
Banks Peninsula Water Management Zone Joint Committee AGENDA

Notice of Meeting:

A meeting of the Banks Peninsula Water Management Zone Joint Committee will be held on:

Date: Tuesday 20 June 2017
Time: 4pm
Venue: Lyttelton Community Boardroom,
25 Canterbury Street, Lyttelton

Membership

Chairperson	Paula Smith - Community Representative
Members	Pam Richardson - Community Representative
	Andrew Turner - Deputy Mayor Christchurch City Council
	Elizabeth Cunningham - Councillor Environment Canterbury
	Ian Lloyd - Community Representative
	Kevin Simcock - Community Representative
	June Swindells - Te Hapū o Ngāti Wheke/Rapaki
	Manaia Cunningham - Te Runanga o Koukourarata
	Pere Tainui - Te Runanga o Onuku
	Claire Findlay - Community Representative
	Thomas Kulpe - Community Representative
	Charlie Zimmerman - Te Runanga o Wairewa

14 June 2017

Principal Advisor
Peter Kingsbury
Principal Advisor Natural Resources
Tel: 941 8487
Christchurch City Council

Zone Facilitator
Lesley Woudberg
Zone Facilitator
Tel: 027 706 4273
Environment Canterbury

Committee Advisor
Warren Brixton
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Tel: 941 8999
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14.	Round Table (Verbal) This is an opportunity for members to provide a verbal update to the Committee.	

1. Apologies

2. Confirmation of Previous Minutes

That the minutes of the Banks Peninsula Water Management Zone Joint Committee meeting held on [Tuesday, 16 May 2017](#) be confirmed (refer page 5).

3. Matters Arising from the Minutes

4. Deputations by Appointment

There were no deputations by appointment at the time the agenda was prepared.

5. Identification of Urgent Items

6. Identification of General Public Contributions

Banks Peninsula Water Management Zone Joint Committee OPEN MINUTES

Date: Tuesday 16 May 2017
Time: 4pm
Venue: Orton Bradley Park Visitor Centre, Charteris Bay

Present

Chairperson	Paula Smith - Community Representative
Members	Pam Richardson - Community Representative
	Elizabeth Cunningham - Councillor Environment Canterbury
	Ian Lloyd - Community Representative
	Kevin Simcock - Community Representative
	Manaia Cunningham - Te Runanga o Koukourarata
	Pere Tainui - Te Runanga o Onuku
	Claire Findlay - Community Representative
	Thomas Kulpe - Community Representative

13 June 2017

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www.ecan.govt.nz/news-and-notice/minutes/Pages/Default.aspx

Peter Ramsden opened the meeting with a Karakia.

The agenda was dealt with in the following order.

1. Apologies

The apologies of Councillor Andrew Turner, June Swindells and Manaia Cunningham were accepted.

2. Confirmation of Previous Minutes

Committee Decision

The minutes of the Banks Peninsula Water Management Zone Joint Committee meeting held on Tuesday, 18 April 2017 were confirmed, subject to the following amendments:

7. Wairewa Lake Health – The decision be amended to read

- (a) It was agreed that the information be received and
- (b) the Committee recommends that a Working Group be established to look at the lake issues and consider a way forward, including advocating for provision in council Long Term Plans, when appropriate.

12. Facilitators Update – 18 April

Whakaraupō/Lyttelton Harbour project – “\$250,000” be replaced with “\$215,000”

14. Round Table – Update from Members

Committee Refresh – The word “unfair”: be replaced by the words “badly conceived”.

3. Matters Arising from the Minutes

7. Wairewa Lake Health

The Chair is to highlight the Lake Health matter at the forthcoming City Council meeting 25 May. John Benn, representing DOC reminded members of his department’s legislative responsibility for the lake bed and its margins and that DOC wishes to be part of any discussion on possible lake interventions.

Need to make clear for everyone the governance structure.

Keep on the ZC agenda as a regular item.

11. Review of Banks Peninsula Zone Implementation Programme

Clare Findlay noted that the review of ZIP Chapters 1 and 10 was not included in the Agenda.

12 Facilitators Update – 18 April 2017

Whakaraupo/Lyttelton Harbour Project

Ian Lloyd advised that the Science Advisory Group should be ready to report on their finding to the committee next month.

4. Deputations by Appointment

There were no deputations by appointment.

5. Identification of Urgent Items

Nil.

6. Identification of General Public Contributions

The CCC Water Partnership Initiative

Clive Appleton, Christchurch City Council advised that he was here to provide details of a proposed \$1million per annum initiative in the City Council's LTP. It was primarily centred round a behaviour change programme focusing on surface water but also sustainable water use. He briefly described the inability of stormwater infrastructure to meet surface water standards required by legislation. Using infrastructure was the ambulance at the bottom of the cliff. He noted that it was better not to put contaminants into the system in the first place.

It was everyone's responsibility not to discharge contaminants into the system in the first place. To enhance the chances of such an initiative surviving the LTP process the Council needs to be confident there is community support.

He enquired whether the committee was supportive of such an initiative and whether the committee could:

- Support the initiative in principle
- Host a workshop of community groups with the Christchurch/West Melton Zone Committee

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee:

1. Support the Water Partnership in principle; and
2. Join with the Christchurch West Melton Zone Committee in hosting a meeting of community groups to gauge support for such an initiative.

7. Update from the Whakaraupo Working Group

Christina Robb, Project Manager, gave an update on progress. The Science Advisory Group is currently working on a draft of its report that it hopes to have completed by June and discuss with the community in July. The current timetable is to have a draft plan by September that is finalised in November.

The Chair requested that the Science Advisory Group give a briefing to the Zone Committee and Community Board in June before going out to the community.

Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:
Receive the report.

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the report

2. Organise with the Banks Peninsula Community Board a briefing from the Science Advisory Group.

8. Immediate Steps Biodiversity Projects February 2012 - May 2017

A report was presented to the committee on all the Immediate Steps projects funded February 2012 – May 2017.

The Chair raised the issue of fish barriers and whether some funding should target their removal.

Kevin Simcock asked whether staff had been in contact with Morgan's Gully applicants and was assured that staff had been in contact and provided advice on alternative funding sources in February and would contact the applicant again in July (ref ZC decision 14 March).

The Chair requested more copies of the Immediate Steps report (tabled) in order to present to Environment Canterbury councillors 15 June and to include a map of the location of the project sites.

Staff Recommendations Decision

That the Banks Peninsula Water Management Zone Joint Committee:

- Receive** the report; and
- Identify** ways the committee wish to celebrate the biodiversity achievements of landowners, community and the zone committee on Banks Peninsula.

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the report; and
2. Considers this item again during the Committee's June 2017 meeting.

9. The Year Ahead - 2017

There was considerable discussion on whether new "priorities" should be added. There was also the question of the ongoing Five Year Outcome projects.

Reference was made to:

Ecosystem Health and biodiversity indicators – two workshops held in 2016 identified some clear actions. Follow-up on these actions is a priority.

Drinking Water Quality – community supplies were a real risk (ref Havelock North) e.g. Tikao Water Supply – needed a contact in ECan consents to assist.

Akaroa is a major catchment, with considerable sediment problems – aim to reduce sediment using Takamatua Stream as test project. Akaroa Waste Water Disposal Scheme – this could be of national and international interest.

Farm Environment Plans represented a good way forward - focus needs to also include small landowners.

Quantifying permitted takes.

Rural road cuttings project underway – Whakaraupō.

ZIP review – a key piece of work to progress in 2017.

Investigating the effects of road discharges on freshwater systems and harbours- Whakaraupo and Akaroa.

Staff Recommendations Decision

That the Banks Peninsula Water Management Zone Joint Committee:

Receives the report; and

Agrees that in 2017 the committee will focus on

Xx by *[what action is the ZC going to do?]*

Xx by *[what action is the ZC going to do?]*

Xx by *[what action is the ZC going to do?]*

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the report; and
2. In addition to the key work for 2017 (as recorded in the 2016 Annual Report) the committee wished to add to their work priorities;
 - Akaroa Harbour – reducing sediment inputs
 - Freshwater biodiversity indicators
3. Change the 20th June meeting from the Wairewa catchment to the Whakaraupō catchment - focus Whakaraupō Catchment Management Plan, Science Advisory Group.

