Date: 15 August 2022
Ref: 35357SFlet

RSL LifeCare Limited
120 Pacific Highway
ST LEONARDS NSW 2065

Attention: John Obeid
Email: john.obeid@rsllifecare.org.au

PRELIMINARY GEOTECHNICAL ASSESSMENT
PROPOSED CAR PARKING
DARDANELLES VILLAGE, NARRABEEN, NSW

INTRODUCTION

As requested our Associate Geotechnical Engineer, Mr Owen Fraser, visited the above site on 8 August 2022 to undertake a site walkover to provide our preliminary assessment of the site conditions to determine whether a geotechnical report is required. This letter should be read in conjunction with the Warringah DCP, Clause E10 '*Landslip Risk*'.

We understand that it is proposed to construct two car parking areas within the area approximately shown on the attached Figure 1. Given the current site levels, we expect relatively minor excavations will be required to achieve design levels, typically less than 0.5m deep.

From our review of the Warringah Landslip Risk Map, the subject site appears to be located within Area D. Consequently, in accordance with Clause E10 of the Warringah DCP, a preliminary assessment of site conditions, prepared in accordance with the Checklist for Council's assessment, is required to determine whether a geotechnical report is necessary.

CHECKLIST FOR COUNCILS ASSESSMENT

The following provides our summary assessment in accordance with the Checklist for Councils assessment. Our annotated Checklist for Council's Assessment of Site Conditions is also attached.

1.0	***LANDSLIP RISK CLASS*** *(circle Landslip Risk Class in which site is located)*
	A A Geotechnical report not normally required.
	B B Preliminary assessment of site conditions required to determine whether a geotechnical report is required.
	C C Geotechnical report required.
✓	***D Preliminary assessment of site conditions required to determine whether a geotechnical report required.***
	E Geotechnical report required.

2.0 SITE LOCATION
Street no.& Name, Position in street (above or below), Site dimensions (block shape & size);
Dardanelles Village, near Lakeshore Drive, Narrabeen, NSW. Site dimensions comprising two areas of approximately 6m by 5.5m and 4m by 25m.

3.0 PROPOSED DEVELOPMENT:
General description, including maximum excavation depths, maximum fill depths, and proximity to existing structures;
Minor excavation less than 0.5m deep for construction of six car parking spaces. No nearby structures other than adjoining roadway. No fill placement expected other than for construction of pavement layers.

4.0 EXISTING SITE DESCRIPTION:
eg. Topography, slope angles (in degrees), exposures of rock and soil, existing site development, evidence of possible slope instability.
The site is located near the toe of a south-western facing hill that slopes down from the upper plateau towards Narrabeen Lagoon. The site itself slopes down towards the south-west between approximately 5° and 7°.
The site comprises grassed areas bounded by an access roadway to the south-west and a drainage channel to the north-east. The drainage channel appears to have been formed by excavation, rather than filling, and is typically less than 2m deep. The pavement of the existing access road appears in good conditions.
Based on our site walkover, the subsurface conditions appear to comprise a shallow cover of sandy fill overlying residual clays. Bedrock is expected to be at relatively shallow depths based on sandstone outcrops observed upslope. No groundwater seepage was observed at the time of our walkover. A block retaining wall up to 0.7m high was present at the existing bus stop adjoining the proposed northern car parking area. The walls show no signs of instability.
No evidence of existing slope instability was observed on the subject site or on neighbouring properties based upon our visual observations made from within the subject site.

