



KAIKŌURA WATER ZONE MANAGEMENT COMMITTEE

on

WEDNESDAY 03 July 2019

TO BE HELD AT THE

DISTRICT COUNCIL CHAMBERS

2ND FLOOR

96 WEST END, KAIKŌURA

AT 12:30PM

KAIKŌURA WATER ZONE COMMITTEE

MEETING

Date: **Wednesday, 3 July 2019**

Time: **12.30 – 4pm**

Venue: **The District Council Chambers, 2nd Floor, 96 West End, Kaikōura**

TIMETABLE & ORDER OF BUSINESS

	12pm	Lunch	
		Open – Karakia	
1	12.30	Committee check-in & Order of business	Chair – T Howard
		<ul style="list-style-type: none"> • Apologies • Announced urgent business • Confirmation of previous meeting minutes • Te Reo practice 	
2	12.50pm	Opportunity for the public to speak	Chair – T Howard
3	1pm	Immediate Steps Funding – update	K Heays & H Melville
		<i>Heath and Kevin will provide an update on Immediate Steps biodiversity funding and approach for the 2019/20 financial year.</i>	
4	1.30pm	Biodiversity Actions – What's Happening?	H Melville
		<i>Heath will provide an update on the on the ground projects supporting biodiversity in the Lyell/Waikōau catchment</i>	
	2.15pm	Afternoon Tea	
5	2.30pm	2019/20 Work Programme	M Griffin
		<i>Murray will lead a review of the committee's work programme to confirm the priorities for the remaining meetings and briefings in 2019</i>	
6	3pm	Committee Updates	M Griffin
		<i>Several updates will be received by the committee, including a short update on Zone Delivery and the CWMS Regional Committee.</i>	
7	3.50	General Business	T Howard
	4pm	Close – Karakia	

KAIKŌURA WATER ZONE COMMITTEE

	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 hāpori 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
KAI KARAKIA	E te Atua Whakapainga ēnei kai Hei oranga mō ō mātou tinana Whāngaia hoki ō mātou wairua ki te taro o te ora Ko Ihu Karaiti tō mātou Ariki Ake ake ake, Amene	Lord God Bless this food For the goodness of our bodies Feeding our spiritual needs also with the bread of life Jesus Christ, our Lord Forever and ever Amen

**MINUTES OF THE KAIKŌURA ZONE WATER COMMITTEE
MEETING HELD AT 12.30PM ON WEDNESDAY 5 JUNE
2019 AT
COUNCIL CHAMBERS, 96 WEST END, KAIKŌURA.**

PRESENT: T Howard (Chair), J Murray, N McArthur, T Blunt, T Sonal (arrived 1:00pm) Councillor S Lowndes,

IN ATTENDANCE: B Cowan (DOC), M Harding (Consultant), M Bell (Wild Life Management), P Bradshaw (ECan), D Marris (Amuri Helicopters), K Heays (Ecan), S Bragg (ECan), S Palmer (ECan), S Bowman (ECan), C McConchie (Kaikōura Rūnanga – observer)

APOLOGIES: G Solomon, A Boyd and M Griffin

Moved by J Murray, seconded by T Blunt and resolved that apologies be accepted.

KARAKIA

1. COMMITTEE CHECK-IN & ORDER OF BUSINESS

Tony Blunt informed committee he wished to discuss the nitrate probe proposal and decision made to discuss this at the end of the meeting.

URGENT BUSINESS

No urgent business.

CONFIRMATION OF PREVIOUS MINUTES

Corrections

- a) Page 5, paragraph 2
S Smith explicated to R Roche that the problem, in his eyes, lay with a piece of the law and he will be taking legal action on that – to be changed to 'advice'.
- b) Page 7, paragraph 4(b)
At the Frosts site (Wood Grove, Kanuka Terrace – Hartnett's Creek Protection), the aim is to create a Kiwi2 covenant around the secondary Kanuka/mixed broad leaf alluvial forest – to be changed to QEII.

