

**Minutes for Meeting of the Sounds Advisory Group  
held at the Marlborough District Council, Committee Room on  
Monday, 19 June 2023 commencing at 10.00 am**

**Present:** Clr Faulls, Clr Innes, Clr Minehan, Monyeen Wedge (Queen Charlotte Sound), Ross Withell (Kenepuru & Central Sounds), Vic Koller (Moetapu Bay), Eric Jorgensen (Sustainable Seas), Wayne Boustridge (Te Whanganui/Port Underwood), Rawinia Puna (French Pass), Dick Kearlsey (Cissy Bay), Tim Greenhough (Okiwi Bay), Lynley Perkins (Central Pelorus/Te Hoiere)

**Attending via Teams:** Poneke Rene (Rangitoto ki te Tonga/D'Urville Island), Emma Hopkinson-Young (Outer Pelorus/Te Hoiere), Linda Booth (Duncan Bay), and Ned Wells (MFA).

**MDC Staff Attending:** Oliver Wade (Environmental Scientist), Katie Littlewood (Principal Coastal Scientist), Alan Johnson (Environmental Science & Monitoring Manager), Captain Jake Oliver (Harbourmaster), James Mills-Kelly (Land Resource Officer), Dave Parsons, (Senior Advisor, Community Resilience) and Gary Spence (Emergency Services Officer), Neil Henry (Project Manager Marlborough Sounds Access Study) and Bernadette Brooklands (Secretary).

**1. Welcome and Introductions.**

Clr Faulls welcomed members to the hui and Rawinia Puna performed the opening karakia.

**Apologies –**

Vikki Ambrose and Jodi Milne (MPI), Dr John Cretney (Cissy Bay), Clr Burgess, Dave Hayes (DOC), George Shallcrass (Chair, Top of The South Wood Council), Steve Murrin (Marlborough Roads), Sylvie Filipo (Environmental Manager, Te Ātiawa Manawhenua Ki Te Tau Ihu Trust), Shon Emerson (Kaiuma Bay) and Hara Adams (Kaihautū - Manager Māori Partnerships).

**2. Confirmation of minutes 20 March 2023 –** previously emailed to members.

The minutes of 20 March 2023 were taken as read.  
Clr Faulls moved / Seconded Ross Withell. Carried

**3. Actions from the previous meeting.**

Action	Person Responsible	Outcome
1 Clr Faulls and FENZ to liaise with Linda Booth regarding communications in event of an emergency.	Darren Crawford (FENZ)/Clr Faulls	Completed Clr Faulls to follow up with Steve Trigg (Community Risk Manager, Marlborough)
2 Portage update (ongoing item)	Clr Faulls	Ongoing item. Written item due from MDC Environmental Protection Team. Clr Faulls to get written update & email to the group.
3 Can DOC, and Rata Foundation can speak with MfE to work cohesively for pest control.	Clr Faulls	Completed. See <b>Appendix 1</b>
4 Provide Vic with name of person to speak to about the possum traps.	Clr Faulls	Completed
5 Invite Mike Aviss and James Mills-Kelly from MDC to speak on suitable plantings that the communities could plant to help with the effects of erosion from the rain.	MDC	Completed. James Mills- Kelly presented at the 19 June hui.
6 Arrange a meeting with farmers and landowners for James Mills-Kelly to speak on hillside erosion.	Clr Faulls	Completed. Dates booked in.
7 Presentation on the Restoration Project.	Oliver Wade and Eric Jorgenson	Completed. Oliver & Eric presented at the 19 June hui
8 Speak to Ned Wells from MFA if fisheries can be involved in the Sounds Advisory Group.	Eric Jorgenson/Ned Wells	Ongoing. Eric Jorgensen to speak with Ned Wells about commercial fishery involvement rather than Fisheries.
9 Enquire with Fisheries if the commercial divers have a licensed quota for taking sea cucumbers from Lochmara Bay.	Clr Faulls	Completed. Information attached as <b>Appendix 2</b>
10 Provide Wayne Boustridge with the Emergency Management Centre contact to assist with a contingency plan.	Clr Faulls	Completed. Wayne advised this is going well.
11 Invite Dave Parsons and Gary Spence from the Emergency Operations Centre to our next meeting to speak contingency plans.	Clr Faulls	Completed. Presented at the 19 June hui.
12 Ask Waka Kotahi if they can make a clear statement in their next newsletter regarding yellow stickered homes and truck access.	Clr Faulls	Completed. Written comment received "Just confirming, this is for properties along the Kenepuru Road specifically? I'm sure that Steve would be considering this to be an essential service and assuming the trucks fit within the current restrictions then it won't be an issue. I'll follow up with the comms team".
13 Why do all over length vehicles on the Mahakipawa hill need a pilot vehicle when over length vehicles carting gravel for roading work do not?	Clr Faulls/Steve Murrin	Completed. Written response received – "I would say that this is due to some people not following the rules. If people can let us know some details around the company and/or rego number when they see this happening we can follow it up."

#### 4. Navigational Bylaw Review and Channel Dredging (Captain Jake Oliver, Harbourmaster) – See Appendix 3

- Captain Oliver presented his PowerPoint on the Navigational Bylaw.
- The Navigation Bylaw opened on 15 June and closes 1 October. See link for Council website to have your say  
<https://www.marlborough.govt.nz/your-council/have-your-say-consultations>  
<https://haveyoursay.marlborough.govt.nz/information-management/navigation-bylaw/>

- From the MDC website:

The Marlborough District Council (Council) is proposing to replace its 2009 Navigation Bylaw. Under the Maritime Transport Act 1994 (MTA), the Council has the authority to regulate ports, harbours, waters and maritime-related activities in the Marlborough region.

Under section 33M of the MTA, the Council has the power to make bylaws for the purpose of ensuring maritime safety in the region.

In 2010 the Council adopted the Navigation Bylaw 2009 which covered all areas in Marlborough within the specified harbour limits. That bylaw came into force on 1 July 2010.

Our Proposal

We are proposing that we replace the Navigation Bylaw 2009 with the [Proposed Draft Bylaw \(PDF, 2.6MB\)](#)

We want to replace the Navigation Bylaw 2009 to maintain a similar bylaw to the 2009 Bylaw, but with minor amendments to address key issues (ahead of a broader review process) and improve the clarity of the Bylaw.

Have your say -

The views of people who live, work and play in Marlborough are important. Council would like your feedback on the proposed changes and proposed new bylaws. **Anyone can make a submission. Your submission can support or oppose the proposals.**

#### Questions/Answers

- Monyeen Wedge asked if the fees and charges could be used to employ more people?
  - Captain Oliver advised it would be a Council decision, not a Harbours decision.
- Eric Jorgensen asked why jet skis can be registered but not a vessel?
  - Captain Oliver advised that the registration number on the jet skis are kept in the jet ski register, however under the Navigational Bylaw, boats are not required to be registered but only to be named.
- Vic Koller asked about the mussel boats in Mahau Sound that create loud engine noise and what can be done about this.
  - Captain Oliver advised that commercial boats may not have a noise emittance restriction. **Action Point** for Captain Oliver to investigate if boats are required to have a limited decimal level.
- Vic Koller also asked if the boats in Pelorus Sound need a wake restriction like the ferries?
  - **Action Point** Captain Oliver will enquire with Oliver Wade, MDC Nautical Scientist.
- Linda Booth asked regarding incorporating water ski lanes, how will this be monitored, and will these only be allocated via Resource Consents?
  - **Action Point** for Captain Oliver to enquire if Worlds End is a legal ski lane.
  - After the hui, Captain Oliver noted that he is still enquiring into the ski lane, however, nothing from the Bylaw states that ski lanes are permitted under the maritime rules and the Harbourmaster regulates the use of the lanes not the creation of them. When ski lanes are in effect it is the only activity permitted in them, however if the ski lane is not being used for the intended purpose, then other activities can take place.

- It was asked how the material from dredging would be disposed of?
  - Captain Oliver advised it would be a mix of land disposal and marine disposal.

Attendance: Clr Innes joined the hui at 10:51 am

Attendance: Captain Jake Oliver left the hui at 11.00 am

## 5. **Response and Community Planning** (Dave Parsons and Gary Spence, Emergency Management Operations Center) – see **Appendix 4**

- Dave Parsons and Gary Spence introduced themselves and outlined their roles within the emergency management team and presented their PowerPoint on Response and Community Planning.
- The emergency coordination center is a level 4 building which means it can run off its own power, water and sewage systems with a store of food so they can still operate during an event.
- The NZ RT20 are an accredited Response Team that are able to be deployed nationally.
- Dave Parsons attended the recent cyclone in Auckland and Hawkes Bay as a member of RT20.
- A resilience study is currently underway for Marlborough focusing on community resilience towards major risks such as flooding/storms/Alpine Fault risk/earthquakes.
- Carbon dating of sediments shows when a major earthquake is due to occur. There is a 75% chance of a major shake within the next 50 years.
- Tsunami: Look for natural signs and not rely on sirens. There are no sirens in the Marlborough area however, there is a phone warning system that could be activated. If there has been a long **or** strong earthquake self-evacuate to higher ground immediately. A tsunami may not be a large wave but could be a strong and high tidal surge. You can view the Tsunami Inundation map on Council website here <https://smartmaps.marlborough.govt.nz/>
- See MDC website for more information <https://www.marlborough.govt.nz/civil-defence-emergency-management/an-emergency-how-well-inform-you>

How you will be informed in an emergency -

Listen to the radio for updates and warnings. If you don't have power, use a battery powered radio, a car radio or listen in online.

**RNZ National** 567 AM or 101.7 FM

**Newstalk ZB** 92.1 FM

**Radio Live** 95.3 FM Blenheim and 92.3 FM Picton

**The Hits** 96.9 FM Blenheim and 89.1 FM Picton

**More FM** 92.9 FM Blenheim and 94.7 FM Picton

**The Breeze** 89.7 FM Blenheim and 98.7 FM Picton

**Brian FM** Marlborough Emergency Management can broadcast live on Brian FM in an emergency:

- 100.9FM - Blenheim
- 104.3FM - Seddon & Awatere Valley
- 105.9FM - Picton
- 100.1FM - Havelock

They can also broadcast on maritime radio on Channels 63 and 65.

**Emergency mobile alerts:** if you receive an emergency mobile alert, stop what you're doing and follow the instructions. Not all phones are capable of receiving alerts, so if you receive one, let others know. If you do not, there are lots of other ways to stay informed during an emergency. [www.civildefence.govt.nz](http://www.civildefence.govt.nz)

Get informed. Use MetService to stay on top of the best advice about the weather. Go to Geonet for geological hazard information for New Zealand.

