

SEC. 4.55 MODIFICATION LETTER

13 Warringulla Avenue, Elvina Bay NSW

AscentGeo Geotechnical Consulting ('AscentGeo') has reviewed the updated architectural plans for the Section 4.55 modifications to the approved development application (DA2020/0150) for alterations and additions at the above site as prepared by Ironbark Architecture & Design, project number 20.00, drawing number 01–08, dated 21 November 2022.

The changes to the design, as presented in the plans referenced above, will not result in significant geotechnical risk to property or life with reference to the Australian Geomechanics Society guidelines, or as adopted by the Geotechnical Policy for Northern Beaches Council (PLEP). As such the existing site conditions and proposed modifications to the approved development are considered to constitute an “**Acceptable**” risk to life and a “**Low**” risk to property.

Where new footings are required, we would suggest that shallow pad footings with a minimum dimension of 400x400x400mm bearing on natural residual clay material with an allowable bearing capacity of 150kPa. All new footings are to be inspected and approved by AscentGeo prior to introduction of steel reinforcement, or concrete.

If you have any questions or require any clarification, please call us on **9913 3179**.

For and on behalf of **AscentGeo** Geotechnical Consulting,



Ben Morgan BSc, MAIG RPGeo
Managing Director | Engineering Geologist



**GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER
FORM NO. 1 – To be submitted with Development Application**

Development Application for	<u>Chris Freeburn</u> Name of Applicant
Address of site	<u>13 Wurringulla Avenue, Elvina Bay NSW</u>

Declaration made by geotechnical engineer or engineering geologist or coastal engineer (where applicable) as part of a geotechnical report

I, Ben Morgan on behalf of AscentGeo Geotechnical Consulting
(insert name) (Trading or Company Name)

on this the 02.12.2022 certify that I am a geotechnical engineer or engineering geologist or coastal engineer

as defined by the Geotechnical Risk Management Policy for Pittwater - 2009 and I am authorised by the above organisation/company to issue this document and to certify that the organisation/company has a current professional indemnity policy of at least \$2 million.

Please mark appropriate box

- Prepared the detailed Geotechnical Report referenced below in accordance with the Australia Geomechanics Society's Landslide Risk Management Guidelines (AGS 2007) and the Geotechnical Risk Management Policy for Pittwater - 2009
- I am willing to technically verify that the detailed Geotechnical Report referenced below has been prepared in accordance with the Australian Geomechanics Society's Landslide Risk Management Guidelines (AGS 2007) and the Geotechnical Risk Management Policy for Pittwater - 2009
- Have examined the site and the proposed development in detail and have carried out a risk assessment in accordance with paragraph 6.0 of the Geotechnical Risk Management Policy for Pittwater - 2009. I confirm the results of the risk assessment for the proposed development are in compliance with the Geotechnical Risk Management Policy from Pittwater - 2009 and further detailed geotechnical reporting is not required for the subject site.
- Have examined the site and the proposed development/alteration in detail and am of the opinion that the Development Application only involves Minor Development/Alterations that do not require a Detailed Geotechnical Risk Assessment and hence my report is in accordance with the Geotechnical Risk Management Policy for Pittwater – 2009 requirements for Minor Development/Alterations.
- Have examined the site and the proposed development/alteration is separate form and not affected by a Geotechnical Hazard and does not require a Geotechnical report or Risk Assessment and hence my Report is in accordance with the Geotechnical Risk Management Policy for Pittwater – 2009 requirements
- Provided the coastal process and coastal forces analysis for inclusion in the Geotechnical Report


Geotechnical Report Details:

Report Title: Sec. 4.55 modification letter for Alterations & Additions at 13 Wurringulla Avenue, Elvina Bay NSW (AG 22506)
Report Date: 2 December 2022
Author: Ben Morgan
Author's Company/Organisation: AscentGeo Geotechnical Consulting

Documentation which relate to or are relied upon in report preparation:

Architectural design plans prepared by Ironbark Architecture + Design, drawing numbers 01-08, dated 21 November 2022.

I am aware that the above Geotechnical Report, prepared for the abovementioned site is to be submitted in support of a Development Application for this site and will be relied on by Northern Beaches Council as the basis for ensuring that the Geotechnical Risk Management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure, taken as at least 100 years unless otherwise stated and justified in the Report and that reasonable and practical measures have been identified to remove foreseeable risk.


Signature _____
Name Ben Morgan
Chartered Professional Status MAIG RPGeo (Geotechnical & Engineering)
Membership No. 10269
Company AscentGeo Geotechnical Consulting

**GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER
FORM NO. 1(a) - Checklist of Requirements for
Geotechnical Risk Management Report for Development Application**

Development Application for <u>Chris Freeburn</u>	Name of Applicant
Address of site <u>13 Wurringulla Avenue, Elvina Bay NSW</u>	

The following checklist covers the minimum requirements to be addressed in a Geotechnical Risk Management Geotechnical Report. This checklist is to accompany the Geotechnical Report and its certification (Form No. 1).


Geotechnical Report Details:

Report Title: Sec. 4.55 modification letter for Alterations & Additions at 13 Wurringulla Avenue, Elvina Bay NSW (AG 22506)
Report Date: 2 December 2022
Author: Ben Morgan
Author's Company/Organisation: AscentGeo Geotechnical Consulting

Please mark appropriate box

- Comprehensive site mapping conducted see letter
(date)
- Mapping details presented on contoured site plan with geomorphic mapping to a minimum scale of 1:200 (as appropriate)
- Subsurface investigation required
 - No Justification see letter
 - Yes Date conducted
- Geotechnical model developed and reported as an inferred subsurface type-section
- Geotechnical hazards identified
 - Above the site
 - On the site
 - Below the site
 - Beside the site
- Geotechnical hazards described and reported
- Risk assessment conducted in accordance with the Geotechnical Risk Management Policy for Pittwater - 2009
 - Consequence analysis
 - Frequency analysis
- Risk calculation
- Risk assessment for property conducted in accordance with the Geotechnical Risk Management Policy for Pittwater - 2009
- Risk assessment for loss of life conducted in accordance with the Geotechnical Risk Management Policy for Pittwater - 2009
- Assessed risks have been compared to "Acceptable Risk Management" criteria as defined in the Geotechnical Risk Management Policy for Pittwater - 2009
- Opinion has been provided that the design can achieve the "Acceptable Risk Management" criteria provided that the specified conditions are achieved.
- Design Life Adopted:
 - 100 years
 - Other
specify
- Geotechnical Conditions to be applied to all four phases as described in the Geotechnical Risk Management Policy for Pittwater – 2009 have been specified
- Additional action to remove risk where reasonable and practical have been identified and included in the report.
- Risk Assessment within Bushfire Asset Protection Zone

I am aware that Pittwater Council will rely on the Geotechnical Report, to which this checklist applies, as the basis for ensuring that the geotechnical risk management aspects of the proposal have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure, taken as at least 100 years unless otherwise stated, and justified in the Report and that reasonable and practical measures have been identified to remove foreseeable risk.



Signature _____

Name Ben Morgan

Chartered Professional Status MAIG RPGeo (Geotechnical & Engineering)

Membership No. 10269

Company AscentGeo Geotechnical Consulting