



Lower Waitaki - South Coastal Canterbury Zone Committee

AGENDA

A **MEETING** of the LOWER WAITAKI - SOUTH COASTAL CANTERBURY
ZONE COMMITTEE will be held as follows:

Date: Wednesday 19 March 2014

Time: 1.00 pm

Venue: Waimate Community Centre
Queens Street, Waimate

Lower Waitaki South Coastal Canterbury Zone Committee

Waimate Community Centre
Queens Street, Waimate

AGENDA 19 March 2014

1.00 pm – 4.00 pm

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• Implementation Update (Memo - Judith Neilson)	13
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Time Table

1.00 pm	Karakia and welcome Apologies Minutes Permanent Items
1.20 pm	ZIP Addendum South Coastal Canterbury
2.30 pm	Tea
2.50 pm	Regional Committee Field Trip
3.10 pm	Update on Waitaki Plan Change
3.30 pm	Implementation
4.00 pm	Karakia and Close of Meeting

Lower Waitaki – South Coastal Canterbury Zone Committee

Minutes of the Committee meeting held in the Waimate Community Centre, Queen Street, Waimate on Wednesday 19 February 2014, at 1.10pm

Present	Robin Murphy (Chair, Community rep), Andrew Cocking (Community rep), Andrew Feierabend (Meridian Energy), Geoff Keeling (Waitaki District Council), Tewera King (Arowhenua Runanga, apology for lateness), Commissioner Tom Lambie (ECan), Peter McIlraith (Waimate District Council), Brent Packman (Community rep), Pauline Reid (Waihao Runanga), Elizabeth Rollinson (Community rep), Matt Ross (Community rep apology for lateness), Kate White (Deputy Chair, Community rep, apology for lateness)
Apologies	Sharyn Price (Waitaki District Council), Patrick Tipa (Moeraki Runanga)
In Attendance	Nic Newman (Zone Facilitator - ECan) Rob Coleman (Zone Facilitator – Ecan) Elly Finnerty (Committee Secretary)

In response to the Chairman's invitation Pauline Reid shared a Karakia.

1. Confirmation of Minutes

RESOLVED

LWSCI4/01

P Reid/A Cocking

“That the minutes of the Committee meeting dated 18 December 2013 with amendments are confirmed.”

CARRIED

2. Permanent Items

Matters Arising from the Minutes

Nil

Correspondence

Inwards ECan re Waihao Box Reconstruction

Regional Committee Update

No representative from Lower Waitaki South Coastal Canterbury in attendance at the meeting however an update on our zone had been forwarded and Nic Newman spoke to a summary of the draft Zone Implementation Programme (ZIP) Addendum.

3. ZIP Addendum South Coastal Canterbury

A large (approx. 80) contingent of members of the public attended this item. Mr Roger Small spoke on behalf of a group of landowners. The following points were made:

- 1) "Property owners in the Lower Waitaki South Coastal Zone do not want the zone committee to sign off the Zone Implementation Plan written by Canterbury Regional Council as we believe there has been a lack of consultation to the stakeholders.
- 2) Zone Committee and CRC is restricting land use and value for present and future families/generations. The method they are doing this with is totally inequitable.

Action Requested to be taken by Canterbury Regional Council

- 3) Canterbury Regional Council are to:
 - a. Clarify science behind setting of limits.
 - b. Present us with water quality results from the water bores/streams and rivers for the last 10 years.
 - c. Demonstrate to us how CRC has arrived at the published figures and show us how they have arrived at a total nitrogen allocation. Then CRC need to demonstrate to the community how they are going to achieve this and the effect it will have on property owners.
 - d. As property owners in the affected catchments we request you consult with every property owner in order to explain your intentions. This process will be by way of a public meeting in April, date and agenda to be notified by postal delivery to each property owner within the catchments, with two weeks prior notice.

It is very important for the community and property owners to have their say on a plan that will affect their livelihoods into the future."

