

Our Ref: PSM1551-074L

01 March 2021

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Attention: Glen Fowlie

Dear Glen

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**RE: DEVELOPMENT APPLICATION - E10 LANDSLIP RISK
PRELIMINARY GEOTECHNICAL ASSESSMENT**

1. Introduction

This letter outlines the preliminary geotechnical assessment for the proposed development at 5 Fishbourne Rd, Allambie Heights, NSW as required by the Northern Beaches Council. This assessment is completed in accordance with the requirements and assessment checklist contained within Clause E10 of the Warringah Development Control Plan (WDCP) and the Warringah Local Environmental Plan (WLAP) 2011 to determine if the preparation of a geotechnical report is required.

2. Council Assessment Checklist

2.1 Site Location and Landslip Risk Class

The site is located at 5 Fishbourne Rd, Allambie Heights, NSW and is approximately 47 x 16 m, with a total area of approximately 750 m². The site is located within the landslip risk class B area, thus requiring that a preliminary geotechnical assessment of site conditions be submitted.

Appendix A presents the landslip risk class map, with the site location marked in red.

Appendix B presents a table of landslip risk classes and their characteristic geology.

Appendix C presents a flow chart of the checklist requirements for this preliminary assessment.

2.2 Proposed Development

The proposed development involves a 4 m wide balcony extension on the south side of the building, with isolated pad or bored footings as foundations for the support posts, refer Inset 1. No excavations will be required apart from minor footing excavations, all of which are a minimum of 4 m away from any existing structures. No filling is proposed.



Inset 1: Visualisation of proposed balcony extension

2.3 Existing Site Description

The existing site is currently developed and consists of slopes of approximately 12 degrees over 40% of the site and gentler slopes over the remaining 60% towards the south. The proposed extension on the southern side of the existing dwelling lies on the flat portion of the site, such that there is no slope interaction with the foundations. To the north and west, sandstone is exposed adjacent to the house and also visible under the house suggesting that the existing house is founded on or close to rock. We note that there is a boundary retaining wall along the north and west boundaries of the site, however the proposed extension will not be adjacent to this. There are no cuts or excavations greater than 2 m high present adjacent to the proposed balcony, and no evidence of slope instability present in the location of the proposed balcony.

2.4 Preliminary Assessment Summary

A summary of the completed landslip risk preliminary assessment can be found in Table 1. This assessment has followed the suggested checklist as presented in the WDCP 2011.

Table 1 - Landslip Risk Preliminary Assessment Checklist (Warringah Development Control Plan 2011)

1.0	LANDSLIP RISK CLASS
	A Geotechnical report not normally required.
	B Preliminary assessment of site conditions required to determine whether a geotechnical report is required.
	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	
<ul style="list-style-type: none"> - Site address is 5 Fishbourne Rd, Allambie Heights, NSW - Approximate dimensions are 47 x 16 m, with total area of 750 m² 	
3.0 PROPOSED DEVELOPMENT	
<ul style="list-style-type: none"> - Proposed development involves a 4m wide balcony extension on the south side of the building - Isolated pad / bored footings as foundations for the support posts - No excavations required, except minor footing excavations, all of which are a minimum of 4 m away from existing structures - No filling proposed 	

4.0 EXISTING SITE DESCRIPTION	
<ul style="list-style-type: none"> - Existing site is currently developed with residential dwelling - Approximately 12 degree slopes covers 40% of site, with gentler slopes over remaining 60% to the south - Proposed extension lies on flat portion to the south, thus no slope interaction with proposed foundations - Exposed sandstone evident to north and west suggesting existing house founded on or close to rock - Boundary retaining wall along north and west boundary of site, however proposed extension will not be adjacent to this - No cuts or excavations greater than 2 m high adjacent to proposed balcony extension - No evidence of slope instability present in location of proposed balcony extension 	
5.0 RECOMMENDATIONS	
<p>Based on the above items, and the attached flowchart that indicates the principal factor(s) considered in the assessment, it is recommended that:</p> <ul style="list-style-type: none"> - Further geotechnical assessment is not required (i.e. a geotechnical report is not required) 	
6.0 DATE OF ASSESSMENT; 26 February 2021	7.0 ASSESSMENT BY; Lahiru Perera

3. Preliminary Geotechnical Assessment

Based on the above discussion, and the attached flowchart (see appendix C) that indicates the principal factor(s) considered in the assessment, it is concluded that no further geotechnical assessment is required for the proposed development i.e. the outcome of this preliminary assessment is that no further report is required to address slope stability / landslide risk beneath the proposed balcony extension.

