

**KAIKOURA ZONE WATER COMMITTEE MEETING HELD AT 12.30PM
ON WEDNESDAY 31 AUGUST 2016 AT MEMORIAL HALL SUPPER
ROOM, ESPLANADE, KAIKOURA.**

AGENDA

- 1. Karakia*** ***page 1***
- 2. Apologies***
- 3. Matters of Importance to be raised as Urgent Business***
- 4. Confirmation of Minutes 27/07/2016*** ***page 2***
- 5. Public Forum***
 - **Opportunity for members of the public to present to the Committee**
- 6. Committee Updates*** ***page 7***
- 7. Clarence/Waiiau Toa Management Plan Update*** ***page 12***
- 8. Communications Update*** ***page 13***
- 9. General Business & Future Meeting Priorities***
- 10. Kaikoura Story Map – Workshop*** ***page 16***

	Karakia	
OPENING KARAKIA (one)	E Te Atua Tiakina teora Manaakitia mai te oranui Homai he kakano kiatipu ake ai Tiakina teora E Te Atua Amene	O Lord Guard our wellbeing Bless us Give us a seed so that it may grow Guide and protect us O Lord Amen
OPENING KARAKIA (two)	E Te Atua Manaakitia mai mātou E kimi nei i tenei taonga mo te hapori o Kaikōura Amene	O Lord Bless us Seeking this treasure For the community of Kaikōura Amen
CLOSING KARAKIA	Kia a tau kia tatou katoa, te atawhai o to tatou Ariki a Ihu Karaiti Me te aroha o te Atua Me te whiwhinga tahitanga ki te wairua tapu Ake ake ake Amene	Let it be with us all The grace of our Lord Jesus Christ The love of God The fellowship Of the Holy Spirit Forever more Amen

AGENDA ITEM NO: 6	SUBJECT: Committee Updates & Actions
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 27 July 2016
REPORT BY: Murray Griffin, Zone Facilitator	

PURPOSE

The purpose of the agenda item is to provide the Committee with an overview of updates to be tabled.

COMMITTEE UPDATES

The following updates will be addressed with the Committee:

- **Working Group Updates**
 - **Love the Lyell/Waikōau** – An update of the Working Group meeting held on Tuesday 30 August will be provided at the meeting.
 - **Nutrient Management & Water Efficiency** – An update of the Working Group meeting held on Wednesday 31 August will be provided at the meeting.
 - **Regional Committee** – A summary of the items addressed at the Regional Committee meeting held on Tuesday 9 August is provided at item 6-1.
 - Link to 9 August Regional Committee meeting papers:
<http://ecan.govt.nz/publications/Council/reg-cttee-agenda-20160809.pdf>
- **Swimming Survey** – A swimming survey is now live and running until the 3rd of September.
Key points:
 - Environment Canterbury and Lincoln University are carrying out some research to better understand where local people swim, when they swim there and why they like those places.
 - We'll be using the information collected through this research to help us develop plans and projects to protect and restore swimming opportunities throughout the region.
 - The research has been approved by the Lincoln University Human Ethics Committee.
 - All survey respondents can enter in the draw to win the perfect summer swimming accessory – an inflatable flamingo or an inflatable donut.
 - Link to the Survey: <https://www.surveymonkey.com/r/swimmingincanterbury>
- **Local Body Elections 2016** – A confirmation of those Committee members standing in the upcoming local body elections, timeframes and procedures.
- **Register of Interests** – We will look to confirm a current Register of Interests for the Committee to then be included as a standard item in the agenda papers of future water zone Committee meetings.
- **Zone Delivery Team** – An update on the current Zone Team priorities will be provided at the meeting.

- **Clarence/Waiiau toa Name Change Consultation** – An update on the proposal to change the official name of the Clarence River to the Waiiau toa / Clarence River will be provided at the meeting.
- **Community & Public Health Nitrate Communications Plan (CPH)** – Attached for the committee's information as agenda item 6-2 is an update on Nitrates from CPH.
- **Action Points from previous meetings** – an updated list of action points will be provided at the meeting.

RECOMMENDATION

The Zone Committee are asked to receive these updates for their information, and with reference to the Committee's 5 Year Outcomes and 2016 work programme priorities.

