

Kenepuru & Central Sounds



Kenepuru & Central Sounds Residents Association Inc.

Annual Plan submissions
Marlborough District Council

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Andrew Caddie

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1 May 2020

Dear Sir/Madam

Submission Two - Annual Plan 2020 – Funding allocation for restarting much needed monitoring of mussel farming water column impacts on Zooplankton in the Kenepuru / Sound Clova Bay/Crail Bay areas.

This submission to the Marlborough District Council (**MDC**) on the 2020 Annual is made on behalf of the Kenepuru and Central Sounds Residents' Association.

Background

We are a voluntary community organization with scarce resources that has nevertheless, since 1991, endeavoured to represent the interests of our many members (currently around 280, mainly household, members) on a variety of local issues. Naturally our members have a keen interest in the ongoing sustainability of the marine space ecosystem making up our unique and iconic Sounds.

In a previous submission to the MDC Long Term Plan we submitted in support of funding being set aside to research and plug a concerning monitoring gap.

Namely the cumulative adverse impact on the ecosystem within the water column in enclosed densely mussel farmed bays in the likes of the Kenepuru Sound and the Beatrix Bay complex. Tragically, given the renewed interest and concern around preserving indigenous biodiversity, MDC ceased measuring and monitoring zooplankton levels in these at risk areas.

For ease of reference **we attach** that earlier reasonably detailed submission for background reference.

Discussion

In recent MDC Annual Plans we have been pleased to see a new (and long overdue) focus on environmental issues.

Following our submission last year we were disappointed Council did not allocate any funding specifically but took a modest amount of consolation from advice that the Coastal Scientist had as result been authorized to put together an application for a small amount of funding to a Central Government fund for a preliminary desk top review.

Association representatives have continued to liaise with the MDC Coastal Scientist over this application and we have been advised it has been successful. The report is, we understand, due in the next month or so.

So, a modest but useful start.

However, in anticipation of the findings of that report we now urge the Council to allocate an additional sum of money to urgently scope and progress a field based research program in this year's Annual Plan.

This funding is needed to address the technical difficulties alluded to by MDC staff around sample collection and scope empirical scientific work specifically targeted at identifying, through control site studies or otherwise, the impact of intensive mussel farming on zooplankton levels in at risk areas such as the Beatrix Basin and the Kenepuru Sound.

We submit that a sum of at least \$28,500 (Plus GST) be allocated. We suggest this sum on the assumption MDC will again seek Central Government funding and there by supplement this modest amount into a more realistic sum for the research so urgently needed..

Naturally the Association would be pleased to continue work with the Council's Coastal Scientist to help make this much needed and pressing research project happen.

Attendance at Hearing

The Associations thanks the Council for the opportunity to make submissions on the 2020 Annual Plan. The Association wishes to talk to the above submissions at the hearing.

Yours Sincerely



Andrew Caddie

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Kenepuru & Central Sounds



Kenepuru & Central Sounds Residents Association Inc.

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11 May 2018

Dear Nicole

Submission Three - LTP 2018 – Funding allocation for restarting much needed monitoring of mussel farming water column impacts on Zooplankton in the Kenepuru /Sound Clova Bay/Craile Bay areas.

This submission to the Marlborough District Council (MDC) Long Term Plan review is made on behalf of the Kenepuru and Central Sounds Residents' Association. We are a voluntary community organization with scarce resources that has nevertheless, since 1991, endeavored to represent the interests of our many members on a variety of local issues.

Background

A few years ago members became concerned at the seemingly endless tide of marine farm applications in the Kenepuru and Pelorus Sounds without regard to the varied cumulative adverse impacts on what is often referred to as a unique and iconic New Zealand environment. We decided to make a principled evidence based stand.

Consequently the Association has built up a sound knowledge and understanding of issues concerning the unsustainability of some marine farming in the Sounds. Most notably the Association has identified particularly egregious mussel farm applications and successfully opposed them at Commissioner led hearings. The Association has then participated in successfully opposing appeals to the Environment Court (and beyond) by those unsuccessful mussel farm applicants.¹

¹ *RJ Davidson Family Trust v Marlborough District Council* [2016] NZ EnvC 81, *Clearwater Mussels Limited & KJB Marine Farms Limited v Marlborough District Council* [2016] NZ EnvC 21 .

