

SUMMARY STATEMENT OF RICHARD REINEN-HAMILL (COASTAL PROCESSES)

1. This summary statement of evidence provides an overview of my Evidence in Chief, Rebuttal Statement of Evidence and the Coastal Processes and Planning Joint Witness Statement dated 22 September 2023.
2. The detailed assessment of the existing physical processes through analysis of good quality and comprehensive historic information, newly acquired field investigations and the well calibrated and verified numerical hydrodynamic and morphological modelling by MetOcean Solutions have enabled an analysis of the effects of the proposal.
3. The proposed developments add to the increased occupation of the CMA in this area and increase the spatial extent of effects on the seabed and shoreline due to the increased occupation.
4. The extension of an existing consented port reclamation and the proposed reclamations that are aligned with the existing face of the reclamation minimises potential adverse effects on tidal flows and sediment transport. The effects on tidal currents and sediment transport adjacent to the area of occupation extend eastward along the existing channel to the Channel Infrastructure jetty. Due to the changes to the currents and wave climate as a result of the eastern reclamation the overall cumulative effect on coastal processes access is moderate in this area. The effects on coastal processes for the other inner harbour, inlet and Bream Bay areas are minor.
5. The proposed bird roost is provided for avifauna mitigation. It is located in a relatively low energy environment and over the long term the inclusion of sand and the ongoing top-ups will have a beneficial effect on coastal processes by increasing the sediment budget within Marsden Bay, offsetting to some degree sea level rise effects and will potentially reduce the overwash and landward retreat of the existing barrier beach.
6. I have reviewed the findings of the Section 42 A report with respect to coastal process effects and note that the Council's conclusions of the effects on coastal processes is negligible-more than minor, subject to the successful implementation of recommended mitigation proposed by their reviewer Mr Doug Treloar that I support. In my opinion, these proposed mitigations that include more detailed monitoring and investigation of changes within Marsden Bay address many of the concerns raised by submitters. The proposed consent conditions also provide mechanisms for identifying and addressing potential adverse effects that might affect coastal processes.

7. I have also read the statement of evidence prepared by Professor Karin Bryan and Craig Davis as well as submissions from stakeholders and interested parties that relate to coastal process effects.
8. In consideration with concerns raised by Professor Bryan, I am confident that the modelling prepared by MetOcean Solutions in combination with the significant resource of previous studies and site-specific data provide an excellent and reliable basis for understanding the existing environment and the potential effects of the proposed development.
9. I have had various discussions with Bronwen Gibberd the coastal process expert commissioned by Channel Infrastructure NZ and believe we have good alignment on the issues; and I understand that some changes to conditions, including relating to management of coastal process issues, have been agreed between the parties.
10. In the same way, providing more specific monitoring and assessment to address Mr Davis's concerns regarding changes within the access channel and Blacksmiths' Creek that affect their function is supported and consistent with the recommendations of Mr Treloar.
11. I confirm that nothing in submitter evidence has caused me to amend my fundamental position or conclusions, besides as set out above and in the JWS.

Richard Anthony Reinen-Hamill
Tonkin + Taylor

9 October 2023