

Canterbury Water Management Strategy Waimakariri Zone Committee

Agenda

Monday 7 November 2016

3.30pm

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

Members:

Grant Edge (Acting Chairperson)

David Ashby

Claire McKay

Carolyne Latham

Judith Roper-Lindsay

Gary Walton

WDC Councillor Sandra Stewart

Clare Williams (Te Ngai Tūāhuriri Rūnanga)

Cherie Williams (Te Ngai Tūāhuriri Rūnanga)

Chairman 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 OF THE RANGIORA TOWN HALL, 303 HIGH STREET, RANGIORA ON MONDAY 7 NOVEMBER AT 3.30PM.**

Adrienne Smith
Committee Advisor

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

BUSINESS

PAGES

1 **KARAKIA**

APOLOGIES AND INTRODUCTIONS

REGISTER OF INTEREST

4-5

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

2 **WAIMAKARIRI DISTRICT COUNCIL STORMWATER AND NATURAL HAZARD PLANS BRIEFING – G CLEARY (MANAGER UTILITIES AND ROADING, WDC)**

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RECOMMENDATION

THAT the CWMS Waimakariri Zone Committee:

- (a) **Receives** this briefing, for its information and consideration, with regard to its 5 Year Outcomes and Milestones, and the Waimakariri Land and Water Solutions Programme.

3 **CURRENT PATHWAYS SCENARIO FOR WAIMAKARIRI LAND AND WATER SOLUTIONS PROGRAMME WORKSHOP – M DODSON (HYDROGEOLOGIST AND SCIENCE TECHNICAL LEAD FOR WAIMAKARIRI, ECAN)**

7-8

RECOMMENDATION

THAT the CWMS Waimakariri Zone Committee:

- (a) **Receives** this workshop for their information and contribution towards the presentation of the Current Pathways scenario in November 2016.

4 **CONFIRMATION OF MINUTES**

4.1 **Minutes of the Canterbury Water Management Strategy Waimakariri Zone Committee meeting – 12 September 2016**

9-18

RECOMMENDATION

THAT the CWMS Waimakariri Zone Committee:

- (a) **Confirms**, as a true and accurate record, the minutes of the Canterbury Water Management Strategy Waimakariri Zone Committee meeting held 12 September 2016.

MATTERS ARISING

5 **OPPORTUNITY FOR PUBLIC TO SPEAK**

6 **WORKING GROUP AND COMMITTEE UPDATES – ZONE COMMITTEE MEMBERS / M GRIFFIN (FACILITATOR, ECAN)**

19-22

- Local Government Elections 2016 – Update
- Nutrient Management & Water Efficiency Working Group
- Lowlands Waterways, Braided Rivers and Biodiversity Working Group
- Regional Committee Meeting – 11 October 2016
- Waimakariri Zone Delivery Team – Update
- Zone Committee Engagement & Communications

RECOMMENDATION

THAT the CWMS Waimakariri Zone Committee:

- (a) **Receives** the above updates for its information and with regard to the committee's 5 Year Outcomes and 2016 work programme.

7 **GENERAL BUSINESS AND ACKNOWLEDGEMENTS – ZONE COMMITTEE MEMBERS / M GRIFFIN**

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WORKSHOP

8 **WAIMAKARIRI MANA WHENUA SIGNIFICANT SITES ASSESSMENT BRIEFING – J STAPLETON (SENIOR PLANNER, ECAN)**

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9 **WAIMAKARIRI ZONE DELIVERY – QUARTERLY UPDATE – A ARPS (WAIMAKARIRI ZONE DELIVERY TEAM LEADER, ECAN)**

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WAIMAKARIRI ZONE COMMITTEE

Register of Interests – at October 2016

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"> - To be confirmed for the December committee meeting
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

Clare Williams	<ul style="list-style-type: none">- Chair, Te Ngāi Tūāhuriri Rūnanga Inc.- Selwyn/Waihora Zone Committee – Te Ngāi Tūāhuriri Rūnanga representative- Member: Mana Whenua Working Party- Trustee: Central Plains Water Trust
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AGENDA ITEM NO: 2	SUBJECT: Waimakariri District Council Stormwater and Natural Hazard Plans – Briefing	
REPORT TO: Waimakariri Water Zone Committee	DATE OF MEETING: 7 November 2016	
REPORT BY: Murray Griffin, Facilitator, ECan		

PURPOSE

To provide the Water Zone Committee with a briefing on the District Councils Stormwater and Natural Hazard Plans.

BACKGROUND

Gerard Cleary and Bev Bray of Waimakariri District Council will give an overview of:

- Stormwater and flooding issues
- Urban Stormwater network consenting update
- Flood mapping
- Natural Hazards Plan Change

WHO

This briefing will be provided by:

- Gerard Cleary (Manager Utilities & Roading, Waimakariri District Council)
- Bev Bray (Senior Policy Planner, Waimakariri District Council)

RECOMMENDATION

That the committee receive this briefing for its information and consideration with regard to its 5 Year Outcomes and Milestones, and the Waimakariri Land and Water Solutions Programme.