Roger also stated that the comments are not pointed at the members of the committee but at the process.

Tom Lambie spoke to the meeting on the background to the Addendum and the process that was followed. The National Policy Statement set the 2032 date for fixing Water Quality. The Land and Water Regional Plan (Environment Canterbury) sets the rules region wide and are the default rules, the sub-regional plan will set the rules for the smaller areas within the region eg; South Coastal Canterbury.

There have been several public meetings to discuss the limits and the scientific workings show there are green (meets water quality outcomes), orange (at risk) and red (water quality outcomes not met) in the South Coastal sub-region.

The Land and Water Regional plan has been scrutinised by Independent Commissioners.

The Land and Water Regional plan is the current default and that is that there will be no further nutrient loading in the red zone areas at the moment, the orange zoned areas have a +5% growth margin. Growth can happen through the Hunter Downs consent. There has been wide consultation with input from many stakeholders.

The plan addendum has the flexibility to encourage more water in the area through augmentation.

Time frame for going forward for the Sub Regional:

- Notify the Plan at the end of June 2014

It is important to note that Environment Canterbury made a budget big to Government to help with the restoration of Wainono Lagoon.

Concerns were raised from the public forum around farm sale prices – if land had been conservatively farmed and was looking to intensify in the future, it would appear that under the sub-regional plan they would not be able to do so, thus it would affect the price of the land.

Response – In a red zone (which a lot of this area is) under the Land and Water Regional Plan the default is that intensification is currently not possible at all, however in the sub-regional plan with augmentation that it may be possible within existing consents.

Concerns on the reliance of water from the Hunter Downs Irrigation Scheme – what if it doesn't go ahead.

Response – The plan states augmentation, it doesn't rely on Hunter Downs the community could in the future have a different source for augmentation.

There was further discussion on the process to date and the default position of the Land and Water Plan. Nic Newman (ECan – Zone Facilitator) spoke on the Canterbury Water Management Strategy and the targets that are wanting to be achieved. He also spoke of the need to look at the bigger picture and that the Zone Committee were trying to balance growing the economy with improving the water quality.

It was noted to the meeting that Hunter Downs are about to go out to the community to gauge the interest in uptake for the Irrigation Scheme – a prospectus is about to be released.

There was a suggestion from the floor that the sub regional plan be agreed in principal and then let the community have another opportunity for input into the process.

RESOLVED
LWSC14/02

G Keeling/P McIlraith

“That the written statement from the delegation be received and it be noted that the committee have listened to the questions and comments from those present.”

CARRIED

- 2.30pm Meeting adjourned
- 3.10pm Meeting resumed
- 3.10pm Tewera King joined the meeting

Item 3 Continued

Nic lead the committee through the addendum document and the feedback received. He noted specifically – the need for more emphasis on recreational use of waterways and potential conflict with Hunter Downs Irrigation.

It was noted that Environment Canterbury Staff would be working with Hunter Downs Irrigation consents to manage any potential conflicts, all the processes would need to align.

The transfer of nutrient loads was discussed – if one farm is under and one over would transfer of activity be possible. It was felt that in general this should not be allowed however it is something that the Committee needs to consider when making their recommendations.

Wainono Restoration Project – Recommendation 4. Requires all farms have on Farm Environmental Management Plans by 2017 to meet the Land and Water Regional Plan requirements. Discussion on if you have a consent and are meeting the conditions of the consent why do you need a separate management plan. The Farm Environmental Management Plan covers a wide range of on farm practice such as riparian management, wetlands and more. Further discussion included the need to demonstrate to the smaller landowners what the benefits are of having management plans.

Augmentation of Wainono Lagoon – numbers 9 and 10 have been added based on feedback received.

Reporting back to the Zone Committee was discussed – what monitoring will be in place to get the feedback on how this is working.

Wainono Water Quality Limits – Number 13 updated for Good Management Practice. Number 16 – request for flexibility added in.

