



Mr Doug Sneddon
Doug Sneddon Planning Pty Ltd
2/101 Excelsior Street
LISAROW NSW 2250

Our reference: DOC13/89611;CP13-001
Contact: Marc Daley, (02) 4904 2579

Dear Mr Sneddon

**Development Application CP13-001: Proposed Beachfront Revetment Wall on Lot 13
DP 880692,
No.8 Berrima Crescent, Umina Beach**

I write to inform you of the deliberations of the NSW Coastal Panel with respect to the above application. The Panel has undertaken a site inspection and had the opportunity to consider the submissions made following the exhibition of the application. A copy of the submissions received is provided with this letter for your information.

As a result of a review of documentation, site inspection and consideration of the information raised in the submissions, the Panel seeks clarification or further information from you on the matters outlined below.

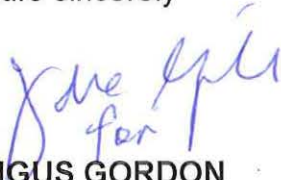
- The Panel requires that an assessment be provided that includes detailed information on the coastal processes specific to the site and how the proposed structure may influence these processes;
- The Panel requires further information on key design parameters of the proposed works in the Coastal Engineering Assessment, such as the design still water levels and wave heights, and their derivation;
- The Panel seeks clarification as to whether Wave Modelling and EuroTop estimates for design wave heights at the structure and overtopping have included provision for increased depth due to nearshore storm scouring in their calculations;
- There is a discrepancy between the information in the statement of environmental effects and the coastal engineering assessment concerning the location of the proposed return of the wall as depicted in drawing No. 89024430-C001. The application states the wall is to be constructed entirely on the applicant's (private) land. However, this figure indicates the southern return of the wall is to be constructed beyond the property boundary, and extending onto public land. If the return is to be constructed on public land, landowner's consent will need to be submitted as part of the development application documentation;

- Clarification is sought on the design slope of the seawall. There is a discrepancy between the information in the Statement of Environmental Effects which shows the slope of the wall is 1V:1.5H compared to the design of the wall as shown in drawing No. 89024430-C001 indicates a relatively steep wall design of 1.5V:1H;
- The Panel seeks information about the quantification of any potential 'end effects' of the proposed structure on Public and Crown land immediately south, and on the basis that Gosford City Council in their submission to the Coastal Panel has given an indication that currently it does have the necessary funding to complete the proposed public section of the revetment wall;
- How will any 'end effects' be addressed and managed in both the short and long term if erosion impacts on adjacent land are increased, potentially impacting on Berrima Crescent, the public car park, beach access and amenity;
- If 'end effects' are experienced, how would public safety be managed;
- The Panel seeks confirmation for responsibility for ongoing management and maintenance of the structure and restoration of the beach or land adjacent to the beach resulting from increased erosion by the presence of the works. Potential mechanisms that the Panel is aware of that may warrant consideration include an agreement with Gosford City Council for the levying of a Coastal Protection Service Charge under the *Local Government Act 1993*, or commitment through a Voluntary Planning Agreement under the *Environmental Planning and Assessment Act 1979*. In the statement of environmental effects the applicant has acknowledged their responsibility for the ongoing maintenance of the wall, but does not appear to acknowledge their responsibility for the restoration of the beach resulting from increased erosion attributable to the wall. The Panel needs to be satisfied of this matter, amongst others, as required by the *Coastal Protection Act 1979* (s.55M);
- The Panel seeks further information on the justification for the proposed design in terms of its adequacy across its anticipated design life. Specifically, the Panel has identified the following potential design issues:
 - the wall is considered to be of a relatively low height and therefore potentially susceptible to overwash and possible failure,
 - the wall has a relatively shallow toe and therefore is potentially susceptible to undermining,
 - the wall design has only a primary and no planned secondary rock fill layer, and therefore may be potentially susceptible to a compromised structural integrity resulting from wave run-up and overwash processes, and
 - the impact on the wall arising from the likelihood of movement of Ettalong Creek which could give rise to increased erosion at the toe; and
- The Panel requests information about the proposed method to address these design issues to maintain structural integrity such as deeper toe and higher crest levels, a double layer wall, wall slope and the ability to 'top up' the wall into the future if required;
- The Panel notes that some backfilling material may be required behind the proposed wall. The documentation provided suggests that this material could be sourced from the entrance of Ettalong Creek. The Panel does not support the sourcing of backfill material from Ettalong Creek as this would result in sediment that currently forms part of the active coastal system to be removed. As such, the Panel seeks further information on the source and composition of any backfilling material.

Could you please advise a reasonable timeframe to prepare a response to the issues noted above within 14 days of the receipt of this letter? The Coastal Panel will await your response to submissions before undertaking any further consideration of the development application.

Further information can be obtained from Marc Daley of the Office of Environment and Heritage if required. He can be contacted on (02) 4904 2579 or by email marc.daley@environment.nsw.gov.au. Please do not hesitate to call Mr Daley if you wish to discuss any matter concerning the development application further.

Yours sincerely



ANGUS GORDON
Chair
NSW Coastal Panel

4.12.13

Encl.