AGENDA ITEM: 3	SUBJECT: Current Pathways Scenario for Waimakariri Land and Water Solutions Programme – Workshop	
REPORT TO: Waimakariri Water Zone Committee	MEETING DATE: 7 November 2016	
REPORT BY: Murray Griffin, Facilitator, ECan		

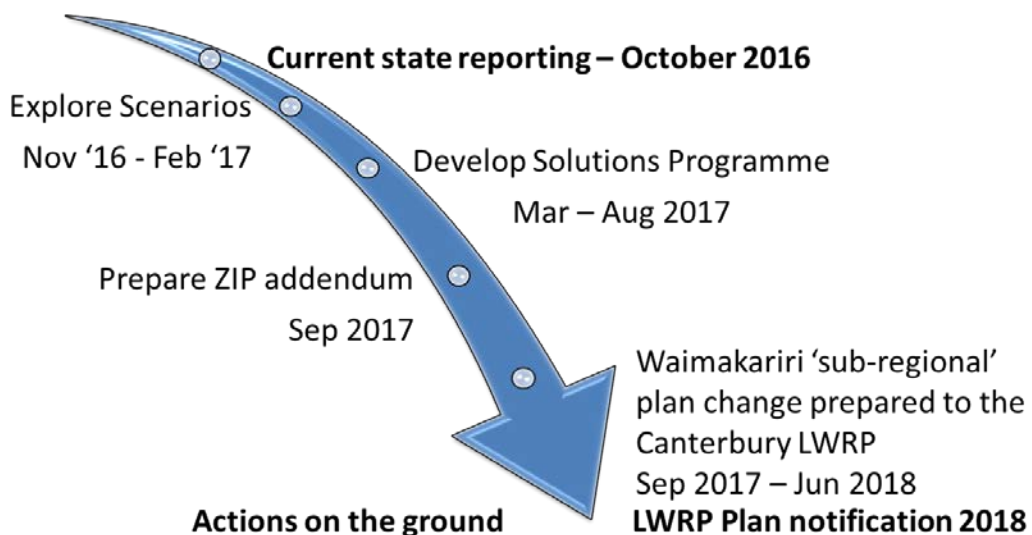
WORKSHOP PURPOSE

To provide the committee with a walk through of the first scenario, Current Pathways, to be presented as part of the Waimakariri Land and Water Solutions Programme (also referred to as the Waimakariri sub-regional planning processes for the Canterbury Land and Water Regional Plan).

BACKGROUND

This workshop is to inform the committee on the scenario developed by the ECan Science Team as a tool to help the committee and the community explore a projection of current water and land use in the Waimakariri into the future. This tool is developed to assist the understanding and future decision making for the Waimakariri Land and Water Solutions Programme. The steps in developing this programme are illustrated in Figure 1 below.

FIGURE 1: Steps in the Waimakariri Land and Water Solutions Programme



The Current Pathways scenario

The 'Current Pathways' scenario is intended to explore what would happen if no changes were made to current statutory and non-statutory requirements given the current understanding of the economic, cultural, social and biophysical environments.

Key elements of the 'Current Pathways' scenario include:

1. LWRP PC5 (MGM) fully and successfully implemented
2. Median climate change projection at 2040
3. Current consents fully exercised, all "in-process" consents issued
4. Nutrient loads "in the post" are realised
5. Population growth and district development plan

The workshop will conclude with a discussion on the information to be provided for the community in November at the three community meetings scheduled to present the Current Pathways scenario.

The November Community Meetings scheduled are:

- 14 November, Cust Hall, 7-9pm
- 16 November, Rossburn Receptions, Rangiora, 7-9pm
- 21 November, Waikuku Hall, 7-9pm

WHO

This workshop will be led by:

- Matt Dodson (Hydrogeologist & Science Technical Lead for the Waimakariri, ECan)

RECOMMENDATION

That the Zone Committee receive this workshop for their information and contribution towards the presentation of the Current Pathways scenario in November 2016.

MINUTES OF A MEETING OF THE CANTERBURY WATER MANAGEMENT STRATEGY; WAIMAKARIRI ZONE COMMITTEE HELD IN THE FUNCTION ROOM, RANGIORA TOWN HALL, 303 HIGH STREET, RANGIORA AT 3.30PM ON MONDAY 12 SEPTEMBER 2016

PRESENT

Grant Edge (Acting Chairperson), Claire McKay, David Ashby, Kevin Felstead (WDC Councillor), Judith Roper-Lindsay, Carolyne Latham, Gary Walton and Rex Williams (Environment Canterbury Commissioner).

IN ATTENDANCE

Murray Griffin (Zone Facilitator, ECan), Andrew Arps (Waimakariri Zone Team Leader, ECan), Jill Atkinson (Director Strategy and Programmes, ECan), Anna Veltman (Land Management Advisor, ECan), Jo Stapleton (Senior Planner, ECan), Amelia Ching (Senior Planner, ECan), Maureen Whalen (Team Leader Groundwater Science, ECan), Mary Sparrow (ECan Contractor), Chelsea Halliwell (Communications, ECan), Alistair Picken (Senior Planner, ECan), Gerard Cleary (Utilities and Roading Manager, WDC), Murray Clarke (Rangiora Community Board), Craig McIntosh, and Emma Stubbs (Minute Secretary, WDC).

1 KARAKIA

There was no karakia.

APOLOGIES AND INTRODUCTIONS

Moved J Roper-Lindsay Seconded K Felstead

Apologies were received and sustained from Clare Williams and Cherie Williams for absence.

CARRIED

ECan staff announced who they were to the committee and members of the public.

REGISTER OF INTEREST

As tabled on page 5 of the meeting agenda papers.

2 CONFIRMATION OF MINUTES

2.1 Minutes of a meeting of the Canterbury Water Management Strategy - Waimakariri Zone Committee held on Monday 8 August 2016

Moved D Ashby Seconded C McKay

THAT the CWMS Waimakariri Zone Committee

- (a) **Confirms** as a true and correct record the minutes of a meeting of the Canterbury Water Management Strategy – Waimakariri Zone Committee held on Monday 8 August 2016.

