

Report No:	RESC12-06-08
File No:	
Date:	20 May 2012
<i>Information Only – no decision required</i>	

REPORT SUMMARY

Report to: Engineering Services Committee
Meeting Date: 7 June 2012
Report Author: Sarah Downs – Transportation Planning Officer
Subject: Port Motueka– Jackett Island Erosion Project

EXECUTIVE SUMMARY

The purpose of this report is to provide information on the assessment and refinement of practicable options to manage the erosion experienced along the seaward edge of Jackett Island. An update on the interim works on the Van Dyke property and the Port Motueka Groyne removal is also provided along with details of expenditure on the Jackett Island Erosion Project to date.

RECOMMENDATION/S

Staff recommend that the Engineering Services Committee receives this report.

DRAFT RESOLUTION

THAT the Engineering Services Committee receives the Port Motueka – Jackett Island Erosion Project report, RESC 12-06-08.

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Subject: Port Motueka Groyne – Jakkett Island Erosion Project

1. Purpose

- 1.1 The purpose of this report is to provide information on:
- The assessment of practicable options to manage the erosion experienced along the seaward edge of Jakkett island, progressing options previously identified in the Preliminary Practicable Options Report;
 - Ongoing consultation with stakeholders;
 - Progress with the removal of the Port Motueka Groyne;
 - Maintenance of the geotextile sand bag wall on the Van Dyke property; and
 - An update on project expenditure to date.

2. Background and Assessment of Practicable Options

- 2.1 The issues arising from this project stem from the Environment Court Interim Decision (ENV-2010-WLG-00080&81) in the matter between the Van Dyke Family Trust and the Tasman District Council issued in March 2011. The Court found that the placement of the Port Motueka geotextile groyne on the Motueka sand spit by the Council in 1996 has led to the formation of the spit in its present form which in turn, has brought about the erosion on Jakkett Island.
- 2.2 At its meeting on 15 September 2011 the Committee received a report on the Port Motueka Groyne and Jakkett Island Erosion Project and approved the definition of the project problems and objectives.
- 2.3 At its meeting on 8 December 2011 the Committee accepted the nine preliminary practicable options for the project as a basis for stakeholder consultation.
- 2.4 At its meeting on 15 March 2012 the Committee accepted the Draft Practicable Options Report which included ongoing assessment work by Richard Reinen-Hamill of Tonkin & Taylor Ltd.
- 2.5 The report set out the practical physical works options associated either with a new accessible navigation channel or modifications to the distal end of the spit and transfer of sand to rebuild the Jakkett Island shoreline. The aim of the

option development is to refine potential physical works options to model and identify opportunities and constraints of the options.

- 2.6 Richard Reinen-Hamill discussed the assessment approach and modelling of options with the following technical experts: Professor Bob Kirk (retained by the Van Dyke Family Trust); Gary Teear, Ocel Consultants (retained by the Port Motueka Users Group); and Ron Heath an independent interested party.
- 2.7 After the experts meeting on 14 March 2012 it was agreed that the modelling process would be calibrated. This was expected to be completed by the end of April 2012. The Practicable Options Report was finalised.
- 2.8 Modelling options on a new accessible navigation channel were defined and agreed upon by the technical experts. Calibration of the modelling has been reviewed and final verification check are being made and is expected to be completed by the end of May 2012 and the modelling of the potential physical works options to follow. A report on the modelled options is due at the end of June 2012.
- 2.9 Other non-physical works options such as those identified in the Preliminary Practicable Options Report are not included in this modelling assessment, but need to remain as reviewable options to evaluate against any developed physical works options.

3. Stakeholder Consultations

- 3.1 Staff met with the Tiakina te Taiao Board on 21 May 2012. The Board indicated that they would like to be kept informed of any preferred option.
- 3.2 A page has been established on the Council website providing the community with information including a timeline on the project.
- 3.3 A newsletter has been distributed to stakeholders.
- 3.4 Collaboration will continue with the Van Dyke Family Trust and the other experts on the practicable long term solution to erosion on Jackett Island.

4. Groyne Removal

- 4.1 Resource consent for the full removal of the groyne was granted on 12 March 2012. Conditions of the consent stipulated that the groyne had to be removed in full between May and August 2012.

- 4.2 Staff decided to award a short form contract to Taylor's Contracting. Taylor's are currently working on locating a work site on the spit in conjunction with the Department of Conservation. Philip Drummond is acting as the Engineer's representative to the Contract.
- 4.3 Work was expected to commence on 21 May 2012. Staff have envisioned that a range of methods for the extraction of the groyne may be required as it is covered in large quantities of sand in some locations and in deep water in others. The short form contract was felt to be the most economic in these circumstances.

5. Maintenance of the Geotextile Sand Bag Wall

- 5.1 The extra geotextile sand bags have now been filled and placed for storage on the Van Dyke property. There are forty in total. Six of these bags have been utilised to build up the level of the geotextile sand bag wall on the return at the southern end.
- 5.2 The remaining forty empty bags are in storage and if they are not utilised, Council is in a position to be able to return them.
- 5.3 The repairs to the geotextile sand bag which were made in April 2012, have to date been excellent in "holding the line".

6. Project Costs

- 6.1 Costs for this project from 1 July 2011 to date currently total \$828,072.
- 6.2 Further costs are still to come this financial year including the completion of practicable option investigations and reporting; stakeholder consultations; the removal of the existing groyne; ongoing maintenance of the interim works and monitoring.
- 6.3 The Environment Court resolution of the further additional costs claimed by the Van Dyke Family Trust totalling \$252,197 will be discussed at a Court-assisted mediation meeting set for 31 July 2012.

7. Timeline/Next Steps

- 7.1 Staff will continue to progress work towards reporting back to Council and intend to report on a preferred option to the July Engineering Services Committee meeting.

- 7.2 Staff will investigate the need for a cost:benefit economic analysis on any preferred option.
- 7.3 Staff will continue to consult with stakeholder groups as the practicable option assessment works becomes more developed.
- 7.4 Staff will report back to the Environment Court on progress against the programme previously submitted.
- 7.5 A report is being prepared by Tonkin and Taylor outlining and summarising the technical advice given to date on the interim sand bag works.

8. Draft Resolution

- 8.1 THAT the Engineering Services Committee receives the Port Motueka – Jakkett Island Erosion Project report, RESC12-06-08.**

Appendices:

Appendix 1 – Jakkett Island Erosion Study – Progress Report May 2012.