Moved by S Lowndes, seconded T Howard and resolved that the minutes of the Kaikōura Zone Water Committee meeting held on 1 May 2019 be confirmed a true and accurate record.

TE REO PRACTICE

Local place names in Māori led by Brett Cowan.

2. OPPORTUNITY FOR PUBLIC TO SPEAK

There were no public in attendance at this meeting.

3. WAIATUA TOA/CLARENCE RIVERBED WEED CONTROL STRATEGY - BRIEFING

Mike Harding gave a briefing per a Powerpoint presentation.

- Project set up in the 2017/2018 year, with a further survey follow-up 2018/2019.
- **Mapping method:**
 - **Points:** single plants/small infestations; live/treated/dead; from GPS or aerial photos/flights
 - **Polygons:** density – scarce to dominant; less accurate away from riverbed; indicative (to guide control effort)
 - **Shape files:** final maps by ECan
- **Coverage** – weeds that affect the ecology and functioning of riverbed habitats:
 - Excludes pines, hawthorn, wattle
 - Excludes sweet brier
 - Excludes some herbaceous weeds
 - Other weeds noted in report

Known uppermost extent of weeds

From consultation:

- Aerial photos
- Flights
- Ground survey

Limited by budget/time

- Weeds identified to be controlled:
 - Broom
 - Gorse
 - Willow (Crack, Grey, Golden)
 - Poplar (Lombardy, Black, Silver)
 - Tree Lupin
 - Buddleia
 - False Tamarisk
 - Stonecrop

Other weeds:

- Alder; Russell Lupin; Spearmint; Spanish Heath; Lotus/Bridsfoot Trefoil; White Stonecrop; Montpellier Broom

- **Eradication**

Focused on species that:

- are only small isolated infestations
- pose a significant threat to riverbeds
- can feasibly be eradicated from a geographically distinct area
- achievable with limited resources

Mike outlined the priority areas for eradication.

- **Containment**

Focused on species that:

- pose a significant threat
- can feasibly be contained to part of the catchment e.g. Spanish Heath

- **Priorities for Surveillance and Monitoring**

- Monitor all broom, gorse, Russell Lupin and Tree Lupin control sites annually

- Monitor all other control sites regularly
 - Monitor the spread and vigour of Birdsfoot Trefoil along Acheron River
 - Monitor the spread of stonecrop and White Stonecrop
 - Survey weed-free parts of the upper catchment regularly (especially vehicle tracks) to detect new infestations of existing and new weed species
- **Priorities for Advocacy and Investigation**
 - Encourage continued co-operation between agencies and land owners/occupiers
 - Investigate release of additional bio-control agents for the control of broom and gorse
 - Investigate issues associated with eradication of willow from the upper catchment
 - Restrict spread of weeds by vehicles by erecting barriers to prevent vehicle access to smaller valleys, and by better signage/advocacy
 - Liaise with Transpower to ensure weed seeds are not introduced during servicing of electricity pylons, and to ensure effective weed control occurs at pylon sites
 - Investigate options for seeding or planting of native vegetation at broom control sites
 - **General Recommendations for Control of Riverbed Weeds**
 - All riverbed weed control should be undertaken by experienced operators who are well briefed on the nature and likely locations of sensitive native species and habitats
 - Small isolated infestations of all shrubby weed species (broom, gorse, tree lupin, Spanish Heath, Buddleia, Alder) and Russell Lupin should be controlled by ground based methods, or helicopter-based wand spraying provided native species are not affected
 - Control of large dense infestations of broom or gorse (for riverbed weed control) should only occur where required for the urgent protection of riverbed habitats, or where post control site rehabilitation is proposed. Helicopter based control may be appropriate, provided native species are not affected
 - Helicopter based control of tall weed species such as Crack Willow and Poplar, provided native species are not affected

Teri Sonal commented that perhaps more native trees should be planted in the catchment.