CARRIED

MATTERS ARISING

R Williams asked that the request for a report on responsibilities from the mountains to the coast be followed up prior to December.

J Roper-Lindsay noted that the communication plan for small block holders had not been discussed at the 8 August 2016 workshop and requested that it be added to the communications action plan.

In relation to the ongoing Cam River work, G Edge advised that Dr Hudson had delayed completion of his report until after the current state reporting in order to look at implications of those reports.

With regard to the flagship recreation project for Waimakariri there was some discussion around the next step. M Sparrow advised that the comprehensive current state recreation report was nearing completion. That report would give an idea of what made a flagship project. One of the requirements was that the project had emerged since 2010. An opportune way to involve the community boards was to attend an All Boards meeting after the election.

3 OPPORTUNITY FOR PUBLIC TO SPEAK

Craig McIntosh spoke to the committee about his concerns around some of the things said about rivers around the area. He commented that there had been great improvements in the Cam River over the last few years and advised that his son had recently caught whitebait in the Cam at 1km above the tidal area. It had been 10 years since sewage had been taken out of the Cam and it had improved markedly. In the 70s and 80s there had been a range of vigorous plants which had died off but were now coming back. He had carried out private testing of water quality in the Cam. G Edge noted he would advise scientists of that testing and commented that the Cam River Rehabilitation Working Group would kick start in October once Dr Hudson's report had been received.

4 WORKING GROUP AND COMMITTEE UPDATES – ZONE COMMITTEE MEMBERS / M GRIFFIN

Nutrient Management & Water Efficiency Working Group

David Ashby tabled an update on the Working Group's priorities and read the updates.

In relation to Milestone 2 of Outcome 4, D Ashby provided a comprehensive breakdown of where the 126 Dairy Farmers in the Waimakariri were in relation to operating at GMP. There were 50 outside of irrigation schemes. Of those 50, 42 had completed Fonterra Sustainable Milk Plans and the other 8 were in the process of being completed.

With regard to Waimakariri Irrigation Limited (WIL) shareholders, as part of WIL's collective nutrient discharge allowance farmers were required to complete a current nutrient budget. This was a major logistical exercise and Fonterra and Synlait had been assisting farmers with that, including holding drop in sessions. As part of their 'Supply Fonterra' agreement farmers had to return their nitrogen recording pages of which 97% had returned.

All WIL FEPs and 80 Lifestyle Management Plans had been completed, which was a major exercise with only one shareholder being uncooperative in the process. As part of the water supply agreement WIL had the ability to stop supply to shareholders not meeting requirements.

On another note he had been surprised at the content of a Plant Science paper at Lincoln University where the focus was on production with no regard to the environment. He believed there was an opportunity for graduates to use Overseer and other tools to mitigate the environmental footprint of farming.

G Walton advised that he and C Latham were now approved FEP providers and were involved in an extension programme with Beef and Lamb to help the process of FEP completion. Meetings would be held with groups of farmers. He commented that it was a step in the right direction.

D Ashby advised that Angela Harvey (DairyNZ) was analysing the required actions arising out of the Sustainable Milk Plans. In the future she would provide the committee with a breakdown of the key areas to target to achieve gains.

A Veltman advised that irrigation had been targeted as one of the key areas for improvement and a number of field days had been held. WIL had also targeted irrigation including the use of tapes, probes, and hydro services. A key factor was the scheme's low reliability in prompting inefficient use of irrigation.

In relation to Milestone 3 and 4 of Outcome 4, D Ashby commented that some red zone and orange zone farms may not require resource consents under Plan Change 5 (the alternative was that they go through the portal and only require a management plan) and a number of farmers were questioning what to do. It was important that farmers were proactive and start collecting and recording information.

In relation to red zone farms having FEPs by December 2016, D Ashby commented that they were making good progress. It was a case of keep pushing the message. As a requirement of supply agreements all dairy farmers would have an FEP. For sheep and beef, unless they were actively involved in dairy grazing they were unlikely to be effected by Plan Change 5 (of the Canterbury Land and Water Regional Plan).

D Ashby commented that the progress made in this area was of credit to those groups involved. Industry had driven a lot of changes in a short period of time. There had been a whole attitude shift to an environmental focus and to have knowledge and records of where the nitrogen was going.

In relation to Milestone 6, D Ashby advised that he had attended an audit training session. The compulsory registration of all auditors to a recognised society was a requirement, with a code of ethics developed alongside continued professional development opportunities. They would undertake two audits with Ian Brown (ECan) and a number of calibration days to ensure consistency in standard.

In relation to Milestone 7, the consent granted to Cust WUG showed people could manage a resource in an efficient and sensitive manner and was a good example of a group of individual farmers taking the right action.

R Williams suggested that the message from D Ashby as a real person facing up to the issues should be recorded and rolled out at places such as ECan and the AMP shows.

J Roper-Lindsay commented that there was not much in relation to biodiversity and the environment in the FEPs. D Ashby believed that was not true and advised the Riparian Planting Planner tool developed by DairyNZ was a great resource and if it wasn't used in a FEP could give the auditor a low level of confidence, depending on circumstances.

J Roper-Lindsay commented and M Griffin reiterated that there was a need to bring the NMWEWG and LWBRBWG together at some stage. A Veltman made the comment that it had become much easier to connect to the primary sector including through Synlait, Fonterra, DairyNZ, and Beef and Lamb and there was a much greater willingness to work together.

