

Canterbury Water Management Strategy

Waimakariri Zone Committee

Agenda

Monday 10 July 2017

3.00pm

***Function Room
Rangiora Town Hall
303 High Street
Rangiora***

Members:

David Ashby (Chair)
Grant Edge (Deputy Chair)
Michael Blackwell
Cameron Henderson
Carolyn Latham
Judith Roper-Lindsay
Gary Walton
Nigel Harris (Te Ngai Tūāhuriri Rūnanga)
Cherie Williams (Te Ngai Tūāhuriri Rūnanga)
Sandra Stewart (WDC Councillor)
Claire McKay (ECan Councillor)

Chairperson and Members

CWMS WAIMAKARIRI ZONE COMMITTEE

Agenda for the meeting of the **CANTERBURY WATER MANAGEMENT STRATEGY WAIMAKARIRI ZONE COMMITTEE** to be held in the **FUNCTION ROOM, RANGIORA TOWN HALL, 303 HIGH STREET, RANGIORA** on **MONDAY 10 JULY 2017** at **3.00PM.**

Adrienne Smith
Committee Advisor

**Recommendations in reports are not to be construed as
Council policy until adopted by the Council**

BUSINESS

PAGES

KARAKIA

1 APOLOGIES AND INTRODUCTIONS

REGISTER OF INTEREST

4

Conflicts of interest (if any) to be reported for minuting.

2 CONFIRMATION OF MINUTES

2.1 Minutes of the Canterbury Water Management Strategy Waimakariri Zone Committee meeting – 19 June 2017

5-12

RECOMMENDATION

THAT the CWMS Waimakariri Zone Committee:

- (a) **Confirms** the circulated minutes of the Canterbury Water Management Strategy Waimakariri Zone Committee meeting, held 19 June 2017, as a true and accurate record.

MATTERS ARISING

3 COMMITTEE UPDATES – Zone Committee Members, A Arps (Waimakariri Zone Delivery Team Leader, ECan) and M Griffin (Facilitator, ECan)

13-15

- CWMS Regional Committee Meeting – 13 June 2017
- Waimakariri Zone Delivery – Update
 - Immediate Steps
 - Communications and Media Reports
- Silverstream Salmon Hatchery – briefing and follow
- Towards a Draft Waimakariri Land & Water Solutions Programme
- Greater Christchurch Networking for the Environment Forum
- Action List

- 3.1 **CWMS Regional Committee Meeting 13th June 2017** – C Latham (Zone Committee Representative) 16-17

- 3.2 **Ashley Rakahuri Weed Clearance and Island Enhancement 2017** 18-24

RECOMMENDATION

THAT the CWMS Waimakariri Zone Committee:

- (a) **Approves** \$_____ of Immediate Steps funding to the Ashley Rakahuri Rivercare Group for the Ashley Rakahuri Weed Clearance and Island Enhancement 2017 project.

OR

- (b) **Declines** the application from the Ashley Rakahuri Rivercare Group.

- 3.3 **Immediate Steps – Funding Overview 2017** – J Butt (Biodiversity Officer, ECan) 25

- 3.4 **Waimakariri Water Zone Committee June Update** 26-28

RECOMMENDATION

THAT the CWMS Waimakariri Zone Committee:

- (a) **Receives** items 3.1-3.4 for its information, and with regard to the Committee's:
- 5 Year Outcomes
 - Drafting of the Land and Water Solutions Programme recommendations, and
 - 2017 community engagement priorities.

- 4 **STATUTORY FRAMEWORK FOR BIODIVERSITY** – S Leonard (ECan), and B Bray (WDC) 29

RECOMMENDATION

THAT the CWMS Waimakariri Zone Committee:

- (a) **Receives** the information provided in the Statutory Framework for Biodiversity presentation.

- 5 **PLAN CHANGE 5 & FARM ENVIRONMENT PLAN PROCESS – BRIEFING** – O Cook (Principal Planning Advisor, ECan), A Barbaty (Team Leader, Delivery Support, ECan), and I Brown (Principal Strategy Advisor, Land, ECan) 30

RECOMMENDATION

THAT the CWMS Waimakariri Zone Committee:

- (a) **Receives** the information provided in the Plan Change 5 and Farm Environment Plan Process presentation.

- 6 **GENERAL BUSINESS** – D Ashby and Zone Committee members

WAIMAKARIRI ZONE COMMITTEE

Register of Interests – at June 2017

Name	Committee Member Interests
David Ashby	<ul style="list-style-type: none"> - Director/shareholder: Pineleigh Farm Limited - Director/shareholder: Dave Ashby Rural Consultants Limited - Shareholder: Waimakariri Irrigation Limited - Member: Cust Main Drain Water User Group
Grant Edge	<ul style="list-style-type: none"> - Director: Edge Landscape Projects Ltd, Edge Plants Ltd, and Edge Products Ltd - Member: NZ Institute of Landscape Architects - Member: Urban Design Forum - Member: QEII National Trust - Member: NZ Forest & Bird - Member: Heritage NZ - 1ha property Fernside (shallow bore user)
Carolyn Latham	<ul style="list-style-type: none"> - Farmer: Sheep, beef and racehorse agistment - Director of Latham Ag Ltd Consulting - Shareholder: Silver Fern Farms, Farmlands - Registered Member: New Zealand Institute of Primary Industry Management - Member: Canterbury Ice Hockey Association
Claire McKay	<ul style="list-style-type: none"> - Dairy Farmer - Irrigator and shareholder: Waimakariri Irrigation Ltd - Holder of Groundwater take and use consents in Cust groundwater allocation zone - Holder of Effluent discharge consents - Member: Federated Farmers - Member: DairyNZ Dairy Environmental Leaders forum - Member: P21 Canterbury Industry Advisory Group
Judith Roper-Lindsay	<ul style="list-style-type: none"> - Director/ecologist: JR-L Consulting Ltd. - Land-owner/small-scale sheep farmer, Ashley downs - Fellow: Environment Institute of Australia and New Zealand (EIANZ)
Sandra Stewart	<ul style="list-style-type: none"> - Self-employed journalist - Land-owner, 4ha Springbank – sheep & dogs
Gary Walton	<ul style="list-style-type: none"> - Director, Walton Farm Consulting Ltd - Director & Shareholder, Loburn Irrigation Co - Trustee, Rugby World Heritage Trust - Ashley Rugby Football Club (Inc.) - Farmer, sheep & cattle, Loburn
Cherie Williams	<ul style="list-style-type: none"> - Member: Mana Whenua Working Party - Tangatiaki / Kaitiaki - NZTA Northern and Southern Bypass Rūnanga Representative
Cameron Henderson	<ul style="list-style-type: none"> - To be updated July 2017
Michael Blackwell	<ul style="list-style-type: none"> - To be updated July 2017
Nigel Harris	<ul style="list-style-type: none"> - To be updated July 2017

MINUTES FOR THE MEETING OF THE CANTERBURY WATER MANAGEMENT STRATEGY WAIMAKARIRI ZONE COMMITTEE HELD IN THE FUNCTION ROOM, RANGIORA TOWN HALL, 303 HIGH STREET, RANGIORA ON MONDAY 19 JUNE 2017 AT 5.05PM.