A dinner break was taken between 6.30pm and 7.00pm.

10. CWMS Target: Recreation and Amenity Opportunities River and Lake Swimming in the Canterbury Region

It was noted that it was not just about swimming, it was also about other forms of recreational pursuits in the water such as children playing and paddling.

Thomas Kulpe noted currently there are three sites listed on the Peninsula, Lake Forsyth/Wairewa, Okuti River at Kinloch bridge and Okana at Little River township and he wished to see many more.

Peter Ramsden voiced concern about listing sites and noted many will be significant to rūnanga.

Staff Recommendations Decision

That the Banks Peninsula Water Management Zone Joint Committee receive the report.

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the report.
2. Decide that an overarching statement recognising that all permanent streams with public access are likely to have recreation and amenity values.
3. Decide that members email Lesley Woudberg with suggested additional sites for inclusion.

4. Provide the rūnanga representatives with an opportunity to review the final list of sites and recommend their inclusion on a list or not.

11. 5 Year Outcomes - Advocates Update

Effective flood management in the Wairewa Catchment – Pam Richardson

Geoff Thompson is regularly working out of the Little River office.

In response to a question from Kevin Simcock on the progress of the bank stabilisation programme, Geoff Thompson advised that planting needs to be done June/July. Additional staff resources have been made available.

Resource Consent Monitoring – Kevin Simcock

While nationally Didymo is a problem, it is not a big issue in Banks Peninsula, the “check, clean and dry” method should deal with it. More signage could be problematic as people don’t take any notice if there are too many signs.

Compliance – No violations of “high risk” consent condition. There are few people reporting sediment issues through the 0800 Pollution Hotline. Staff respond to complaints. There is a proposal to give out information on septic tank performance. There is limited data on the effectiveness of different tanks in different environments.

Staff Recommendations Decision

That the Banks Peninsula Water Management Zone Joint Committee:

- ☐ Welcomes the updates from committee members and celebrates the progress made; ad
- ☐ Reviewed the current allocation of Outcomes between members and made the following amendments
 - o Xxx
 - o Xxx
 - o Xxx

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee welcomes the updates from committee members and celebrates the progress made.

12. Facilitators Update - 18 April

Staffing - new staff at Environment Canterbury were introduced – Olivia Smith replaces Lesley Woudberg as the Banks Peninsula facilitator. Steve Firth joins James Tricker in the ECan implementation team.

Alternative Zone Committee Refresh Process - Kevin Simcock took the opportunity to talk to his report, strongly reiterating that the process should examine the ability of existing members to be on the committee.

Joint Committee Decision

That the Banks Peninsula Water Management Zone Joint Committee:

Receives the Facilitators report.

Round Table – Update from Members

Zone Committee Meeting Attendance – Kevin Simcock suggested that members take the opportunity to attend other Zone Committee meetings as a means of learning different approaches/techniques.

Annual Report – Clare Findlay advised that staff at ECan Customer Service were not aware of the ZC's Annual Reports. Copies should be made available at City Council libraries and Service Centres once they had been presented to both City and ECan councils.

Farm Track Stream Pollution – Thomas Kulpe advised of a rural farm subdivision where the owner had constructed a farm track alongside a stream. This had led to severe pollution of the stream. Thomas believed the owner was not aware of any information related to the forming of a farm track. This was not, however, reported to the Pollution Hotline. The revised *Erosion and Sediment Tool Box* will be online next month. ECan staff are happy to talk to contractors.

Coastal Futures Group - Pam Richardson - the process of reviewing the Tonkin Taylor report has just commenced. A workshop is to be held and a report will be going to the City Council. Marine Farm Group – A meeting took place today, at which they will be talking about raising the profile of marine farming.

Environment Canterbury Strategic Direction – Elizabeth Cunningham - Councillors had a strategic day, the results of which will be published soon. Sharing information with Community Boards and improving relationships would be covered.

Committee Facilitator - Lesley Woudberg was thanked for her role as facilitator to the Committee. She would retain a relationship with the Committee, but in the capacity as the CWMS Facilitator Team Leader.

Meeting concluded at 8.10pm.

CONFIRMED THIS 20TH DAY OF JUNE 2017.

**PAULA SMITH
CHAIRPERSON**

7. Facilitators Update - June 2017

Reference: 17/624464

Contact: Lesley Woudberg Lesley.woudberg@ecan.govt.nz

027 706 4273

1. Purpose of Report

To inform the Zone Committee on actions/events/media.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the Facilitators Update

3. Report

a) Verbal update on actions from last meeting

b) Recent Events

Event	Audience	Comment – ZIP Rec
Lyttelton Port Company Dredging Hearing- begins 1 May	Canterbury community	
Farm Environment Plan Workshop 31 st May	Pigeon Bay landowners	Beef and Lamb held a workshop with landowners in Pigeon Bay to help them get started/ complete a Farm Environment Plan. The Beef and Lamb Farm Environment Plan template was amended to include the biodiversity requirements of Christchurch City Council.
ZC Annual Report Presentation to CCC 25 th May	Council	
ZC Annual Report Presentation to Ecan 15 th June	Council	

c) Upcoming Events

Event	Audience	Comment – ZIP Rec
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CWMS Targets Report 30 June	Mayoral Forum Ngāi Tahu Canterbury community	Report on progress toward CWMS targets
Zone Committee Refresh Process starts September 2017	CWMS partners Canterbury community	CWMS

d) News items (attached)

1. Lake poison warning lifted
2. Akaroa wastewater treatment project update
3. Trappers workshop well attended
4. Call for volunteers to help replant after Port Hills fire
5. Close shaving appreciated

Attachments

No.	Title	Page
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19 May 2017
Akaroa Mail

Section: General News • Classification : Suburban • Page: 7 • Item ID: 779636568

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Lake poison warning lifted

The Community and Public Health division of the Canterbury District Health Board has lifted the algal bloom health warning issued for Te Roto o Wairewa/Lake Forsyth on 18 January 2017.

Recent water testing at Te Roto o Wairewa/Lake Forsyth has shown the quantity of potentially toxic blue-green algae (anabaena) in the lake has decreased and concentrations are now below the levels that are of concern to public health.

Sampling of the lake will continue to be monitored on a monthly basis and the public will be notified if there is a risk to public health again.



Nearing completion beside the playground at Birdlings Flat is the new Birdling Flat community centre, which is on track for its official opening on the shortest day - Friday June 23.

Thursday, 8 June, 2017

Akaroa Wastewater Treatment Project Update

The Christchurch City Council recently consulted the Akaroa community on five options for upgrading the town's wastewater system.

Submissions received during consultation are now available on the Council's website at ccc.govt.nz/haveyoursay.

Of the 236 submissions received, most favoured Option 4, which involved reusing the town's treated wastewater via a non-potable 'purple pipe' network. 'Purple pipe' water would be for uses such as garden watering and car washing.

As the Council's technical staff were assessing the viability of the 'purple pipe' option, a discrepancy in flow readings was noticed. Further investigation has revealed that a flow meter has been recording inaccurate readings.

Head of Three Waters and Waste John Mackie said the readings underestimated the flow of wastewater, especially at times of low flow.

These readings were used by our consultants to estimate the land area needed for the options that involved reusing the wastewater to irrigate pasture and/or trees, and to estimate the costs of each of the five options.

"Two new flow meters are being installed to record new data," Mr Mackie said. "These flow meters will be calibrated to ensure accurate and validated data is recorded."

Mr Mackie said the new data should be available to the design team during the week beginning June 19.

"When the new data has been gathered, the design team staff will analyse it and assess any impact on the five options that were consulted on," Mr Mackie said. "It is possible that when the new data is applied, it may show that design estimates relating to land area and costs have been underestimated."