Lowlands Waterways, Braided Rivers and Biodiversity Working Group

Grant Edge advised that the notes from the Stakeholder Meeting No. 2 had been distributed as well as invitations to the third meeting.

With regard to braided rivers the U3A lecture series had been useful and reached a large audience. M Griffin had provided a collation of answers from the ECan science teams to questions from the public.

Regional Committee Meeting – 9 August 2016

Claire McKay advised she would take the summary of matters discussed at the Regional Committee meeting on 9 August as read. She had been unable to attend. There was a lot of material around biodiversity and the flagship project included in the agenda reports. There had been interesting learnings from the workshop around the CWMS process for new members following the refresh of the committee.

Waimakariri Zone Delivery Team – Update

Waimakariri Zone Delivery Team Manager, Andrew Arps, advised that the biodiversity officer position was now fulltime in the Waimakariri rather than being shared across another Zone. They were in the process of filling that position.

Zone Committee Engagement & Communications Engagements

- Science Stakeholder Advisory Group – 13 July, next meeting 5 October
- U3A workshops on the Ashley/Rakahuri in July/August

Communications

Committee's Monthly E Newsletter – Sent on 19 August. Please refer to the attached copy of the newsletter included as agenda item 4-2.

G Edge requested that there be coordination with the U3A environment subcommittee.

K Felstead advised that WDC staff had provided a summary of the district potable water supply. Gerard Clearly noted there had been a media statement today around that summary and that the document was on the website and would be circulated to committee members. All water supplies had an approved water safety plan and there was a programme in place to ensure all remaining small schemes were up to started over the coming years. There were plans to connect Fernside and Mandeville schemes, and also Pegasus and Woodend schemes which would allow discontinuation of chlorination of the Pegasus water for which there was strong public support.

Rex Williams queried whether there was a working group which commented about urban water issues to which the reply was no. He suggested that it was time for the Waimakariri zone to set up a group that looked at urban water issues. Clearly the state of the urban rivers in Christchurch had come as a shock to city councillors who had as a consequence taken steps to improve quality. Publicity around behaviour change in Christchurch would apply to the Waimakariri district and it was timely to start now that there was good progress in the rural sector.

4.1 Waimakariri Water Zone Committee August Update

Moved R Williams Seconded K Felstead

THAT the CWMS Waimakariri Zone Committee:

- (a) **Receives** these updates for information and with regard to the Committee's 5 Year Outcomes and 2016 work programme.

CARRIED

Actions List Update

M Griffin tabled an update of the Action List as at 9 September 2016.

Gerard Cleary provided an update with regard to investigations 3 and 4. In regard to the Kaiapoi Ocean outfall there was an agreement with NIWA to carry out testing of foam. This was at a cost of \$80,000 and was not required under the resource consent.

With regard to the herbicide risk a report had gone to Council which would be circulated to the zone committee. The Environmental Protection Authority (EPA) had met with council staff and advised that the use of glyphosate was permitted in New Zealand and was unlikely to affect human health or cause environmental damage. The levels of glyphosate in Kaiapoi were well below thresholds. The EPA had provided reassurance in terms of testing chemicals and was not contemplating removing glyphosate. WDC had approached MfE regarding the issue and had been referred to the EPA. WDC were awaiting a response from the Parliamentary Commissioner for the Environment. CAREX had been engaged to do a study in conjunction with WDC to look at any environmental impacts downstream of spraying. It was a comprehensive study involving invertebrate and aquatic life to provide scientific rigour. There was a lot going on including a stocktake of herbicides used and staff would continue to report to council. CAREX and ECan had an upcoming presentation to the Kaiapoi Community Board. K Felstead advised that the result of the 2.5 hour debate by the Council on the issue was spray would continue to be used while the Council awaits the study by CAREX.

D Ashby requested confirmation that glyphosate used is the type designed for use around waterways. G Cleary commented he did not have the exact details on hand but assured sprays were used in a controlled manner.

In relation to Investigations 6, 4WD vehicles, M Griffin commented that at the U3A presentation Simon Woods (Parks & Reserves Officer, ECan) provided a good briefing on the issues and management of 4wheel drive access in the Ashely River Regional Park. There is a lot of work being done in that space and Simon Woods could provide an informative briefing to the committee.

In regard to follow-up 11, community of interest at Rangiora High School (RHS), Andrew Arps advised that he had met with a small group of youth last Thursday looking at the question of engagement. On 19 October ECan would be visiting the RHS Blue Planet Club which had around 25 members.

With no further questions M Griffin advised he would take the rest of the Action list as read.

5 WAIMAKARIRI PLANNING PROCESS SCENARIOS - BRIEFING – M DODSON (ECAN TECHNICAL LEAD FOR WAIMAKARIRI)

M Dodson advised that the purpose of the briefing today was to confirm the scope of the 'Business as Usual' scenario and to discuss a potential second scenario, commenting that scenarios were useful ways of conveying complex information.

M Dodson noted four possible second scenarios

- Storage (recommendation from the ZIP), with Rakahuri environmental flows?

- Eyre River recharge?
- Targeted stream augmentation?
- Riparian planting and fencing?

C Latham asked D Ashby if it felt like 'business as usual' at the moment or still something that people were working toward. D Ashby commented that his understanding of 'business as usual' was not what was actually happening at the moment rather assuming that if every consent that was currently granted was used what it would look like. C Latham noted that she thought the scenario was good but did not believe the wording was a good fit and suggested 'current pathways' as an alternative.