Mike Harding advised that the maps in the PowerPoint presentation were in draft format and there was still some work to do to update. He would pass on the updated maps to the committee. He also advised that public access to this information was available on the Environment Canterbury website.

Steve Palmer gave a vote of thanks to Mike stating the information is very beneficial to the Kaikōura zone committee.

4. WAI AU TOA/CLARENCE BIODIVERSITY ACTION PLAN - UPDATE

Steve Palmer presented his update by a PowerPoint presentation

- This project commenced 5 years ago
- Riverbeds – working bank/bank with Immediate Steps funding
- Methodology – rafting – whole of Clarence area the focus

- *Area 3:* is the biggest, with responsibility shared with Marlborough District Council and DOC. This restricts the expenditure for Environment Canterbury and working within parameters. However, Marlborough District Council have improved their contribution.
- *Area 1:* gorse, broom and old man's beard – shelved at the moment. Monitoring and spraying is done by rafting in the gorge areas, and aerially.
- *Area 2:* this falls into the zone committee's boundary and Steve is pleased with progress. Hawthorne and another weeds control sits with DOC.
- *Area 4:* gorse and broom.
- The funding contributions is 2/3rds landowners and 1/3rd zone committee.
- Rowan Trees are a focus too, plus Wilding Conifers.

Tony Blunt commented that farmers should be encouraged to plant natives and gain carbon credits.

2:25pm – 2:41pm Afternoon Tea

5. WAI AU TOA/CLARENCE PREDATOR CONTROL UPDATE

Mike Bell

- In the braided river areas, habitat is important
- Predators: cats/hedgehogs/stoats and ferrets are another big pest
- Three – four-year research was done to identify predators and there are different species for each river
- Predator control operating in the Upper Clarence
- Habitat creation is done by bulldozers to change the flow around islands and create deep channels on each side. Bulldozing should not be undertaken in the breeding season, from Oct-Jan. The islands require little maintenance with hand pulling weeds and spraying.
- Decoys have been used on the various islands to ward off predators without a lot of success, but these are becoming more realistic
- Breeding (particularly Turns) success on islands as predator free, but this does not apply to the mainland. Mike would like to see more islands created
- Turns are doing well in the Clarence catchment, but disappointing in other areas. Struggling on ways to save
- Braided rivers are dynamic and are hard to work with as they are ever changing
- Hedgehogs are difficult to control and cause a lot of havoc, necessitating to expand area of monitoring. Dogs are currently being trained to seek out hedgehogs
- Black-billed gull are a major predator and if they could be eradicated this would save a lot of species. Numbers are out of control caused by agriculture and refuse disposal. Cost is a factor
- The Kaikōura earthquake has changed the area in the Waiau Toa / Clarence river and there has been lots of flooding
- A five-year term for plan has given a good timeframe for this type of project and has exceeded Mike's expectations
- Mike advised that this is the last season of funding and where to next?

Nicky McArthur brought up the subject of climate change and the effect this will have on predators/habitat/biodiversity – massive consequences.

Steve Palmer commented he would like to assist as much as possible to enhance Mike Bell's work. The encroachment of weeds has the potential to ruin habitat development. Create buffer zones is a priority, in broom in particular, as this is where the predators hide. Even native plants harbour predators.

6. COMMITTEE UPDATE

Kevin Heays introduced the new Land Management Advisor, Peter Bradshaw, based in Kaikōura.

The 3 Waters update was carried over to the next meeting to be held on the 3rd July.

Next regional meeting 11 June 2019.

7. GENERAL BUSINESS

Ted Howard asked Tony Blunt to present to the committee his nitrate probe proposal.

Tony handed out a paper written by Lincoln Agritech on the conceptual model and approach. The committee were requested to consider the possibility of monitoring ground water nitrates in the Kaikōura region. The estimated cost is approx. \$8,000 per site to cover the installation of the nitrate sensor, telemetry, and solar power supply. Five to six bore holes would have to be tested to provide a good scientific result. Ted commented that the outcome should be more about the science.