The consequences of load limits being 15-20kg were discussed along with the best way to allocate the limits across the catchment:

Status Quo – based on land use and keep limits that are already in place.

Equal Allocation – take the total land area for the catchment and divide up by hectare. Everyone gets the same allocation.

The draft plan is based on the fairest middle ground on how to divvy up the load limit. This means that data from 2009 to 2013 operations and good management practice have been taken into account to try and get the end figure. There has been a lot of work done with different farming scenarios, soil types and load limits to help the committee decide the N limit. Environment Canterbury officers will work together with members of the farming community to produce an alternative option to be considered. An option that which provides more flexibility for low intensity land uses and which demonstrates clearly the consequences for high intensity land uses, of providing this increased flexibility within the load limit.

Appendix Two – The draft N-load limits for farming were discussed as per the table.

4.20pm Meeting Adjourned

4.35pm Meeting reconvened

Item 4 was discussed at this time and then continued Item 3.

The new wording for Item 21 was discussed – this discusses a review of the sub-regional plan if augmentation does not occur.

Northern Streams Water Quality – Number 9 was added – this refers to septic tank management in St Andrews.

5.07pm G Keeling left the meeting

Morven Drain and Sinclairs Creek Water Quality – The zone committee discussed the impact of conversation from border dyke to spray irrigation and the effect on the current N load. Is any reduction in use rewarded by an increase in flexibility in on farm practice. Should this stay within the property. The overall allocation would stay the same. How could this be managed, there needs to be a link to the property or managed by the irrigation scheme.

The Waihao Box – Leave as it is currently written.

Waihao Wainono Flow and Allocation – numbers 3 and 4 refer to out of stream storage. Numbers 12, 13 and 14 are new. Discussion on any water consents surrendered in the Waihao River are not to be reallocated. The committee would like to see the minimum flow figure lifted to reflect any surrendered takes. What is the incentive to give up ground water and get water from schemes?

Northern Streams Flow and Allocation – Number 2 changed. Suggested that the last line of the introduction be altered to read flows will be reviewed once new water is available.

Number 7 – the wording needs to be clarified.

Number 4 – name the certain sites mentioned.

Implementation, Monitoring and Review – no changes have been made and no feedback has been received on this section.

There was discussion on monitoring and enforcement of rules, there has been frustration with rule breaking and nothing being done about it.

Concerns were raised on gravel build up in the Otaio - if work is done in the river how will this affect the river when there is a fresh.

In recapping the committee discussed their concerns on the understanding of stakeholders of a red zone, there needs to be a further meeting with the community affected and the committee to explain in simple terms what this means.

5.55pm A Cocking left the meeting

The concerns raised today have been listened to and there will be more interaction with the community involved. The committee will meet with the Commissioners on 27 February (Robin Murphy, Tewera King) to present the sub regional plan and make them aware of the concerns that have been raised.

4. Implementation

Implementation Update

Judith Neilson tabled a revised Land Management and Implementation Update noting the changes from the update that had been circulated with the agenda as follows;

Hook Catchment – bullet point 3 – A full catchment meeting will now be on 12 March from 9.30am to 11.30am at Hook Hall.

Hakataramea Catchment Group – A full catchment meeting will still be held on 26 February from 10am to 11.30am.

Immediate Steps Funding Decision

A request for Immediate Steps Funding has been received for weed control to protect braided river and wetland habitats and the species they support from degradation and inevitable loss due to the invasion of willows. The request for funding is from the Hakataramea Catchment Group for the upper reaches of the Hakataramea.

RESOLVED

LWSCI4/03

P White/A Cocking

“That the funding for the Hakataramea Catchment Group weed control be approved to enable this project to proceed.”

CARRIED

It was noted that the Biodiversity group of the committee needs to be reset up.

Environment Canterbury are reviewing the Immediate Steps programme and are having a workshop on 11 March in Ashburton, Rob Coleman will collate zone committee feedback.

The group for liaison on this are Andrew Cocking, Kate White, Robin Murphy and Tewera King.