PRESENT

David Ashby (Chair), Grant Edge (Deputy Chair), Carolyn Latham, Michael Blackwell, Gary Walton (departed 6.45pm), Nigel Harris (Te Ngāi Tūāhuriri Rūnanga) and Sandra Stewart (WDC Councillor), and Claire McKay (Environment Canterbury Councillor).

IN ATTENDANCE

Mayor David Ayers (WDC), Dan Gordon (WDC Councillor, Rangiora-Ashley), Jim Gerard (WDC Chair, Rangiora-Ashley Community Board), Jason Holland (ECan Planning Team Leader), Ryan Hepburn (Te Rūnanga o Ngāi Tahu), Paul Reese (WIL), Brent Walton (WIL), Ewan Kellsell (Federated Farmers), Adrian Meredith (ECan Principal Surface Water Scientist), Gina McKenzie (Real Communications), Jason Butt (ECan Biodiversity Officer), Andrew Arps (ECan Zone Manager), Matt Dodson (ECan Hydrogeologist), Larry Burke (NZ Salmon Anglers Association), Karl French (Silverstream Hatchery), Owen Davies (WDC Engineering Design Team Leader), Michael Bate (Kaiapoi), Stephen Bragg (ECan CWMS Tangata Whenua Facilitator), Murray Griffin (ECan CWMS Facilitator) and Sarah Nichols (WDC Governance Manager).

KARAKIA

The meeting commenced with a Karakia conducted by S Bragg.

1 APOLOGIES AND INTRODUCTIONS

Moved G Walton seconded M Blackwell

An apology for lateness was received and sustained from N Harris.

Apologies for absence was received and sustained from J Roper-Lindsay and C Henderson.

CARRIED

C Williams of Te Ngāi Tūāhuriri Rūnanga, was absent.

REGISTER OF INTEREST

The Committee noted the Register of Interest with no changes.

2 CONFIRMATION OF MINUTES

2.1 Minutes of the Canterbury Water Management Strategy Waimakariri Zone Committee meeting – 8 May 2017

Moved G Walton seconded C McKay

THAT the CWMS Waimakariri Zone Committee:

- (a) **Confirms** the circulated minutes of the Canterbury Water Management Strategy Waimakariri Zone Committee meeting, held 8 May 2017, as a true and accurate record.

CARRIED

MATTERS ARISING

S Stewart requested an update relating to the Zone delivery quarterly update for May 2017.

S Stewart requested an update in relation to the First 500 project.

3 **COMMITTEE UPDATES** – Zone Committee Members, A Arps (Waimakariri Zone Delivery Team Leader, ECan) and M Griffin (Facilitator, ECan)

A Arps advised it was business as usual and an extension of the last quarter. He commented on the GMP campaign, with strong community awareness, however the drop-in sessions yielded a low attendance. Follow-up work was commencing with an aim to finish by the end of July.

A Arps commented on the infiltration trail, with the second stage of the consenting phase progressing, however work was anticipated to be two-three weeks away from commencement.

S Stewart sought clarification on the area, with staff advising that the Prattleys Farm was located near the Eyre River, where a trench would be dug measuring 200m long x 2m x 2m deep and be situated 20m away from the Waimakariri Irrigation (WIL) system to enable observation and data collection on effects.

G Edge enquired if the trial was in conflict with Runanga views. A Arps advised cultural values and various aspects had been covered with the Runanga.

C McKay queried WIL consents with staff confirming all consent matters were currently in order.

D Ashby enquired how many of the 68 farmers requiring consents had been lodged. A Arps advised approximately 10-15 consent applications had been received.

G Edge enquired of the time limit on consents. A Arps advised ECan staff would be following up with land owners in November, however the current focus was on working with the farmers. Follow up process would start with phone conversations, followed by a site visit then subsequent action. He confirmed this process related to the orange and red zones.

Moved M Blackwell seconded G Walton

THAT the CWMS Waimakariri Zone Committee:

- (a) **Receives** Priority Project Meetings, CWMS Regional Committee Meeting – 9 May 2017, Recreation and Amenity Working Group, Waimakariri Zone Delivery – Update, Communications (Towards a Draft Waimakariri Land & Water Solutions Programme) and the Action List for its information and with regard to the Committee's 5 Year Outcomes and 2017 Community Engagement Priorities.

3.1 **RAWG Follow Up on Swimming Sites - Sub-Committee Feedback**

The Committee received the information.

3.2 **RAWG Follow Up on Priority Recreation Sites - Sub-Committee Feedback**

The Committee received the information.

3.3 **Waimakariri Zone Proposed Priority Recreation Areas**

The Committee received the information.

3.4 **Pines Beach Summary**

Staff outlined the project for the next three years, which included substantial work on controlling weeds. Staff commented on the values with national plants of significance.

It was recommended that \$27,000 be allocated in the first year, \$25,000 in the second year and \$30,000 in the third year.

M Blackwell enquired if there was alternatives to glyphosate. Staff advised basal bark spraying and biodiesel were options but advised of the risks.

C McKay expressed concern for work proposed in years two and three, and queried what may be needed later.

The financial year allocation was explained by staff, with the first year being 2016/17 allocation for summer work in 2017.

G Edge spoke in support of the project and extension of Trust work that is professionally managed. G Edge did query the stage the Trust work is at on the tracks. Staff commented on the small number of tracks which were often too wet to access and may require boardwalk access. G Edge requested an update from the Trust on how it links with the red zone and a reminder of the vision of the coastal area.

Staff explained benefits of funding and wetlands complete the project.

C McKay stated that now the funding had been explained she was more comfortable with allocation in years one and two.

C Latham enquired on the cost breakdown. Staff explained costings and differences between applications.

C Latham sought clarification on what the kill rate was of an area already done. Staff confirmed a high success rate with very little re-growth. Any mopping up work would be for seedlings and look at waist height for normal spraying in future years.

G Edge queried the pine forest harvesting. Staff advised the area will be replanted in pine but phased out over time to include native species.

D Ashby sought clarification on the land owned by R Winter. Staff advised it was fenced and land would be protected by the landholders word. Staff do have a letter from the landowner stating the area would not be used for grazing. C McKay enquired if the landowner would consider a covenant under the QEII scheme. Staff thought it a possibility worth further discussion.

C Latham sought clarification on the funding \$100,000 with \$25,000 being allocated. Staff confirmed figures and spoke of carryover funds.

G Edge commented that given the level of funding, the Trust had come back each year instead of one big plan.