[Go to the MetService website](#)

[Go to the Geonet website](#)

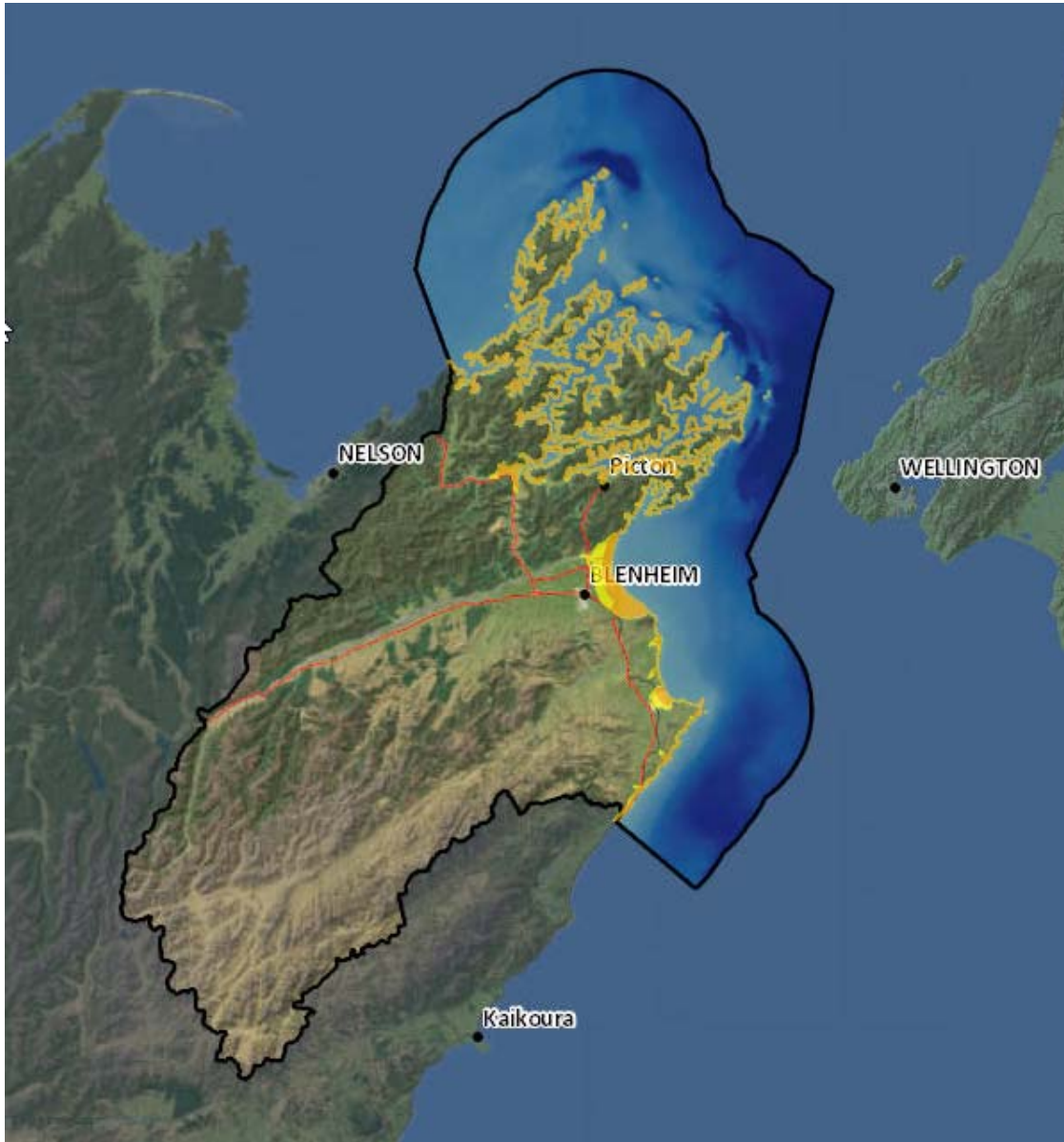


Figure 1: Tsunami Inundation map from MDC Website.

### Questions/Answers

- Cllr Minehan had a question from his communities which was if people have been displaced, can they go to the local community hall? It was agreed that yes, go to a community center which will act as an emergency hub till further help comes.
- Linda Booth advised that there are many areas in the Sounds that do not have a hall or a church such as Duncan Bay. It was advised that in those areas it may come down to the locals supporting each other in a house that is not damaged until assistance can arrive.

Attendance: Gary Spence and Dave Parsons left the hui at 12.00 noon

**6. Marlborough Sounds Future Access Study** (Neil Henry, Project Manager Marlborough Sounds Access Study - MDC)

A series of Community Drop In days have been arranged for late June as part of the engagement process for the Marlborough Sounds Future Access Study. We will be sharing the preferred options that were discussed at the Governance Advisory Group meeting in late April. For those that are based in Nelson, note that we will be holding an event there on 27 June. For those further afield, we will be holding an online meeting on 26 June.

From 16 June see the Council website here: <https://www.marlborough.govt.nz/services/roads-and-transport/marlborough-sounds-future-access-study>

The engagement period, closes at 5.00 pm on 11 July. People can provide feedback on the options considered in the study, in particular the 'emerging preferred options' and 'hazard adaptation pathways'. At the sessions, people can pick up the printed versions of the engagement booklet and ask the project team questions.

The engagement documents and survey are now live on the [project website](#)

The documents are:

- The engagement booklet and two videos which outline the emerging preferred options and hazard adaptation pathways, and their estimated costs.
- The other options booklet, which provides details about the other options considered by the project team.
- Geology assessments.
- An economic analysis.
- The strategic case.

<b>Tuesday 20 June</b>	5.00 pm – 7.00 pm	Blenheim, Landsdowne Park Sports Hub
<b>Wednesday 21 June</b>	10.00 am – 12.00 pm	Waitaria Bay Hall
<b>Thursday 22 June</b>	10.00 am – 12.00 pm	French Pass Hall
<b>Friday 23 June</b>	2.00 pm – 4.00 pm	Linkwater Hall
<b>Monday 26 June</b>	10.00 am – 12.00 pm 5.30 pm – 7.30 pm	Rai Valley, The Millers Rest Zoom online call <a href="https://us06web.zoom.us/j/83594599876[CW]PA1">https://us06web.zoom.us/j/83594599876[CW]PA1</a>
<b>Tuesday 27 June</b>	3.00 pm – 5.00 pm	Nelson, Trafalgar Centre Northern Extension
<b>Wednesday 28 June</b>	12.00 pm – 2.00 pm	Picton, Port Marlborough Pavilion

**Questions/Answers**

- Monyeen Wedge from Lochmara Bay asked what the rating impact of the Sounds Access Study preferred options would be for the Sounds Admin Rating Area, as it has a lower weighting for roading than other rating areas in Marlborough.
  - After the meeting Neil Henry spoke to Martin Fletcher, MDC Chief Financial Officer and



provided the following update:

Mr Fletcher indicated that it would be a quarter of the rate for the other rating areas. Therefore, for the example in the engagement document:

**Land** value (not property value) - \$300,000

Rating impact – 71% FAR = \$53 per annum; 51% FAR = \$75 per annum; 0% FAR = \$130.75 per annum.

**Land** value (not property value) - \$5,000,000

Rating impact – 71% FAR = \$888 per annum, 51% FAR = \$1,251 per annum; 0% FAR = \$2,178 per annum.

People can find the land values of their property on the Council website:

[www.marlborough.govt.nz/services/rates/rates-search](http://www.marlborough.govt.nz/services/rates/rates-search)

- Dick Kearlsey asked if trucks are paying the road user charges and an extra fee for bringing logs in and out from the Sounds? **Action point** noted that Clr Faulls will enquire with Marlborough Roads.

#### 7. TOR and Member Travel Expenses (Clr Faulls)

- A discussion was held on TOR and travel expenses for members who travel long distances to the meetings. This was discussed at the last hui and the feeling is that there needs to be a review of volunteer/payment policy and potentially a reset at Long Term Plan time.

#### Questions/Answers

- Eric Jorgensen felt that Council needs to revise their community group reimburse practices as members attend these meetings to provide their expert opinions and advice on behalf of their community.
- **Action Point** noted that Clr Faulls and Alan Johnson will speak with Dean Heiford regarding TOR.
- Clr Faulls and Alan Johnson thanked members for their input into creating the TOR.

#### 8. Portage (Clr Faulls)

- Council is aware of the issue and the matter is under an active investigation, due to this it cannot be discussed further at this stage.

#### 9. The 3 Waters (Written update from MDC Chief Executive, Mark Wheeler)

- The four Entity model has become a ten-entity model -  
MDC is now part of a Te Tau Ihu Entity with Tasman and Nelson. There has been no change to our boundary i.e Ngai Tahu Takiwa boundary for South Marlborough but expectation that Te Tau Ihu entity will manage the Marlborough area within that Takiwa boundary.
- Implementation has been given flexibility out to 1 July 2026 -  
Te Tau Ihu staff are talking to the DIA National Transition Unit to get work underway on the operational set up of the new entity .It is expected Te Tau Ihu could be operational by 1 July 2025.
- The delay in implementation means any electoral change and possible reform of the proposal ( e.g. National repealing it and giving Councils wider options) will not mean operational planning by Councils is totally wasted and will be minimal anyway pre-election.
- The Te Tau Ihu Entity will give MDC a seat on the Regional Representative Group. We may not have had this representation if the 4-entity model had stayed in place. There is very little (mainly technical only) other change in the new system.

Attendance: Oliver Wade and Katie Littlewood joined the hui at 12.40 pm

A short break was taken for lunch with the hui recommencing at 1.00 pm.

**10. Hill Country Erosion Programme** (James Mills-Kelly, MDC Land Resource Officer) – See **Appendix 5**

- James presented his PowerPoint on the Hill Country Erosion Programme.

**Questions/Answers**

- It was asked if three rotations of pines is too much.
  - James advised that this was extremely context-specific and outside his area of expertise. He noted that where pines were planted in an area with risk of erosion during harvest or extreme weather events assistance is available to look at retirement options.
- Monyeen Wedge asked if planting willows is a good idea in the Sounds area?
  - James advised that willows and poplars should not be planted near waterways in the Sounds where spreading into sensitive environments is a possibility. There are different species of both poplar and willow, some are less likely to present a spreading risk than others, and some are not recommended for planting in the Sounds. These trees are suitable for erosion prone farmland where grazing pressure will limit suckering, and male non-seeding clones should be used.

**11. Restoration by Design Presentations** (Oliver Wade – MDC Environmental Scientist, Katie Littlewood MDC Principal Coastal Scientist) and **Blue Cod Sustainability Review and Shellfish Restoration** (Eric Jorgensen) - See **Appendix 6**

- Oliver introduced Katie Littlewood who will be Oliver's replacement for the next 12 months. You can contact Katie at [Katie.Littlewood@marlborough.govt.nz](mailto:Katie.Littlewood@marlborough.govt.nz)
- On the 27 September further hui's will be held around the Ships Cove area on the Horse Mussel Restoration Project.
- Eric noted that if you handle your live fish with a wet towel, this will damage the fish's membrane and can cause infections in the scales. Using wet hands is the best way to handle a fish.
- September to December is closed fishing for Blue Cod as this is their spawning time.

**Questions/Answers**

- It was asked if there is a similar model to the Blue Cod model in other areas of the country.
  - It was noted that there is a similar model in Hawkes Bay.
- Monyeen Wedge asked if the female Blue Cod could be kept in a marine protection area.
  - There are numerous marine protected areas, however due to the migratory patterns, it is difficult to keep them in a secluded area.
- Clr Innes asked why fishing stores do not sell just soft bait and not hooks?
  - It was noted that there is no law against this.
    - Rawinia Puna noted that it would be good for the restoration group to speak to Iwi to gain traction on this issue.