Zone Committee Input into Immediate Steps and Land Use Water Quality reviews

Ian Brown spoke to his paper circulated with the agenda on the Review programme. This review is about how Environment Canterbury do their business. The committee are asked to send any feedback on the questions posed to Rob Coleman to collate.

The committee returned to **Item 3** discussions

There will be an additional meeting of the committee if this is necessary to work through the sub-regional plan.

Congratulations were extended to Tom Lambie on his New Year Honors.

Tewera King shared a Karakia

Meeting closed at 6.10pm

AGENDA ITEM NO: 3	SUBJECT MATTER: Progressing the ZIP Addendum: South Coastal Canterbury
REPORT BY: Rob Coleman, , Ned Norton, Meredith Macdonald.	
DATE OF MEETING: Wednesday 19 th March 2014 13:00hrs	

ACTION REQUIRED:

- Discuss and provide feedback on the proposed way ahead including the letter requesting an extension to the timeframe.

ATTACHED

- Letter to Commissioners

BACKGROUND

In reponse to the concerns raised about nitrogen allocation at the Zone Committee meeting of 19th February 2014, the technical team are undertaking further work to describe the pros and cons of several alternative options for allocating nitrogen within the load limit to achieve outcomes already expressed in the draft ZIP Addendum.

No other significant changes to the draft ZIP Addendum are being explored, although staff will continue to work with the community in individual catchments regarding the detailed numbers for minimum flows and water take allocations, as previously agreed with the Zone Committee.

According to the timeline for this technical work, the team will be in a position to present their work and options to the Zone Committee in May, for the Zone Committee to decide and finalise the ZIP Addendum in July 2014.

NITROGEN ALLOCATION WORK PROGRAMME

The proposed work programme over the next three months involves four parallel threads:

- Technical work (data, analyses, reports, presentations)
- Form and liaise with a “N-Allocation Reference Group” to inform the work and share progress
- Keep the Zone Committee informed of progress (monthly)
- Wider community engagement

Each of these is described in more detail below.

1. Technical work

The purpose of the technical work is to describe several alternative ways of allocating nitrogen (within the load limit) and to assess the pros and cons of these options in comparison to the proposed nitrogen allocation framework currently in the draft ZIP Addendum. It is noted that the currently proposed framework is based on that developed by the Primary Sector Working Group during extensive discussions and consideration of alternatives in 2012-13 for the Selwyn Waihora Zone, as outlined in the Agenda Paper to the SCCS Zone Committee meeting of 16 October 2013.

In general terms, the technical work will consider and describe the merits of at least four nitrogen allocation approaches that have been discussed in Canterbury, nationally and internationally. These are colloquially known as: i) “Grand-parenting”; ii) “Averaging/Equal Allocation; iii) “Natural Capital/Land Use Capability; and iv) “Soil Vulnerability”, as well as sub-variants within these approaches. Staff will provide reading material that gives some general background on these approaches. In particular these approaches were assessed for the Selwyn Waihora Zone as part of the “Section 32 Evaluation Report”¹ to support the proposed sub-regional section to the Land and Water Regional Plan recently notified in February 2014.

The technical work will aim to produce analyses and presentation of results that are similar to those produced for the above Selwyn Waihora report but customised for the SCCS situation.

The work will explore the consequences of reducing the property level nitrogen discharge limits (kg/ha/yr) for high emitting land users (i.e. requiring better than Good Management Practice (GMP)), in order to increase the discharge limits (kg/ha/yr) for low emitting land users, thus providing the latter users with more operational flexibility. It is noted that the draft technical analysis undertaken to date suggested that better than GMP would be required from higher emitters in order to have a flexibility cap any greater than 10 kg/ha/yr. This was discussed at the Zone Committee meeting on 18 December 2013 and led to the inclusion of a 10 kg/ha/yr flexibility cap in the current draft ZIP Addendum. The technical work programme will now expand and complete that analysis.

