Natural Environment Referral Response - Coastal

Application Number:	DA2020/0174

Date:	17/03/2020
Responsible Officer	Kelsey Wilkes
Land to be developed (Address):	Lot 58 DP 12749 , 121 Florence Terrace SCOTLAND ISLAND NSW 2105

Reasons for referral

This application seeks consent for land located within the Coastal Zone.

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

Officer comments

The application has been assessed in consideration of the Coastal Management Act 2016, State Environmental Planning Policy (Coastal Management) 2018 and has also been assessed against requirements of the Pittwater LEP 2014 and Pittwater 21 DCP.

This assessment also acknowledges additional information/report received on 9 March 2020

Coastal Management Act 2016
The subject site has been identified as being within the coastal zone and therefore *Coastal Management Act 2016* is applicable to the proposed development.

The proposed development is in line with the objects, as set out under Clause 3 of the *Coastal Management Act 2016.*

State Environmental Planning Policy (Coastal Management) 2018
As the subject site has been identified as being within the coastal zone and therefore SEPP (Coastal Management) 2018 is also applicable to the proposed development.

The subject land has been included on the 'Coastal Environment Area' and 'Coastal Use Area' maps but not been included on the Coastal Vulnerability Area Map under the State Environmental Planning Policy (Coastal Management) 2018 (CM SEPP). Hence, Clauses 13, 14 and 15 of the CM SEPP apply for this DA.

Comment:

As assessed in the submitted Statement of Environmental Effects (SEE) report prepared by Stephen Crosby & Associates Pty. Ltd. dated 2 February 2020 and Council accepts the assessment, the DA satisfies requirements under clauses 13, 14 and 15 of the CM SEPP.

As such, it is considered that the application does comply with the requirements of the State Environmental Planning Policy (Coastal Management) 2018.

Pittwater LEP 2014 and Pittwater 21 DCP

The subject property has also been identified as affected by estuarine wave action and tidal inundation on Council's Estuarine Hazard Mapping. As such, the Estuarine Risk Management Policy for Development in Pittwater (Appendix 7, Pittwater 21 DCP) and the relevant B3.7 Estuarine Hazard Controls will apply to any proposed development of the site.

Estuarine Risk Management

In accordance with the Pittwater Estuary Mapping of Sea Level Rise Impacts Study (2015), a base estuarine planning level (EPL) of RL 2.69m AHD would apply at the subject site. A reduction factor (RF) based upon the distance from the foreshore of proposed development may also apply at a rate of 0.07m reduction to the EPL for every 5.00m distance from the foreshore edge up to a maximum distance of 40.00m.

The Estuarine Planning Level, however, does not apply to Jetties, Bridging Ramps or Pontoons, as proposed, located on the seaward side of the foreshore edge

Assessment of the proposed development were made in the submitted Coastal Engineering Report prepared by Cardno Pty. Ltd. dated 3 February 2020 and Geotech Report prepared by Ascent Geotechnical Consultants Ltd. dated 20 December 2020. Council sought further information and clarifications. Supplemental information was provided through Boatshed & seawall letter dated 6 March 2020 accompanied by a detailed seawall design (DA 05) by Stephen Crosby & Association Pty. Ltd dated March 2020; Council accepts the recent assessments.,The ground floor level for the proposed boatshed is 1.85m AHD and is below the EPL for the site.

The proposed development is therefore subject to conditions to satisfy the relevant estuarine risk management requirements of P21 DCP.

The proposal is therefore supported.

Note: Should you have any concerns with the referral comments above, please discuss these with the Responsible Officer.

Recommended Natural Environment Conditions:

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

Erosion and Sediment Control Plan
An Erosion and Sediment Control Plan (ESCP) shall be prepared by an appropriately qualified person and implemented onsite prior to commencement. The ESCP must meet the requirements outlined in the Landcom publication Managing Urban Stormwater: Soils and Construction - Volume 1, 4th Edition (2004). The ESCP must include the following as a minimum:

- Site Boundaries and contours
- Approximate location of trees and other vegetation, showing items for removal or retention (consistent with any other plans attached to the application)
- Location of site access, proposed roads and other impervious areas (e.g. parking areas and site facilities);
- Existing and proposed drainage patterns with stormwater discharge points
- Locations and methods of all erosion and sediment controls;
- North point and scale.