Steve Lowndes voted in favour of this proposal and said it would lead the way for other catchments. To look at ear marking funding in the next financial year through Environment Canterbury and to perhaps incorporate partners like farmers/businesses.

Tony advised that he is prepared to fund one bore, together with neighbouring farmers if they were interested.

This item to be further discussed and placed on the agenda for next month's meeting.

Closing Karakahia

There being no further business the meeting closed at 3.45pm.

AGENDA ITEM NO: 3	SUBJECT: Immediate Steps Biodiversity – Update
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 3 July 2019
REPORT BY: Murray Griffin, CWMS Facilitator – Kaikōura	

PURPOSE

This agenda item provides the committee with an update in Immediate Steps biodiversity funding and projects. It will confirm the current state of funded projects, and an approach to utilizing the funds in the 2019/20 financial year.

BY WHO

Heath Melville (ECan, Project Delivery Officer) and Kevin Heays (ECan, Kaikōura Zone Manager) will provide this update on Immediate Steps Biodiversity funding and projects.

IMMEDIATE STEPS PRIORITIES FOR 2019/2020

This update will include an overview of the priorities for Immediate Steps biodiversity projects in the 2019/2020 financial year for Kaikōura. These priorities align with the regional approach to ensuring the greatest contribution from future Immediate Steps funding is achieved by protecting existing freshwater biodiversity values in Canterbury.

BACKGROUND

The purpose of the Immediate Steps funding programme is to protect and restore freshwater biodiversity in Canterbury.

After having received information relating to the freshwater values in the Kaikōura Zone, the zone committee decided not to limit the allocation of IS funds to a certain freshwater habitat type, or geographical area. In December 2011, the zone committee decided that they would like to see priority given to projects that fit with certain criteria. The criteria specified included projects which:

- have long term protection (i.e. QEII covenants)
- link in with or support existing projects
- have high visibility and are accessible to the public.

In addition to the above criteria, the zone committee has subsequently chosen three areas as priorities in their Zone Implementation Programme; the Clarence/Waiau Toa River, Lyell/Waikōau Creek and Lakes Rotorua and Rotoiti. The zone committee has agreed that Immediate Steps funding will also be used to help support projects within these priority areas.

Immediate Steps Funding by the Kaikōura Water Zone Committee to date

2010/2011 – 2015/2016

In 2011 the Kaikōura zone committee was allocated funding which equated to \$100,000/year for five years. Regionally, the Immediate Steps programme was extended until June 2016 to allocate the original \$500,000 worth of Immediate Steps funds. 23 projects have been funded by Immediate Steps. The zone committee has allocated all of the first five years of funding.

2016/2017 – 2020/2021

From July 2016 the zone committee has received another \$100,000/year for five years. In May 2016, the zone committee approved \$50,000/year for the next five years (as 1/3 of the total spend per annum within the catchment) to be allocated to the ongoing weed control programme in the Upper and Lower Clarence/Waiau Toa River. Leaving approximately \$250,000 Immediate Steps funds to allocate given a 5-year funding programme (\$50,000/year for five years).

RECOMMENDATION

That the zone committee receive this update for its information and priority setting for biodiversity projects and funding in the 2019/20 financial year.

AGENDA ITEM NO: 4	SUBJECT: Biodiversity Actions – What’s Happening?
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 3 July 2019
REPORT BY: M Griffin, CWMS Facilitator – Kaikōura	

PURPOSE

This item will provide the committee with an update on:

- Current projects supporting biodiversity values in the Lyell/Waikōau catchment,
- other on-the-ground projects developed on the Kaikōura plains,
- the proposed approach to further on-the-ground actions and project development in the Lyell/Waikōau catchment, and across the plains, in 2019/2020.

BY WHO

Heath Melville (ECan, Project Delivery Officer) and Kevin Heays (ECan, Kaikōura Zone Manager) will provide this update.

