

## **1110 Barrenjoey Road, Palm Beach.**

### Independent Review: Geotechnical Report

A desktop study was carried out to provide an Independent Review of the Geotechnical Report for the site. Documents relied on for this review included:

- Crozier Geotechnical Report No. 2020-232 dated December 2021.
- The stamped Architectural Drawings - Jorge Hrdina Architects Pty Ltd, Project No.: 2004, Drawing No.: DA1001, DA2000 – DA2005, DA2221 – DA2222, DA3000 – DA3004, DA3100 – DA3102, Dated: 22/02/2021, 15/06/2021, 18/06/2021 & 13/7/21.
- Notice of Determination: DA2021/0200 dated 27/7/21
- Survey by Adam Clerke Surveyors dated 23/11/20.

Council instigated a deferred Commencement with the following points to be undertaken prior to the development consent becoming operational. We have reviewed the report with these in mind with comments in black.

#### 1. Deferred Commencement

The following must be undertaken prior to the development consent becoming operational.

(a) A Stage 1 Geotechnical investigation is to be undertaken, comprising boreholes and any further investigations as required.

Adequately conducted and reported.

(b) The geotechnical engineer shall provide details on important subsurface conditions and suitable guidance to the structural design for excavation retention and for suitable and necessary engineering controls that must be implemented to ensure stable excavation.

Adequately reported.

(c) A Construction Methodology Statement (CMS) is to be determined, incorporating an Excavation Management Plan (EMP), and controls/hold points are to be confirmed. The

CMS/EMP is to incorporate or cross reference to: excavation and support design, with regard for potential impacts of the excavation upon No.1110, rock features that may become unstable through excavation and other adjoining properties;

Adequately reported.

- staging, Hold Points, geotechnical controls;

Adequately reported.

- monitoring of (i) the excavation support for lateral deflection, (ii) the surface conditions along the boundary and building settlements on adjoining property, (iii) ground vibrations, and (iv) any other aspects of the construction deemed important and necessary for protection of the adjoining property;

Adequately reported.

- confirmation of geotechnical parameters for the structural engineer's design;

Adequately reported.

- geotechnical review of the design and monitoring program

Adequately reported in terms of architectural design. Provisions in report to assess structural design and proposed monitoring program.

## Conclusion

The Geotechnical Report is in accordance with industry standards and adequately addresses the building issues and risks from a geotechnical perspective. It provides suitable advice to reduce the risks. It satisfies the council geotechnical policy for Northern Beaches Council (Pittwater).

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