This technical error means the project team will not be able to report to the Hearings Panel as planned. It has also left the Council with no option but to seek leave of the Environment Court for more time before presenting alternatives to the harbour outfall option for consideration.

"It is unfortunate that this has happened," Mr Mackie said. "However, staff and consultants will continue preparing reliable estimates for the most popular option, the 'purple pipe' network. This was overwhelmingly favoured in the submissions received, and we look forward to presenting the community with greater detail on how this might work in Akaroa." Mr Mackie said no more information will be available until the new flow data is analysed.

--ENDS--

For more information contact:

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02 Jun 2017
Akaroa Mail

Author: Alison Evans • Section: General News • Classification : Suburban • Page: 6
Item ID: 787975739

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Trappers workshop well attended

by Alison Evans

There was a good turnout for the Trappers Workshop which was held in Akaroa on May 21.

Each year the Banks Peninsula Conservation Trust (BPCT) gets people together to discuss the latest and greatest innovations for pest control and how they can be deployed to protect threatened species such as penguins.

BPCT Wildside coordinator Marie Haley, said that she felt it was important for people to see that their efforts were making a difference and that many of the challenges they faced were also experienced by others involved in habitat restoration.

"The workshops provide an opportunity for landowners to share information about trapping pests and to learn about the research and development side of pest control" said Marie.

The 'Wildside', which covers 13,500 ha of land extending from the Akaroa harbour to Le Bons Bay, has over 700 predator traps set up to control feral cats, possums, stoat and rats.

It has just been announced as a finalist for the Community Leadership Green

Ribbon Award.

The amount of covenanted land on the Wildside has now increased to 2,360ha and many of the landowners are

doing their own pest control.

"White-flipped blue penguin numbers on the Wildside have continued to grow but are dependent on intensive predator trapping around the breeding burrows" says Marie.

Indeed the numbers are looking so healthy that the Department of Conservation has recently downgraded their threat ranking to 'At Risk' from 'Threatened'.

"This is a direct result of successful conservation management programmes (mostly pest control) by landowners on the Wildside" she said.

There are always multiple factors at play that affect the breeding success of penguins such as the availability of food in the ocean or disease but having to face mammalian predators when they are on land is pushing Yellow Eyed penguins closer to extinction.

"Unfortunately, the Yellow Eyed penguin numbers remain low (but stable) with 8 juvenile penguins, 4 nests, 6 chicks in 2017.

"But we had the first Banks Peninsula born and micro-

chipped chicks return this year," explained Marie.

Marie then introduced two staff members from the Zero Invasive Predators (ZIP) programme which was established in 2015 and is based in Wellington.

Helen Nathan, a predator ecologist, talked about the 'remove and protect' approach that has been

adopted on Bottle Rock Peninsula in the Marlborough Sounds.

Helen explained that the idea behind the program is to assess the effectiveness of tools currently available to control predators and to test prototypes of new tools as they become available.

Tom Agnew, an animal behaviour technician with the ZIP program, explained that although we can successfully manage predators on offshore islands the challenge for the future is to manage possums, stoats and rats on mainland New Zealand.

Last year a new predator research area was developed at Lincoln to test just how tricky some of the predators can be.

At the facility, pests such as stoats and possums are kept in luxury accommodation like athletes at an Olympic village and are used

to test various things such as what height fence they can jump or whether they can be deterred from entering an area by bright lights, for example.

Recently, the ZIP program teamed up with innovative Akaroa resident Grant Ryan who is developing a new device called a 'Cacophonometer'.

After noticing that the amount of birdsong increased following pest control on his own property, Grant designed a device that basically turns birdsong into data so that you can gauge



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how successful a predator operation has been.

Early prototypes used cell phones to record birdsong but the Cocophonometer device has been evolving over time.

The device is now being developed to also attract predators using sound and light.

It is very high tech, using Raspberry Pi cameras, motion detectors, heat sensors and artificial intelligence to detect predators and send information to 'the cloud' for storage.

Grant explained that he is currently working on getting the collection and storage of the data right, and finding the best way to power the devices so that they can be used in remote places away from an electricity supply.

Meanwhile there was some good news for Banks Peninsula residents last week when DOC kindly donated five Goodnature traps to the Little River Trap Library.

These gas fired traps reset automatically and will be available for Peninsula residents to try out through the library which is next open on Sunday June 11 in Okuti Valley.



Alan McDonald from the Department of Conservation hands over some new possum traps to Alison Evans from the Little River Trap Library.

Photograph -Neil Brown .



17 May 2017
Bay Harbour News

Section: General News • Classification : Suburban • Page: 13 • Item ID: 775854105

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Call for volunteers to help replant after Port Hills fire

REPLANTING 7200 plants is no easy job, but it's about to take place on the Port Hills with volunteers doing the work.

Over the next four months, 12 planting days will be held to start rejuvenating the area of the Port Hills which was ravaged by fire in February.

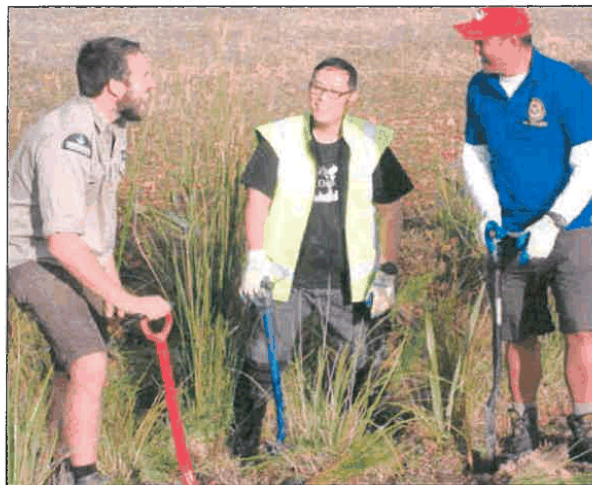
The first planting day will be May 25, and each session will accommodate up to 80 volunteers.

The spots have already started to fill up and city council Port Hills ranger Di Carter said the response from the public wanting to help was "absolutely fantastic".

The replanting is just the start of the rejuvenation, with volunteers also needed to maintain the plants through the seasons.

For the next 12 post-fire Port Hills restoration planting events, volunteers can register online at Eventfinda to reserve a seat on free buses that will take them to planting sites, thanks to the support of Environment Canterbury. There is no parking available at the sites.

The meeting point for the bus is at The Princess Margaret Hospital at 8.45am for morning events and 12.15pm for afternoon



PLANTING: With more than 7000 plants to be replanted, city council park rangers need help from the public to replant areas in the Port Hills.

events. Some times will suit families including Mt Ada on June 10 and Marleys Hill on June 24.

Volunteers should be prepared for all weather and bring a warm hat, sturdy boots, gloves

and a clearly named spade if possible, although some will be provided.

Postponement notices will be posted on the city council website by 3pm the day before an event.



05 May 2017
Akaroa Mail

Section: General News • Classification : Suburban • Page: 2 • Item ID: 771591479

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Close shaving appreciated

Sir,

Environment Canterbury Biosecurity staff have been very pleased with the quality and frequency of Old Man's Beard control in Governors Bay and Akaroa this year.

Residents and home owners have made a con-

siderable effort to beat back this threatening pest plant and we would like to thank them for their ongoing efforts.

Biosecurity Officers have been working with communities to control Old Man's Beard around Banks Peninsula in areas identified as having significant biodiversity values.

Over the past year we have communicated with locals,

provided control advice and facilitated volunteer work in an attempt to control Old Man's Beard before it becomes a major biodiversity threat.

We have seen a significant increase in the number of people actively controlling Old Man's Beard and really appreciate how they are taking this pest seriously.

We would also like to thank the volunteers who have given their time to support the community and protect the future health of our region's biodiversity.

Great work has been done, but it can't stop there!

We hope this trend will continue in years to come.