M Dodson was comfortable with this name change. He noted that the intention was to provide an idea of what would happen by looking at key elements. He noted examples, such as, looking at lag times when nutrient loads not yet expressed affected lowland streams, the effects of climate change, and the effect of everyone meeting GMP and incorporating on the ground actions such as recent riparian planting.

M Dodson reminded the committee of the timeline:

- Current state
10 Oct, Cust; 12 Oct, Rangiora; 17 Oct, Waikuku
- Current Pathways scenario
14 Nov, Cust; 16 Nov, Rangiora; 21 Nov, Waikuku
- February meetings
13 Feb, Cust; 15 Feb, Rangiora; 20 Feb, Waikuku

Jo Stapleton commented that following scenarios, pages of information would be condensed and reported back allowing discussion around whether people were happy that outcomes were met/not met. Alastair Picken commented that in Selwyn the scenarios generated huge amounts of good information. In between the scenario phase and solution phase there was the potential to consolidate feedback and issues and options to be taken on board as a lead into the solutions stage.

M Dodson reiterated that there were technical practicalities around timing. There was the need to complete the technical work before Christmas otherwise it would slow things down later on.

There was some discussion around the second scenario. J Roper-Lindsay asked if there needed to be the same key elements involved in the second scenarios to which M Dodson replied it didn't. The second scenario could be developed from the Current Pathways scenario and could look incorporate other considerations, such as 'new water' into the Zone. J Roper-Lindsay asked when the Ashley River went dry could gravel be extracted to reach subsurface water. M Dodson advised that every five years river engineers completed a detailed cross-sectional survey which were used alongside commercial gravel extractors for flood management.

C McKay noted some of that work was already being completed on the Eyre River recharge. M Dodson commented the cost/benefit could be analysed alongside other options as part of the Solutions Programme to be developed in 2017.

G Edge referred to the recent State of the Nation speech by Nick Smith (Minister for the Environment) who noted that there was an underuse in extraction consents. M Dodson commented the water take was around 45-50% of that consented. An example was WDC who had headroom in their consent to allow for population growth. The issue could be explored in the Solutions Programme.

D Ashby refereed to stream depletion as a function of the annual extraction of groundwater. M Dodson advised that they gave a conservative estimate of the effect of groundwater pumping on stream flows, adding they knew it did have an effect, either quickly or in the long term.

In relation to increase in urbanisation, it was asked whether the project was on target. M Dodson referred to the work of Mary Sparrow and the WDC projection for growth for the district. Mary commented that a lot of the assumptions had changed after the earthquakes. The projection was based on what happened over the last 5 years and assumptions around immigration, which was trending higher. The amount of growth predicted in the rural areas was not that much and was effected by a complex set of variables. G Cleary commented that WDC was working on the district development strategy as part of a substantial review of the District Plan. As a key stakeholder, and joint committee on Council, WWZC would be consulted in this review.

Moved G Edge Seconded C McKay

THAT the CWMS Waimakariri Zone Committee:

(a) **Accepts** the Current Pathways scenario.

CARRIED

6 WAIMAKARIRI PLANNING PROCESS BOUNDARIES – BRIEFING – A PICKEN (SENIOR PLANNER, ECAN)

A Picken advised that the purpose of the briefing was to discuss and agree the boundary for the Waimakariri sub-region in the LWRP to provide clarity for technical groups and landowners. There had been some discussion on the issue at the 29 August 2016 workshop where the WWZC sought to:

1. Western Boundary - explore extension to west to include area adjacent to Waimakariri River.
2. Southern Boundary - explore extension to south to line up with Waimakariri North bank.
3. Northern Boundary - Retain the northern part of the boundary.

A Picken commented that he wanted to be clear that the Waimakariri sub-region was not setting flow for Waimakariri River, which would come in the Alpine Rivers Chapter of the Canterbury Land and Water Regional Plan (LWRP).

The LWRP sub-regions are hydrological catchments, they are not based on political boundaries (CWMS or Territorial Authority boundaries).

The hydrological boundaries line up with nutrient allocation zones (NAZ) to manage water quantity and quality together and avoid an unnecessarily complex plan.

In relation to the western boundary the WWZC was concerned about properties spanning two nutrient allocation zones and managing biodiversity in that area. A Picken commented that the LWRP rules which would carry into Plan Change 5, anticipated farms straddling boundaries, and required that the rules for each NAZ apply only to that part of the property within that zone. The expectations around GMP would equally apply to properties across boundaries.

G Edge noted that he could not find a definition of a catchment zone in the National Policy Statement. He believed it was important to explain the hydrological boundaries as compared to district boundaries on plans for people to understand.

C McKay commented she was comfortable with the western boundary following the hydrological boundary. She was concerned with the southern boundary not extending to the Waimakariri River and the effect on farms on Thongcaster Road. M Dodson referred to the watershed and noted the direction of groundwater flow which was to the Waimakariri River for some parts of the Waimakariri Zone.

There was some discussion around the capacity to address cross boundary issues (including the Alpine Chapter) in the ZIP Addendum. It was noted the committee could make recommendations in the ZIP Addendum to inform the Alpine Chapter and support how these two chapters would align.

For the northern boundary there was a need to engage people from the Hurunui District in the process for Saltwater Creek. C McKay asked whether those landowners would be spoken to individually and A Picken advised that would be the role of ECan staff to contact those landowners.