C Latham asked for an Immediate Steps funding an update at the end of each year.

J Butt offered an alternative option due to current fund availability to combine year one and two now.

S Stewart requested a regular update on the immediate stages and funding. Staff noted this request.

M Blackwell sought clarification of drain, boundary and ownership of R Winter land.

D Ashby commented on funding and letter regarding a long term lease. J Butt commented on covenant issues and ECan ten year protection rules which can be put in place. D Ashby commented it would be detrimental if the land was sold and the investment lost.

Moved C McKay seconded G Edge

THAT the CWMS Waimakariri Zone Committee:

- (a) **Approves** Immediate Steps Funding request from Te Kōhaka o Tūhaitara Trust for \$83,000 towards Pines Beach Wetland Weed Control – Stages 3, 4 & 5, with years one and two being utilised immediately from the 2016/17 budget.

CARRIED

Sandra noted funding information would be useful to have at the time applications were considered.

3.5 Smiths Drain 2017 Summary

Staff outlined the immediate steps; within regional parks including work undertaken by engineers, rangers and National Trade persons, to clean up and establish new vegetation. Planting and after care maintenance under willows in Silverstream Reserve was outlined. ECan support up to 2/3 of costs but the application only asked for 1/3 of costs.

Moved G Edge seconded C Latham

THAT the CWMS Waimakariri Zone Committee:

- (a) **Approves** Immediate Steps Funding request from Canterbury Regional Council – Parks and Forests for \$14,919.42 towards Waimakariri Corridor – Smiths Drain (North Bank of Waimakariri River – Lower Half).

CARRIED

G Edge commented on his support for the project.

3.6 Report on the Biodiversity Values of the Ashley/Rakahuri River

J Butt advised Ashley/Rakahuri Rivercare Group (ARRG) had been undertaking work since 1999 for trapping and education on using the river sensibly. Birds are declining due to nesting issues and not having breeding sites available due to low flows or floods, weeds and cover for predators. A brief summary on biodiversity was provided. It was suggested to consider providing future security and a long term need to consider funding projects.

G Edge spoke of the management plan of the river, enquiring if the Committee could brainstorm and look at the multiple issues, then compare against the Management Plan. J Butt agreed.

C Latham commented on work undertaken in the Clarence River area and a future briefing by Steve Palmer (ECan Biosecurity Advisor) to discuss the project experience of setting up habitat islands. Comment was made of improved breeding success from these islands.

C Latham queried the Upper Rangitata and Upper Waitaki projects. J Butt outlined his understanding of the projects. Weed control was part of the project and creating a mixture of habitat islands.

C Latham queried if spray and river flood clears dead weeds. It was advised the process naturally takes care of itself.

G Edge spoke of a weed expert and different approaches. He suggested J Roper-Lindsay, C Latham and J Butt form a working group to look at matters further.

3.7 **Waimakariri Water Zone Committee May Update**

C Latham advised the update was yet to be completed but would be ready for the July meeting.

The presentation from Ken Hughey on regional swimming sites was commented on, and could be circulated to the Community Boards.

4 **RECREATION AND COMMERCIAL SALMON FISHERY – BRIEFING**

Presentation by Larry Burke (Vice President of NZ Salmon Anglers Assn. Inc.) and Karl French (General Manager of Silverstream Hatchery)

L Burke spoke of the history of the Silverstream Hatchery, dating back to 1975 when it was handed over to the government before being mothballed in 1981 due to whirling disease. At that time Ocean harvesting came to the fore, with the Silverstream operation trialling other fish species in 1984. In 1997 the government sold the main salmon research operation and Silverstream became the main source of NZ salmon smolt. In 2009 the government sold the operation but it continued to release fish through the department of Fish and Game.

K French provided a background of salmon farming in New Zealand, and of current operations.

King Salmon from New Zealand provided 70% of the world supply, while the rest of the world farmed Atlantic salmon. New Zealand, and indeed Silverstream developed a niche market worldwide. NZ salmon are only able to be produced in the South Island due to cold waters. There are four large operators, four tourist operations and several small operations in the South Island currently. Silverstream only generate funds to cover operating costs. K French commented on freshwater breeding, being co-owners of the hatchery on Department of Conservation land and having the ability to sell stock to any farmer.

In the past Silverstream have raised approximately 700,000 smolt per year, however in recent years the quantity has reduced to approximately 500,000. Low water flows in the past three years particularly have had an effect with no stud stock.

K French spoke of the operation contributing approximately \$40m to the South Island economy. Issues related to wild salmon numbers, antibiotics, low and warm water were all mentioned in relation to effects on fresh water breeding.

Being spring fed, Silverstream had a number of issues to manage which included last summer adding oxygen to the water at the hatchery and increasing flow to enable the continued operation. Solutions, including the need to protect a deeper bore, and complexities to keep the river flowing or potential demise of the hatchery were outlined.

K French spoke of ecological requirements and impacts on the hatchery, balancing stream health, nitrates and economic impacts. Effects of long term exposure to nitrates on salmon through their various stages of growth was briefly discussed.

L Burke commented on the history of fishing the lower reaches of the Kaiapoi River, volumes and size of fish, licences issued and economics to the local area. His personal observations since 1990 of fishing, with some improvements in water quality (waste water reduction), impacts from the earthquakes with a dropped lower reach on the Waimakariri causing an estuary like situation which has drawn fish life back into the river's lower reaches. Native plants have increased as well as bird life, with fewer willows. L Burke commented on birdlife, kingfishers, bittens, white heron, fish life ie whitebait, native bullies, flounders and rainbow trout. The mix of anglers (social, families, mixed with international and cultural aspects) were commented on.

The speakers commented on fresh water being needed for ecological reasons and spawning conditions; ecological support network with other wildlife and the need for enough water to continue the hatchery.

Salmon spawning through Kaiapoi river system and upstream of rivers is slowly improving.

C Latham commented on the past three years of drought, enquiring about past droughts and affects. L Burke commented on the 1998/99 year, regarding size/weight of fish and the 2016/17 year affecting maturity and feed source.

D Ashby enquired how many years the hatchery had been pumping bore water into Silverstream. It was advised normally six months of pumping occurs, however last year was all year to protect stocks. The bore water has been tested for nitrates with an average of 6.8.

C McKay thanked both speakers for their informative discussion and providing a greater understanding of the operation and factors influencing salmon.

D Ashby, as Chair, thanked the presenters for their interesting and informative presentation.

5 **WAIMAKARIRI IRRIGATION LTD UPDATE – BREIFING**

Brent Walton from WIL provided an update of operation, advising a newsletter had been despatched. The core activity currently is on the Good Management Practice (GMP) consent to 2020, and working on stage 2 of the practical approach for achieving GMP. All properties with Farm Environment Plans (FEP's) will have soil monitoring and scheduled servicing to water when required and minimise leaching. B Walton explained costs and contracts with monitoring, with a farmer led solution being the aim. B Walton commented on the south side of the Eyre River and user group recognising more than GMP was needed.