For more information about Old Man's Beard, visit www.ecan.govt.nz and use the search tool.

Rich Langley,
Tracy White
Environment Canterbury

8. Whakaraupo Science Advisory Group

Reference: 17/621033

Contact: Dr Tim Davie

Tim.davie@ecan.govt.nz

Enter phone.

1. Purpose of Report

To provide the zone committee with a verbal update from the Whakaraupo Science Advisory Group.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the update

3. Report

As part of the Whakaraupo Catchment Management Plan development a Science Advisory Group (SAG) has been compiling a report of issues, drivers and actions for the harbour. The group includes scientists from Landcare Research, University of Canterbury, Ngāi Tahu, and Environment Canterbury.

The report from the SAG has yet to be finalised and presented to the Whakaraupo Governance Group. At the zone committee meeting the SAG chair (Tm Davie) will give a verbal update on the main, issues, drivers and actions identified.

Attachments

There are no attachments to this report.

9. Fish Monitoring on Banks Peninsula

Reference: 17/621136

Contact: Dr Tim Davie Tim.davie@ecan.govt.nz

Enter phone.

1. Purpose of Report

To inform the Banks Peninsula of proposed fish monitoring to partially assess biodiversity status on Banks Peninsula.

2. Staff Recommendations

[That the Banks Peninsula Water Management Zone Joint Committee endorse the proposed monitoring](#)

3. Report

A target of the Canterbury Water Management Strategy is “to implement actions to correct the decline in freshwater species, habitat quality or ecosystems”. A 2020 target talks of “having an upward trend in diversity and abundance of native fish populations”. While Environment Canterbury has a comprehensive monitoring programme for water quality and invertebrates it there is no comprehensive fish monitoring programme; it falls across and between several agencies (e.g. DOC, Fish & Game, NIWA). The invertebrate monitoring, done as part of ecosystem health monitoring tells us something about aquatic biodiversity but is not designed to specifically target biodiversity.

AN APPROACH FOR BANKS PENINSULA

Banks Peninsula has a high degree of endemism in native aquatic species (i.e. they are found nowhere else), particularly macroinvertebrates. As a result there have been many studies done on aquatic species on the Peninsula. The Freshwater Fish Database (FFD) held by NIWA provides a record of many of these studies. The FFD records information on any study done, including presence/absence information. Not all of this is of use for monitoring fish biodiversity.

Through discussions with the Zone Committee and staff at Environment Canterbury a three pronged approach will be developed to look at biodiversity on Banks Peninsula.

1. The FFD will be interrogated and sites where there are enough data used to design repeat monitoring.
2. A selection of sites where there are direct riparian interventions using Immediate Steps funding will be monitored for effectiveness of the intervention. This will concentrate on invertebrate monitoring.
3. The data from invertebrate monitoring done as part of the ecosystem health monitoring on Banks Peninsula will be looked at from a biodiversity, as well as an overall ecosystem health basis (i.e. presence/absence/abundance of key species looked at). N.B. this is not totally reliable as identification is not always to species level.

This paper details the plans for the first part described above.

POTENTIAL FISH MONITORING SITES

An initial screening of the FFD .is shown in figure 1. In figure 1 studies with inadequate description of methods were excluded.

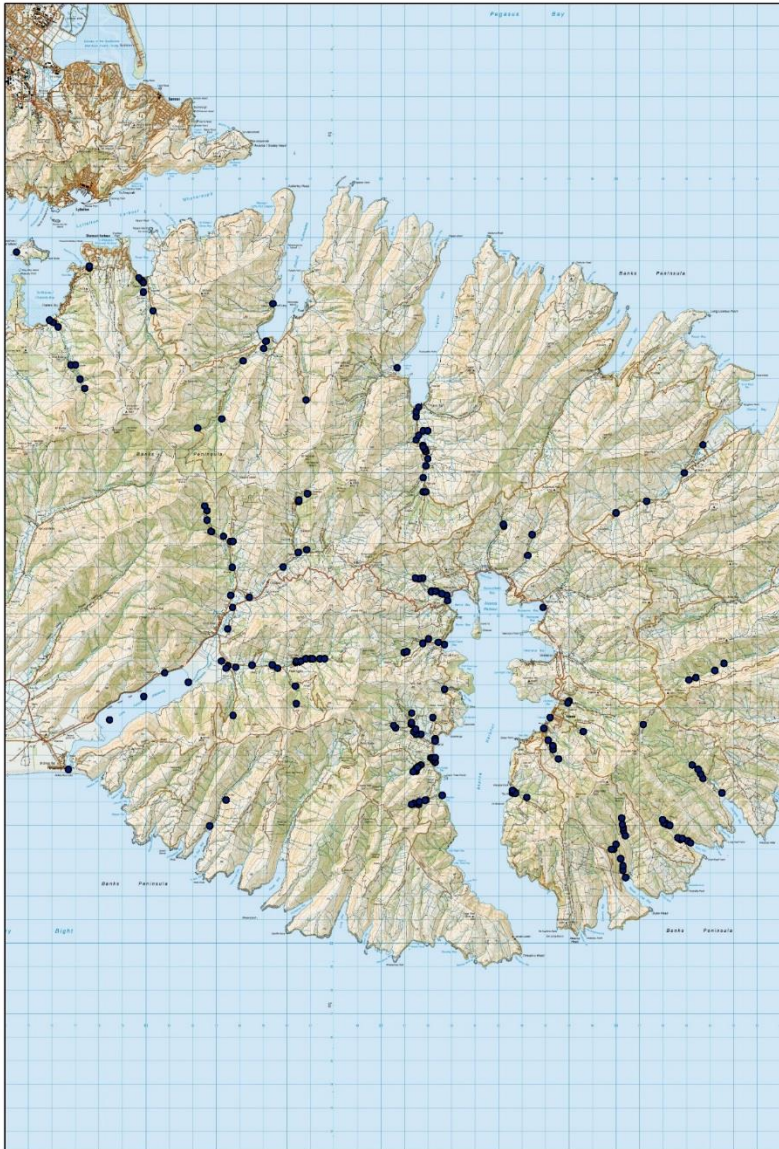


Figure 1: Sites identified in the Freshwater Fish Database as potential monitoring sites after an initial screening.

From figure 1 seven sites have been selected for further fish monitoring. These have been selected on the basis of enough baseline data and also giving an adequate geographical representation of Banks Peninsula

The sites selected are:

- Okuti River at Kinloch Road (sampled 1979,1998, 2004 and 2002)
- Barry Bay stream downstream of the main fork (sampled 1964, 2001, 2013, 2014)

- Hay Reserve in Pigeon Bay (sampled 1984, 1992, 1993, 2008)
- Kawa Stream in Port Levy (sampled 1997, 1998, 2011, 2012)
- Purau stream lower (sampled 1964, 1979, 1988, 2011, 2012)
- Te Wharau Stream (sampled 1964, 1984, 2009)
- Flea Bay Stream (sampled 1996 and 2001)

It is proposed that these sites will be monitored by Environment Canterbury ecology science staff over the next three summers (2017-20).

Attachments

There are no attachments to this report.

10. Wahi Tapu Sites in Banks Peninsula Zone

Reference: 17/621242

Contact: Enter contact

Enter email address

Enter phone.

Purpose of Report

To provide the zone committee with an overview of the importance and location of Wahi Tapu sites in the Banks Peninsula Zone.

1. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

1. Receive the map and briefing.

2. Report

At the May Zone Committee meeting, the committee were asked to provide feedback on a report being prepared on swimming values in the Canterbury Region. At this meeting, the committee agreed the following feedback would be provided:

- *It should be recognised that all permanent streams with public access are likely to have recreation and amenity values*
- *Appropriate consideration should be given to Wahi Tapu sites.*

This feedback has been provided to the author of the report and it is understood the report will be finalised soon.

Peter Ramsden (Ecan Tangata Whenua Facilitator) will provide an overview of the importance and location of Wahi Tapu sites at the meeting.