Moved G Edge Seconded J Roper-Lindsay

THAT the CWMS Waimakariri Zone Committee:

- (a) **Retain** the Waimakariri sub-region boundary as it is described in the Land and Water Region Plan and on Planning Maps to retain the hydrological basis of the sub-region.

CARRIED

7 FORESTRY ACTIVITY IN THE WAIMAKARIRI ZONE BRIEFING – D MANN (CANTERBURY REGIONAL MANAGER, RAYONIER MATARIKI FORESTS LTD)

Darren Mann outlined to the committee the scope of forestry in the Waimakariri zone. There were three forests in the zone, Eyrewell on the plains, and in the foothills Mt Thomas and Okuku – Ashley. It was noted the Okuku - Ashley forest was in the Waimakariri sub-regional zone as it was in the hydrological catchment. The national forestry estate of Matariki was 121,000 hectares with over two thirds of the estate in second rotation forest.

Eyrewell forest was 6,500 hectares, over the last 10 years as the forest had been harvested the land had gone back to Ngai Tahu. All the remaining forest in Eyrewell would be cut by 2018.

The whole timber resource in Canterbury, based on age and including large and small scale owners was around 1 million tonnes per year with Matariki owning just over half.

Matariki was a member of the NZ Forest Owners Association and abided by the Association's environmental code. Matariki had also developed its own internal standards and also had Forest Stewardship Accreditation which is an international accreditation.

D Mann outlined the potential effects of forestry which focused predominantly on sedimentation. The main cause of sedimentation was roading. In Canterbury, north of the Waimakariri, a lot of the forests were in their second or third rotation meaning a lot of the roadworks had been completed. There was still the need for some earthworks, however, for harvesting. After harvesting the canopy of trees was lost which meant there was potential for sedimentation. Tree stumps had the ability to continue to hold soil and when another crop of trees was planted it meant there was soil protection for another 25-30 years.

D Mann went through a series of photos showing different aspects of harvesting and roading including machinery, road building, and skid sites. He commented that a large part of the operation was civil construction.

D Mann outlined the mitigating factors used by Matariki including planning and best practice as outlined in industry codes. All of the Canterbury estate was now captured by LIDAR which allowed careful planning including slope classification and risk assessment. As part of this planning a stream classification system was used to highlight priorities.

D Mann showed examples from the Matariki standards booklet which provided a visual way of displaying good practice in techniques, such as water control and rehabilitation.

J Roper-Lindsay queried what monitoring of water was undertaken. D Mann replied that they undertook Stream Health Monitoring and Assessment Kit (SMAK) testing. Monitoring was not required under the WDC consent for operating within 20 metres of waterways.

R Williams queried who made the judgement of whether their performance was satisfactory or not, for example, with silt runoff. D Mann replied it was neighbours. The TLA did not do routine visits, however, they could act if someone reported something they were not happy with. They had river extraction consents with ECan which were monitored. Forestry operated as a permitted activity and authorities were provided with a schedule of work for the following 12 months as a consent requirement.

C Latham asked if there had been discussion in the forestry industry regarding maintaining vegetation in waterways. D Mann said that there were setback distances from riparian zones. This was 5m for perennial streams. There was one clear issue – how far did you go to protect a stream, a 50m setback meant a massive amount of area was out of production. Issues had to be weighed, for example, a wider riparian setback may mean a road had to put in rather than use of a hauler.

C Latham asked if there was any research to suggest that 15m was better than 5m and D Mann advised he was not aware of any. He noted there were more controls in the Coromandel due to its location adjacent to significant recreation areas.

Moved C McKay Seconded K Felstead

THAT the CWMS Waimakariri Zone Committee:

- (a) **Receives** this briefing for its information and with regard to its 2016/17 community engagement priorities and 5 year outcomes.

CARRIED

8 GENERAL BUSINESS AND ACKNOWLEDGEMENTS – ZONE COMMITTEE MEMBERS / M GRIFFIN

On behalf of the WZC, C McKay thanked R Williams for his contribution to the CWMS process. He had started the journey as one of the inaugural Zone Committee members in 2010 and was a valued member with his succinct and to the point questions, and an ability to help keep the committee on track. She wished him well for the future. R Williams commented that 6 years ago the committee had started a new journey and in the last 12 months the zone committee had gained a real understanding of where they were going. He noted the reporting back of subcommittees was first class and thanked all the members for their contributions.

There was some discussion around the October meeting, and also meeting prior to the community meetings. It was decided to not hold the October WZC meeting as there would be no elected members present due to the local body elections. A workshop would be held on the 26th September which would involve briefings around the current state reports. There would also be a run through of the community meeting at that time.

THERE BEING NO FURTHER BUSINESS, THE MEETING CLOSED AT 6.25 PM.

CONFIRMED

Chairman

Date

Unconfirmed

AGENDA ITEM NO: 6	SUBJECT: Committee Updates
REPORT TO: Waimakariri Water Zone Committee	MEETING DATE: 7 November 2016
REPORT BY: Murray Griffin, Facilitator, ECan	

PROPOSAL

This agenda item provides the committee with an overview of updates as tabled.

COMMITTEE UPDATES

The following updates are tabled for the committee:

- **Local Government Elections 2016 – Update**

This item will confirm the outcomes of the October Local Government Elections and the schedule for the confirmation of the District Council and Environment Canterbury appointments to the Waimakariri Water Zone Committee.

- **Nutrient Management & Water Efficiency Working Group**

David Ashby will table an update at this meeting on this Working Group's priorities.

