

Minutes

Meeting: Supplementary Information Under Section 92 of the RMA: expert conferencing - coastal

Venue: Virtual (Teams Meeting) **Date:** 22 May 2023

Job No: 1017349 **Time:** 3:00 - 4:00 pm

Present: Stacy Sharp; Blair Masefield; Doug Treloar, Brett Hood; Richard Reinen-Hamill; Phil Mitchell

Apologies:

	Agenda Item	Owner
1	<p>Discussion any outstanding s92 clarifications and residual areas of concern/disagreement with the Northport.</p> <p>Suggested agenda, which is framed around your draft technical memo, below:</p> <ul style="list-style-type: none"> - Planning framework – relevant policies - Assessment methodology - Effects <ul style="list-style-type: none"> o Marsden Bay channels o Cumulative effects on wider Marsden Bay area, inc. access to Blacksmiths Creek - Mitigation/off-set options, if applicable 	

A discussion was held on the status and context of the existing port and dredging and any additional effect of the eastern reclamation on increasing cumulative effects. From a coastal process perspective, Richard Reinen-Hamill investigated relative change from the existing situation (i.e. the existing environment) with the port and dredged areas in-situ.

The assessment methodology he undertook combines coastal process assessments from physical evidence and through interpretation of hydrodynamic modelling (waves and currents) and resulting sediment transport. Physical evidence included from aerial photograph assessment, reviews of previous reports and site knowledge gained from working adjacent to the Port on both the eastern side and within Marsden Bay.

The physical environment within Marsden Bay has been changed to a small degree with the original port construction due to the removal of (relatively low) wave and current action on the intertidal area from the east and slight changes in sediment transport, although due to the low energy environment, key features observed

historically are still present, so changes have been relatively small scale. However, there has been a landward movement of the spit at the western end of the bay due to infrequent wave energy from the northerly fetches at higher stages of the tide, possibly affected by a reduction in small quantities of alongshore transport from east to west. The landward movement of the spit, particularly the distal (western most) part may have assisted in moving the creek outlet further to the southwest which is resulting in erosion along part of the coastal edge.

Detailed wave modelling within Marsden Bay was not considered necessary as the eastern extension has had no effect on the wave climate in this area. The hydrodynamic numerical modelling within this area showed only minor changes in tidal currents so is unlikely to result in any changes to the current coastal processes operating within the bay. Therefore, the conclusion was reached by Richard Reinen-Hamill that the proposed eastern reclamation would not have significant effects on existing coastal processes.

The creation and maintaining of the bird roost will provide both shelter to the existing spit and potentially additional sand supply over time as described in Section 2.3.6 of the Coastal Process Assessment (CPA) report. This will have the potential benefit of reducing landward movement of the spit but will be unlikely to address erosion issues on the left bank of the creek outlet where private property erosion concerns have been raised.

The monitoring proposed of the intertidal and subtidal areas includes all of Marsden Bay and this should include the access channel to Marsden Cove, as well as the Bird Roost and outlet and edges of Blacksmith Creek as set out in the draft monitoring conditions and the CPA report. This information should be included in regular reporting to the consent authority. Decisions on actions required will depend on the outcomes of the monitoring.