For and on behalf of
PELLS SULLIVAN MEYNINK

LAHIRU PERERA
GEOTECHNICAL ENGINEER

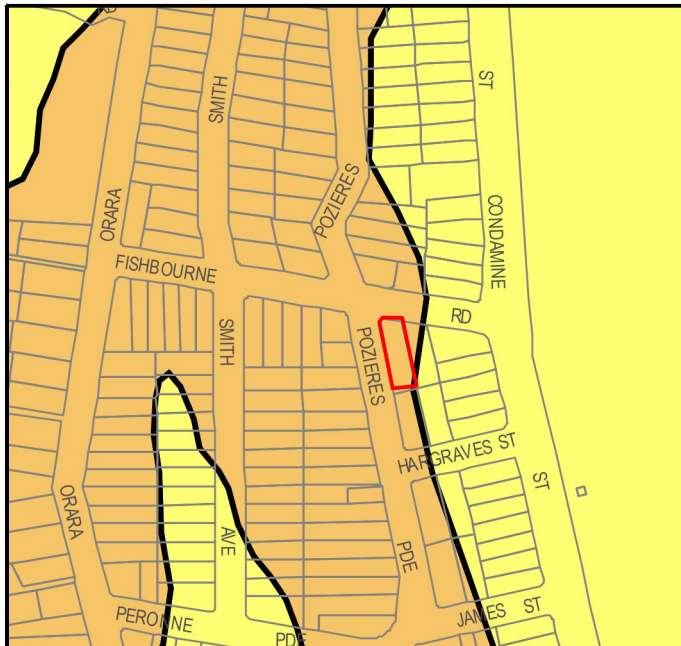
JEREMY TOH
PRINCIPAL

Encl:

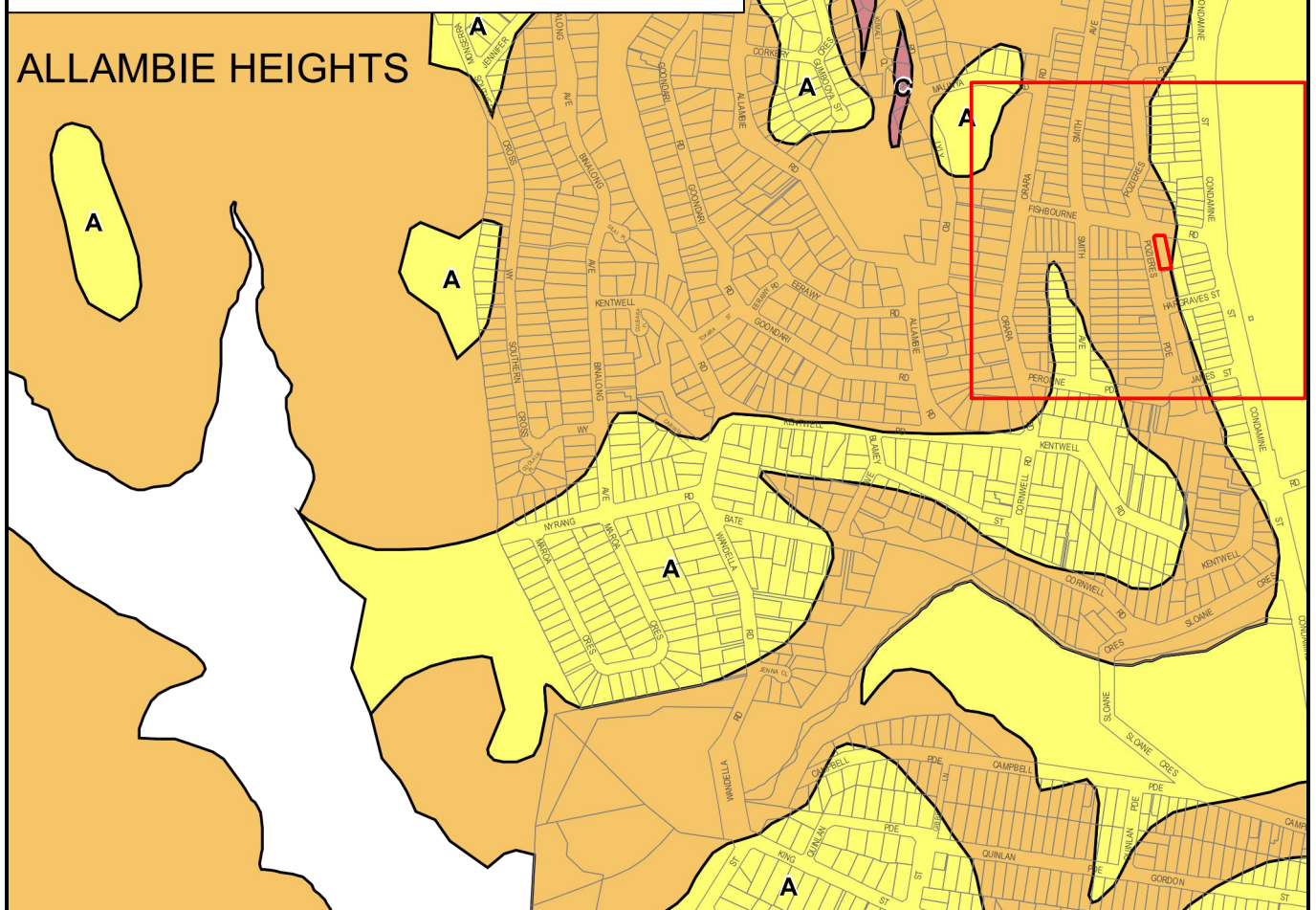
- Appendix A Landslip Risk Class Map
- Appendix B Landslip Risk Class Table
- Appendix C Preliminary Checklist Flowchart