RECOMMENDATION

That the committee receive this update for its information and with regard to the committee’s 5 Year outcomes and 2019/20 work programme.

BACKGROUND

The recommendations of the Lyell Creek Recovery Plan were put together by NIWA on behalf of the Kaikōura Plains Recovery Project in 2018. NIWA staff provided two reports to the Kaikōura Plains Recovery project in 2018, which have been approved by the Zone Committee:

- 1) The issues facing the Lyell Creek catchment
- 2) The recommended actions for the recovery of the catchment

In September 2018, C Armour and J Hill (ECan Zone Delivery) provided a briefing on the actions recommended by NIWA, and the ECan Zone Team’s recommendation for how to fund these actions and the process the zone team are proposing to follow to achieve the actions.

Immediate Steps Contribution

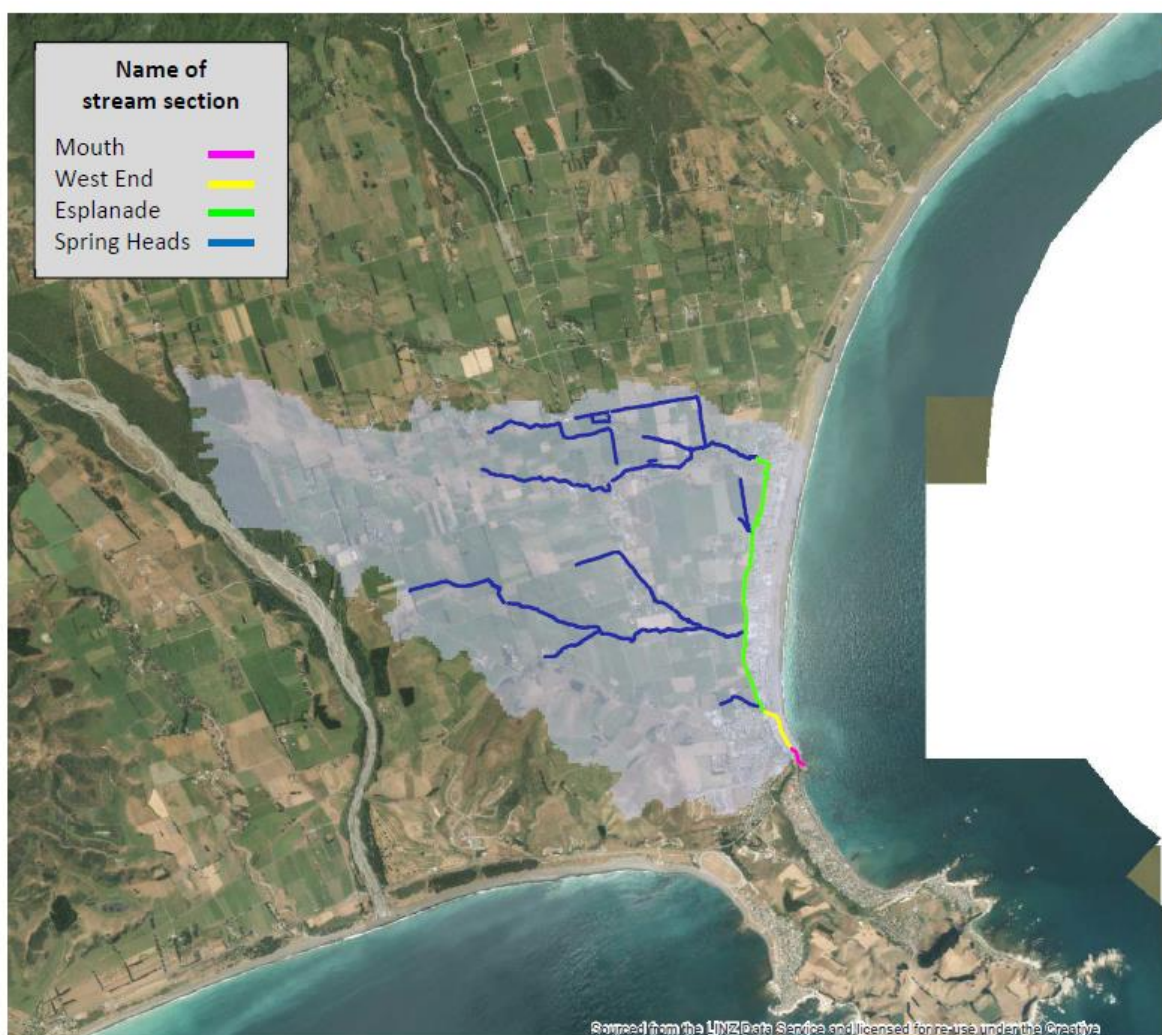
In September 2018, the Zone Committee supported a proposal to pre-allocate a portion of the immediate steps funding towards the NIWA recommended actions on the ground in the Lyell Creek/Waikōau Catchment.

