

# Flood Impact Statement – 14 Broughton Road, Strathfield

<b>Project</b>	Single Dwelling
<b>Address</b>	14 Broughton Road, Strathfield

Pursuant to the provisions of Clause 1.22 (a) (iii) of the Building Code of Australia 2015 Volume 2

I Nader Zaki of NY CIVIL ENGINEERING  
(Full Name) (Company)

98 Pine Road, Casula  
(Address)

Hereby certify: -

1. That the Civil Engineering and flood design relating to the above development has been designed in accordance with industry engineering practice and have been coordinated with Council Development Control Plans. The design has also been checked to comply with the requirements of the following nominated Standards of Performance: -
2.
  - Flood Hazard Areas- BCA 2016 Clause 3.10.3.0

(1) The development must not be on any part of a flood control lot unless that part of the lot has been certified, for the purposes of the issue of the relevant complying development certificate, by the council or a professional engineer who specialises in hydraulic engineering as not being any of the following:

- (a) a flood storage area,
- (b) a floodway area,
- (c) a flow path,
- (d) a high hazard area,
- (e) a high risk area

**I hereby certify that this site is none of the above**

(2) If complying development under this code is carried out on any part of a flood control lot, the following development standards also apply in addition to any other development standards:

(a) if there is a minimum floor level adopted in a development control plan by the relevant council for the lot, the development must not cause any habitable room in the dwelling house to have a floor level lower than that floor level,

**Flood level adjacent site (Appendix A) = 15.30m AHD. Minimum freeboard to habitable floor = 500mm minimum driveway crest height to basement = 200mm.**

(b) any part of the dwelling house or any attached development or detached development that is erected at or below the flood planning level is constructed of flood compatible material,

**All building components up to RL 15.80m AHD to be made of flood compatible materials.**

(c) any part of the dwelling house and any attached development or detached development that is erected is able to withstand the forces exerted during a flood by water, debris and buoyancy up to the flood planning level (or if an on-site refuge is provided on the lot, the probable maximum flood level),

**Appropriately qualified structural engineer to certify that proposed development can withstand forces of floodwater, debris and buoyancy up to RL 15.80m AHD – considering approx. flow depth of 300mm.**

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(d) the development must not result in increased flooding elsewhere in the floodplain,

**I hereby certify that the dwelling will not result in an increase in flooding elsewhere in the floodplain.**

(e) the lot must have pedestrian and vehicular access to a readily accessible refuge at a level equal to or higher than the lowest habitable floor level of the dwelling house,

**Satisfied – basement access sufficiently distant from overland flow route.**

(f) vehicular access to the dwelling house will not be inundated by water to a level of more than 0.3m during a 1:100 ARI (average recurrent interval) flood event,

**Satisfied – vehicle access sufficiently distant from overland flow route.**

(g) the lot must not have any open car parking spaces or carports lower than the level of a 1:20 ARI (average recurrent interval) flood event.

**Satisfied**

3. I am an appropriately qualified professional Hydraulic and Civil Engineer and have:

- a) Current professional indemnity insurance appropriate for the size and scope of this project to the satisfaction of the building owner or principal authorising the design work; and one or more of the following:
- i. Registration as a professional engineer in this discipline with the appropriate experience and competence in this field; OR
  - ii. Corporate membership in the Institution of Engineers, Australia; OR
  - iii. Eligible to become a corporate member of the Institution of Engineers, Australia and have appropriate experience and competence in this field of engineering.

**Based on the above information I hereby certify that this development complies in its entirety with Clause 3.5 of the SEPP (Exempt & Complying Development Condes) 2008.**

Documents relied upon:

- 1) Architectural Plans – Prepared By: CLD Studio – December 2021
- 2) Strathfield Council Flood Map Excerpt (See Appendix A)

**Relevant qualifications and experience:** MIEAust CPEng NER

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**Engineer Membership No.** 3894863

**Phone:** 0416334977

**Signature** 

**Date:** 23/12/2021

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## Appendix A – Flood Information