¹ See section 10 (pages 75-98) of the “Section 32 Evaluation Report” on the ECan website at <http://ecan.govt.nz/our-responsibilities/regional-plans/regional-plans-under-development/ellesmere-selwyn/pages/default.aspx>

In brief the technical work steps from here include:

- Review and check of the N-load predictions already made for the SCCS area assessed to date.
- Assessment of current and potential future N-load from the SCCS area hill country – there is an area of hill country that was not included in the draft N-load estimates to date, due to missing technical information at that time – this gap will be filled to estimate total N-load for the complete SCCS area.
- Analysis of the economic implications of different combinations of N-allocation options for different land users.
- Analysis of the cost of different mitigation strategies to reduce N-loss.
- Production of maps showing estimates of the relative change in N-loss that would be allowed in different parts of the SCCS area under different allocation approaches.
- Reporting, summarising and communicating to inform a decision on the preferred approach.

2. N-Allocation Reference Group

An N-Allocation Reference Group will be established containing local representatives of different farming interests. The purpose of the group will be to: “Work with ECan to assess and describe the consequences of different options for allocating N load in the SCCS area”. The intention is that this group will be involved in checking the proposed technical work plan, contributing to that plan where appropriate, and reviewing progress results where possible. It is intended that this approach increases the likelihood there will be agreement about the technical information basis for decision-making.

3. Keeping the Zone Committee informed

The technical team propose to provide a short progress update report at the Zone Committee meeting on 16 April 2014, and then present the completed work at the Zone Committee meeting on 21 May 2014.

COMMUNITY ENGAGEMENT

To ensure the community are sufficiently engaged in the process, staff are proposing community meetings on 1 April and 21 May.

1st April Meetings

To update the community on the current rules and possible future management of the catchment. Staff suggest having two community meetings on the 1st April, both will contain the same information.

The meetings will allow the community the opportunity to hear and learn how the Land and Water Regional Plan affects them today and how the Zone Implementation Programme Addendum (ZIP addendum) will influence how those provisions could be changed in the future.

It is proposed the two meetings will be held in the Waimate Community Centre.

- Morning meeting: 10am to 12pm
- Evening meeting: 7pm to 9pm

21st May Meeting

The main purpose of the community meeting on the 21st May is to discuss the main viable options of allocating nutrients in the South Coastal Canterbury Streams area. The community will be asked questions about these options, and these comments will feed into the Zone Committee's final decision.

The proposed structure is that the Zone Committee will have their regular meeting in the afternoon (1pm to 5pm), and have the community meeting in the evening at the Waimate Community Centre (7pm to 9pm).

As customary, the community will be welcomed to the monthly Zone Committee meetings to hear how the Zone Implementation Programme Addendum is developing as well as other aspects they are discussing.

Staff will continue to work with the Zone Committee during the plan drafting stage for guidance/ clarification towards the Sub Regional section notification.

MEMORANDUM

FROM :

MATTHEW ROSS, ZONE FACILITATOR, ENVIRONMENT CANTERBURY

SUBJECT:

REGIONAL COMMITTEE FIELDTRIP TO LOWER WAITAKI SOUTH COASTAL CANTERBURY ZONE, 07 APRIL 2014

PURPOSE

- To invite Lower Waitaki (South Coastal Canterbury) Zone Committee to participate on a Regional Committee fieldtrip to the Zone on 07 April 2014.
- To confirm interest and availability of Zone Committee members to participate
- To identify Zone Committee members who could talk to key topics on the fieldtrip

BACKGROUND

The Regional Committee's 2nd routine formal meeting for 2014 will be held on 08 April 2014 in Timaru.

The Regional Committee has scheduled a fieldtrip to Lower Waitaki on 07 April 2014 to help further inform the committee on implementation progress in South Canterbury.

The Regional Committee would welcome the involvement of the Zone Committee on the fieldtrip as an opportunity to learning from the local implementation experiences to date.

The fieldtrip is outlined below. Sufficient space has been planned to enable all members of the Zone Committee to be involved if available.