This proposal included a set of criteria that any potential projects would meet in seeking to improve freshwater biodiversity outcomes for the Lyell /Waikōau catchment. The rationale for pre-allocating a portion of Immediate Steps funding was to assist with implementing actions from the NIWA Lyell Creek/Waikōau catchment recovery plan by June 2019.

Pre-allocated funding provides the zone team certainty when proactively approaching landowners regarding NIWA recommendations for actions on their land to achieve water quality and biodiversity outcomes.

Lyell Creek/Waikōau Catchment Recovery Plan

1. The following **Map** outlines the catchment area for the Lyell Creek/Waikōau catchment recovery actions.



Map 1: Boundaries of the Lyell Creek/Waikōau catchment, and stream reaches surveyed in the 2018 stream walks classified into the sections defined by the Kaikōura Water Zone Committee (2016).

Summary of Funding for Lyell Creek/Waikōau Catchment Recovery in 2018

Kaikōura Water Zone Committee governed funding:

1) \$100,000 – On the ground actions

Provided by Environment Canterbury in lieu of a deferred sub-regional planning process in Kaikōura for on the ground actions. Based on the recommendations of the Lyell/Waikōau Catchment Recovery Plan (NIWA 2018) two priorities – 1)

the lower Lyell/Waikōau and 2) widening buffers around overland flow paths, are recommended for allocating this funding as follows:

- Lower Lyell/Waikōau (\$20,000)

- Add riffles and other in-stream features to improve habitat diversity
- Spray weeds below foot bridge and remove dead vegetation
- Work with Love the Lyell
- Work with West End businesses to assist with upkeep of maintenance

- Widening buffers around overland flow paths (\$80,000)

- Overland flow paths or where fence set back needs extending
- Sites where no bank battering is required
- Fund pays for materials and for contractor to do the work, farmer/landowner gives up land
- Limit of \$10,000 per property

2) Immediate Steps

Assist the planting element of other projects on a case by case basis, as per the normal Immediate Steps process.

- New spring wetland planting
- Planting rebattered banks

Additional Funding Sources (not KWZC):

3) Kaikoura Plains Recovery Project – Ministry of Primary Industries

- Will fund demonstration sites of recommended actions
- New spring protection
- Buffers around overland flow paths
- Bank rebattering
- \$60,000 available in 2018/19
- Further funding available in 2019/20

4) \$90,000 – Wetlands – ECan Long Term Plan (Zone team)

- Must be spent in 2018/19 year
- Part of the fund will go towards a wetland flagship project
- Part of the funding will be available to landowners to protect new springs – fence and plant

5) Fonterra 50 Catchments

- Nothing confirmed yet

AGENDA ITEM NO: 5	SUBJECT: 2019 Work Programme – Review	
REPORT TO: Kaikōura Water Zone Committee		DATE OF MEETING: 3 July 2019
REPORT BY: Murray Griffin, CWMS Facilitator – Kaikōura		

PROPOSAL

This item on the agenda provides the Zone Committee with an opportunity to review and confirm the priorities for the committee's work programme for the remainder of 2019.