August 2016 Summary of CWMS Regional Committee Meeting

Drinking water update

Ellie McNae (Environment Canterbury) updated the Committee on:

- Low groundwater levels in community wells over the past summer. Work is underway with CDHB to better understand causes and possible responses, including under various climate scenarios
- Nitrate levels, and the updated joint work programme with CDHB around communications to pregnant women and parents of bottle fed babies. Information on the communications plan is being presented to zone committees in coming months.
- Managed aquifer recharge in the Hinds
- Public health perspectives being included in the local nutrient limit setting processes
- Updating of information held on location and details of groundwater wells and surface water intakes to inform decisions on specific for community drinking water protection zones

Biodiversity and Ecosystem Health

Committee was advised on and supported working group's

- advice to Environment Canterbury on measures for biodiversity targets
- request for update from groups with compensatory funds for environmental enhancement projects

Recreational and Amenity

The committee was updated on the community workshop held in July with recreational user groups, and the plan to work with zone committees to identify key projects and sites in each zone.

Land use and Water Quality

Report from the working group was received, and there was discussion about data by 2020 needed to be able to report on compliance and the effectiveness of changes in land management.

Regional Infrastructure

The update from the working group was received.

Handing on the tradition and story

In anticipation of new community and rūnanga members, the meeting workshopped the key dynamics and stories that have shaped CWMS, and identified key messages for new members.

Canterbury

District Health Board

Te Poari Hauora o Waitaha

Nitrate Communication Plan

Elevated nitrate in drinking water has been an emerging issue throughout Canterbury in the 2000s. There has been a trend for increasing nitrate levels in ground water, particularly private bores which are often relatively shallow.

Where do Community & Public Health (CPH) have a role?

The Ministry of Health administers the Drinking-Water Standards for New Zealand 2005/08 which sets out the Maximum Acceptable Values (MAVs) and the required monitoring for chemicals of concern in community drinking water supplies.

The NZ Public Health and Disabilities Act 2000 gives a mandate to District Health Boards to improve, promote and protect the health of people and communities.

For private domestic bores however, it is more difficult to know what drinking water quality is like if owners do not monitor their bores. In Canterbury we have seen that some private bores which are used for domestic use, have exceeded the MAV for nitrate which is set at 50mg/L Nitrate (often expressed as 11.3mg/L nitrate-nitrogen).

Health Effects

Infants under the age of 6 months who are bottle fed with formula made up with high nitrate water are at risk of a condition called methaemoglobinaemia or "Blue Baby Syndrome".

Nitrate is converted into nitrite by bacteria in the gut. This nitrite converts haemoglobin to methaemoglobin in the foetus or infant less than 6 months old preventing oxygen from binding and being distributed around the body. Symptoms include blueness around the mouth, hands and feet, hence the name 'blue baby' syndrome. High levels of methaemoglobin in the blood can affect breathing and be life-threatening. By six months of age infants develop an enzyme (cytochrome b5 reductase) which converts methaemoglobin back to haemoglobin, so blue baby syndrome never occurs in children over six months of age, no matter how much nitrate gets into their drinking water. Also, since nitrate is never excreted in breast milk, even when the mother consumes high levels of nitrate, fully breast-fed infants are protected from blue baby syndrome. Very few cases of methaemoglobinaemia have been reported in New Zealand, however nitrates in groundwater have been rising significantly in the last twenty years and therefore it is important that lead maternity carers and their clients are aware of this emerging risk, particularly if they source their drinking water from an at-risk well.

Collaboration

CPH have had discussions with Councils about nitrate in relation to drinking water over the last few years. Currently council reticulated supplies are monitored for nitrate if it already appears at levels

Community & Public Health, 310 Manchester Street, Christchurch Telephone 03 364 1777 Facsimile 03 379 6125

◆Christchurch Office: PO Box 1475, Christchurch Telephone 03 364 1777 ◆Ashburton Office: PO Box 110, Ashburton Telephone 03 307 6902
◆West Coast Office: PO Box 443, Greymouth Telephone 03 768 1160 ◆South Canterbury Office: PO Box 510, Timaru Telephone 03 687 2600

www.cph.co.nz

over half the MAV. Community water supply water safety plans (WSPs) have contingency plans in place to address risks to their water supplies including nitrate.

A joint work plan was developed with ECAN to progress a communication plan aimed at providing information to groups at risk from high nitrate drinking water. Although regional plans work towards lowering nitrate in groundwater over time, there is a need to protect those currently at risk, in particular, infants who are bottle fed or given boiled water to drink from private bores. Fully breast fed babies are not at risk.