B Walton commented on water storage, evacuation plans and project impacts. There had been a high level of community engagement. WIL expected to return to the Environment Court towards the end of the year.

Paul Reese from WIL commented on FEP progress, measures, scheduling and farm environment in relation to nitrates and nutrient levels. Farmers are aware of changes and impacts, with steady progress being made which was encouraging. Farm benefits and economics were briefly discussed, as well as occurrence of small blocks of developments and ongoing education with farmers.

G Edge queried developments including research projects and seed producers. B Walton responded in relation to ongoing education. P Reese commented on other options other than urea and market learning of new options.

B Walton commented on Silverstream, the WIL consent and variation required.

Moved C McKay seconded C Latham

THAT the CWMS Waimakariri Zone Committee:

- (a) **Receive** the two briefings with consideration to the issues and options being considered as part of the development of the Waimakariri Land & Water Solutions Programme.

CARRIED

M Griffin spoke to the report, noting G Edge, M Blackwell, S Stewart met as a subcommittee group on 12 May, with notes in the agenda. The committee could add to the overall aspect.

C McKay requested to withdraw Downs Road discussion from public discussion due to the need for sensitivity related to private land areas and individual responsibility.

G Edge queried information relating to five recreation sites. It was noted people recreate in corridors up rivers and over a wider area. As resource and management terms it was felt a need to explore a wider discussion and area then drill down to site specifics later.

G Edge commented on the:

- Coastal corridor and linkage with a 200year vision;
- Silverstream corridor through to the Kaiapoi River
- Waimakariri River corridor and adjacent current regional recreation parks (incl. Ashley River)
- Ashley Gorge and Okuku areas being rich in amenity values.

G Edge sought approval from the group on the direction the subcommittee was taking on the subject. He spoke of the CWMS Regional Committee having no funds, but looking to take thoughts to foster a strategic approach going forward. An option suggested was to discuss this approach to swimming and recreation with the Community Boards.

6 **GENERAL BUSINESS** – D Ashby and Zone Committee members

C McKay commented on how the Committee deal with different sectors of the community. There was a strong element of trusting members meeting with various groups, and holding a variety of conversations. Time, expertise, and trusting each other and the staff would make small differences now for longer term gain she stated.

The Chair commented on the workshop held earlier in the day, thanking both committee members and staff for their input into the process.

G Edge commented on the importance of on-going communication.

S Bragg acknowledged the guest speakers for sharing their story and experiences of Salmon in the Waimakariri area. The story came from the heart and was greatly appreciated.

S Bragg closed the meeting with a Karakia.

NEXT MEETING

The next scheduled meeting of the Waimakariri Water Zone Committee is on Monday 10 July 2017 commencing at 3.00pm.

THERE BEING NO FURTHER BUSINESS, THE MEETING WAS CLOSED AT 6.48PM.

CONFIRMED

Chairperson

Date

AGENDA ITEM NO: 3	SUBJECT: Committee Updates
REPORT TO: Waimakariri Water Zone Committee	MEETING DATE: 10 July 2017
REPORT BY: Murray Griffin, CWMS Facilitator – Waimakariri, ECan	

PROPOSAL

This agenda item provides the committee with an overview of updates for review.

RECOMMENDATION

- The Zone Committee are asked to receive these updates for its information and with regard to the committee's 5 Year Outcomes, drafting of the Land and Water Solutions Programme recommendations, and 2017 community engagement priorities.
- The committee are also asked to consider the application submitted at this meeting for Immediate steps funding as follows:
 - Ashley Rakahuri Weed Clearance and Island Enhancement 2017

COMMITTEE UPDATES

The following updates are tabled for the committee:

- **CWMS Regional Committee Meeting – 13 June 2017**

The last Regional Committee meeting will be held on Tuesday 13 June, with the next meeting scheduled for 8 August. The Regional Committee's Working Groups are scheduled to meet on 11 and 12 July. The link to the Regional Committee papers is provided below:

Link: <https://ecan.govt.nz/data/document-library/?Search=regional+water+management+committee%2C+agenda&documentTypes=-1&pageSize=12&start=1&sortDir=desc>

- Carolyn Latham, the Zone Committee's CWMS Regional Committee representative, has prepared a report on the 13 June meeting which is provided as **agenda item 3-1**.

- **Waimakariri Zone Delivery – Update**

Zone Delivery Manager, Andrew Arps, will provides an update for the committee on current team priorities and actions.

- **Immediate Steps**

One project are provided as **agenda item 3-2** for the committee's consideration.

- 3-2 Ashley Rakahuri Weed Clearance and Island Enhancement 2017

ECan Biodiversity Officer, Jason Butt, will be available to provide an overview of these applications and answer any questions on these applications. Please refer to **agenda item 3-3** for an overview of Immediate Steps 2017.

- **Communications – June Communications/Media Report**

The June Water Zone Committee E-newsletter is provided as **agenda item 3-4**.

- **Media and Communications Report – WWZC June 2017**

- <https://www.odt.co.nz/business/farming/one-environment>
- Lance Main commented on working with the WZC as part of an article profiling his win at the Balance Farm Awards
- Mr Main has also been part of the Waimakariri Zone Committee's farmers' liaison group, where the committee "bounces ideas off us as a reality check to see if their thinking is going to be a realistic way of doing it". "It's very good as it helps us to understand the decisions and where land and water is going. "I think the best management practice model that they are planning to run with is a good one, and if everyone attains it, we will be sweet."
- 30/6/17 – June zone committee newsletter sent out
- 27/6/17 – filmed at various sites around Waimakariri with Makarini Rupene on the cultural story of water relating to the CWMS – videos/articles/photos to be circulated next month
- 6/7/17 – Everything's Connected cinema ad to start screening at Rangiora Cinema. This focuses on how everyone has a part to play in caring for Waimakariri waterways
- Currently working on opinion pieces for local newspapers and for Lifestyle Block and Latitude magazine

- **Silverstream Salmon hatchery – briefing and follow up**

Matt Dodson was encouraged by committee members to follow up with Karl French and Larry Burke following their briefing to the committee at the May Zone Committee meeting. Having done so, Matt will provide an update to the committee on his follow up with Karl and Larry at the Hatchery.

- **Towards a Draft Waimakariri Land & Water Solutions Programme**

At their 19 June 2017 workshop, the WWZC received direction and provided feedback for the technical team regarding the following key decision areas of the Waimakariri Land and Water Solutions Programme – instream ecosystems, and protecting and enhancing cultural areas. A summary of this workshop will be tabled for the committee for review at this meeting.