- An updated copy of the committee's work programme will be provided for review.

REVIEW FOCUS

This review will focus on the committee's remaining meetings for 2019 and consider the committee's 5 Year outcomes and related briefings or points of follow up.

RECOMMENDATION

That the committee confirm its work programme priorities for the remainder of 2019.

AGENDA ITEM NO: 6	SUBJECT: Committee Updates
REPORT TO: Kaikōura Water Zone Committee	DATE OF MEETING: 3 July 2019
REPORT BY: Murray Griffin, CWMS Facilitator – Kaikōura	

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:

1. CWMS Regional Committee

The last **Regional Committee meeting** was held on Tuesday 11 June. The zone committee's representative, Ted Howard, will provide a summary of this meeting in advance of the meeting. The next CWMS Regional Committee meeting is on Tuesday 13 August.

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

2. Kaikōura Zone Delivery Team – update

Kaikōura Zone Manager, Kevin Heays, will provide a short verbal update on current Zone Delivery priorities for the committee including:

- Nagari wetland planting day, 12 June.

3. Nitrate Probe Proposal

CWMS Facilitator, Murray Griffin, has followed up on this proposal (as tabled at the June committee meeting) with the ECan Groundwater Team. This proposal is being reviewed by ECan Science with regard to its cost and potential contribution to the existing freshwater quality monitoring undertaken in the Kaikōura Zone. A more detailed update on ECan's current freshwater quality monitoring in Kaikōura will be provided at the August Zone Committee meeting.

4. Mātaitai – update

A check-in on the mātaitai issue discussed at the previous committee meeting, and future communications on this issue will be discussed.

5. 3 Waters Update – Kaikōura District Council

The previous KDC Works and Services committee meeting was held on 26 June 2019, please refer to the following link for this meeting's reports.

Link: <https://www.kaikoura.govt.nz/assets/Uploads/190626-WS-Agenda.pdf>

3 THREE WATERS:

Water Supply

Boil Water Notice Update (BWN)

Kaikōura Urban
No update.

Other Schemes

BWNs in place in Fernleigh, Kaikōura Suburban and the East Coast (Clarence) Supply Schemes.

East Coast BWN and Suburban BWN have been in place since the November 2016 earthquake.

The Fernleigh BWN was put in place on 24 December after notification of an E. coli transgression through monitoring tests.

The details around each of these follows.

Suburban Kaikōura Water Supply

No change.

East Coast Water Supply

No change.

Fernleigh Water Supply

This scheme has received three clear consecutive tests since Christmas. Canterbury DHB has required the BWN to stay in place pending the outcome of an investigation by Downer into the contamination source. It should be noted that this scheme is managed and operated by Downer and Council's role is to monitor the scheme's performance.

Water Safety Plans

WSPs are required for each scheme. The status of work for all schemes is as follows:

- 1) Oaro – approved
- 2) Ocean Ridge – approved
- 3) Kaikōura Urban – approved
- 4) Kincaid – approved
- 5) Peketa – approved
- 6) Fernleigh – approved
- 7) Kaikōura Suburban – approved
- 8) East Coast Rural – on-hold pending discussions on future options

Scheme Performance

Council is working with engineering consultants (Stantec) to assess water supply wells/bores within Council's network. This is to determine the current water supply and wastewater systems' capacity. This work will confirm the adequacy for current demands, and identify future upgrades required to cope with the growth and development in the future.

All schemes are performing well with no significant supply issues.

Wastewater System

Scheme Performance

No issues with the wastewater system.

Stormwater Systems

Scheme Performance

No issues.

RECOMMENDATIONS

That the Zone Committee receive these updates for their information, and with reference to the committee's 2019 work programme and 5 Year outcomes.