Appendix A

Landslip Risk Class Map



25 0 25 50 75 100m
1 : 5000 FULL SIZE A4



- A Area A - Slope <5°
- B Area B - Flanking Slopes 5° to 25°
- C Area C - Slopes >25°
- D Area D - Collaroy Plateau Area Flanking Slopes 5° to 15°
- E Area E - Collaroy Plateau Area Slopes >15°

Notes:

1. Landslip Risk Class map taken from Warringah Local Environmental Plan 2011 - Sheet LSR_008



N
50 0 50 100 150 200m
1 : 10000 FULL SIZE A4


5 Fishbourne Rd
Allambie Heights, NSW

**LANDSLIP RISK CLASS MAP
PRELIMINARY ASSESSMENT**

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Appendix A

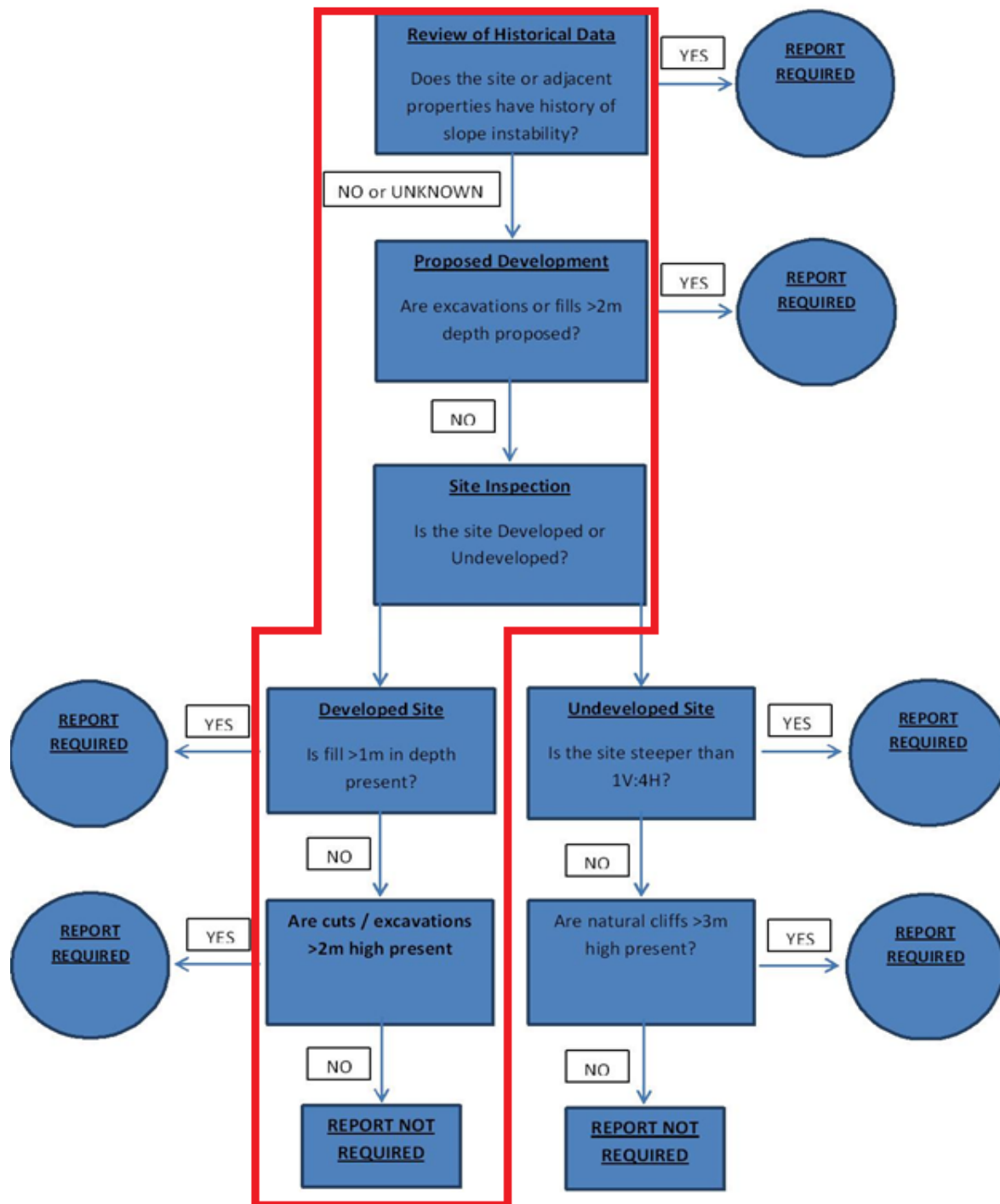
Appendix B
Landslip Risk Class Table

LANDSLIP RISK CLASS			
Landslip Risk Class	Topographic Position	Slope Angle (degrees)	Geology
A	<i>Plateau areas, ridge crests, major spur slopes, footslope areas; and beach, foredune and alluvial flats.</i>	<i>< 5</i>	<i>At higher elevations, generally shallow residual soils developed on Hawkesbury Sandstone. Hawkesbury Sandstone exposed in occasional outcrops and in near vertical road cuts. Some areas of fill. At lower elevations, unconsolidated marine and alluvial sands often overlying deep marine sediments.</i>
B	<i>Flanking slopes.</i>	<i>5 to 25</i>	<i>Colluvial and residual soils, possibly deeper than in Class A, developed on Hawkesbury Sandstone. Minor detached sandstone blocks, occasional exposures of sandstone in cliffs and road cuts. Occasional fill areas associated with playing fields, roads and some developments.</i>