- **Lowlands Waterways, Braided Rivers and Biodiversity Working Group**

Grant Edge will table an update at this meeting on this Working Group's priorities.

- **Regional Committee Meeting – 11 October 2016**

Claire McKay has provided a report of the previous Regional Committee meeting held on Tuesday 11 October, which is provided as agenda item 6-1.

Link to the 11 October CWMS Regional Committee agenda:

<http://ecan.govt.nz/publications/Council/reg-cttee-agenda-20161011.pdf>

- **Waimakariri Zone Delivery Team – Update**

Waimakariri Zone Delivery Team Manager, Andrew Arps, will provide a quarterly update on Zone Team priorities and achievements at this meeting.

- **Zone Committee Engagement & Communications**

Engagements

- Science Stakeholder Advisory Group – workshops held on 5 & 26 October
- Community meetings on the Current State reports for the Waimakariri:
 - 10 October in Cust,
 - 12 October in Rangiora
 - 17 October in Waikuku

Communications

- Committee's Monthly E Newsletter – Sent on 4 and 31 October
- A review of the communications supporting the current state reporting for the Waimakariri, and next round of community meetings on the 'Current Pathways' scenario, will be provided at the meeting.

ACTION POINTS

An updated list of action points from previous meeting will be tabled with the committee.

RECOMMENDATION

The Zone Committee are asked to receive these updates for its information and with regard to the committee's 5 Year Outcomes and 2016 work programme.

AGENDA ITEM NO: 6-1	SUBJECT: Regional Committee Report – 11 October 2016	
REPORT TO: Waimakariri Water Zone Committee	DATE OF MEETING: 7 November 2016	
REPORT BY: Claire McKay, Regional Committee representative		

Prior to the meeting a very successful field trip was held in the Rangiora area.

It commenced at the Tuahiwi marae with an introduction from Nigel Harris on Ngai Tahu values with an emphasis on importance of the Kaiapoi area, Ashley Rakahuri River and estuary, before members and Zone committee attendees went to Pegasus wetlands.

The close relationship with the urban development of Pegasus and the role of the wetlands as receiving body for storm water, stimulated much discussion on importance of water quality and ecosystem health.

The group then went to Hicklands road, where the Julie Bradshaw outlined the management of the Cust Water Users group – where all consent holders on the Cust Main Drain work together, to stay inside the conditions of their collective consents. Both Gary Walton and David Ashby discussed the value of FEPs and actions on the ground to improve water quality outcomes.

The RC has recently gone through a refresh, and existing Community appointments of Jane Demeter, and Hugh Canard are joined by new appointees Cole Groves, Nicky Hyslop, Andrew Mockford, Ross Millichamp, and Vicky Southworth. The new Nga Rūnanga reps are Nigel Harris, Riki Lewis, and David Higgins.

The Regional Committee received updates from several work programmes.

1) Recreation and Amenity Work Programme.

Work is now underway with zone teams and facilitators to identify potential recreation and amenity projects in each zone, and to discuss these with the zone committees by the end of 2016. This has been delayed, to allow the consideration of additional pieces of information such as the Swimming and Information Gaps reports, due in December.

It is anticipated a final Work Programme, supported by the Recreation and Amenity Working Group, will be presented to the Regional Committee at the December meeting, or at the first meeting in 2017.

This Work Programme will reflect the outcomes of the two items below.

- **Swimming Report**

The online survey received a total of 1371 responses, with respondents coming from throughout the region. Analysis of the results, coupled with those gathered from school visits, is currently underway with the 'Expert Panel' meeting on 7th October.

- **Information Gaps**

In April 2016, Scott Pearson presented a proposal to the Regional Committee on how the remaining information gaps for recreation and amenity might be addressed.

A number of recreation groups are now developing this proposal further and will be discussing it with the Recreation and Amenity Working Group in October, with the view to present a final proposal to the Regional Committee for their endorsement in December.

2) Biodiversity and Ecosystem Working group (BEWG)

Eel quota

Protecting eels and their habitat, is a priority area in the 5 year biodiversity work programme. Following on from the Minister of Fisheries decision in 2015 to separate the quota for long and short fin eel in the South Island he recently released his decision on the size of the allowable take for long and short fin eel.

In effect, the recent decision on eel quotas effectively eliminates the commercial catch of longfin eel in Canterbury. The total allowable *commercial* catch in each of the three management areas covering Canterbury is 1 tonne of long fin tuna. This is alongside 1 tonne each for recreational and customary use. Thereby, restricting total catch to 3 tonne per annum per area.

The working group was briefed on:

- The six-monthly update on the Flagship projects that are supported by Immediate Steps Funding, and on the Regional Initiative projects of fish passage, wilding pines, and pest control.
- Braided river projects across the region.

3) Infrastructure Working Group

The focus of the September meeting in Timaru, was on opportunities for infrastructure in South Canterbury to contribute to the delivery of CWMS targets, particularly in the Orari-Temuka-Opihi-Pareora (OTOP) zone.

Key commercial and community groups (Gary Rooney, Geraldine Water Trust, Opuha Dam Co, Morvern Glenavy, Aoraki Water, Hunter Downs, Timaru District Council, and Aoraki Water) each outlined their work, and were briefed on the Healthy Catchments project being led by the OTOP committee, that will result in recommendations for how best to manage the local water resources.