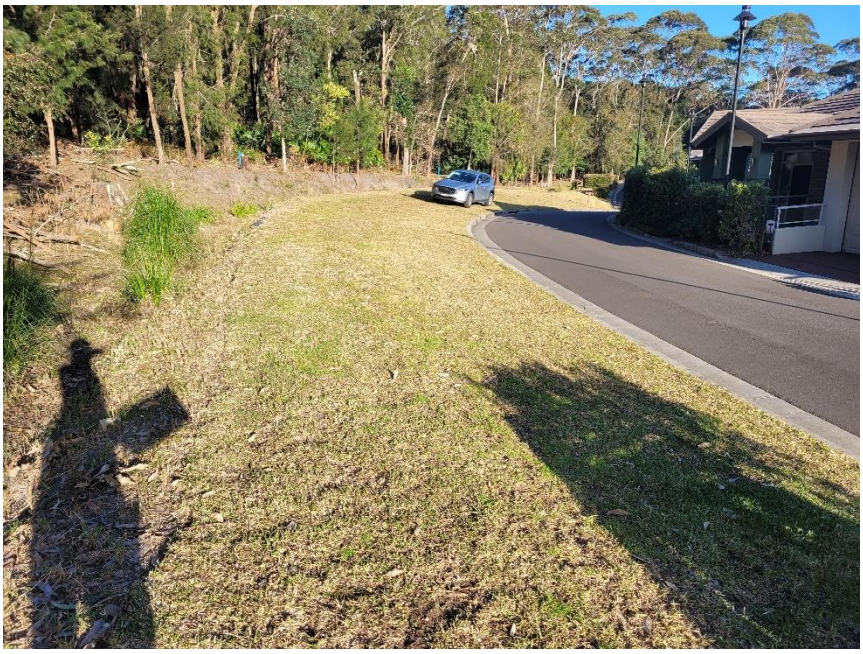


Plate 1 – Proposed northern car parking area

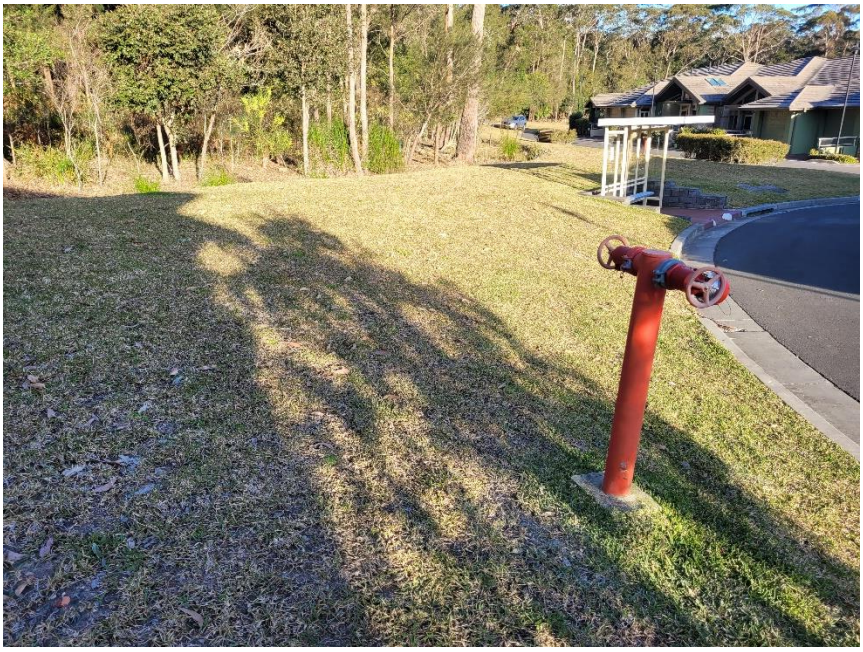


Plate 2 – Proposed southern car parking area

5.0 RECOMMENDATIONS	
Based on the above items, and the attached flowchart that indicates the principal factor(s) that must be considered in the assessment, it is recommended that: ***Geotechnical report is not required.*** *Other comments:*	
6.0 DATE OF ASSESSMENT; ***15 August 2022***	*7.0 ASSESSMENT BY;* ***Owen Fraser***

GENERAL RECOMMENDATIONS

Given the limited excavation depths, we consider that temporary batters formed at no steeper than 1 Vertical (V) to 1 Horizontal (H) is suitable. For permanent batters, we recommend forming flatter batters 1V:3H to allow for access and the batters should be appropriately vegetated to prevent erosion.

CONCLUSION

Based on our site walkover and geotechnical assessment, we do not consider a geotechnical report is required due to the gentle site slopes, the lack of fill greater than 1m and that excavations less than 0.5m are proposed. Furthermore, there was no evidence of existing slope instability.

Should you require any further information regarding the above, please do not hesitate to contact the undersigned.