**12. MFA Update** (Ned Wells)

- Awaiting the outcome of Variation 1.
- SFFF funding for research in the Pelorus for mussel beds that the MFA developed three years ago.
- King Shag population being monitored due to a decrease in numbers.

Attendance: Ned Wells left the hui 2.39 pm

**13. DOC Update** (Dave Hayes)- Apology



#### 14. **Marlborough Roads** (Steve Murrin)

Steve Murrin an apology today, however provided the following written update –

- Culvert replacement works will be finished on Kenepuru Road by the middle of next week.
- Seal and pothole repairs on Kenepuru are underway.
- Hydroseeding of a number of damaged sites will be completed over the next few weeks. Gravel road maintenance continues.
- French Pass Road - Maintenance on unsealed roads continues on French Pass Road following completion of Te Towaka Port Ligar Road.
- Road realignment at Fitzroy Bay is now completed.
- Queen Charlotte Drive - Repair works at Havelock Causeway are now complete. Hydroseeding is underway. Further geotechnical investigations are about to commence on some of the damaged sites.

#### 15. **MPI UPDATE –**

Vikki Ambrose an apology for today's hui, however Vikki Ambrose provided the following written report.

##### **Marlborough Sounds Blue Cod Technical Group - (Vikki Ambrose – Senior Analyst Coastal Planning – Inshore Fisheries South)**

The group has met three times and compiled much of the available background information.

Draft issues identified are as follows:

1. Fishing pressure – Especially seasonal causing serial/multiple capture of sub-MLS cod in the inner Sounds. F (mortality from fishing) is over three times the target. The fishery is based on six and seven year-old cod while Blue Cod live for over 30 years.
2. Population structure – Populations 70-80% male: length and age structure are truncated, and both are very low; spawning females are few in number and of small size. Few female cod are over the minimum legal size of 33 cm.
3. Release mortality – Hook and handling mortality, predation of released fish, up to 80% of cod caught are released.
4. Habitat degradation – Restricted to effects of fishing, benthic impacts on sensitive habitat, both juvenile and adult.
5. Larval and egg distribution- Is there any reaching the inner Sounds; are there any suitable larval settlement habitats?
6. Shift of effort to Rangitoto ki te Tonga and Takapourewa – These areas are suspected as the source of larval and adult immigrants to the inner Sounds populations. Increase in effort in outer Sounds from recreational fishers and commercial fishers.
7. Management change causes shift of effort – Unintended consequences.

The group has identified a major issue is sedimentation which has the potential to negate management actions. This issue is beyond the control of fisheries legislation and is, therefore, of significant concern to the group. The group will most likely reach out to MDC, DoC and forestry for mitigation of this serious problem which is affecting the whole marine ecosystem within the Sounds.

Attendance: 3.12 pm Oliver Wade and Katie Littlewood left the hui.

#### 16. **Sounds Representatives Updates**

- **Rangitoto ki te Tonga/D'Urville Island** (Poneke Rene)
  - New mail shed has been installed.
  - Roading issues ongoing.
  - The AGM is being held next week.

- **Kenepuru & Central Sounds Residents Association (KCSRA) – (Ross Withell)**
  - Potholes are being repaired.
  - The coin skip will be back up and running in about three weeks and the Portage skip bin will continue.
- **Sustainable Seas (Eric Jorgensen)**
  - Nil further to add.
- **Moetapu Residents Association (Mahau Sound Outward Bound) (Vic Koller)**
  - Pest control ongoing. Some funding provided however the community need to raise \$5000 to get this completed.
  - Great mahi with 100 traps borrowed from and set by a Koromiko couple to catch the possums in the Moetapu Bay area.
- **Queen Charlotte Residents Association (Monyeen Wedge)**
  - Deer numbers reduced.
  - Appears to be a number of juvenile Wilding Pines growing in the bay.
- **Te Whanganui/ Port Underwood Residents Association (Wayne Boustridge)**
  - Wayne Boustridge has been working with the Emergency Management Center to develop contingency plans for future weather events in the Te Whanganui/Port Underwood area.
- **Top of The South Wood Council (George Shallcrass) - Apology**
- **Te Aumiti/French Pass (Rawinia Puna)**
  - Spread of pest plants such as wattles when roadside cutting has been done and when pines fall down.
  - Cllr Faulls to ask the Compliance Section about the new pine plantings in Cissy Bay.  
**Action Point noted.**
- **Duncan Bay Residents Association (Linda Booth)**
  - Linda provided the following written update –
  - There is a cell site up and running in the bays now which has given us a slightly better service as long as there is power, and I believe the network connecting to the cell phone tower is via Fibre Optic Cable which runs between Havelock and Okiwi Bay. Should this cable get damaged anywhere along the line then all cell communications within this area is cut along with any landline telephone and internet which is also feed via that cable, therefore again leaving a large percentage of the area without any coverage.
- **Outer Pelorus (Emma Hopkinson-Young) – Nil**
- **Central Pelorus (Hopewell) (Lynley Perkins)**
  - The local community were disappointed to no longer have skip bins provided and are prepared to have a user pays system as the nearest skip bin is at Portage (over one hours drive each way).
  - Lynley has contacted Steve Murrin questioning when the Kenepuru Road from Waitaria Bay to Hopewell will be gravelled and that the trucks transporting gravel from the Heads to Ellie/Craill/Hopai Bay are damaging the road. Locals are hoping for a closer gravel source by revisiting the quarry at the top of the Craill Bay hill.
  - Many locals are having Starlink installed as the Spark network has become unreliable and appears to be overloaded. Starlink costs \$159 per month for unlimited high-speed internet and there is currently a special for rural installation of \$199.

- Cellphone coverage is poor so looking forward to Starlink and One bringing in the new system.
- Thanks to the Council, and Waka Kotahi for extending the water taxi and barge subsidy. This is such a help for people running businesses in the area.
- Ungulate issues with animals coming down and eating people's gardens.
- **Okiwi Bay** (Tim Greenhough)
  - Updated the water system at a cost of \$100 thousand dollars. There are approximately 200 households on the scheme.
    - Clr Faulls enquired with Council prior to the hui regarding funding assistance for small community water schemes to implement the new measures required under Taumata Arowai.
    - Stephen Rooney from Council advised that the following was announced last year, however he expects there will be thresholds which have to be met to gain this funding. <https://www.beehive.govt.nz/release/government-supports-better-drinking-water-rural-k%C4%81inga-and-communities>
    - John Cretney from Cissy Bay noted via email after the hui that if qualifying as a very small community (VSC) scheme for under 25 people the costs are minimal. Basically, two water tests per year or about \$120. If however, a scheme needs upgrading or if the size of the scheme necessitates installation of water treatment that's a quite different story with significant costs involved.
- **Cissy Bay**
  - Attended by Dick Kearsley as Mr Cretney is on leave.
- **Kaiuma Bay** (Shon Emerson)
  - Prior the hui, Mr Emerson enquired with Council stating the Kaiuma Bay Community would like to know what the future of rubbish collection and or wheelie bins/skip bins looks like for our Bay.
    - Dr Alec McNeil, MDC Solid Waste Manager advised that the Kaiuma Bay residents will be able to continue to use the Havelock TS as no changes are being considered for this site.
  - Mr Emerson also advised that they have officially instigated a community association and now will have the Kaiuma Bay Residents Association (KBRA). Raelene Gilchrist can pass on any further information on behalf of our community.
- **Te Ātiawa Manawhenua Ki Te Tau Ihu Trust** (Sylvie Filipo) – Apology

## 17. General Business

- 2023 Meetings from 10.00 am till .300 pm.
  1. Monday 28 August – MDC Committee Room.
  2. Monday 27 November (Please note that this date has been changed from the 20 November due to another Council meeting being held on this day). Location TBC.

- **The Speed Management Plan Consultation** opened on the 13 June and closes on 11 July.

See here for details <https://haveyoursay.marlborough.govt.nz/roads/speed-management-plan-consultation/>

With the introduction of the national road safety strategy Road to Zero, the way speed management is being done throughout New Zealand is changing. This means that decisions on speed management are now able to be made at a local level.

As part of the Land Transport Rule: Setting of Speed Limits 2022, all Councils in New Zealand are required to prepare speed management plans to consider how implementing safety infrastructure and speed limits can make our roads safer.

There being no further general business, the meeting closed at 3.15pm.

Matters Arising	Action	Person Responsible
1	Clr Faulls to follow up with Steve Trigg (Community Risk Manager, Marlborough)	Clr Faulls
2	Portage update (ongoing item). Written item due from MDC Environmental Protection Team. Clr Faulls to email update to members.	Clr Faulls
3	Eric to speak with Ned Wells from MFA about commercial fishery involvement rather than Fisheries.	Eric Jorgensen/Ned Wells
4	Are boats required to have a limited decimal level.	Captain Oliver
5	Do boats in the Pelorus Sound need a wake restriction like the ferries.	Captain Oliver/Oliver Wade
6	Regarding incorporating water ski lanes, how will this be monitored and will these only be allocated via Resource Consents. Captain Oliver to enquire if Worlds End is a legal ski lane.  After the hui, Captain Oliver noted that he is still enquiring into the ski lane, however, nothing from the Bylaw states that ski lanes are permitted under the maritime rules and the Harbourmaster regulates the use of the lanes not the creation of them. When ski lanes are in effect it is the only activity permitted in them, however if the ski lane is not being used for the intended purpose, then other activities can take place.	Captain Oliver
7	Are trucks are paying the road user charges and an extra fee for bringing logs in and out.	Clr Faulls/Marlborough Roads
8	Enquire with the Compliance Section about the new pine plantings in Cissy Bay.	Clr Faulls
9	Clr Faulls and Alan Johnson will speak with Dean Heiford regarding TOR.	Clr Faulls/Alan Johnson
10	Invite Katie Littlewood from the Nautical Science team to speak on her previous work in the North Island.	Clr Faulls/Alan Johnson

## **Appendix 1 - Update from DOC on the Rata Foundation**

“DOC does have a working relationship with Rata. They came to us a few years ago and asked for help in assessing bids for conservation type work and often have discussions about where priorities for conservation work sit. In essence, DOC is an advisor.

We have also provided letters of support for projects at a local level, e.g. MSRT wilding work where we also provided a boat and personnel to discuss a project at Maraetai Bay – this ended up getting Rata funding for three years.

Te Hoiere would be an example of MfE and DOC contributing to shared outcomes. Another eg. Is the Moawhiti wetland restoration of D'Urville Island.