- **Greater Christchurch Networking for the Environment Forum**

There will be a greater Christchurch 'Networking for the Environment' forum on Thursday 3 August, 9.30am-12pm, at the Fendalton Library. This forum will focus on the Christchurch City Council waterways partnership and social enterprise models and approaches. Representatives from the Waimakariri Water Zone Committee would be welcome to attend.

Action List

- An updated list of action points from previous meetings will be tabled with the committee to confirm completed items and ongoing follow-up.

RECOMMENDATION

- The Zone Committee are asked to receive these updates for its information and with regard to the committee's 5 Year Outcomes, drafting of the Land and Water Solutions Programme recommendations, and 2017 community engagement priorities.

- The committee are also asked to consider the application submitted at this meeting for Immediate steps funding as follows:
 - Ashley Rakahuri Weed Clearance and Island Enhancement 2017

CWMS Regional Committee Meeting 13th June 2017

1. Zone Committee Updates:

- Waimakariri: Summarised community engagement Oct/Nov/March and noted workshops schedule to discuss 7 key decision areas issues and options, leading to recommendations for a draft ZIPA and further community engagement by October 2017. Described characteristics of zone - proximity to Christchurch, much of population in low-lying eastern areas, rising nitrate in Silverstream originating from light soils in Eyre, groundwater supplemented by WIL irrigation races and WDC stockwater races, significant cross-roads, meeting place and home for Iwi - once abundant with mahinga kai, significant and on-going population growth, urban contaminants are contributing to water issues, and an area of significant recreation opportunities. Recent IMF project approved providing a fund to Ecan for significant spring heads. Ashley Rakahuri River Care Group concerned about woody weeds in Ashley River and applying for clearance work for bird habitat. Kaikoura and Upper Waitaki zones carried out similar work which has been successful. Saltwater Lagoon/Ashley River mouth assessment concluded in the C band of Estuarine Trophic Index – an important area in the zone particularly for improving mahinga kai and associated cultural values. Science Stakeholders Advisory Group and Farmers Panel providing useful feedback to committee. Joint Hurunui-Waiau/Waimakariri ZC meeting at Tuahiwi Marae provided a useful forum. Two new community members shortly to join WWZC. A query was received regarding where the ZC is at with lifestyle blocks and advised that not much had been done to date, and it was also a matter for Waimakariri District Council.
- Banks Peninsula: Lake Forsyth a major issue with no simple solution to solving lake health issues. P the main issue and trying to stop further P, but so much legacy P already in lake that algal blooms will continue for a long time. They need more scientific input on how to tackle the lake, and would like to set up a management board/structure to pull together all the different work strands that have/are being undertaken. One of the ZC members is working with BP farmers with FEP's, and bringing biodiversity into the plans which is fitting in well with CCC biodiversity work. They want Ecan to start monitoring fish species that are not currently monitored.
- Kaikoura: Due to the earthquake they are thinking it may be better to delay the sub-regional process so that they can focus on actions. This is mainly because there are lots of uncertainties around groundwater changes, whether they are permanent or temporary as a result of the earthquake. There are now a lot of natural hazards along with flooding and the impact of sediment. Consideration is being given to appropriateness of some current land uses. On a more practical side, information is being provided on products such as flexible water fittings, because broken pipes were a big issue after the earthquake.
- Ashburton: Focussing on the area north of Ashburton River. Looking at how FEP's are performing and what else needs to be done. Reviewing the performance of the MAR, and a governance group has been established to consider on-going matters such as getting access to water. Initially the MAR was a one year trial and it has been effective at reducing N, but there have also been learnings such that a shingle pit may not be the most efficient way of getting water into the groundwater.
- Upper Waitaki & OTOP: Both ZC's are working through their ZIPA actions. Toilets, car parking and signage are a priority. The ZC has been concerned about a proposal to pipe water from Lake Tekapo into the OTOP zone which had not officially been brought to the ZC or local iwi's attention. Government Departments have been involved with discussions to date, but the ZC considers they should have been advised.
- Hurunui-Waiau: Considering whether to do a targeted Plan review, a full plan review, or no review at all. There is a big cost to doing a full review and the ZC are reluctant to put the community through it all again, therefore targeted may be a better approach.
- Selwyn-Waihora: The ZC have been involved with BRAID organising water quality seminars to be run at Lincoln over the next few months so that people can be better informed. Concerns regarding Arthurs Pass roadworks had been investigated and nothing untoward is happening with respect to water discharges. The ZC had received allegations against them by passionate

residents, however it was determined that the information obtained was not necessarily correct and the matter is now resolved. A Mahinga Kai Facilitator position is being advertised and it will be their job to implement the Cultural Values Landscape Area around the lake. The area will affect quite a few farmers who will need to make sense of the mahinga kai issues, and the new facilitator's role will be to assist with that. It could also expand into other areas of water quality.

- Christchurch-West Melton: ZC has advised residents regarding flooding initiatives by CCC on Heathcote River. There is concern about non-native plantings. Initiatives are coming forward for the red zone, including a proposal for a rowing lake. A big clean-up has taken place on part of Heathcote River attended by many. Overall a reduction in rubbish in the area has been noted. There is a big project underway in relation to the Port Hills recovery.
- 2. CWMS Target Reporting: First draft due end of June and direct feed-back is sought from a sub-group of the RC. Consideration being given to sharing of information between organisations, pulling together pockets of monitoring, identifying where baselines are required, and how to achieve a consistent approach. Some of this should be coming together, eg water use monitoring, as the 2020 targets are coming due which will assist with reporting. Zones are all progressing at different rates which adds to complexity. However it is important to be able to update progress so that groups such as the RC can work out what is needed to move forward.
- 3. River & Lake Swimming in Canterbury: 7 ZC's provided feedback on the spreadsheets and more information is sought. The information can be sent out to community boards for further feedback. 105 sites have been identified across Canterbury and another 20-30 are expected to be identified via the ZC's. Many more are likely to be unidentified. Ashley Gorge and Waimakariri River are the top two Canterbury sites. Issues around some of the sites include lack of access signage, lack of e-data for user friendly info on sites, lack of facilities, some no longer swimmable due to water quantity/quality, or other factors more easily managed such as willows. Population is having an effect on site usage, for example Ashley Gorge with high numbers putting some visitors off, other sites are needed to complement these. There are some liability issues for Councils in actually promoting use of sites, rather than just providing info such as water quality. Councils should be looking for signage partners. Sufficient monitoring is also required, with an appropriate budget.
- 4. Drinking Water Update: Re the Havelock North contamination enquiry, stage 2 "why it happened" is now underway which will culminate in recommendations for management of water supply across New Zealand. The Canterbury TA's, Ecan and CDHB will be putting in a joint submission on this. Anyone can submit direct to the enquiry, and the outcome of stage 2 is expected early 2018. It's a very important issue for Canterbury as there are a lot of untreated drinking water sources and it is import to protect the source - water treatment can actually be a cop-out for polluters. Rural water schemes are difficult due to the sparse populations, most of the water is for stock, and full treatment is not affordable. From a zone perspective it is also important that the ZC's make sure landowners are aware if they are in a community water protection zone or not.
- 5. Urban Water Story: Ecan has launched their urban campaign telling the Canterbury water story. Cultural mapping is also underway including Maori place names, which could also be a consideration for improved waterway signage.
- 6. Biogas: One of the RC members was in favour of ZC's being used to put information regarding bio-gas technology out to farmers, however it was pointed out that industry are already well versed in new and emerging technologies.
- 7. Infrastructure and Biodiversity Working Groups: These groups are currently running together. One question being asked is whether the Rakaia River conservation order is actually working.