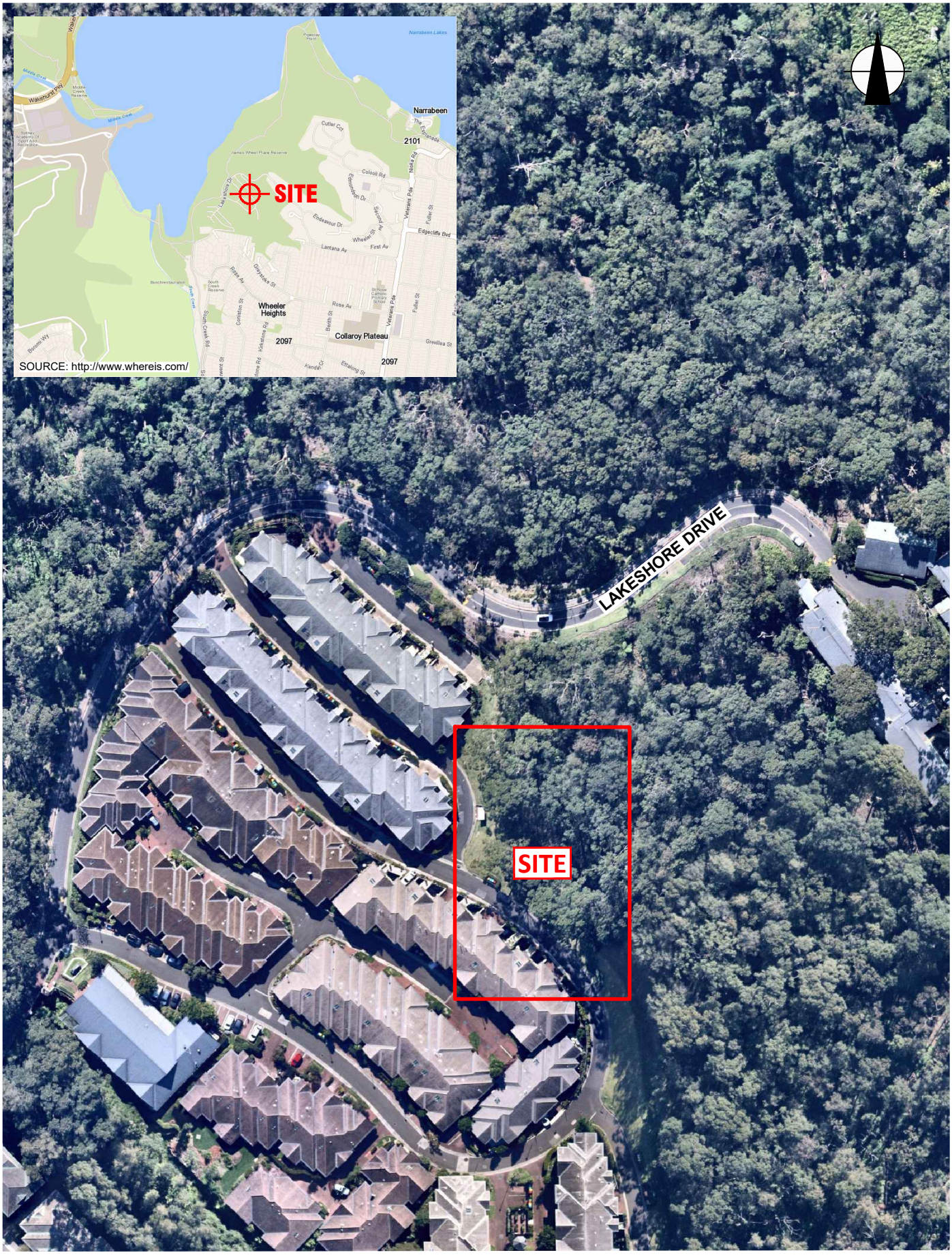
Yours faithfully
For and on behalf of
JK GEOTECHNICS

Reviewed By:

Owen Fraser
Associate | Geotechnical Engineer

Paul Stubbs
Principal | Geotechnical Engineer

Encl: Figure 1 – Site Location Plan
Annotated Checklist for Council's Assessment of Site Conditions



AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM

This plan should be read in conjunction with the JK Geotechnics report.

Title: **SITE LOCATION PLAN**

Location: DARDANELLES VILLAGE, NARRABEEN, NSW

Report No: 35357SF

Figure No: 1

JKGeotechnics

PLOT DATE: 15/08/2022 3:48:31 PM DWG FILE: S:\6 GEOTECHNICAL\6F GEOTECHNICAL JOBS\35000'S\35357SF NARRABEEN\CAD\35357SF.DWG

CHECKLIST FOR COUNCIL'S ASSESSMENT OF SITE CONDITIONS AND NEED FOR GEOTECHNICAL REPORT IN GEOTECHNICAL CLASS B AND D