Kenepuru & Central Sounds Residents Association Inc.

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The Association has also made some ground in leading the discussion with Council, Industry and MPI on how to best identify and monitor adverse ecological effects from densely packed mussel farms in at risk bays and Sounds.

A significant development in highlighting this issue was the recent (2015) MDC commissioned biophysical Pelorus study from NIWA. The results from the NIWA modeling strongly supports the Association's concerns as to the likely disruptive biological effects of intensive mussel farming in at risk bays such as Beatrix Bay and Kenepuru Sound.

In another appeal to the Environment Court by an unsuccessful applicant for a mussel farm in Beatrix Bay the appellant saw fit to subpoena one of the lead NIWA authors of this study in order to table the model before the Court and have the author answer questions.

Naturally the Association took the opportunity to burrow into and analyse the model's outcomes, notably the cumulative adverse impact of existing mussel farms on key biological indicators in Beatrix Bay.

The NIWA witness, on oath and in a specialist court of record where cross-examination is permitted, confirmed the Associations interpretation of the NIWA models results was correct.

The Association is thus particularly concerned at the NIWA models findings that in comparing the results from scenarios of with and with out mussel farm scenarios there is a massive depletion of a very important part of the primary ecosystem – zooplankton - in densely farmed Sounds and bays such as the Kenepuru Sound.

This result has created some consternation among scientific advisers. Unfortunately their reaction has been to distance themselves from the unpalatable conclusion that mussel farming in the likes of the Kenepuru is likely exceeding safe ecological carrying capacity and a prudent precautionary approach should be looking to a reduction in farming intensity. Or at the very least no more new or extensions to existing farms till this matter is addressed by identifying the levels of zooplankton depletion that is currently occurring.

Difficulties of a technical nature have been raised around identifying and monitoring the very important zooplankton levels.

For example we note a recent report by a Technical Advisory Group convened by Council for the purpose of advising the MDC Aquaculture Working group who are looking at aquaculture issues in the context of the Marlborough Environment Plan. This report noted that the Council **has ceased zooplankton sampling** due to perceived technical difficulties, but that zooplankton may be a future indicator pending new cost effective monitoring technologies.

The Long Term Plan Consultation Document

Accordingly, the Association was very pleased to see the Mayor's press release that environmental issues would be to the fore in the Long term Plan Review. We were pleased to see some talk of budgeting for increased monitoring.

However the Association is a little disappointed that the allocation for funding for environmental monitoring does seem to not expressly address this vital, basic and known issue. Compare the express allocation of **three million dollars** allocated from Council Reserves for the multi beam survey of the seabed in the Pelorus.

We urge the Council to allocate an additional sum of money to urgently investigate a research program that address's the technical difficulties alluded to above and gives priority to empirical scientific work specifically targeted at identifying, through control site studies or otherwise, the impact of mussel farms on zooplankton levels in at risk areas such as the Beatrix Basin and the Kenepuru Sound. We submit accordingly.

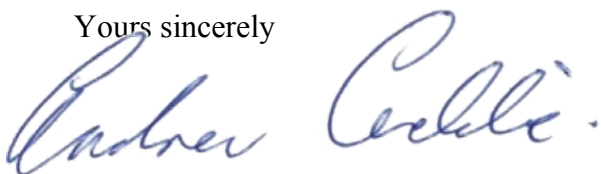
At the hearing we would be pleased to suggest ways where significant funding could easily be made available for this project. Alternatively an allocation could come from Council reserves.

Naturally the Association would be pleased to work with the Council's Coastal Scientist to help make this much needed and pressing research project happen.

Attendance at Hearing

The Associations thanks the Council for the opportunity to make this submission on the Long Term Plan. The Association wishes to talk to the above submission at the hearing.

Yours sincerely

A handwritten signature in blue ink that reads "Andrew Caddie". The signature is written in a cursive, flowing style.

Andrew Caddie
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