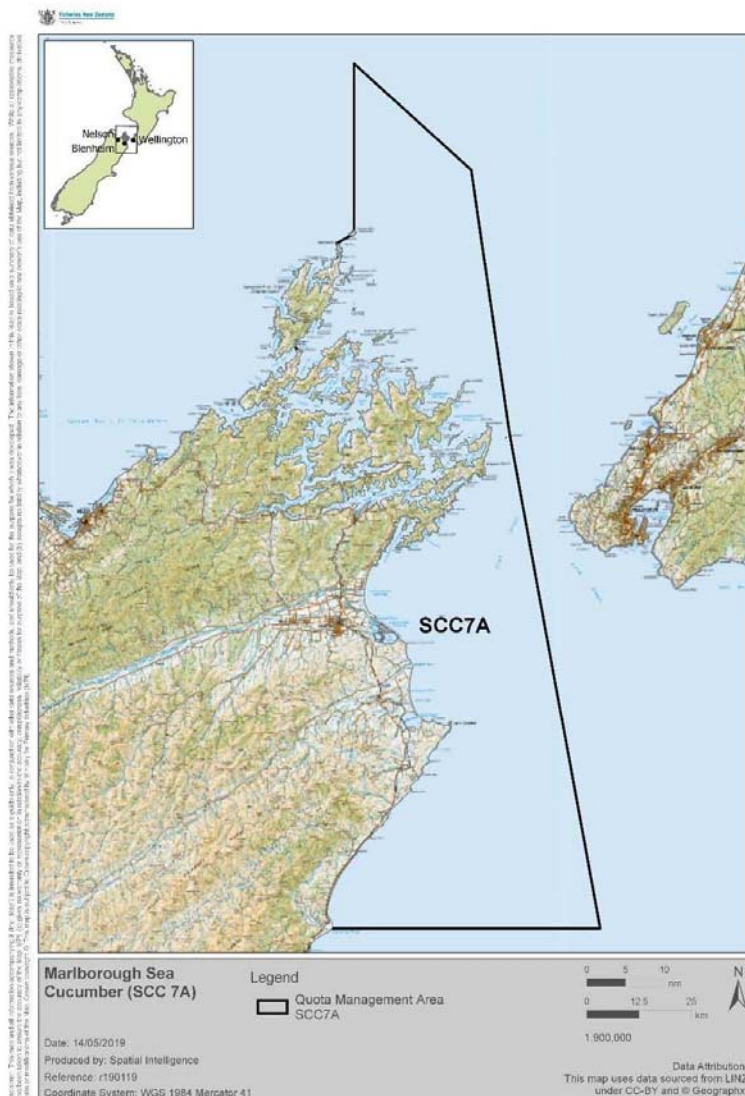
The opportunities come when there is an alignment of desired outcomes. As you say, Rata has their criteria for funding and they don't actually run the projects.

Rata and MfE don't fund DOC and so the opportunity for all three agencies to work together depends on there being another party, eg. A community group.

For pest control, the main players out there are the likes of MPI, Predator Free NZ, DOC and Councils.”

## Appendix 2 – Sea Cucumbers (Jodi Milne – MPI)

### Sea Cucumber (SCC 7A) Catch Spreading Plan:- 1 April 2020 to 31 March 2021[DRAFT] – provided by MPI



#### **Pre-amble**

As a consequence of the SCC 7A TAC review in 2019, the Minister of Fisheries added a condition which required a catch spreading plan for the fishery and hand gathering as the only method to be used in the Marlborough Sounds component of the fishery.

In fulfilling this requirement, Fisheries New Zealand has facilitated the development of this draft 2020 iteration of the fishing plan, noting that, each year, the plan will need to be reviewed as new research and other information becomes available.

To assist with the adherence to this plan, 80% of quota holders (so far) have agreed to condition annual catch entitlement (ACE) sales agreements such that fishers agree to fish in accordance with the plan.



## **2020 Fishing Year (April 2020 – March 2021)**

### ***How the catch will be spread***

Quota holders and fishers who wish to hold annual catch entitlement (ACE) have agreed that catch will be capped across subareas within the fishery to assist in spreading catch. The estimates of maximum amounts to be taken from each area are as follows;

Pelorus Entrance (Cape Jackson to Chetwode)	3.0t
Eastern D'Urville Island (Admiralty Bay to Rangitoto Island)	2.0t
Pelorus Sound	4.0t
Queen Charlotte Sound	4.0t
Port Underwood	0.5t
Tory Channel	1.5t

These caps have been revised, based on the exploratory fishing over the 2019-20 fishing year, however this information is still incomplete. Further adjustments may need to be considered and incorporated into this plan.

The Cook Strait (Cape Komaru to Rarangi) proved too difficult to safely access and has been incorporated into the Cape Komaru to the Clarence River component of the fishery.

Fishers report bycatches of sea cucumbers from trawls in Cloudy and Clifford Bays and there is also the area from Cape Campbell to the Clarence River. The potential contribution to the fishery from these areas is unknown. These areas will be open to exploratory fishing. With increasing knowledge of the fishery, these allocations will continue to be improved and refined.

### ***Handgathering***

The method of harvest within the Marlborough Sounds will be hand-gathering by diving. In practise, this means populations at depths greater than 15 m will not be harvested, due to the limitations imposed by decompression times required when operating at greater depths.

*Comment:- This will retain undisturbed spawning aggregations within the fishery.*

### ***Minimum size***

Fishers have agreed to implement a voluntary minimum size of 14 cm. This will help ensure that no area or bay is "fished out".

*Comment:- In future, data on population size structures may let us know the proportion of individuals that would remain in a fished area.*

### ***Spawning Season Closure***

From experience, commercial fishers report an improved understanding of the spawning habits of Marlborough sea cucumber.

Hence, for the current fishing year, April 2020 to March 2021, they propose a voluntary closed period for SCC 7A from 1st December 2020 to 31 January 2021, as this appears to be the main spawning time for sea cucumber in the Marlborough Sounds.

This would be subject to any unforeseen closures relating to Covid-19 which may change fishing strategies.

### ***Catch Monitoring***

Implementation of electronic reporting this year will include position recording in real time. Further, catch monitoring by way of ACE tracker for each month last season was successful and proved very useful.

It is proposed to continue with the ACE tracker system for the current year.

### ***Annual Review***

In the medium term, it is proposed to have an annual review of the previous year's fishing. This review will include how well monitoring is operating, adherence to the fishing plan, concerns or

complaints from stakeholders or residents, and whether improvements or changes to the plan are required.

Notwithstanding, a review may be held at anytime should stakeholders raise concerns that Fisheries New Zealand considers require a review.

# Navigation Bylaw Review

## Background

- The Navigation Bylaw is one of the methods used to regulate shipping and activities on the water.
- The bylaw contains rules relating to maritime and navigation safety.

## Process

- Navigation bylaws are used around the Country as an effective means of addressing issues with boats and ships.
- Given that the current bylaw was completed in 2010, and the last review was conducted in 2017.
- It is time for the bylaw to be revisited.

## Maritime Transport Act

- Section 33M of the Maritime Transport Act enables Regional Councils to make navigation bylaws to assist with “ensuring maritime safety in its region”.

## Section 33M

- a. regulate and control the use or management of ships:
- b. regulate the placing and maintenance of moorings and maritime facilities:
- c. prevent nuisances arising from the use of ships and seaplanes:
- d. prevent nuisances arising from the actions of persons and things on or in the water:
- e. reserve the use of any waters for specified persons, ships, or seaplanes:
- f. in relation to boat races, swimming races, or similar events,—
  - i. prohibit or regulate the use of ships:
  - ii. regulate, or authorise the organisers of an event to regulate, the admission of persons to specified areas:
- g. regulate and control the use of anchorages:
- h. prescribe ship traffic separation and management schemes:
- i. specify requirements for the carriage and use of personal flotation devices and buoyancy aids on pleasure craft:
- j. require the marking and identification of personal water craft.

## Changes Proposed

- Correcting information for Picton Harbour Radio.
- Incorporating water ski access lanes not currently recognised in the bylaw schedule.
- Updating fees and charges.
- Minor editing changes for consistency and readability.

## Further work

- It is likely that during the consultation process that further issues will arise.
- Owing to the length of time since the bylaw was last looked at, it is recommended to roll over the current bylaw in its current form with the minor amendments.

## Further work - Amendments

- Addressing the management of commercial shipping within the Marlborough Sounds.
- Carriage and wearing of lifejackets.
- Carriage of means of communications.
- Registration of personal watercraft.
- Carriage of AIS (Automatic Identification Systems).





## Havelock Channel

- Havelock Channel was surveyed by multi-beam circa 2020.
- Spot sounding surveyed in late 2022 in response to reports of significant changes to the channel depths.
- Currently calculating volumes of material to determine potentials for dredging.



## Emergency Management

It is a statutory requirement for councils to

*“plan for, respond to and recover from an emergency event”*

- 1) A local authority must plan and provide for civil defence emergency management response within its district and provide suitably trained and competent personnel
- 2) A local authority must ensure that it is able to function to the fullest possible extent, even though this may be at a reduced level, during and after an emergency.
- 3) A Local Authority must, when requested, assist other Groups / Areas in an emergency response if they are able to.







Our role in an emergency is to coordinate the involvement of all responding agencies and emergency services or act as a support agency



We manage or support other agencies in a response

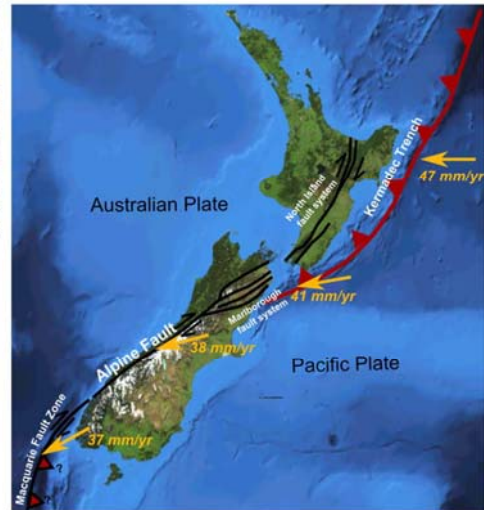




# Earthquake



Scientists say there is a 75% chance the Alpine Fault will rupture within the next 50 years. But we are equally concerned about the Hikurangi subduction zone

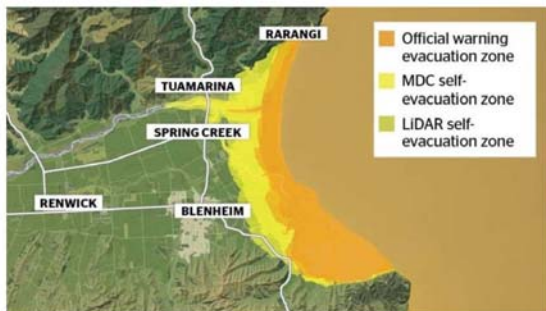


## A tsunami may follow an earthquake



### Tsunami alerting :

Obey the natural warnings. If there is an earthquake and you are near the coast, move to higher ground or inland as soon as possible.



Tsunami inundation mapping is on the MDC website



## Tsunami travel times from origin, to NZ

Distant – Sth American Coast 13 to 14 hrs    Regional – Pacific Island 3 hrs    Local – Cook Strait region.....Minutes !



# SEVERE WEATHER ALERT



One thing is for certain...this will happen again. Have you thought about what you might do ?



# Wildfire

These fire can be extremely destructive and unpredictable.

If you are near to a fire you may become affected by fumes or smoke.

If you have respiratory concerns you may need to evacuate.

Have a plan on what you will do







### Any response starts with good intelligence.

In any emergency, whether predicted or not we are always information poor. We need to develop a full impact picture and this can take some time. Information needs to be validated, triaged and prioritised. It will then enable us to prioritise the appropriate amount of resources to the most effected and accessible areas.