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

Reason: To protect the environment from the effects of sedimentation and erosion from development sites.

Estuarine Hazard Design Requirements
The following applies to all development:

All development or activities must be designed and constructed such that they will not increase the level of risk from estuarine processes for any people, assets or infrastructure in surrounding properties; they will not adversely affect estuarine processes; they will not be adversely affected by estuarine processes.

To ensure Council's recommended flood evacuation strategy of 'shelter-in-place', it will need to be demonstrated that there is safe pedestrian access to a 'safe haven' above the Estuarine Planning Level.

Reason: To minimise potential hazards associated with development in an estuarine habitat.

Estuarine Planning Level Requirements
An Estuarine Planning Level (EPL) of 2.69m AHD has been adopted by Council for the subject site and shall be applied to all development proposed below this level as follows:

- All structural elements below 2.69m AHD shall be of flood compatible materials;
- All electrical equipment, wiring, fuel lines or any other service pipes and connections must be located either above 2.69m AHD or waterproofed to this level; and
- The storage of toxic or potentially polluting goods, chemicals or materials, which may be hazardous or pollute the waterway, is not permitted below 2.69m AHD.
- All interior power supplies (including electrical fittings, outlets and switches) must be located at or above 2.69m AHD. All exterior power supplies (including electrical fittings, outlets and switches) shall be located at or above 2.69m AHD to avoid the likelihood of contact with splashing waves and spray.

Reason: To ensure aspect of the development are built at the appropriate level

Compliance with Estuarine Risk Management Report
The development is to comply with all recommendations of the Boatshed & Seawall Letter prepared by Ascent Geotechnical Consultants Ltd. dated 6 March 2020, a detailed seawall design (DA 05) by Stephen Crosby Associates Pty. Ltd. dated March 2020 and these recommendations are to be incorporated into construction plans. Further, the development is to comply with recommendations made in the Coastal Engineering Report prepared by Cardno Pty. Ltd dated 3 February 2020 and Geotech Report prepared by Ascent Geotechnical Consultants Ltd. dated 20 December 2019.

Reason: To minimise potential hazards associated with development in an estuarine habitat.

Engineers Certification of Plans
The structural design shall be prepared by and each plan/sheet signed by, a registered professional civil or structural engineer with chartered professional status (CP Eng) who has an appropriate level of professional indemnity insurance and shall be submitted to the Principal Certifying Authority prior to the release of the Construction Certificate.

Reason: To ensure structural engineering is prepared by an appropriately qualified professional

CONDITIONS THAT MUST BE ADDRESSED PRIOR TO ANY COMMENCEMENT

Installation and Maintenance of Sediment and Erosion Control
Sediment and erosion controls must be installed in accordance with Landcom's 'Managing Urban Stormwater: Soils and Construction' (2004). Techniques used for erosion and sediment control on site are to be adequately maintained and monitored at all times, particularly after periods of rain, and shall remain in proper operation until all development activities have been completed and the site is sufficiently stabilised with vegetation.

Reason: To protect the surrounding environment from the effects of sedimentation and erosion from the site

CONDITIONS WHICH MUST BE COMPLIED WITH PRIOR TO THE ISSUE OF THE OCCUPATION CERTIFICATE

Post Construction Coastal certificate
Prior to the issue of the Occupation Certificate, a Post Construction Coastal Certificate shall be submitted to the Principal Certifying Authority (Form No. 3 of the Coastline Risk Management Policy for Development in Pittwater - Appendix 6 of P21 DCP) that has been prepared and signed by a specialist coastal engineer who is a registered professional engineer with chartered professional status (CP Eng) and coastal engineering as a core competency and who has an appropriate level of professional indemnity insurance.

Reason: To ensure the development has been constructed to the engineers requirements