Attachments

No.	Title	Page
A ↓	Map of Wahi Tapu sites	28



11. Immediate Steps Biodiversity Projects - Summary report and Communication Actions

Reference: 17/621526

Contact: Olivia Smith

Olivia.smith@ecan.govt.nz

0278863949

1. Purpose of Report

For the committee to discuss how to effectively profile/communicate IMS projects that have been completed in the Banks Peninsula Zone.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

- receive the updated map showing the location of IMS projects in the Banks Peninsula Zone.
- provide feedback on the proposed actions to communicate IMS projects.
- consider how committee members can help celebrate projects in the zone.

3. Report

Since 2011, the Banks Peninsula Zone Committee have supported many valuable projects which help to protect and enhance biodiversity values on the peninsula.

The establishment and ongoing maintenance of IMS projects often requires a significant commitment from landowners. To acknowledge this commitment, and to encourage future projects, we need to enhance our engagement and communication with the local media to share the good news stories. We also need to be sharing the stories via channels such as Facebook, website, Instagram and Twitter. Communications staff at Environment Canterbury have proposed some actions to help:

- raise the profile of Immediate Steps projects and their work
- raise awareness about biodiversity
- provide greater awareness about the link between the landowners and the work they are doing to protect waterways
- support the Zone Committee with their communication requirements.

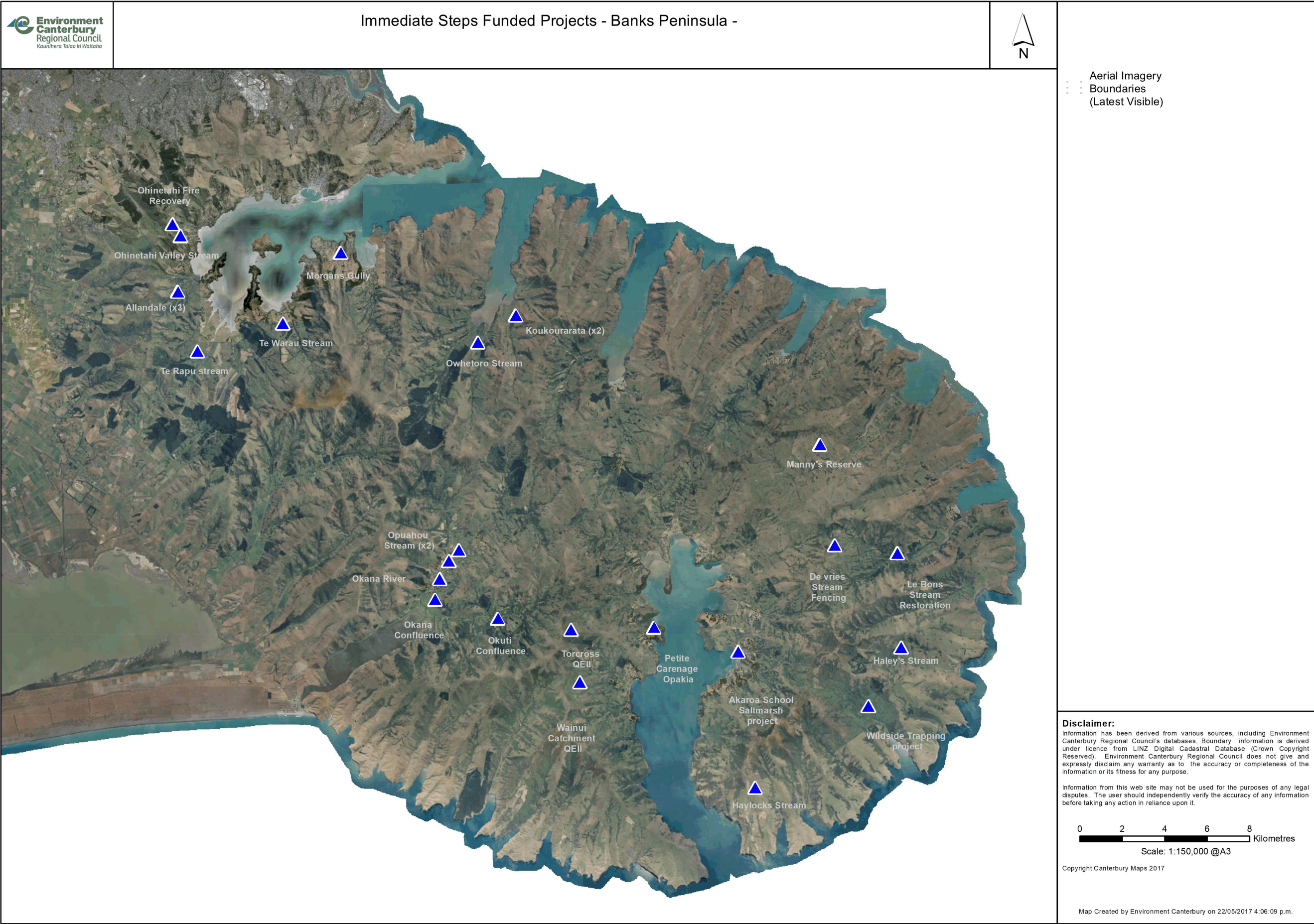
Proposed Communication Actions	Media	Frequency
--------------------------------	-------	-----------

<p>1. Adverts (example attached)</p> <p>Adverts which include a large photo and very small 'bite size' amount of text.</p>	<ul style="list-style-type: none"> • Print in Bay Harbour News, Akaroa Mail • Profile on ECan Facebook, Instagram and website 	Every two months
<p>2. Project Stories (print, example attached)</p> <p>Publish a story in the local community papers that highlights facts, figures and information about the Immediate Steps projects.</p> <p>Stories will relate to the amount of funding from the Zone Committee, the clean-up process, fascinating facts, timely updates, and benefits for the environment.</p>	<ul style="list-style-type: none"> • Print in Bay Harbour News, Akaroa Mail 	Quarterly
<p>3. Project Stories (Video)</p> <p>Produce a short video showing an interview with landowners. This will be pitched to media as a feature profile</p>	<ul style="list-style-type: none"> • Video profile will feature on ECan Facebook and website 	Quarterly

All media work will be repurposed and reused for placement in a number of channels to maximise resource efficiency. Channels include our website, Instagram, Facebook and Twitter accounts <https://www.facebook.com/CanterburyWater/>.

Attachments

No.	Title	Page
A ↓	IMS attachment 1	31
B ↓	IMS attachment 2	32
C ↓	IMS attachment 3	33





Two local high country families recently completed 2260m of fencing to protect a wetland and creek on their mixed sheep and beef farms at Benmore Station.

The Upper Waitaki Zone Committee granted close to \$24,000 from its Immediate Steps fund to help with the work.

Around \$100,000 is available each year to help local projects like this – search “Immediate Steps” at www.ecan.govt.nz or call 0800 324 636 for information on funding criteria and how to apply.

Brought to you by the Upper Waitaki Zone Committee working with





11 Apr 2017
Selwyn Times

Author: Janine Holland • Section: General News • Page: 11 • Item ID: 755941760

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Couple's passion for biodiversity

■ By Janine Holland

IF ANYONE is passionate about protecting biodiversity it is Trevor and Heather Taege.

Drop into their Kowai Bush sheep and beef farm, nestled behind Springfield, and you'll be blown away by what this farming couple has achieved in just six years.

Remnant pockets of native bush and wetland are now protected on Tobyhill – fenced off and replanted – creating havens for birdlife, insects and flora on this idyllic property overlooking the Waimakariri River. It's been a labour of love for the pair who say protecting native bush is their hobby.

When they bought Tobyhill as an addition to their original farm Korimako, the couple saw the natives as an advantage. While some farmers may have cleared the bush, Mr Taege said they chose to work with it.

For many years, the Taege ran stock through the property and over time noticed the effect the animals were having.

"We could see the decline in the bush with stock in it," Mr Taege said.