Ashley Rakahuri Weed Clearance and Island Enhancement 2017

Project Details

Supporting Organisation/Community Group	Ashley Rakahuri Rivercare Group
Project CWMS Zone	Waimakariri
Project Location	Ashley Rakahuri River Between E: 1558831.07 / N: 5208260.81 and E: 1571302.23 / N: 5208331.58
Nature of Project	Creation, Enhancement, Protection
Habitat Type	Braided Rivers, Dryland Ecosystems
Project Aim	To protect and restore previous and existing breeding habitat of wrybill, black-fronted tern and banded dotterel in the lower reaches of the Ashley-Rakahuri River.
Project Outcomes	Creation of nesting habitats (river gravel islands) Remove weeds, such as lupin, gorse and broom, from the islands allowing the creation of the required open riverbed sites with clear ground horizons for successful breeding and to reduce predator habitat Create predator-free islands Increase bird and chick survival during the nesting season due to a reduction of weeds and pests Decrease anthropogenic disturbance during the breeding season
Works to be undertaken	Pest control area (ha): 50.00 Weed control area (ha): 50.00 Earthworks to shape islands and remove weeds Costs permitting - additional clearance of weeds from within-river spring sites that are important bird-feeding areas Note that ongoing monitoring, predator trapping will occur alongside the above actions.

Funding Requested

From ECAN	From Other Sources	Estimated Total (Applicant)
\$13,170.00	\$41,930.00	\$55,100.00

Funding

Project Tasks	Funds Requested	Contributions from Other Sources	Totals
Mechanical woody weed clearing	\$12,000.00	\$23,000.00	\$35,000.00
Predator traps:			
DOC200 x 10	\$450.00		\$450.00
TIMS x 12	\$720.00		\$720.00
Labour (trapping), 88 hours @ \$20/hr		\$1,760.00	\$1,760.00
Labour (excavator supervision), 80 hours @ \$20/hr		\$1,600.00	\$1,600.00
Labour (weed control), 120 hours @ \$20/hr		\$2,400.00	\$2,400.00
Totals	\$13,170.00	\$41,930.00	\$55,100.00

Ecological Assessment

Fundamental Project Criteria

1. Reflects the Canterbury Biodiversity Strategy's Guiding Principles

Y	Focuses on protecting and maintaining what remains
	Focuses on restoring what has been lost

2. Contributes to the Canterbury Biodiversity Strategy's Goals (1-6)

Y	Protects or maintains the health of significant habitats and ecosystems
Y	Restores the natural character of degraded indigenous habitats and ecosystems
	Increases the integration and sustainable use of indigenous species in modified environments (e.g. farm, urban, lifestyle blocks).
Y	Enhances the public's awareness, understanding and support of biodiversity
	Encourages, celebrates and supports action by landowners and communities to protect, maintain and restore biodiversity
Y	Improves the range and quality of knowledge and information about Canterbury's biodiversity for its sustainable management

3. Project Viability

Y	Project is feasible, cost-effective and an efficient use of funds.
Y	Project will realistically achieve outcomes/gains it is aiming to.
	Project is sustainable (e.g. any ongoing or future management requirements are identified and affordable).
Y	No other potential costs (e.g. consent costs) that may make the project less viable and/or affordable

4. Landowner Support

Y	Project has landowner support
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5. Eco-sourced Plants

	Eco-sourced plants being used
Y	Not applicable

6. Is some or all of the work required under the Regional Pest Management Strategy?

	RPMS
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7. Is some or all of the work required under a District/Regional Council Plan?

	District/Regional Council Plan
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8. Proportion of cost

0	Protection
0	Restoration
100	Creation
0	Monitoring

Existing Ecological Values		
Criteria	Score (0 - 3)	Comments
Representativeness	2	These sites still support reasonable numbers of shore birds. [pg - I would have imagined that as weed control is the purpose of the project, the current condition of the area is 'sub-optimal' despite bird presence. Have adjusted score accordingly.]
Rarity or Distinctiveness	3	Provides habitat to shorebirds. More particularly these sites provide nesting and chick raising habitat for 3 species of Threatened birds and 2 At Risk species, some of which are declining due to recruitment failure.
Diversity and Pattern	1	The habitats are somewhat homogeneous which is a characteristic feature of braided riverbeds. The presence of the shorebirds does indicate that the expected diversity of habit is present to varying degrees. [pg - project area is currently of low diversity / pattern.]
Naturalness	0	
Ecological Context	1	Provides valuable safe nesting habitat for shorebirds, particularly black fronted terns, banded dotterel and wrybill [pg - hopefully will do when project carried out. But does the project area currently provide safe nesting habitat?] [jb - clarification: The project will provide additional valuable safe nesting habitat for shorebirds, particularly black fronted terns, banded dotterel and wrybill]
Size and Shape	0	
Project Protects a Threatened Environment	0	The site is an active braided riverbed with little indigenous plant life. The habitat value of the target site is the freshwater invertebrates and the relative absence of vegetation. [pg - the active beds of braided rivers generally lie outside the Threatened Environments Classification]
Project Protects a Wetland or Coastal Dunes	0	The site occupies the wetted margin of the river and the gravel bed. [pg - might be stretching a point here. Other assessments tend not to classify rivers or streams as 'wetlands']
Project Protects Naturally Rare or Distinctive Habitat	3	Braided rivers are a distinctive feature of the Canterbury Plains and are of international significance. [pg - yes braided rivers are classified as a naturally uncommon ecosystem (Williams et al. 2007)]
Project Protects Rare or Threatened Species	3	Black fronted terns - Nationally Endangered, Banded Dotterel & Wrybill - Nationally Vulnerable nest at these sites, along with SI Pied Oystercatcher and Pied Stilt - Declining.
Sub-total	13	Braided river bed habitats are generally threatened by weed encroachment across the region.

