

structa

Consulting Engineers

07 November 2022

Hydraulic Certification - Flooding
1 Winbourne St, Mudgee

Dear Sir/Madam,

Structa Consulting Engineers, being Professional Engineers and Members of the Institution of Engineers Australia, have reviewed the flood requirements for the proposed dwelling(s) at the above-mentioned address.

The property has been identified as a flood control lot on the 10.7 Planning Certificate. Based on our review of the available flood information from Mid Western Regional Council, the location of the proposed dwelling(s) has been identified as outside of any flood areas. (Refer Appendix 2) and therefore is not subject to any flood related controls.

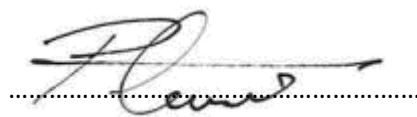
We certify that the dwelling(s) will comply with the flood requirements referenced in the local council's stormwater DCP, and the requirements of the SEPP 2008 flood requirements as a whole under Clause 3.5 of Exempt and Complying Development Codes 2008, compliance with ABCB Standard for Construction in Building in Flood Hazard Areas – Class 1 building and/or accepted engineering principles. (Refer to Appendix 1).

This certificate shall not be misconstrued as relieving the building contractors of their contractual responsibilities.

Should you need anything further, or require any matters elaborated on, please contact the undersigned.

Yours faithfully,

For Structa Consulting Engineers



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Structural - Strata - Dilapidation Reports - Remedial - Turnkey Approvals

Appendix 1

3.5 Complying development on flood control lots

(1) Development under this code must not be carried out on any part of a flood control lot, other than a part of the lot that the council or a professional engineer who specialises in hydraulic engineering has certified, for the purposes of the issue of the relevant complying development certificate, 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.

(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,
- (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,
- (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),
- (d) the development must not result in increased 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,
- (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,
- (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.

(3) The requirements under subclause (2)(c) and (d) are satisfied if a joint report by a professional engineer specialising in hydraulic engineering and a professional engineer specialising in civil engineering states that the requirements are satisfied.

(4) A word or expression used in this clause has the same meaning as it has in the Floodplain Development Manual, unless it is otherwise defined in this Policy.

(5) In this clause—

flood compatible material means building materials and surface finishes capable of withstanding prolonged immersion in water.

flood planning level means—

- (a) the flood planning level adopted by a local environmental plan applying to the lot, or
- (b) if a flood planning level is not adopted by a local environmental plan applying to the lot, the flood planning level adopted in a development control plan by the relevant council for the lot.

Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

flow path means a flow path identified in the council's flood study or floodplain risk management study carried out in accordance with the Floodplain Development Manual.

high hazard area means a high hazard area identified in the council's flood study or floodplain risk management study carried out in accordance with the Floodplain Development Manual.

high risk area means a high risk area identified in the council's flood study or floodplain risk management study carried out in accordance with the Floodplain Development Manual.

Note 1—

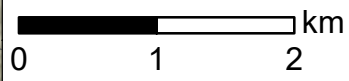
Council, flood control lot, habitable room and professional engineer are defined in clause 1.5.