"So we fenced off one block in the 1980s. Then when I semi-retired we thought we could do something. It was either that or lose it."

That something took the form of applying to a district council biodiversity fund to subsidise additional fencing. An ecological survey confirmed 52 native species present on the property.

"That was more than we thought there would be. It was exciting, very, very encouraging," Mr Taege said.

He believed protecting existing

remnants of native bush had higher ecological value than planting areas from scratch.

"We had all the big, tall trees

here to start with so we're re-generating native bush that was already here," he said.

"I feel areas like ours are more worthy of subsidy than new bush pockets because we have the potential to lose it and this area would have been all bush. It's more important to retain what is there than just plant in the middle of a paddock."

Additional funding has come from Environment Canterbury and recognition of their efforts from the Dianna Isaac Cup, an award they received for outstanding efforts to weave native plants into the working land of Selwyn.

Now the couple have decided it's time to slow down as the maintenance needs of the blocks keep them busy enough.

Mrs Taege said the next generation could do more planting if they wanted.

Still there is plenty to admire, and walking around with Mr and Mrs Taege is like being taken on a botanical tour as they reel off species names and check on their tree's progress; beech, matai, cabbage tree, totara, kanuka, lancewood and

broadleaf some of the more dominant ones. Then there are the curiously named five fingers, wineberries, whitey wood and little green clematis.

Mr Taege said there would be a lot of regeneration going on in the next 10 years.

"You'll barely be able to put your foot down in here," he said.

"We've learnt a tremendous amount. It's like a hobby. Some

people go to bowls, we go down to the bush. It's really nice on a good day to walk through the beech trees with the smell, it's just magic."



11 Apr 2017
Selwyn Times

Author: Janine Holland • Section: General News • Page: 11 • Item ID: 755941760

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**WORKING
WITH
NATURE:**
When Trevor
and Heather
Taege bought
their Kowai
Bush farm,
Tobyhill, six
years ago,
they decided
to protect the
remnants of
native bush.



12. Banks Peninsula Zone Committee, 5 Year Integrated Work Programme - Quarterly Report

Reference: 17/621800

Contact: James Tricker James.tricker@ecan.govt.nz 0278391341

1. Purpose of Report

Provide an update on progress regarding the Banks Peninsula's Zone Committee's 5 year Integrated Work Programme.

2. Staff Recommendations

That the Banks Peninsula Water Management Zone Joint Committee:

1. [Receive the report](#)

3. Report

Refer to Appendix 1.

Attachments

No.	Title	Page
A ↓	BP Quarterly Report	36

Progress Update - Zone Committee - Jun 17			
Appendix 1: Banks Peninsula 5 Year Outcomes	Milestones Due this Quarter	Actions Dec 2016- July 2017	Actions Next Quarter (Aug- Oct 2017)
1 Access to Safe and Reliable Drinking Water Residents have access to safe and reliable Community Drinking water supplies	<p>Develop an awareness programme to educate BP Communities on the value of rain water collection and increase the use of rain water storage tanks to augment current spring and stream water supplies with rainwater by 2017 – NOT STARTED</p> <p>By June 2017, a stocktake of an estimation of quantities of water recorded in BP streams. Next steps/actions to be agree by Zone Committee – BEHIND/ STARTED</p>	<ol style="list-style-type: none"> At the end of the quarter the Okains Bay Water Working Group made a submission to CCC for consideration in the 2017/18 Annual and 2018-2028 Long Term Plans. The Banks Peninsula Community Board nominated a request to Christchurch City Council to fund a feasibility study to determine how potable water be secure for Okains Bay. Following on from the 2017/18 Annual Plan submission, consideration is sought for further funding to implement the recommended options in the feasibility study in the 2018-2028 LTP. An approach made in February 2017 by a representative of the Tikao Bay Residents for advice to upgrade their drinking water supply. Advice provided on requirements and process to follow with Councils and Public Health to drill a bore, taking, use and treatment for drinking water process to follow. 	<ol style="list-style-type: none"> Result from Council LTP's process will determine next steps to take by Working Group. Determine what are water needs of residents in the Bay 25 years ahead. The Tikao Bay Residents indicate they will follow the processes advised. Initially an application for resource consent to take and use water first, followed by installation later. Ongoing, it is proposed all residents share responsibility for managing and funding the upgrade water supply and system maintenance.
2 Flood Management in the Wairewa Catchment Waterways in the Wairewa catchment are well managed, flood hazards reduced, stream banks stabilised and protected	<p>Annual report of River Rating project is provided to the Zone Committee by 2017 on the previous year's programme and a communication strategy is developed to promote the coming years programme- ON TRACK</p>	<ol style="list-style-type: none"> On 18th Bank Peninsula Zone Committee agreed to fund up to \$60,000 over two years, the project to be completed by 30th June 2019. Wairewa bank stabilisation project plan drafted; Wairewa Rūnanga project is a work in partnership. Their support of the project is in recognition of the importance of Te Roto ō Wairewa/Lake Forsyth and reduction of sediments reaching the lake. To meet with each Landowner/landholder on land and adjoining damaged riparian margins (Priority 1) and sites to inform of the projects, obtain their approval to carry out works and if necessary prepared to make a share of project cost and/or time to assist. Initial discussion held with ECan River Engineer team members about resourcing requirements. 	<ol style="list-style-type: none"> Writing up a Valley Floor Area River Bank Erosion Plan; An application for Resource Consent to meet Rules 10.5.1 or 10.5.2 to be allowed during the project to use of land in the riparian margin or disturbance of the bed and banks on the rivers of the Wairewa Valley Floor, ...for the purpose of reducing bank erosion and collapse. Meet each landholder with land and adjacent to riparian margins assessed high (Priority 1) with bank damage in need of remediation.
3 Improved Stormwater Management and Reduced Sediment Discharges Programmes are established to reduce sediment discharges to waterways from stream bank and hill slope erosion	<p>Zone Committee selects priority areas for Ki uta ki tai projects, focussing on slope stability, riparian and wetland re-vegetation, enhancement of Mahinga Kai and mauri establishment by 2017-</p> <p>By 2017 a 'pilot' proposal using three stabilisation methods on roadsides in the Whakaraupo/Lyttelton harbour catchment is agreed by the Zone Committee- ON TRACK</p>	<ol style="list-style-type: none"> Working on developing an Erosion and Sediment Control Pilot Project on Lyttelton Harbour basin road-side cuttings. A field trip to road batter sites to consider sites suitable for trials to reduce sediment loss entering streams and Whakaraupo. Three potential "pilot" sites selected for further consideration. Letters sent to all land owners adjacent to roadside batters. 	<ol style="list-style-type: none"> Confirmation of project sites and awarding contract for detailed design and costing of the trials. Further inspections of sites;
4 Operate at GMP Good management practise (GMP) is understood. Farmers use GMP as a standard and changed farm	<p>Good management practise (GMP) is understood. Farmers use GMP as a standard and changed farm practises as opportunities arise.- ON TRACK</p>	<ol style="list-style-type: none"> "Pilot" Farm Environment Plan Workshop held on 31st May with Port Levy and Pigeon Bay farmers. A "pilot" to trial integrating Biodiversity Management Plan to meet requirements of Draft CCC District Plan. 	<ol style="list-style-type: none"> Prepare for another FEP Workshop to take place September/October in another Peninsula Bay;

