

Natural Environment Referral Response - Flood

Application Number:	DA2019/0857
To:	Julie Edwards
Land to be developed (Address):	Lot 3 DP 21243 , 5 Bareena Road AVALON BEACH NSW 2107

Reasons for referral

This application seeks consent for the following:

- All Development Applications on land below the 1 in100 year flood level;
- All Development Applications located on land below the Probable Maximum Flood levels.

And as such, Council's Natural Environment Unit officers are required to consider the likely impacts on drainage regimes.

Officer comments

The proposed development generally complies with Councils LEP & DCP and is recommended for approval subject to the conditions. The architectural plans must show that the underfloor perimeter of the new addition at groundfloor has a minimum of 50% open area below the 1% level to allow clear passage of floodwaters.

Referral Body Recommendation

Recommended for approval, subject to conditions

Recommended Natural Environment Conditions:

CONDITIONS TO BE SATISFIED PRIOR TO THE ISSUE OF THE CONSTRUCTION CERTIFICATE

Flooding

In order to protect property and occupants from flood risk the following is required:

Building Components and Structural Soundness – C1

All new development shall be designed and constructed as flood compatible buildings in accordance with Reducing Vulnerability of Buildings to Flood Damage: Guidance on Building in Flood Prone Areas, Hawkesbury-Nepean Floodplain Management Steering Committee (2006).

Building Components and Structural Soundness – C2

All new development must be designed and constructed to ensure structural integrity up to the Flood Planning Level of 11.15 m AHD, taking into account the forces of floodwater, wave action, flowing water with debris, buoyancy and immersion. Structural certification shall be provided confirming the above.

Building Components and Structural Soundness – C3

All new electrical equipment, power points, wiring, fuel lines, sewerage systems or any other service pipes and connections must be waterproofed and/or located above the Flood Planning Level of 11.15 m AHD. All existing electrical equipment and power points located below the Flood Planning Level must have residual current devices installed cut electricity supply during flood events.

Storage of Goods – D1

Hazardous or potentially polluting materials shall not be stored below the Flood Planning Level of 11.15 m AHD unless adequately protected from floodwaters in accordance with industry standards.

Floor Levels – F2

The underfloor area of the dwelling below the 1% AEP flood level of 10.85 m AHD is to be designed and constructed to allow clear passage of floodwaters. The underfloor perimeter of the dwelling is to have a minimum of 50% open area below the 1% level of 10.85 m AHD. This must be demonstrated in the architectural plans.

Fencing – H1

Fencing (including pool fencing, boundary fencing, balcony balustrades and accessway balustrades) shall be open for passage of flood waters - All new fencing on the property must be design with a minimum of 50% open area between the 1% flood level and natural ground level, to allow flood waters to pass through.

Recommendations

The development must comply with all recommendations outlined in:

- The Flood Inundation & Risk Assessment Report prepared by Barrenjoey Consulting Engineers dated 6th of August.

Details demonstrating compliance are to be submitted to the Certifying Authority prior to the issue of the Construction Certificate.

Reason: To reduce the impact of flooding and flood liability on owners and occupiers of flood-prone property and reduce public and private losses in accordance with Council and NSW Government policy.