Note 2—

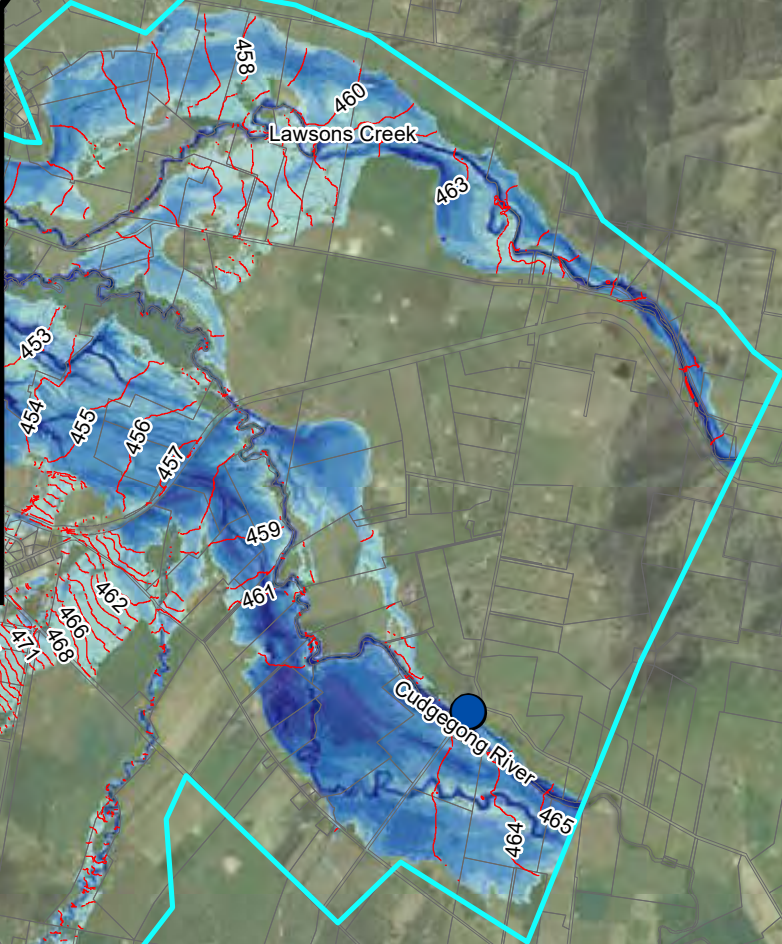
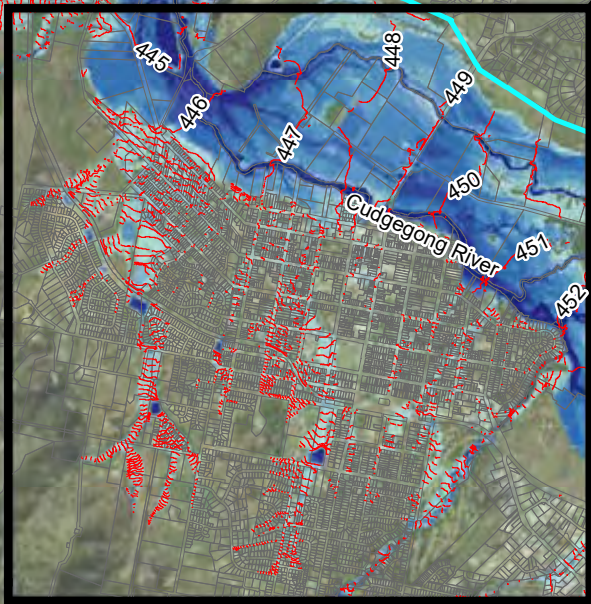
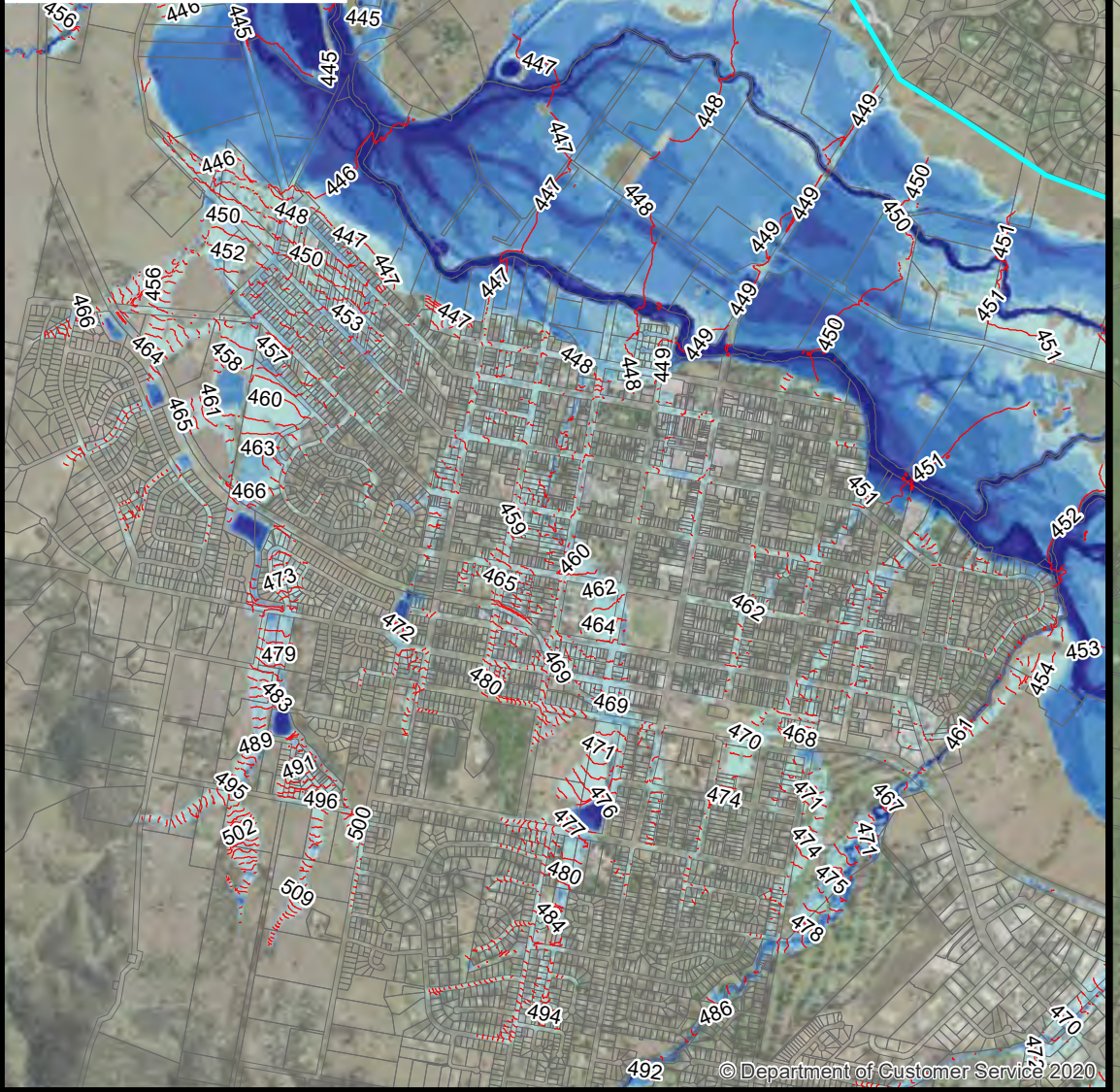
A section 10.7 certificate from a Council will state whether or not a lot is a flood control lot.

Appendix 2 – Flood Map

PEAK FLOOD DEPTHS AND LEVELS
1% AEP EVENT



Mudgee Township Results



Legend

- Loc_421150
- Loc_421149
- Model Extent
- Flood Level Contours (1m interval)
- Cadastre

Depth (m)

- <= 0.2
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