	practises as opportunities arise			2. Write up a Draft sheet of GMP Practice suited to Bank Peninsula farm activity. Prepared in collaboration with key innovative farmers in and outside the Peninsula including farmer discussion groups and Landcare.
5	<p>The Value of Biodiversity is recognised in its own right and embraced through Kaitiakitanga</p> <p>Community strongly committed to improving biodiversity and understanding its value and significance. Kaitiakitanga is embraced as an overarching value in all streams, freshwater wetlands, Te Roto O Wairewa, saltmarsh/estuaries, springs and harbours in the Banks Peninsula Zone and reflect Ki Uta Ki Tai, Mauri, Mahinga Kai to tangata whenua, Wahi Tapu and Wahi Taonga</p>	<p>Produce a report summarising all projects funded through Banks Peninsula Immediate Steps fund since the fund was established in 2011- COMPLETE</p> <p>Accept and process applications for Immediate Steps biodiversity enhancement projects for 2017/2018 financial year – ON TRACK</p>	<p>1. Summary report was presented to zone committee during May meeting at Orton Bradley Park</p> <p>2. Remaining \$35,000 of Immediate Steps fund allocated to Fire Recovery in Ohinetahi Valley. This is underway with the Ohinetahi Bush Reserve boundary fence constructed, flax seed collected and sorted, and kanuka and manuka seed collected and ready for sorting.</p>	<p>1. Continue to process applications for Immediate Steps funding for the 2017/2018 financial year</p>
6	<p>Support Community Ownership</p> <p>Community understand water and land-use issues and collaborate in finding practical solutions and take actions. Environmental successes in the zone are appropriately recognised and publicised</p>	<p>Annual updates are given to the community on the progress of Te Roto O Wairewa by 2017 – ON TRACK</p> <p>Annual report to Zone Committee on responses taken on one-off incident matters by 2017 – ON TRACK</p> <p>Options for involving schools, community groups, and runanga in Zone Committee activities are investigated and report to Zone Committee with recommendations by 2017. – ON TRACK</p>		<p>1. Build on existing initiatives to involve Rūnanga, schools and community groups in the work of the zone committee such as riparian planting and stream monitoring.</p> <p>2. Continue to raise awareness of what we can all do to improve biodiversity, adapt to climate change and value the limited water resources of the Peninsula.</p> <p>3. Continue to provide the community with regular updates on the state of Te Roto o Wairewa and share the latest scientific understanding.</p>
7	<p>Whakaraupo/Lyttleton Harbour Catchment Management Plan</p> <p>Ecan, LPC, Te Hapu o Ngati Wheke and TRoNT with Tangata Tiaki representation, will consult with other stakeholders and agree on a organisational and governance structure, and process, for developing a catchment management plan for Whakaraupo/Lyttleton Harbour</p>		<p>1. The project governance group is met in May to guide the response to the science work and the community feedback, and to set the overall direction and form of the Whakaraupo Catchment Management Plan.</p>	<p>1. Community workshop to communicate science information and discuss key projects/actions to be included in plan.</p> <p>2. The Partners Working Group will develop the Catchment Management Plan and determine a suite of priority projects, and timelines. The content will focus around a cultural narrative, to reflect the cultural values of Whakaraupō and convey them to the wider public.</p> <p>3. The group will work through the actions from the science, mahinga kai and community work with a view to determining costs and assigning a responsible agency or group.</p> <p>4. The timelines for the delivery of a Whakaraupo catchment Management Plan have been extended. The new timeline involves a consultation on a draft plan in September, with the final plan being completed in late 2017.</p>

8	Raise Awareness of Climate Change Effects Improve the availability and quantity of fresh water from waterways reliant on rain on Banks Peninsula and address climate change issues			
9	Resource Consent Monitoring is Prioritised within the Zone Resource Consent Monitoring will be prioritised on Banks Peninsula in relation to priorities in the Zone	The Zone Committee will develop a Zone specific strategy to educate people on their responsibilities for managing septic tanks by November 2016 – BEHIND but STARTED	<ol style="list-style-type: none">1. Test kits options investigated2. Research and regional strategies for OWS's & WQ studies investigated & key information collated3. Risk checklist drafted after meeting with OWS expert Andrew Dakers.	<ol style="list-style-type: none">1. A Dakers to present his advice/recommendations to ZC in July2. Continue to develop advice framework for public who identify high risk OWS on their property.

13. 5 Year Outcomes - Advocates Update

Reference: 17/625170

Contact: James Tricker James.tricker@ecan.govt.nz

Enter phone.

1. Purpose of Report

To provide an opportunity for committee members to provide a progress report on the on the work they have been doing to achieve the Canterbury Water Management Strategy targets in the Banks Peninsula Zone.

2. Staff Recommendations

[That the Banks Peninsula Water Management Zone Joint Committee:](#)

- **Welcomes** the updates from committee members and celebrates the progress made.

3. Report

The 5 Year Outcomes help guide Environment Canterbury's work programme to deliver the Canterbury Water Management Strategy in the Banks Peninsula zone.

There are nine Outcomes. One or two zone committee members are assigned to each outcome as "Advocates" to help guide the work programme.

1. Updates on 5 year outcomes

1. Access to Safe and reliable drinking water – Pam Richardson

Pam - A recent 'event' - a septic tank truck rolled in Okains Bay. Good practice was followed. Environment Canterbury was notified and steps followed. The community was advised through various networks steps to take etc. It was advised as a precaution that there should be no drinking of the water. The community water supply comes from another stream supply nearby. Water quality testing was undertaken Below are the E coli test results from Okains Bay Stream truck crash on the morning after the crash. To give some perspective, raw sewage would show an E coli result in the 1,000,000's count. The results here, which are in the low 1,000's count are typical of rural run off after high rainfall - birds, stock, possums all contribute.

Upstream Crash Site 2,280 E coli MPN/100ml.
Crash Site 3,450 E coli MPN/100ml.
c.100m D/S Crash Site 2,140 E coli MPN/100ml.
c.500m D/S Crash Site 1,789 E coli MPN/100ml.
c.1000m D/S Crash Site 2,610 E coli MPN/100ml.
Lagoon 1,046 E coli MPN/100ml.

As can be seen, there may have been some minor effects in the immediate vicinity of the crash site, but once we are 500m downstream, results are indistinguishable from upstream. The following tests showed similar results and there will be a further test at some stage. There maybe now an opportunity to share these results with the community. The results are perhaps slightly higher than I would have expected.

2. Effective flood management in Wairewa catchment – Pam Richardson

Pam

- Environment Canterbury staff have a clinic in Little River and Akaroa on a regular basis - alternate between a Land Manager and the Biodiversity officer.
- Little River Rating District Bank stabilisation project - all the background work is being carried out to get this project underway. It may be that a new consent is required to carry out the work. Is there a global consent for instream and bank stabilisation work?
- There is a need to continue our follow- up with the rules around the Little River Sub- Regional Plan. These are now operative and we need to ensure that all landowners –rural and urban understand the rules. Will Environment Canterbury have FAQ's available?
- Re - the effects of inundation and coastal erosion on our coast line. The CCC are looking at a new consultation round - Our Coastal Futures and looking at a new way of doing things. This process will include the peer review of the Tonkin and Taylor report.

- Storms. Consider amounts of spoil are required to be removed following a storm events. Are there any consent requirements for individual landowners to accept material from areas in the local catchment?
- Erosion and undermining of the bank at the SH 75 bridge .Is the build-up of shingle causing the erosion and undermining of the bank?. This issue affects the netball courts at Little River –the CCC will not look at repairing them until the flooding issues have been resolved. Who is the owner of this stream bank area, would an engineering solution around the courts resolve the issue?
- I continue to have concerns re management of rivers and streams and landowner responsibility e.g. at the stream site beside the Cooptown garage a willow fallen into the stream, the shingle island building up at the state highway bridge, build up at mouths of streams and interface with the coastal area across the Peninsula we have issues that require advise and management - funding needs to be allocated. Could this be considered a long term plan matter for consideration?
- Lake Forsyth Endowment funds and the note that it would be inappropriate to use the fund for drainage work around Little River [legal advice available].