In particular, it would be helpful if the Zone Committee could identify committee members who could take a lead in talking to specific items on the fieldtrip.

Outline of fieldtrip: *The exact route and locations of stops will be finalised during March 2014.*

Time	Where	What/Purpose
0900	Depart Chch Airport	Pickups @ Rollerston, Ashburton, Timaru
1230	Arrive Waimate	Meet Zone Committee – park private vehicles & join bus
	Waimate Location TBC	START FIELDTRIP Welcome/Introductions/Karakia Overview of zone Overview of fieldtrip/H&S Picnic lunch
1315	Travel to location 1	
	Location 1: Wainono	Wainono Cultural values ZC aspirations Regional Flagship Immediate Steps LUWQ management + limits Role of infrastructure Coastal erosion Recreation values

	Travel to location 2	
	Location 2: Waikakahi	Waikakahi Role of irrigation scheme in improving environmental health + biodiversity gains Cultural values
	Travel to location 3	
	Location 3: HDI route	HDI route Update on progress with HDI Importance of irrigation infrastructure in zone (local perspective on regional big picture) Links to Wainono and nutrient management
	Travel to Waimate	
1745	Waimate	END FIELDTRIP Karakia to close
	Travel to Timaru	
	Evening meal in Timaru	All participants on the fieldtrip

For awareness and to help place the fieldtrip in the context of CWMS implementation from a Canterbury wide perspective, the key components of the Regional Committee's work programme in 2014 are:

- Ongoing advice/comment on implementation from regional perspective on the following priority issues:
 - Ecosystem health and biodiversity
 - Land Use and Water Quality
 - Regional Infrastructure
 - *Recreation (currently being investigated by a Task & Finish Group)*
- By December 2014, provide advice to Environment Canterbury on:
 - Collective progress towards the 2015 Targets, identifying additional actions as required
 - Key implementation challenges and pathways 2015 – 2020

Matthew Ross
Zone Facilitator
10 March 2014

Land Management and Implementation Update - Judith Neilson

Date: As at Tuesday 11th March 2014

Makikihi/Otaio Catchment

- The full Catchment meeting scheduled for early April to inform on the ZIP Addendum has now been pushed out until early May to follow up from the SCCS community meetings in April
- The meeting will also focus on the relationship/role of the water user group and the wider catchment group
- This meeting will also provide the platform for the formation of a catchment Steering Group

Hook Catchment

- A full catchment meeting to begin the roll out of the Farm Environment Plan Project to the catchment is being held on Wednesday 12th March from 9:30am to 11:30am at the Hook Hall
- Follow up FEP workshops are scheduled for Tuesday 8th and Thursday 10th April and will be held at the Hook Hall. These will be supported by Nicole Phillips (Irricon) and Ian Brown (Environment Canterbury)

Hakataramea Catchment Group

- Full catchment meeting/workshop is organised for Wednesday 26th March at the Cattle Creek Hall from 1pm to 3pm
- Purpose of this workshop is to begin to identify what is important to people in Hakataramea from social, environmental, economic, cultural perspectives and how they wish to protect these values
- Identify what the 'risks' are within the catchment, particularly around nutrient management and nutrient allocation thresholds
- The goal outcome will be to have a catchment summary of these points that represents a consensus view
- This will then be used to look at the management approaches and tools that could be used to address these (this will be done at a follow up meeting)

Lower Waihao/Wainono Catchment

- Discussed with John Wilkie what the follow up to the meeting of the Advisory Group held on Tuesday 12th February 2014 is going to be. It is likely that another meeting will be held to discuss and clarify the role of the group and identify key projects
- Any projects identified will need to be confirmed by the whole group and an implementation work plan developed

Immediate Steps**Agenda item no: 4**

Subject	Lower Waitaki Zone Committee Immediate Steps Fund – update and project application for consideration
Authors	Kennedy Lange, Biodiversity Officer
Action sought	Information only
Recommendations	n/a

Background

The Lower Waitaki Zone committee has initiated a programme of scoping and identifying biodiversity projects that will contribute to meeting the required outcomes for the Canterbury Water Management Strategy (CWMS) for the Lower Waitaki Zone.