Information will come from :  
Emergency services  
Response Teams  
Repair crews or contractors  
Members of the public







**MARLBOROUGH DISTRICT COUNCIL**

With funding support from  
**Te Uru Rākau**  
Forestry New Zealand

# Marlborough Hill Country Erosion Programme

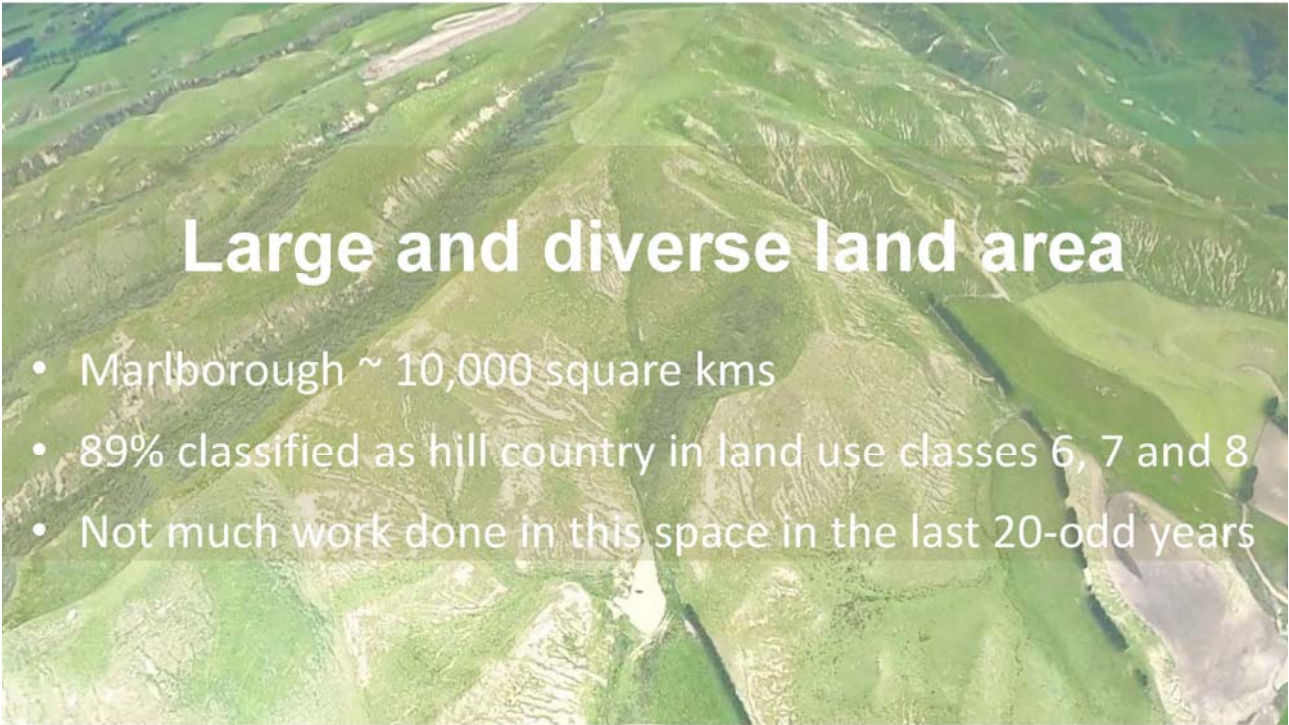
**James Mills-Kelly**  
Land Resources Advisor  
Land and Water Team



WHCEF works with landowners of pastoral and forestry land to identify and map erosion-prone land and produce Erosion Control Plans (ECPs). Mitigation works to address erosion may be subsidised by the fund.

- Prevent the loss of topsoil and reduce sediment entering waterways
- Provide assistance and funding support to landowners on pastoral and forestry land





## Large and diverse land area

- Marlborough ~ 10,000 square kms
- 89% classified as hill country in land use classes 6, 7 and 8
- Not much work done in this space in the last 20-odd years



### North Marlborough

2.5m annual rainfall  
Flash flow catchments lots of heavy  
rainfall events

Vs



### South Marlborough

350mm-600mm annual rainfall  
open-pan evaporation  
rate well in excess of 1m





## Tools in the Toolbox

- Produce Erosion Control Plans (ECPs)
- Retirement fencing
- Assisted Native Reversion
- Space planting
  - Poplar and willow
  - Oaks (trial)
  - Totara (trial)
- Tree Guards
- Forestry retirement plans for sites with high risk of erosion

### *Grant mechanics:*

A general split of one third covered by MPI, once third covered by MDC, and one third covered by the landowner

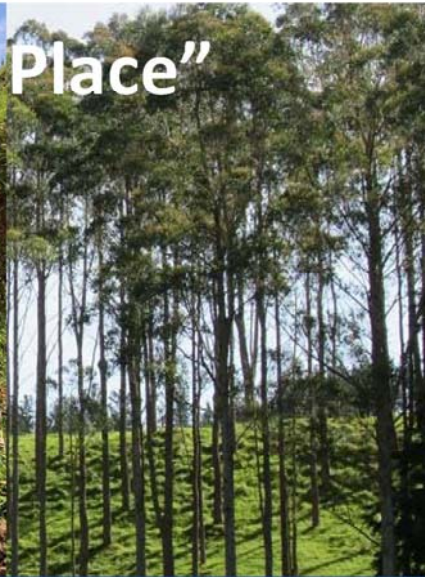


## The Process

- Farm visit, drive around have a conversation
- I map erosion prone areas, soil types etc.
- We make a plan for interventions and sign an agreement
- No application process, no forms, no covenants etc.



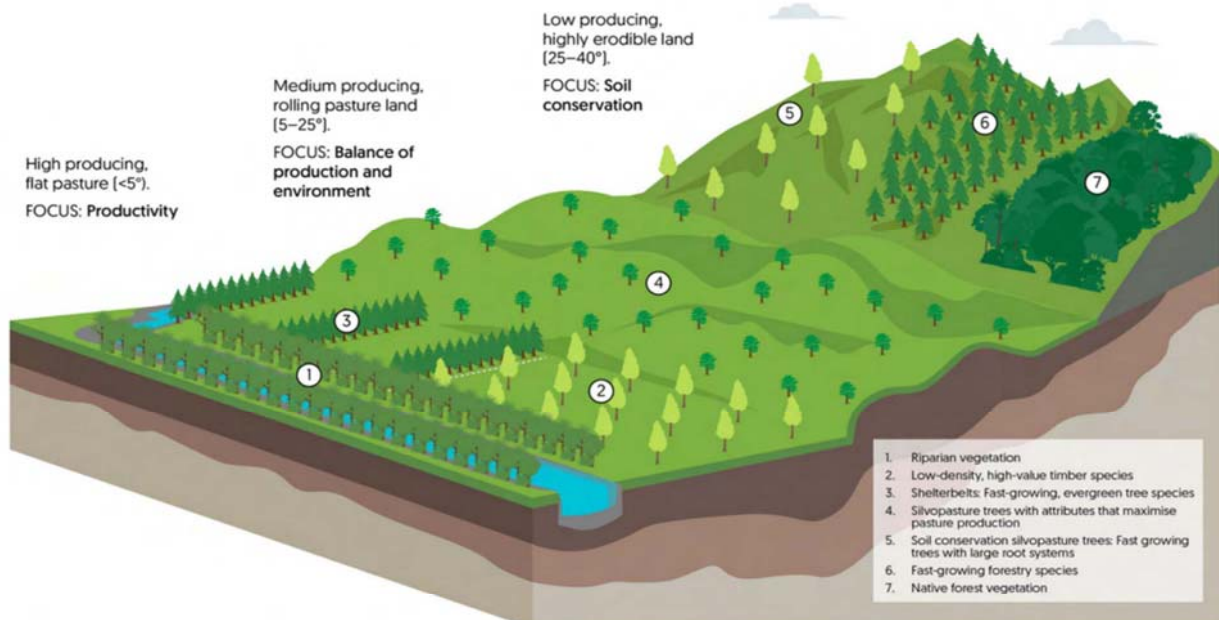
# “Right Tree Right Place”



Redwood and alder plantings for North Marlborough

Natives on retired sites where appropriate

Dryland Eucalypt plantings for South Marlborough



Silvopasture – a graphic representation of an ideal landscape.





“Big things from small beginnings”

a 34-month-old Veronese poplar root system

## Outcomes and Milestones

*How we're tracking:*

Continuing to grow the project as awareness grows

Significant positive response from landowners about the supportive, collaborative nature of the project

## Implementation

40 ha of space planted poplar and willow poles, 241 ha of retirement / reversion, and 39 ha of native plantings across the five years

Support for iwi-owned forestry in the Marlborough Sounds developing management plans for high-risk sites











Activity	Marlborough's HCEF Assistance	Additional information
Poplar poles + GST and delivery	Poles for \$5/pole. (Normal retail – \$13.50/pole)  Free protective sleeves. (Normal retail price \$9.50)	Poles are 3 metres long, or as requested
Erosion Control Planning	Free	To assess the physical characteristics of the land, to help landowners understand the related erosion risks of the land and to make sustainable land use decisions.
Forestry Retirement Management Plans	By arrangement, depending on size, complexity ect.	
Reversion/ Retirement Fencing	Up to \$12 per metre.	Payment on inspection. Typically 8-wire post with droppers/battens (negotiable). Stock must be permanently excluded. Any gates must have gudgeon pins and be wired / chained shut.
Native planting within Reversion/Retirement land	Provide up to \$1500 per hectare.	Payment on inspection.
Exotic tree species	Oak, sequoia, tagasaste and eucalypt spp.	Context specific – Discuss with your Land Resources Advisor

Note: Memorandums of Understanding or contract agreements will be required for projects

<https://www.poplarandwillow.org.nz/documents/planting-poplars-willows-successful-planting>  
<https://www.poplarandwillow.org.nz/documents/Trees-for-the-Farm-Booklet.pdf>  
<https://www.poplarandwillow.org.nz/documents/brochure-5-poplars-for-the-farm.pdf>  
<https://www.poplarandwillow.org.nz/documents/brochure-1-willows-for-the-farm.pdf>  
<https://www.poplarandwillow.org.nz/documents/growing-poplar-and-willow-trees-on-farms.pdf>  
[https://www.youtube.com/watch?v=laXQlPpR\\_I0I&list=PLNFVgb4v\\_GD\\_i2yo5Mnxj4SgCEE33Rs1V](https://www.youtube.com/watch?v=laXQlPpR_I0I&list=PLNFVgb4v_GD_i2yo5Mnxj4SgCEE33Rs1V)  
[https://www.youtube.com/playlist?list=PLNFVgb4v\\_GD90Mqz\\_g2-jiO3kMtfKiBfG](https://www.youtube.com/playlist?list=PLNFVgb4v_GD90Mqz_g2-jiO3kMtfKiBfG)  
<https://www.poplarandwillow.org.nz/documents/planting-poplars-willows-successful-planting>  
[https://www.marlborough.govt.nz/repository/libraries/id:2ifzri1o01cxbymxkvwz/hierarchy/documents/environment/biodiversity/north-marlborough-planting-and-restoration-guide-list/D%20North Marlborough Introduction and Planting Restoration Part%204.pdf](https://www.marlborough.govt.nz/repository/libraries/id:2ifzri1o01cxbymxkvwz/hierarchy/documents/environment/biodiversity/north-marlborough-planting-and-restoration-guide-list/D%20North%20Marlborough%20Introduction%20and%20Planting%20Restoration%20Part%204.pdf)  
<https://www.doc.govt.nz/globalassets/documents/conservation/native-plants/nelson-marlborough/ecological-restoration/north-marlborough/planting-list-inner-sounds.pdf>



You might be thinking:

*“I live in the Sounds – Can you help me?”*

...Possibly, give me a call or an email!