C	<i>Steeper slopes, generally near coastal areas and adjacent to creeks and major gullies.</i>	<i>> 25</i>	<i>Colluvial soils and bouldery talus, with detached blocks of sandstone on steep escarpment areas, developed on Hawkesbury Sandstone. Near vertical cliffs to approximately 50m high at Dee Why Head.</i>
D	<i>Flanking slopes (Collaroy Plateau area)</i>	<i>5 to 15</i>	<i>Colluvial and residual soils (possibly deeper than in Class A) developed on Narrabeen Group or Hawkesbury Sandstone. Minor detached sandstone blocks, occasional exposures of sandstone in cliffs and road cuts. Occasional fill areas associated with playing fields, roads, and some developments.</i>
E	<i>Steeper slopes (Collaroy Plateau area)</i>	<i>> 15</i>	<i>Colluvial & residual soils & bouldery talus, with detached blocks of sandstone on steeper escarpment areas, developed on Narrabeen Group or Hawkesbury Sandstone. Near vertical cliffs up to about 20m high.</i>
Notes: 1. Landslide Risk Class table taken from Warringah Local Environmental Plan 2011		5 Fishbourne Rd Allambie Heights, NSW LANDSLIP RISK CLASS TABLE PRELIMINARY ASSESSMENT	
		PSM1551-074L	Appendix B

Appendix C

Preliminary Checklist Flowchart

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



Notes:

1. Preliminary Assessment Checklist taken from Warringah Local Environmental Plan 2011



5 Fishbourne Rd
Allambie Heights, NSW
CHECKLIST FLOWCHART
PRELIMINARY ASSESSMENT

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Appendix C