3. Improved stormwater management and reduced sediment discharges – Paula Smith

- **Paula-** Storm water management plans- I do not know whether anyone is doing these. I am not even sure which agency is supposed to do them. I note there is a delay in the hearing of CCC's Resource Consent Application CRC 160056 - Comprehensive Stormwater Network Discharge and the applicant has been granted an extension until February 2018 so they can investigate a different way of monitoring. Apparently "Environment Canterbury and the applicant [CCC] have agreed it is appropriate to investigate the use of stormwater contaminant load modelling for setting and tracking contaminants loads over the duration of the consent. In order to develop estimates of the contaminant loads over time and the effects of stormwater treatment initiatives, a significant work programme is required to collect the necessary information and to model the effects". Also, "in parallel with the monitoring work, the applicant [CCC] will look to develop a revised set of proposed consent conditions which would be needed to support the alternative consent monitoring strategy". I don't think the Zone Committee knows anything about this delay in the global stormwater consent. To me it seems likely that because Banks Peninsula is bound up with the work required for the city, addressing the discharge of sediment, our most serious contaminant, from reticulated stormwater networks in Lyttelton/Corsair Bay, Cass Bay, Governors Bay, Diamond Harbour/Church Bay/Charteris Bay and Akaroa (+others?) will be further delayed. I would like someone to explain all this to the Zone Committee and perhaps we could consider whether it might be possible for Banks Peninsula stormwater discharges to be uncoupled from the Christchurch City consenting process. Because meanwhile the streams and harbours are filling with sediment and the cockles are choking on it.
- **Paula-** I was unable to attend the last meeting on 11 April. Shelley Washington said there was some discussion about having one of the sites on the other side of the hill i.e. not in the Whakaraupo

Catchment or the BP Zone. Shelley wrote: "We decided that a matrix needed to be prepared of pro's and con's of the various site, before making a decision. And that these pro's and con's can be used to explain why sites were or weren't chosen (later on)" and "We should have this matrix prepared in approx. 6 weeks time, then we can make a well informed decision about which sites we want. Then the next step will be discussing with nearby landowners, checking access for machinery etc ". I have not heard anything more. The matrix should be finished by now. As the milestone requires "agreement by the Zone Committee" this project should probably be discussed with the Zone Committee before it gets too much further down the track.

- **Pam-** Roading issues. Banks Peninsula has some challenges The CCC is continuing with 'culvert cleaning' etc. A considerable amount of debris is being moved away from the head of culverts etc. The lack of shingle on Banks Peninsula roads causes considerable clay exposure. Perhaps it is timely to consider a more in-depth report on the condition of our roads to ensure sustainability of the network including the standards storm water systems etc. Do we need to raise these issues to be considered in the Long Term Plan?

4. *Operate at GMP – Ian Lloyd*

- **Pam-** A Beef and Lamb Workshop was held with landowners in Pigeon Bay. This recent exercise I believe was very successful. It was about having landowners from catchments looking at the issues in their catchment and seeing that the vegetation does not go just to the boundary. It was also about having the right people in the room and being able to ask those 'dumb' questions. It all felt like a bit of a 'family' exercise. It provided me with opportunities to ask landowners about the earlier PNA programme and the work that Hugh Wilson did in the 1980's.

5. *The value of biodiversity is recognised in its own right and embraced through Kaitiakitanga – Thomas Kulpe*

- **Thomas-** Soil Organic Matter- an Index for Banks Peninsula (document attached)
- **Paula** - BP Zone committee has not selected any priority areas. The Zone Committee has approved funding for projects brought to it by staff. What projects get funded is based largely on who applies. Decisions are based on Immediate Steps biodiversity criteria, not on whether they "improve stormwater management" or "reduce sediment discharges" which are the 5-year outcomes sought in this case.
- **Pam**

- I am aware that the CCC councillors may be signing off on a Biodiversity Contestable Fund later in the month. The proposal has passed the first hurdle.
- Submissions are being called for the Environment Canterbury Regional Pest closing date 3rd July
- Reserve Management Plans are being developed for Misty Peaks and
- Te Oka. The CCC are seeking public suggestions to assist staff with preparations of the Reserve Management plans - managing physical resources to guide promote and enhance the visitor experience etc. No hearings are required for this first round of public engagement.
- Okuiti Reserve 'Living Classroom' proposal- interpretation panels and a nature trail developing worksheets for schools etc. A focus on maintaining the values of the reserve and will partner with partner with the LR Trap Library and the Little River Wairewa Trust. DoC supportive and CCC offering assistance from Environmental team.
- Threatened Species Strategy DoC has released a draft strategy for consultation that can be found on the DoC website

- *Banks Peninsula Wildside- Green ribbon Award winner*

6. Support community ownership – Claire Findlay, ZC Chair (Paula Smith)

- *Claire- not aware of any further progress been made.*

7. Whakaraupō/Lyttelton Harbour Catchment Management – Ian Lloyd, Elizabeth Cunningham, Andrew Turner

- Science Advisory Group is in the process of completing their science report.
- Partners Working Group in the progressing with development of plan.

Pam- Lyttelton Waste Water project driven by the expiry of the existing resource consent for the discharge of waste water into the harbour basin under an Environment Court decision. Routine discharges to cease Governors Bay by 2018 Diamond Harbour 2021 and Lyttelton by 2029 .this will be achieved by piping untreated waste water from each location through to Bromley via the Lyttelton road tunnel with Diamond Harbour and Lyttelton concurrently by 2021. This has been confirmed as part of the Long Term Plan.The adopted design consists of a buried submarine pipeline from Diamond Harbour and Governors Bay to a new pump station on Simeon Quay by the Lyttelton road portal tunnel and through to Ferrymead and onto Bromley WWTP – work beginning later this year.

8. Raise awareness and understanding of climate change –

9. Resource consent monitoring is prioritised within the zone – Kevin Simcock

- **Paula-** I cannot remember having such a report on construction site monitoring in 2016. Kevin has given a verbal report about issues at some construction sites which he has been keeping an eye on around Takamatua. I am aware of some enforcement related to a really messy un-consented driveway in Diamond Harbour. Thomas has copied me in on some Pollution Hotline action in the Waitituri Stream in Purau resulting from earthworks related to a rural subdivision consented several years ago. And I heard rumours about enforcement action in Teddington where forest was clear-felled and a massive new road went in on a very steep south-facing slope which drains into Waiake Stream and the very high ecological value Teddington wetland. I am not sure when or if an annual report on construction sites monitoring is to be expected in 2017.

Additional:

- Akaroa Wastewater. It appears as though a miscalculation has occurred and that this has meant further work is required and reporting back to the Environment Court needs to be extended.

2. Regional Committee Update – Thomas Kulpe

Attachment

Soil organic Matter- An Index for Banks Peninsula

Attachments

No.	Title	Page
A ↓	Soil Organic Matter	45

Soil Organic Matter - Index for Banks Peninsula

Banks Peninsula's environmental woes are often explained as a legacy issue of the radical deforestation that took place between 1860 and 1900 and that left only about 3% of the native forest cover standing. The deforestation of Banks Peninsula has not only induced the increasing levels of erosion in the streams harbour catchments, it has also resulted in the extinctions of endemic Banks Peninsula invertebrate and avian species and caused severe restrictions in the range of many of the surviving endemic species (Harding 2003, Harding et al. 2006).

The native forest cover on the Peninsula has increased to about 15% today, but is very fragmented. Has the loss in endemic species, the loss of biodiversity and biomass, the erosion and sedimentation of streams and harbours come to a halt? Is the ecological health stable or improving?

There is a simple parameter that could help to answer this question. Soil Organic Matter, SOM, (or the similar parameter soil organic carbon) is related to water retention capability of the soil, sediment retention, biodiversity, soil productivity and of course carbon sequestration. Here some background information:

<http://pureadvantage.org/news/2017/04/06/carbon-soils-secret-to-saving-civilisation/>

<http://pureadvantage.org/news/2017/05/18/farming-profitably-within-environmental-limits/>

Good pasture management has a significant impact on the levels of SOM. There are various ways of measuring SOM from accurate lab test to simple field test. In many countries farmers and land managers compete for high soil carbon. Here for instance a link to the Soil Carbon Challenge: <http://soilcarboncoalition.org/challenge>

Establishment of a local SOM index for Banks Peninsula and inclusion in Farm Environment Plans would help to set targets for better soil health, water retention and erosion prevention.