Contact me:

James Mills-Kelly

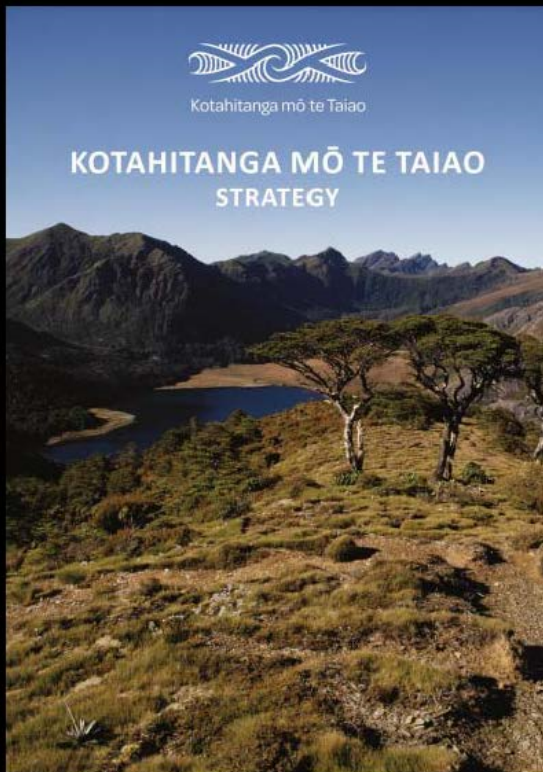
027 388 9303

[James.mills-Kelly@marlborough.govt.nz](mailto:James.mills-Kelly@marlborough.govt.nz)





## The Nature Conservancy Restoration by Design process



### *Our shared future: Marlborough Sounds*

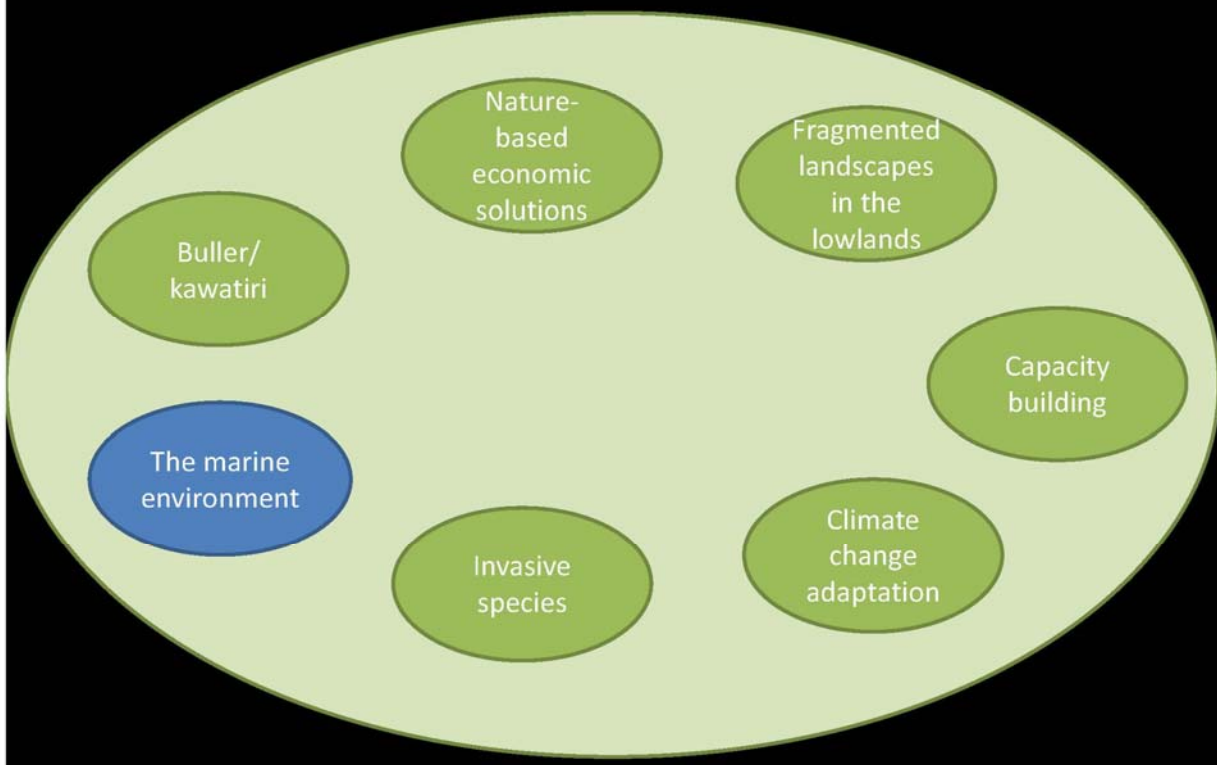
*"We are able to enjoy locally harvested scallops, oysters, mussels, pipi and cockles, swim in clear water, hear bird call echo around the islands. There has been landscape-scale return of native forest and unique ecosystems across the Sounds. Most of the islands of the Sounds and many peninsulas are free of introduced pests and weeds. Landowners across the area are actively supporting restoration and communities' benefit from this participation. Seabirds and unique species of plants and animals have re-established in these areas. Marine living habitats such as rhodolith beds, mussel reefs, bryozoan corals, and tubeworm mounds have recovered over a wide area. Seabed and estuarine ecologies are naturally functioning across large areas. The rivers run clear and land-use practices ensure soil is retained on the land. Through ecotourism our local communities are proud to share this thriving relationship with the rest of the world."*

## Goal of Restoration by Design Process

By end of June 2023, across all of the workstreams, come up with a suite of **prioritised investment ready proposals to enable amplification, elevation, transformation, increased leverage, and cross-boundary activities** to achieve the Kotahitanga mō te Taiao Strategy

- The number of proposals is not determined as it depends on process
- Does not preclude (in fact encourages) working across workstreams
- Will consider what activity already exists (strategies and projects) and seek to incorporate those where appropriate and where they can add best impact
- Should not be limited by existing frameworks, budgets
- Will use an internationally-proven process to foster well prioritised decision making
- It is **NOT** an attempt to provide all the answers for all of the issues, it is to determine prioritised actions
- Is not a statutory process – despite having statutory agencies involved.

## Restoration by Design domains

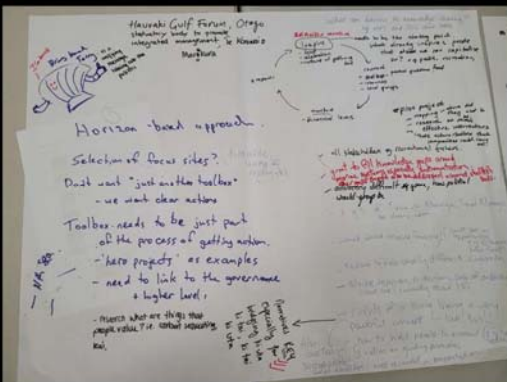
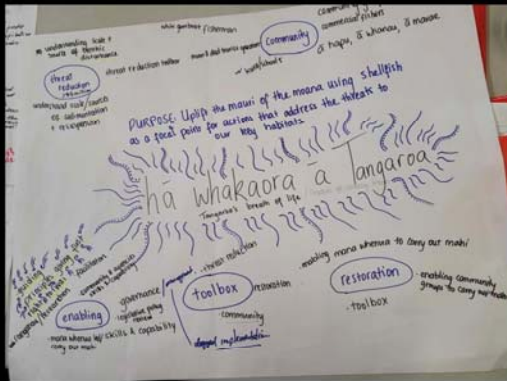




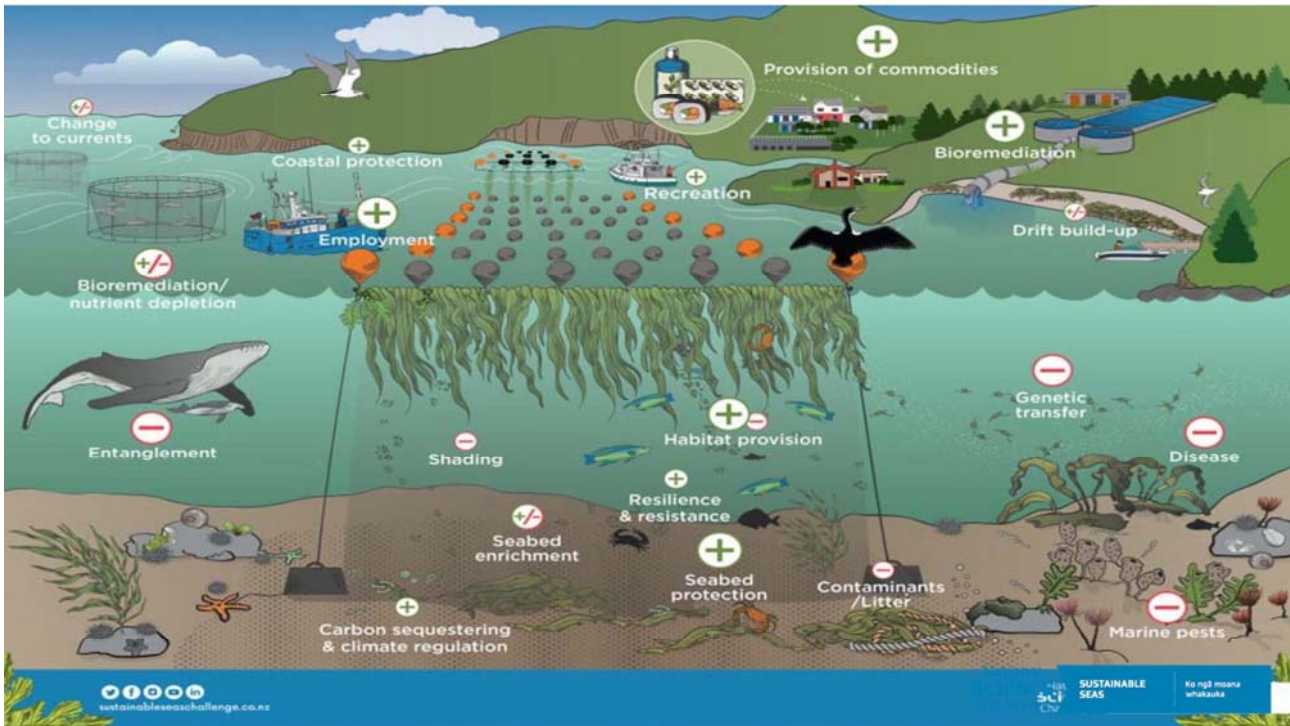
# Marine environment Restoration by Design process



## Marine Environment Strategies (aka. Projects)



# Sustainable Seas – Marlborough Sounds Shellfish Restoration





IN 2019–2024, WE HAVE:

**35**   
**PROJECTS**

all have been co-developed  
with Māori partners  
and/or stakeholders 

**18** ARE LED OR  
CO-LED BY MĀORI

**186**   
**RESEARCHERS**

from **65** organisations  
across  
Aotearoa

**61** IDENTIFY AS MĀORI  
**41** ARE EARLY CAREER RESEARCHERS\*

\*postgraduates, and those in first 5 years following postgraduate

SCIENCE SUSTAINABLE SEAS Ko ngā meara whakauka

## Background:

- July 2020 in Waiharakeke, workshop to identify options and focus for an Ecosystem-based Management (EBM) case study.
- Sub-group was formed to develop a project proposal, based upon workshop discussion and outcomes.
- Workshop in July 2021 to discuss and finalise proposal.
- Outcome; sub-group to prepare proposal to attract funding from the Sustainable Seas National Science Challenge.
- In February 2022, proposal accepted and funded by the Challenge.