The availability of funding had been promoted by the Zone committee, through local community groups and publicity produced by Environment Canterbury.

A number of projects are now underway. The number of applications and enquiries is increasing as awareness around the projects and the availability of funding assistance develops.

Local community groups have been made aware of the Immediate Steps Programme and discussions with them as well as the Department of Conservation and Waimate and Waitaki District Councils have contributed to project identification.

Budgets

To date the Lower Waitaki Zone Immediate Steps Programme has paid out on invoices to the value of \$121,135 with a further \$326,005 committed by contract to approved projects.

There are also applications to the value of \$48,000 waiting approval for funding.

All of the applications that are pending approval fall within the Zone's identified priority areas and one project is presented in detail for the Committees approval in **Appendix 1** attached.

Project Updates**Nessing Stream Fish Barrier:**

Consent to undertake this work has been granted. The work was planned to start in January, however due to farming operations the site could be accessed, delaying the start to March /April.

The work has already commenced with the pre- construction fishing now completed.

Construction of the barrier will commence soon.

Hakatamea Willow Control:

Control work in the upper reaches is completed.

While there are occasional willows that are starting to yellow, the areas identified for control are green still and work is progressing.

It is anticipated that the control funds approved at the last committee meeting will be spent this month.

Wainono Restoration Project:Planting Day, Saturday 29th March 10-2pm

We would like to invite Zone Committee members to our planting day at Te Punatarakao on Saturday 29th March, 10:00am to 2:00pm.

The Te Punatarakao Wetland Restoration is part of the Tuia Partnership Project that is developing stronger working relationships between Rūnanga and Environment Canterbury.

This is a great opportunity to further enhance previous restoration works by Rūnanga, find out where the Wainono Restoration Project is headed over the next few years and enjoy meeting other people involved in the project over a barbeque.

This planting day will help restore a site that is very important to Te Rūnanga o Waihao and for biodiversity, providing areas for fish spawning and bird habitat

What to bring: Sunhat, sunblock, durable clothing and footwear, a spade if you can. Kids welcome. Barbeque lunch provided.

www.ecan.govt.nz/wainono

It would be great to see some Zone Committee members there and please let anyone else you think might be interested and welcome them along.

Mudfish Survey

To help prioritise activities for the project we have been trapping mudfish on farms in the Hook catchment.

We have been finding a number of new populations of this endangered species. At one site over 300 fish were trapped in a 100 meter reach of a small stream. They ranged in size indicating a healthy population and the land owner is keen to look at protection measures.

Appendix 1: Status of Lower Waitaki Zone Immediate Steps Projects

Applicant	Approved*	Actuals spent*	%
Dog Kennel Stream Ecosystem Protection.	15000	6908	46%
Duntroon Raupo Wetland 1	8221		0%
Hakataramea Longjaw Habitat DOC	20000		0%
Hakataramea Willow Control Environment Canterbury	50000	48000	96%
Findlay Downs	20264		0%
Highway Raupo Wetlands Hakataramea	4500	4500	100%
Hunter Arika Wetland Protection	9750	9750	100%
Makakihi Riparian Protection and Restoration	9240	9240	100%
Otiake wetland	32000	13509	42%
Parker's Bush Hall's Totara Covenant	28730		0%
Redcliff Farms Ltd	17000		0%
Regional and Zone Committee Wainono Restoration	72000	64088	89%
Settlement Road Stream Protection	23300	3000	13%
South Waitaki Canterbury Mudfish Ecosystem Protection .	6000	3640	61%
Young's Road Hunter Wetland Protection	10000	6500	65%
Total	326005	169135	52%

Total committed yet to be spent

156870

*Approved and under funding contract with the grant recipient

*Invoices received