by excavating ~2.0m into the slope.
- 2.2 Re-landscape the W side of the property by filling to a maximum height of ~0.7m.
- **2.3** Alterations and additions to the ground floor of the house.
- **2.4** Construct a new first floor addition.
- **2.5** Various other minor internal and external alterations.
- 2.6 Details of the proposed development are shown on 21 drawings prepared by Elevate Design and Drafting, Project number 0917, drawings numbered A00 to A20, dated 10/10/21.



J1861A. 14th October, 2021.

Page 2.

3.0 Site Location

3.1 The site was inspected on the 12th October, 2021, and previously on the 17th

July, 2018.

3.2 This residential property is level with the road and has a S aspect. The block

runs longways to the E so the slope is a cross-fall. It is located on the gently graded

upper middle 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 little with the development to date. The

proposed development will require an excavation to a maximum depth of ~1.8m for

the proposed pool and filling to a maximum height of ~0.7m to re-landscape the W

side of the property.

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 site at an average angle of ~5°. At the road frontage, a

concrete driveway runs to a stable brick and concrete block garage on the W side of the house.

Between the road frontage and the house is a gently sloping lawn. The single-storey brick

house is supported on brick walls. No significant signs of movement were observed in the

supporting brick walls. A low cut has been made in the slope to provide a level platform for

the house. The cut is supported by a stable ~0.8m high sandstone flagging wall that has been

constructed with a tilt back into the slope. Another gently sloping lawn extends off the E side

of the house to the E common 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.



J1861A. 14th October, 2021. Page 3.

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.

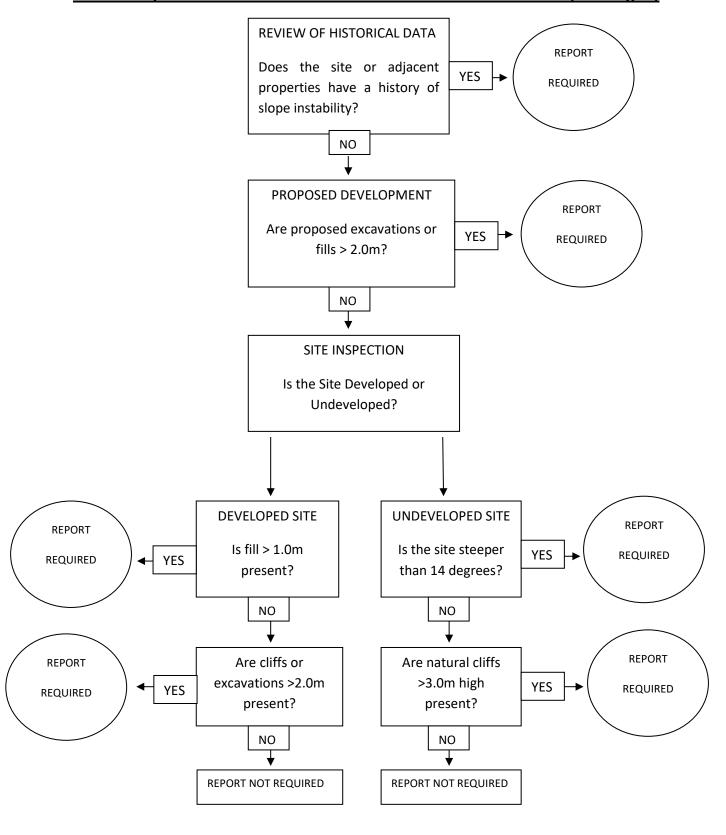
No. 222757

Engineering Geologist.



J1861A. 14th October, 2021. Page 4.

Preliminary Assessment Flow Chart – Northern Beaches Council (Warringah)





J1861A. 14th October, 2021. Page 5.

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.