Potential Ecological Values (in 10-15 years time – based on likely change)		
Criteria	Score (0 - 5)	Comments
Project Design is Effective/Addresses Key Threats	5	The key threat to the species that will benefit from this work is recruitment failure. Loss of suitable nest sites, predation and access to food sources are all addressed by the ARRG under this proposal. [pg - have other threats e.g. predation by black-backed gulls and harriers; human and dog disturbance been considered]

		also?] [jb - ARRG are addressing some of these threats - human disturbance and river use during nesting season, in particular. Black billed gulls and harriers are not addressed under this proposal]
Project Potential/Positive Impact Ecologically	3	If a way can be found to sustain the gains made by the initial action there is potential for quite substantial biodiversity gain to the Zone and in the wider context. Keeping the areas free of scrubby weeds will ensure there will be a minimum level of secure nest sites each year. There may be need to revisit mechanical intervention at some point in the future depending upon frequency of flood events. [pg - from comments above there does seem to be some uncertainty about level of benefit. Perhaps that should be reflected in the assessment score] [jb – score adjusted]
Value for Money or Cost Benefit	5	Considering the area of improved habitat that will result from the granting of funds to this project there is considerable value for money.
Sub-total	13	If well supported this project could lead to additional benefits. Opportunities may present to establish additional populations of kakī at some point and if suitable safe habitat is maintained on the Ashley/Rakahuri it could play a part in the conservation and security of this iconic South Island wader.

Other Criteria (non ecological or cultural)

Criteria	Score (0 - 3)	Comments
Legally Protected	3	The site is within the Ashley Rakahuri Regional Park. The river fairway is subject to gravel extraction.
Educational or Partnership Value	3	The ARRG is very active both locally and regionally in the dissemination of braided river biodiversity management activities and outcomes.

Immediate Steps Criteria

Criteria	Score (L, M, H)
ZIP D2.1 - Addresses both natural character and biodiversity issues in the Ashley Rakahuri River.	H
ZIP D2.8 - This project would support one of the most well organised community groups working in the biodiversity space in the zone.	H
ZIP D5.7 - This is a significant action that would make a direct impact on the viability of threatened species populations.	M



Example of extensive debris and woody weed cover.



Extensive young woody (deciduous) weed cover.



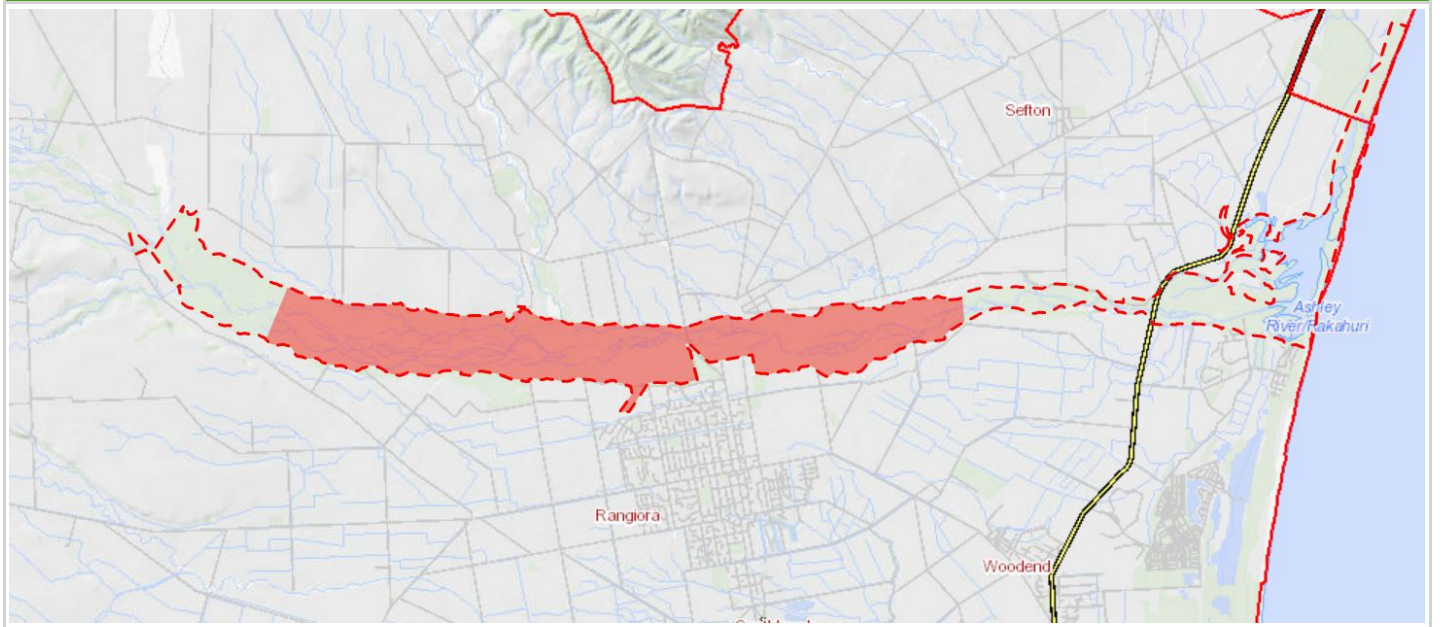
Extensive young woody weed cover (deciduous).



Recently flood cleared area.

Overall Assessment Scores		
Criteria	Score	Comments
Ecological Assessment Score (Existing and Potential) /39	26	The value of this work is well reflected by Ecological Assessment score it has received. The approach to managing biodiversity that is proposed is being taken on a number of other braided rivers in Canterbury.
Cultural	Unknown	
Other Criteria Overall Rating	High	
Immediate Steps Rating		

Project Map



AGENDA ITEM NO: 3–3	SUBJECT: Immediate Steps – Funding Overview 2017
REPORT TO: Waimakariri Water Zone Committee	MEETING DATE: 10 July 2017
REPORT BY: Jason Butt, ECan Biodiversity Officer, Waimakariri	

IMMEDIATE STEPS – FUNDING OVERVIEW

The current situation, at the end of June 2017, has a sum of \$30k carried over from 2015/2016, making a total of \$130k available for the 2016/2017 year.

The Zone Committee allocated \$103k by the end of June 2017. This leaves \$27k to be added to the \$100k available for the 2017/2018 financial year, for a total of \$127k in funding available.

There is a large project being prepared for a QEII covenant in the Zone. The probable funding request will be for 6kms of fencing, at approximately \$20/m = \$120k (with the 2/3 of total project cost = \$80k). I would propose this is funded over either 2 or 3 years. It is a worthy project.

The Carex project proposal for the Middlebrook is on hold at the request of the Carex Research Group. It is now proposed to present this to the Zone Committee in August. There are 2 planting projects from other applicants being processed at present. One of these applications will be ready to present to the committee in August. The two projects are on Northern Saltwater Creek and Southern Saltwater Creek respectively.