The Communication Plan

ECAN releases annual ground water reports, these include the testing of domestic, irrigation and disused wells – to give a picture of nitrate concentrations and trends at different locations and depths throughout Canterbury. ECAN have mapped the CWMS zones into areas of high risk, moderate risk and low risk in relation to nitrate contamination.

The communication plan aims to provide region wide targeted advice, raise awareness with health professionals, and to enable key organisations to work together to deliver consistent messages.

The target group is pregnant women and those with bottle fed infants under 6 months of age on their own private drinking water bore. The message is primarily delivered via lead maternity carers (LMCs).

World Health Organization (WHO) believe the risk of methaemoglobinaemia is greater in the presence of gastrointestinal infections, when water intake may be increased in order to combat dehydration, so it is important that drinking water is tested for E coli as well as nitrate.

Delivery of message

Information on the CPH website includes regional council mapped areas (CWMS zones), frequently asked questions, pamphlet about blue baby syndrome, and laboratory testing information.

The message is also delivered through advisory notices to Lead Maternity Carers (LMCs) and other key health professionals, presentations to LMCs, zone committee and territorial local authority briefings.

At booking, midwives are able to provide advice to pregnant women about the health risk, testing of their drinking water, and what to do if the results indicate high nitrate; such as to source water from an alternative water supply or install an appropriate treatment system, although the latter option is expensive and requires ongoing maintenance.

Information is also on the Health Pathways website, alerting health professionals to ask their patients about their drinking water source.

It is also important that when water is tested it is analysed at an accredited laboratory which are using accepted techniques of analysis. These laboratories are listed on Health Pathways and the CPH website.

AGENDA ITEM NO: 7	SUBJECT: Clarence/Waiiau-toa Integrated Management Plan – Update	
REPORT TO: Kaikōura Water Zone Committee		DATE OF MEETING: 31 August 2016
REPORT BY: Murray Griffin, Zone Facilitator		

PURPOSE

The purpose of this agenda item is to provide the committee with an update on the draft Integrated Management Plan for the Clarence/Waiiau-toa. This management plan is proposed as a 5 year work programme, from 2016 to 2021, building on the success and collaboration established through weed management in the catchment over the last two years.

- A meeting was held in Blenheim on Wednesday 24 August with representatives of the agencies who will partner in the delivery of this plan. The purpose of this meeting was to get their feedback and reflections on the draft Integrated Management Plan towards a final version of the plan endorsed by partner agencies, organisations and landowners in the Clarence/Waiiau-toa catchment.
- This update will provide the Committee with an overview of the feedback received at this meeting.

BACKGROUND

- A copy of the draft Integrated Weed Management Plan has been provided for the Committee members as agenda item 6-1 at the May 2016 meeting.
- The Kaikōura Water Zone Committee funded three Immediate Steps projects in the upper and lower Clarence/Waiiau-toa in 2015. The combined funds committed by the committee came to \$148,000.
- The aim of these projects was – to protect braided river habitat from the threat of weeds to ensure that the native flora and fauna can continue to thrive.

WHO

- This update will be led by the Management Plan authors – Jess Hill (Biodiversity Officer, ECan) and Steve Palmer (Biosecurity Advisor Special Projects, ECan)

RECOMMENDATIONS

The Zone Committee are asked to receive this draft plan for their information and comment, and with reference to the Committee’s 5 Year Outcomes and 2016 work programme priorities.

AGENDA ITEM NO: 8	SUBJECT: Communications – Update and Action Plan
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 31 August 2016
REPORT BY: Murray Griffin, Zone Facilitator	

PROPOSAL

This agenda item provides the committee with an update on communications supporting the Zone Committee's work programme.

This update will cover the following items:

- Communications Action Plan – March to November 2016, provided as agenda item 8–1
- 5 Year Outcomes & Milestones Infographic
- Zone Committee Spring Newsletter
- What Next? – other opportunities, good news stories, and issues to be addressed

WHO

This briefing will be provided by:

- Gerald Raymond, ECan Lead Communications Advisor, CWMS &
- Tania Butterfield, ECan Communications Advisor

BACKGROUND

This update aligns with the following Zone Committee 5 Year Outcome and Milestones.

8) OUTCOME: To continue to broaden the Kaikōura community's awareness and involvement in water management issues and initiatives.

