

Geotechnical Engineering Services

- Geotechnical investigation
- Geotechnical design
- Footing inspections

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To: Neptune Consultants

Our Ref No.: ESWN-PR-2020-671-2
Date: 1st May 2023

**Re: GEOTECHNICAL STATEMENT ON DESIGN MODIFICATION FOR
PROPOSED ALTERATIONS & ADDITIONS AT NO. 13 GARDERE AVENUE,
CURL CURL, NSW 2096**

I, Jiameng Li of **ESWNMAN Pty Ltd** (ESWNMAN), Chartered Professional Engineer (Geotechnical) and Member of the Institute of Engineers Australia (EA Membership No. 2493013), who reviewed the proposed design modifications (REFERENCE 1) and relevant design drawings provided against our Geotechnical Report (REFERENCE 2), and the following is noted:

- Some existing walls will be re-built at same locations in accordance with structural design drawings and implementation of control measures below ^{Note 1.};
- No change in extent of excavation and minor change in depth of excavation in new design;
- No significant change in design loads;
- Unlikely to have changes in ground conditions obtained since completion of fieldwork.

Note 1: *Common control measures for wall replacement or underpinning during:*

- 1) **Bracing/support of existing walls and structural members adequately as designed and directed by the project Structural Engineer prior to any excavation;**
- 2) *Saw cut through existing concrete slabs using a hand operated tools to minimise induced vibration;*
- 3) *Size of opening for underpinning structural footings(if required) should be minimised, unless approved by project Geotechnical and Structural Engineers;*
- 4) *Underpinning and excavation should be carried out at stages if practically possible;*
- 5) *They do not encroach ZOI(Zone of Influence, defined as 45° angle of draw from nearest edge of footing underside) of any site or adjoining structures unless it is approved by the project Structural and/or Geotechnical Engineer.*

Based on the above, we assessed that the proposed modifications will unlikely to affect the assessments and recommendations made in our geotechnical report (REFERENCE 2).

Therefore, we recommend our geotechnical report (Ref: ESWN-PR-2020-671 and dated 4th September 2020) are valid for structural design and construction under proposed design modifications.

REFERENCES:

- (1) *Design statement letter titled "Statement of Modification to Approved Development Application at 13 Gardere Avenue, Curl Curl" prepared by HSArchitects Pty Ltd, dated 26th April 2023..*
- (2) *A report titled "Geotechnical Investigation Report, No. 13 Gardere Avenue, Curl Curl, NSW" prepared by ESWNMAN Pty Ltd, referenced ESWN-PR-2020-671 and dated 4th September 2020.*

For and on behalf of
ESWNMAN Pty Ltd

Yours sincerely,



Jiameng Li

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