

**PRELIMINARY GEOTECHNICAL ASSESSMENT:**  
**79 Ashworth Avenue, Belrose**

<b>1.0</b>	<b>LANDSLIP RISK CLASS</b> ( <i>Highlight indicates Landslip Risk Class of property</i> )
<input checked="" type="checkbox"/>	<i>A - Geotechnical Report not normally required</i>
<input checked="" type="checkbox"/>	<i>B - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required</i>
<input type="checkbox"/>	<i>C - Geotechnical Report is required</i>
<input type="checkbox"/>	<i>D - Geotechnical Engineer (Under Council Guidelines) to decide if Geotechnical Report is required</i>
<input type="checkbox"/>	<i>E - Geotechnical Report required</i>

## 2.0 Proposed Development

- 2.1** Demolish the existing house. Construct a new two storey duplex with garages and driveways requiring minor levelling and filling to a maximum height of ~1.4m.
- 2.2** No significant excavations are shown on the plans.
- 2.3** Details of the proposed development are shown on 15 drawings prepared by RJK Architects, drawings numbered DA00 to DA14, Issue A, dated 7/3/25.

## 3.0 Site Location

- 3.1** The site was inspected on the 28<sup>th</sup> February, 2025.
- 3.2** This residential property is on the low side of the road and has a SW aspect. It is located on the gentle to moderately graded upper reaches of a hillslope. Medium Strength Hawkesbury Sandstone bedrock outcrops downslope of the property near the property boundary. Sandstone bedrock is expected to underlie the surface of the property at relatively shallow depths. The natural surface of the block has been altered

with minor filling for lawn and paved areas. The proposed duplex will require minor levelling and filling to a maximum height of ~1.4m

**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 gentle angles before quickly increasing to moderate angles near the downhill property boundary. At the road frontage, a concrete driveway runs to a garage on the ground floor of the house. The single storey house is supported on brick walls and piers. The external supporting walls show no significant signs of movement and the supporting piers stand vertical. A timber deck and paved area extends off the SW side of the house. Stable low brick and rendered masonry retaining walls support the fill for the paved area. Gently sloping lawn areas extend off the uphill side of the house and the downhill side of the paved area. Medium Strength Hawkesbury Sandstone bedrock outcrops downslope of the property near the property boundary. The area surrounding the house is mostly lawn or garden covered with some paved areas. No signs of slope instability were observed on the property that could have occurred since the property was developed. 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 street and subject property.

#### **5.0 Recommendations**

The proposed development and site conditions were considered and applied to the current council requirements. See the required inspection below that is to be carried out during construction and is a requirement for the final geotechnical certification. Apart from this inspection, it is not expected additional geotechnical input will be required provided good design and building practices are followed.

## 6.0 Inspection

The client and builder are to familiarise themselves with the following required inspection as well as council geotechnical policy. We cannot provide geotechnical certification for the owners or the regulating authorities if the following inspection has not been carried out during the construction process.

- All footings are to be inspected and approved by the geotechnical consultant while the excavation equipment and contractors are still onsite and before steel reinforcing is placed or concrete is poured.

White Geotechnical Group Pty Ltd.



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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.

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