Immediate Steps Funding – Waimakariri Water Zone			
Projects	Approved		
		Carried over from 2015/2016	\$30,000
		New funds for FY 2016/2017	\$100,000
Riparian Restoration – Upper Cam River	\$ 1,000		
Ashley Rakahuri Island Creation	\$ 4,820		
First 500 Springhead Protection	\$30,000		
Pines Beach Wetland Weed Control (2017/2018)	\$52,000		
Waimakariri Corridor – Smiths Stream	\$14,919.42		
Total allocated funds FY 2016/2017 (grants)	\$102,739		
		Carried over from 2016/2017	\$27,261
Pines Beach Wetland Weed Control (2018/2019)	\$30,000		
		New funds for FY 2017/2018	\$100,000
		Total available to allocate FY 2017/2018	\$127,261

Waimakariri Water Zone Committee



Waimakariri Water Zone Committee June Update

Welcome to your monthly e-newsletter for June. This update will let you know about zone committee activities, science work streams, and local or regional developments that could affect you.

We're currently working through all of the feedback and data for the Waimakariri Land and Water Solutions Package.

Sharing your ideas is vital for the future management of Waimakariri's waterways. Come along to our monthly meetings or contact us by email to share your thoughts.

Land and Water Solutions Programme - what's new?

- The zone committee is working through the data and feedback to come up with draft solutions. Last month the committee held a workshop to explore cultural issues relating to Waimakariri's waterways.
- Missed the public meetings? No problem - watch videos from the Current State meetings [here](#) and the Current Pathways meetings [here](#).
- Once the committee puts together draft recommendations for the Waimakariri Land and Water Solutions Programme there will be further consultation with the public.
- To learn more and to visit our website [here](#) or come along to our monthly meetings which are held at the Rangiora Town Hall on the second Monday of each month. The next meeting is on Monday 10th July from 3pm -6pm.
- To have your say and provide feedback ideas on future water management options for Waimakariri please click [here](#)



News

Seal of approval for Kaiapoi River planting trial

- A seal was spotted checking out the Kaiapoi River planting trial near the Mandeville Bridge last week.

Good Management Practice update

- Sixty eight farmers in the Waimakariri Zone need to obtain resource consents to continue their farming activities. Letters have been sent to each farmer and a number of drop in days have been held.
- Members of the zone team will be working closely with the 68 farmers to help them through the consent process.

- Please contact Zone Manager Andrew Arps by [email](#) if you would like help with your resource consent application. We're here to help you throughout the process.

New committee members

- Cameron Henderson and Michael Blackwell have joined the committee as community representatives.
- Nigel Harris has replaced Claire Williams as runanga representative.

Waimakariri Irrigation Limited update

- 105 Farm Environment Plans are being audited, with 75 per cent of these completed.
- The remainder will be completed by the September 2017 deadline.
- WIL is focused on achieving GMP by 2020. Most shareholders are well on their way with the actions required to meet GMP documented in their FEP.

Make sure you have your say on the future of Waimakariri's water. Water is an important resource and the decisions we make together will impact Waimakariri both now and in the future. Let us know what you think and get involved in the water management process.

If you can't attend our monthly meetings please visit our [website](#) or our [Facebook page](#) to share your thoughts and provide feedback.

If you or someone you would know would like more information on the Waimakariri Water Zone Committee or the Canterbury Water Management Strategy, please contact Waimakariri Zone Committee Manager [Andrew Arps](#).

For more information www.ecan.govt.nz/canterburywater

Waimakariri Water Zone Committee, a joint committee of



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AGENDA ITEM NO: 4	SUBJECT MATTER: Statutory Framework for Biodiversity
REPORT TO: Waimakariri Water Zone Committee	MEETING DATE: 10 July 2017
REPORT BY: Sam Leonard (Environment Canterbury) and Bev Bray (Waimakariri DC)	

PROPOSAL

That the Waimakariri Zone Committee receive a presentation on the statutory framework for managing indigenous biodiversity and the Waimakariri District Development Strategy and District Plan review process.

PURPOSE

To summarise the statutory framework for protecting indigenous biodiversity and in particular outline the Waimakariri District Plan review process which will be an important mechanism for achieving the Zone Committee's biodiversity outcomes. The presentation will cover:

- Introduction to the Canterbury Regional Policy Statement provisions for Ecosystems and Indigenous Biodiversity
- Canterbury Regional Council and Waimakariri District Council (WDC) responsibilities
- WDC's Draft District Development Strategy (main focus on biodiversity content)
- WDC's District Plan Effectiveness Review and Plan Review Process
- Overview of biodiversity provisions in the Land and Water Regional Plan
- Opportunities for aligning the District Plan and LWRP

BY WHO

This briefing will be provided by Bev Bray (Senior Planner, Waimakariri District Council) and Sam Leonard (Senior Planner, Environment Canterbury).

BACKGROUND

One of the Zone Committee's priority outcomes is "Indigenous Biodiversity is Protected and Improved".

The Zone Committee was presented with a summary of the biodiversity issues and options for the zone at its meeting on 8 May 2017.ⁱ The briefing highlighted the current initiatives and statutory tools in place for protecting and enhancing indigenous biodiversity.

The Zone Committee made initial recommendations supporting a diverse range of practical environmental and educational initiatives (non-statutory). This briefing will elaborate on the current statutory tools.

RECOMMENDATION

That the Zone Committee receive the presentation and takes the opportunity to ask questions.

ⁱ Refer to A3 document "Biodiversity Issues and Options" 8 May 2017 presented by Matt Dodson

AGENDA ITEM NO: 5	SUBJECT: Plan Change 5 & Farm Environment Plan process – briefing	
REPORT TO: Waimakariri Water Zone Committee		DATE OF MEETING: 10 July 2017
REPORT BY: Murray Griffin, CWMS Facilitator – Waimakariri, ECan		

PROPOSAL

A briefing will be provided on Plan Change 5 to the Canterbury Land and Water Regional Plan, with an accompanying overview of Farm Environment Plans (FEPs) and the associated FEP Audit process.

BY WHO

This briefing will be provided by the following ECan Staff:

- **Olivia Cook**, Principal Planning Advisor
- **Andy Barbati**, Team Leader, Delivery Support
- **Ian Brown**, Principal Strategy Advisor, Land

BACKGROUND

Plan Change 5 to the Land and Water Regional Plan has been prepared to manage the diffuse loss of nutrients from farming activities. PC5 incorporates the outputs of the 'Matrix for Good Management' project by requiring farming activities to restrict their nitrogen losses to rates that are reflective of 'Good Management Practice'.

Plan Change 5 also incorporates the Farm Portal, a web-based tool for estimating nitrogen losses from farming activities operating at Good Management Practice.

For more information on Plan Change 5 please refer to – Link: <https://www.ecan.govt.nz/your-region/plans-strategies-and-bylaws/canterbury-land-and-water-regional-plan/change-5-nutrient-management-and-waitaki/>

RECOMMENDATION

That the Zone Committee receive the presentation and takes the opportunity to ask questions.