National SCIENCE Challenges SUSTAINABLE SEAS Ko ngā meara whakauka

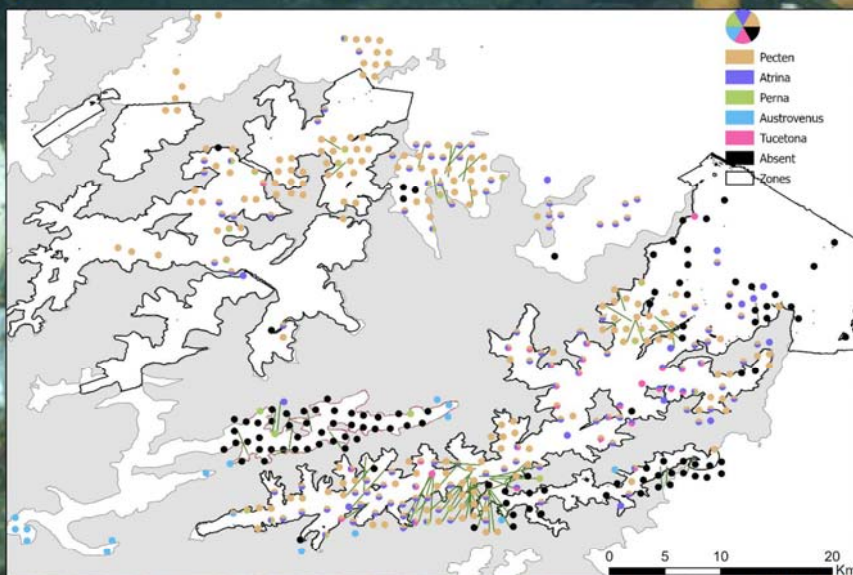


## The Case Study Objective(s):

Develop method for shellfish-ecosystem evaluation and management. Produce decision support tool (interactive (and updatable) mapping product) to visualise current state – and state of knowledge - of shellfish and their habitats to assist prioritisation of EBM activities and future restoration efforts

- Aim 1: Integrate existing information to map current knowledge of shellfish and their habitats in Marlborough Sounds
- Aim 2 Predictive distribution modelling of shellfish and shellfish habitat.
- Aim 3 Develop an ecosystem-based management plan for shellfish in the Marlborough Sounds.

## Findings to Date:





## Findings to Date:

Species with sufficient information?	Locations with sufficient information?									
	Te Hoiere/Pelorus Sound					Tōtaranui/Queen Charlotte Sound				
	Pelorus Inner	Kenepuru	Popouuru reach	Pelorus Central	Pelorus outer	QCS inner	QCS central	QCS outer	Tory Channel	Outer area
<b>Shellfish</b>										
<i>Pecten</i>	YES	x	x	x	✓	✓	✓	✓	✓	✓
<i>Atrina</i>	YES	x	x	x	✓	x	✓	✓	✓	✓
<i>Tucetona</i>	QCS*	x	x	x	x	x	✓	✓	-	x
<i>Austrovenus</i>	NO	✓	-	x	x	x	-	x	x	x
<i>Perna</i>	Kenepuru*	x	✓	x	-	x	✓	x	-	x
Sufficient environmental data?	Multibeam layers	x	x	-	✓	✓	✓	✓	✓	x
	Current velocity	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Sediment characteristics	x	x	x	x	x	✓	✓	✓	x
		NO	NO	NO*	NO*	NO*	YES	YES	YES	YES

\* data are marginal either because of low numbers of records, or lack of sediment data needed for modelling.

SUSTAINABLE SEAS  
Ko ngā moana whakauka

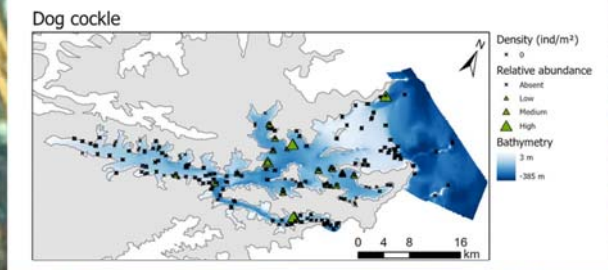
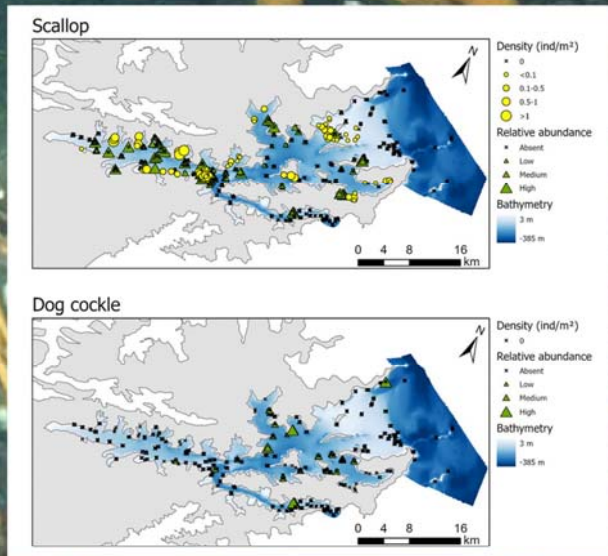
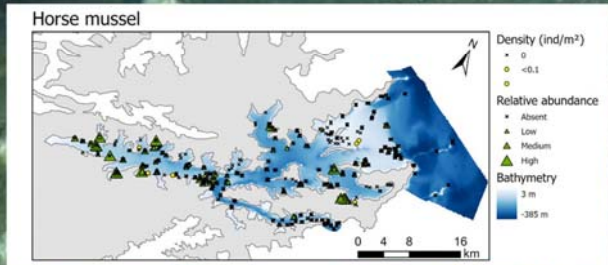
## Findings to Date:

- Based on modelling criteria (and guidance from co-development partners) we developed our distribution maps and predictive models on outer Tōtaranui and, in terms of shellfish species:

- Horse mussels, *Atrina zelandica*
- Dog cockles, *Tucetona laticostata*
- Scallops, *Pecten novaezelandiae*

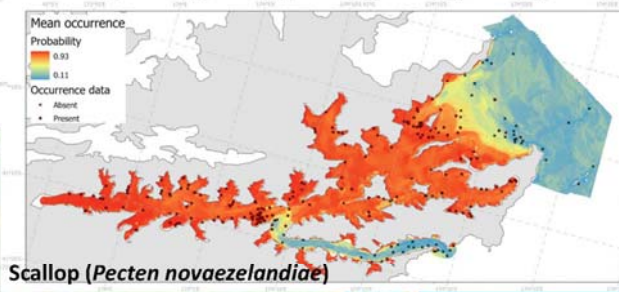
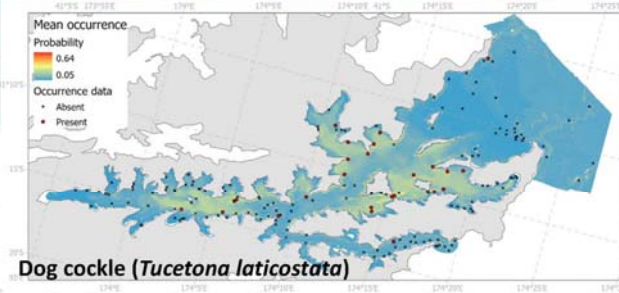
National Science Challenges  
SUSTAINABLE SEAS  
Ko ngā moana whakauka

# Findings to Date- Current distributions:



National SCIENCE Challenges SUSTAINABLE SEAS Ko ngā moana whakauka

# Findings to Date- Probability of occurrence:



National SCIENCE Challenges SUSTAINABLE SEAS Ko ngā moana whakauka



## Next Steps:

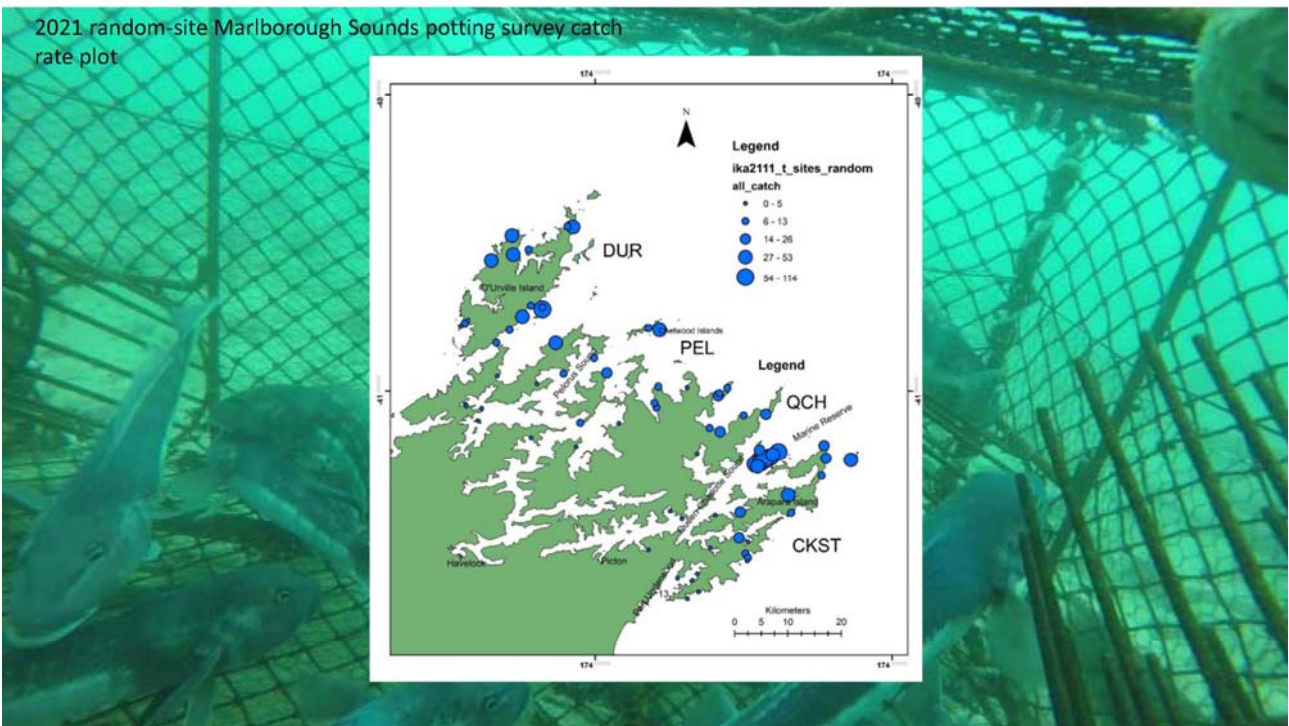
- We are now commencing with the final research aim - **Develop an ecosystem-based management plan for shellfish in the Marlborough Sounds.**
  - Korero with interested communities. This could include identifying local aspirations for shellfish recovery, and prioritising research and/or activities for shellfish restoration;
  - Explore and empirically validate our predictive models with interested communities, with a focus on the Outer Tōtaranui focal areas;
  - Prioritise Ecosystem Based Management activities and future restoration efforts within the focal areas.