Milestones:

- i. Developed, maintained and implement a Communications Action Plan with a regular media profile for the committee – Kaikōura Star, KZC Newsletter, Chairs Column, etc)
- ii. Developing linkages within the community, via groups such as the NM&WE Working Group, the Love the Lyell Working Group and around priorities such as the LWRP
- iii. Youth Engagement plan developed and implemented in support of the KZC
- iv. Strengthen relationships around joint initiatives for water management with industry and community partners

RECOMMENDATION

- That the Committee review the communications action plan and confirm its priorities for the remainder of 2016.

AGENDA ITEM NO: 8-1	SUBJECT: Communications – Update and Action Plan	
REPORT TO: Kaikōura Water Zone Committee		DATE OF MEETING: 31 August 2016
REPORT BY: Murray Griffin, Zone Facilitator		

Communications Action Plan – 2016

Five Year Outcome & Milestones:

OUTCOME:

To continue to broaden the Kaikōura community's awareness and involvement in water management issues and initiatives.

Milestones:

- i. Developed, maintained and implement a Communications Action Plan with a regular media profile for the committee– Kaikōura Star, KZC Newsletter, Chairs Column, etc.)
- ii. Developing linkages within the community, via groups such as the NM&WE Working Group, the Love the Lyell Working Group and around priorities such as the LWRP
- iii. Strengthen relationships around joint initiatives for water management with industry and community partners

Tactics:

WHEN	WHAT	WHO
February 2016 April June August October November	Ted talks – zone committee full page in the Kaikoura Star every two months or so. This should include an opinion piece from the chair or other committee member as agreed, and an action-based story.	Ted with support from Murray/Gerald
Newsletter	CWMS Kaikōura Newsletter & Infographic Quarterly Newsletter A3 folded to A4 Distributed to all Kaikōura postal addresses <ul style="list-style-type: none"> • Autumn edition (April distribution) • Winter edition – content TBC • Spring edition – content TBC 	KZC, M Griffin, C Armour, G Raymond
Waterwise brochure	Final review – March 2016 Distributed to all Kaikōura postal addresses	KZC, M Griffin, C Armour, G Raymond

	<p>Additional material – based on brochure – for use this year to reinforce the messages:</p> <ul style="list-style-type: none"> • Posters (shops, halls and schools) • Fridge magnets/stickers (for households) • Adverts (one topic every month) • Radio advertising 	
Stormwater awareness	<p>How to look after your backyard and local stream (to run along-side waterwise) – or an integrated approach?</p> <ul style="list-style-type: none"> • Mini-video (local cinema) with local school • Posters (shops, halls and schools) • Fridge magnets/stickers (for households) • Adverts (one topic every month) 	KZC, M Griffin, C Armour, G Raymond
Clarence Waiau-Toa infographic	<p>Review final version – March 2016</p> <ul style="list-style-type: none"> • Printing and distribution 	KZC, M Griffin, C Armour, G Raymond
Community action	<p>Community Planting Day – April 13</p> <ul style="list-style-type: none"> • Posters (done) • Newspaper adverts • Email updates 	ECan Zone Team ECan Comms
Wai-Water	<p>Final version:</p> <ul style="list-style-type: none"> • Printing and distribution (April) • Story map and online resource 	G Raymond and M Griffin

AGENDA ITEM NO: 10	SUBJECT MATTER: Kaikōura Story Map – Workshop	
REPORT TO: Kaikōura Water Zone Committee		DATE OF MEETING: 31 August 2016
REPORT BY: Murray Griffin, Facilitator, ECan		

PURPOSE

This workshop will present the Kaikōura Water Zone Committee with the Kaikōura Story Map for review and feedback.

FOCUS

The Kaikōura Story Map has been developed from the content originally developed for the Kaikōura Wai Water publication. At the 2016 March zone committee meeting the proposal was presented to the committee of translating the Wai Water publication into a ‘Story Map’.

BY WHO

- Julia Fettes, ECan Strategy and Programmes Advisor, has developed the Kaikōura Story Map
- Murray Griffin, with support from ECan Communications Advisors Gerald Raymond and Tania Butterfield, will lead this workshop to review the Story Map with the committee.

RECOMMENDATION

That the Committee receive this briefing for their information, and in relation to the Committee’s 5 Year Outcomes and community engagement for 2016.