4) Climate Change Responsibilities

The role of ECan is to focus on the *consequences* of extreme weather events and changing climate patterns for the region and communities, and to plan and prepare for managing and minimising the *effects* of these trends on environmental and community sustainability. Central government develops climate change policies and strategies, to reduce Greenhouse Gases or mitigations

In ECan, the potential impacts of climate change and the influence of these impacts were acknowledged in the 2012-22 *Long Term Plan (LTP)* with the council's focus *on adaptation and planning to provide a relevant local response*. Extreme and more volatile weather, increased frequency and severity of floods and storms, and sea level rise were noted as issues for the council's work in Coastal Hazards, Emergency Management and Natural Hazards.

The priorities and activities in the 2015-25 LTP reflect Environment Canterbury's assessment of the implications of these emerging trends or '**drivers of change**' over the ten-year timeframe to 2025.

- Demographic changes
- Economic developments
- Changing weather patterns and climate, and the need to be prepared for more volatile and extreme conditions.

Climate change is factored into many dimensions of Environment Canterbury's work:

1. Canterbury Water Management Strategy (CWMS) focused on ensuring a full range of values is protected and the region is resilient in the face of changing demands on the resource, by considering the reliability and distribution of water.

Within CWMS climate change informs the regional approach to infrastructure development, with the attention on shifting supply to alpine rivers/storage, resulting in a shift from groundwater and hill fed and lowland streams. It is also integrated into all zone-specific modelling to identify issues and options for managing water quality and quantity.

2. Flood hazard modelling and management, uses current national guidance for undertaking climate change/sea level rise inputs and sensitivity analyses.

3. Coastal hazard modelling and management is currently modelled on historic rates of coastal erosion and projects the historic rate into the future.

However, hazard zones currently do not account for recent projections of sea level rise over a 100 year time period. Coastal erosion hazard maps (in the Regional Coastal Environment Plan) are being reconsidered as part of a wider review of the Coastal Plan. A regional approach to hazard management has been established with working group from the Canterbury Mayoral Forum, working alongside territorial authorities and Civil Defence.

4. Biosecurity – Regional Pest Management Plan has Climate data factored into the review to better understand which parts of the region will become more or less susceptible to various pests. The proposed plan aims to better prevent the management of new incursions, some of which may be more likely to survive and thrive in our region with possible changes of climate.

5. Any Plans developed under RMA, work within a statutory framework provided by national legislation (e.g RMA and LGA), and associated national policy statements, and national standards.

6. Current Science work.

- Investigations and modelling that is a part of zone-specific solutions to deliver CWMS targets. This includes modelling 'demand' that takes into account likely changes in flows, evapotranspiration and water takes in response to climate change;
- A science strategy that includes work to identify long-term trends in use and management of the natural environment. A component of this is a workshop in early 2017 on 'sustainability in dry conditions'. This will involve both internal and external people, and the outcomes will feed into the Long Term Plan 2018-28;
- Keeping in touch with relevant research at CRIs and universities, including possible impacts of climate change on biodiversity.

7. Transport. Environment Canterbury is mindful of the impact of transport on greenhouse-gas emissions, and takes this into consideration in all its decisions, e.g. the inclusion of hybrid vehicles in its fleet.

8. While climate change is looked at in the long term, in the short term Environment Canterbury recognises severe events that occur in our region and responds accordingly. For example, all staff are fully aware of the drought impacts on North Canterbury.

Claire McKay

AGENDA ITEM NO: 8	SUBJECT: Waimakariri Mana Whenua Significant Sites Assessment – Briefing	
REPORT TO: Waimakariri Water Zone Committee	DATE OF MEETING: 7 November 2016	
REPORT BY: Murray Griffin, Facilitator, ECan		

PURPOSE

To provide the Water Zone Committee with a briefing on the assessment being undertaken on culturally significant sites in the Waimakariri for Mana Whenua.

BACKGROUND

This briefing will provide an overview of Wāhi Tapu and Wāhi Taonga site assessments being undertaken by Mahaanui Kurataiao Limited.

WHO

This briefing will be provided by:

- Jo Stapleton (Senior Planner, ECan)
- Bryan McGillan (Senior Planner Environmental Advisor, Mahaanui Kurataiao Limited)

RECOMMENDATION

That the committee receive this briefing for its information and consideration with regard to its 5 Year Outcomes and Milestones, and the Waimakariri Land and Water Solutions Programme.

AGENDA ITEM NO: 9	SUBJECT: Waimakariri Zone Delivery – Quarterly Update
REPORT TO: Waimakariri Water Zone Committee	DATE OF MEETING: 7 November 2016
REPORT BY: Andrew Arps, Waimakariri Zone Delivery Team Manager, ECan	

PURPOSE

To provide the Water Zone Committee with a briefing on the Zone Delivery Team priorities and actions over the last three months and looking ahead to the next six months.

BACKGROUND

This update will review progress and priorities of the Zone Delivery Team relevant to the committee's 5 Year Outcomes and Milestones.

This update will also introduce Jason Butt, the new ECan Biodiversity Officer for the Waimakariri Zone.

WHO

This update will be provided by:

- Andrew Arps Zone (Waimakariri Zone Delivery Team Manager, ECan)

The Waimakariri Zone Delivery Team is:

- Andrew Arps, Zone Delivery Team Manager
- Anna Veltman, Land Management Advisor
- Jason Butt, Biodiversity Officer
- Marco Cataloni, Senior Resource Management Officer Monitoring and Compliance
- James Clark, Resource Management Officer I Monitoring and Compliance

RECOMMENDATION

That the committee receive this briefing for its information and to provide feedback on the Zone Delivery Team priorities for the next six months.