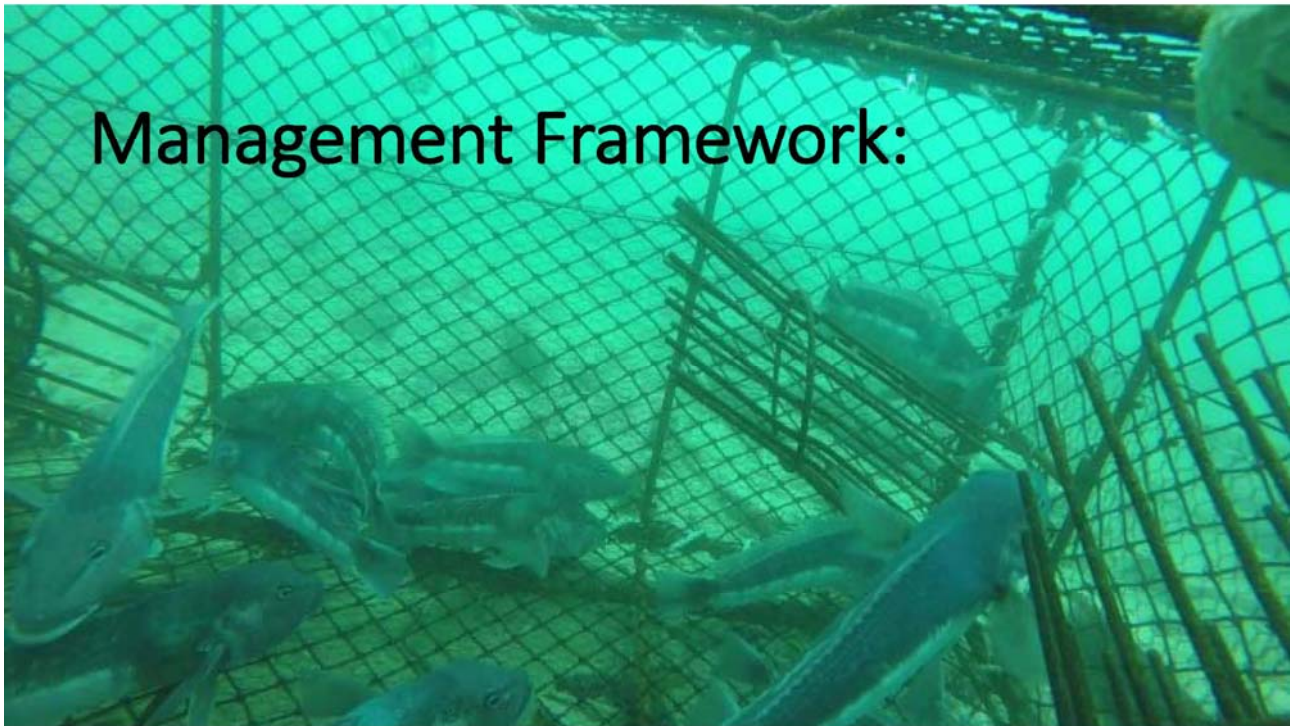
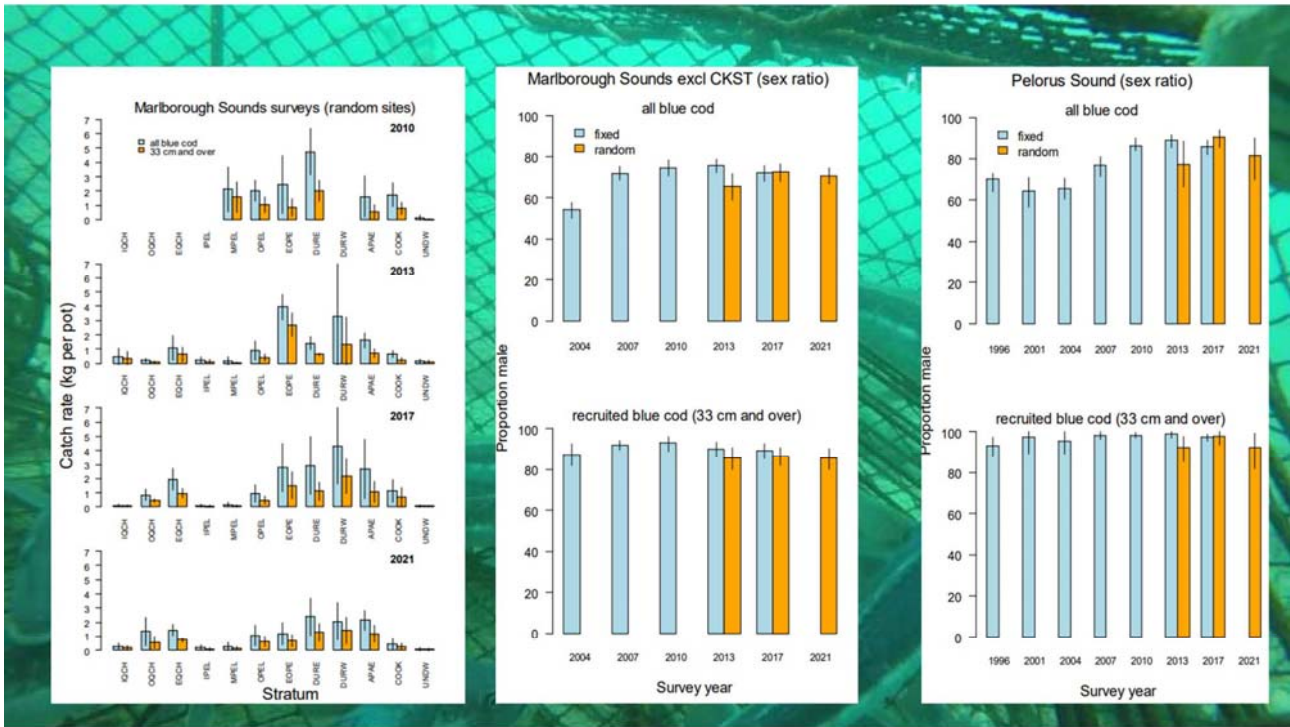


# Marlborough Sounds Blue Cod – Sustainability Review



2021 random-site Marlborough Sounds potting survey catch rate plot







# Marlborough Sounds Blue Cod Technical Group

**Purpose:**

- Support MPI in developing advice on options to reduce recreational and commercial fishing pressure on blue cod **AND** rebuild populations in the Marlborough Sounds region.

**Broad Process:**

- Review all available relevant information, with input from ‘experts’
- Identify and evaluate likely issues, drivers, options to address and information requirements to support.
- Prepare advice and options paper for Minister.
- Regulatory processes then take over...

## Enabling Legislation and Policy:

Version as at 1 November 2022



**Fisheries Act 1996**

Public Act 1996 No 88  
Date of assent 13 August 1996  
Commencement see section 1(2)–(3)



Fisheries New Zealand  
Tini a Tangaroa

**National Inshore Finfish Fisheries Plan**

October 2022



**Fisheries New Zealand**

Tini a Tangaroa

DRAFT: Guidelines for the identification of habitat of particular significance for fisheries management

*These will support taking account of section 9(c) (Environmental Principle) of the Fisheries Act 1996: Decisions under the Act in relation to the utilisation of fisheries resources or ensuring sustainability must take into account that habitat of particular significance for fisheries management should be protected*

1 Objective 1 – Get the right information

5 Objective 5 – Get buy in



2 Objective 2 – Make the right decisions

4 Objective 4 – Set the right rules

3 Objective 3 – Set and manage to the right targets



**Decision Support:**

*Davidson Environmental Limited*


Significant marine site survey and monitoring programme (survey 6): Summary report 2019-2020

Research, survey and monitoring report number 1023

**Seabed Habitat Mapping**

With mountains and valleys, canyons and plains, and ridges and reefs - the seabed is as complex as the land.

There are many different habitats in Marlborough's coastal waters. These have been formed over eons by geological processes, and by the power of tidal forces scouring out deep channels and sculpting sediment waves.

**Juvenile Blue cod - Distribution Maps (demersals per 100 m<sup>2</sup>)**

300 (day < 20 cm)

te 05 6

Beam Trawl catches  
Video counts



**BEN2021-01 Characterisation of benthic habitats and their potential as habitats of particular significance for fisheries management**

**Relative abundance, size and age structure, and stock status of blue cod from the 2021 survey in Marlborough Sounds**

New Zealand Fisheries Assessment Report 2022/39

REPORT No. 1707 January 2010

**Development Of Settlement Model For Marlborough Sounds Blue Cod (*Paraperchis colias*)**



ARTICLE  
Coastal and Marine Ecology

**Life history traits vary between geographically distinct populations in a protogynous hermaphrodite**

Stina Kolodzey | Stephen R. Wing

Department of Marine Science, University of Otago, Dunedin, New Zealand | Abstract

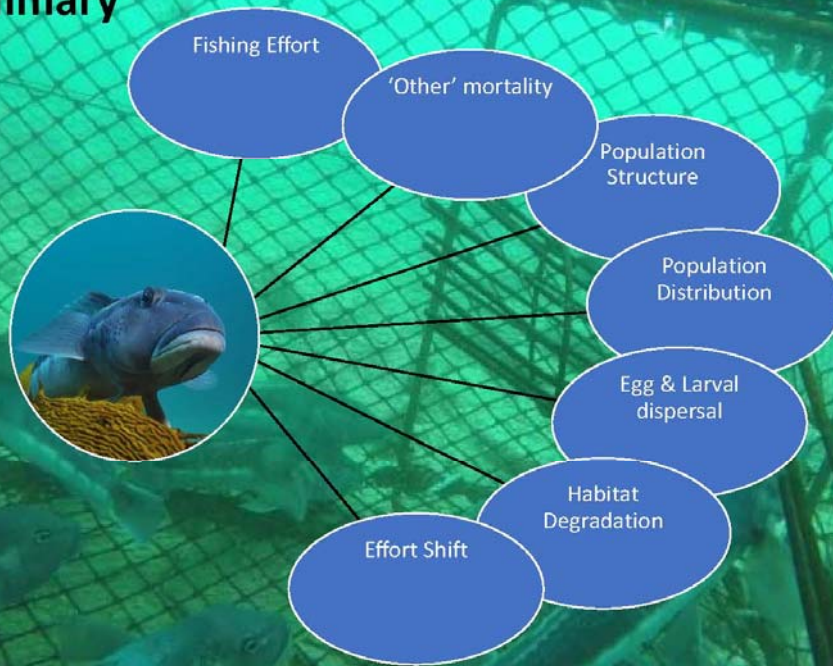


**Where we are at:**

- Reviewing information regards state of fishery (relative abundance, population structures, habitat status, activities impacting fishery) and identification of likely issues driving adverse outcomes.
- 'First-cut' identification of options to address drivers of adverse impacts on fishery and criteria to evaluate.



## Issues Summary



## Fisheries Options Evaluation:

Sorry, too early to present anything meaningful . . .