

Three Waters Infrastructure and Environment Committee AGENDA

Notice of Meeting:

An ordinary meeting of the Three Waters Infrastructure and Environment Committee will be held on:

Date: **Wednesday 10 March 2021**
Time: **9.30am**
Venue: **Council Chambers, Civic Offices,
53 Hereford Street, Christchurch**

Membership

Chairperson	Councillor Pauline Cotter
Deputy Chairperson	Councillor James Daniels
Members	Mayor Lianne Dalziel
	Deputy Mayor Andrew Turner
	Councillor Jimmy Chen
	Councillor Catherine Chu
	Councillor Melanie Coker
	Councillor Mike Davidson
	Councillor Anne Galloway
	Councillor James Gough
	Councillor Yani Johanson
	Councillor Aaron Keown
	Councillor Sam MacDonald
	Councillor Phil Mauger
	Councillor Jake McLellan
	Councillor Tim Scandrett
	Councillor Sara Templeton

4 March 2021

Principal Advisor

Carolyn Gallagher
General Manager City Services
(Acting)
Tel: 941 8879

David Corlett
Committee and Hearings Advisor
941 5421
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Note: The reports contained within this agenda are for consideration and should not be construed as Council policy unless and until adopted. If you require further information relating to any reports, please contact the person named on the report.

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Developing Resilience in the 21st Century

Strategic Framework

Whiria ngā whenu o ngā papa,
honoa ki te maurua tāuiki

Bind together the strands of each mat and join
together with the seams of respect and reciprocity

Ōtautahi-Christchurch is a city of opportunity for all

Open to new ideas, new people and new ways of doing things – a city where anything is possible

Principles

Being open,
transparent and
democratically
accountable

Promoting
equity, valuing
diversity and
fostering inclusion

Taking an inter-generational approach
to sustainable development,
prioritising the social, economic
and cultural wellbeing of
people and communities
and the quality of the
environment, now
and into the
future

Building on the
relationship with
Te Rūnanga o Ngāi Tahu
and the Te Hononga-Council
Papatipu Rūnanga partnership,
reflecting mutual understanding
and respect

Actively collaborating and
co-operating with other
local, regional
and national
organisations

Ensuring
the diversity
and interests of
our communities
across the city and the
district are reflected in
decision-making

Community Outcomes

Resilient communities

Strong sense of community
Active participation in civic life
Safe and healthy communities
Celebration of our identity
through arts, culture, heritage,
sport and recreation
Valuing the voices of all cultures
and ages (including children)

Liveable city

Vibrant and thriving city centre
Sustainable suburban and
rural centres
A well connected and accessible
city promoting active and
public transport
Sufficient supply of, and
access to, a range of housing
21st century garden city
we are proud to live in

Healthy environment

Healthy water bodies
High quality drinking water
Unique landscapes and
indigenous biodiversity are
valued and stewardship
exercised
Sustainable use of resources
and minimising waste

Prosperous economy

Great place for people, business
and investment
An inclusive, equitable economy
with broad-based prosperity
for all
A productive, adaptive and
resilient economic base
Modern and robust city
infrastructure and community
facilities

Strategic Priorities

Enabling active
and connected
communities
to own their future

Meeting the challenge
of climate change
through every means
available

Ensuring a high quality
drinking water supply
that is safe and
sustainable

Accelerating the
momentum
the city needs

Ensuring rates are
affordable and
sustainable

Ensuring we get core business done while delivering on our Strategic Priorities and achieving our Community Outcomes

Engagement with
the community and
partners

Strategies, Plans and
Partnerships

Long Term Plan
and Annual Plan

Our service delivery
approach

Monitoring and
reporting on our
progress

THREE WATERS INFRASTRUCTURE AND ENVIRONMENT COMMITTEE OF THE WHOLE - TERMS OF REFERENCE / NGĀ ĀRAHINA MAHINGA

Chair	Councillor Cotter
Deputy Chair	Councillor Daniels
Membership	The Mayor and All Councillors
Quorum	Half of the members if the number of members (including vacancies) is even, or a majority of members if the number of members (including vacancies) is odd.
Meeting Cycle	Monthly
Reports To	Council

Delegations

The Council delegates to the Three Waters Infrastructure and Environment Committee authority to monitor and make decisions on:

- Water supply, conservation and quality.
- Receive regular updates from the Water Management Zone Committees.
- Stormwater drainage including the Land Drainage Recovery Programme.
- Natural environment, including the waterways, aquifers, ecology and conservation of resources.
- Natural hazards protection, including flood protection and river control.
- Solid waste collection, processing and disposal including landfills.
- Sewage collection, treatment and disposal.
- Applications to the Biodiversity Fund.

Bylaws

The Council delegates to the Committee authority to:

- Oversee the development of new bylaws within the Committee's terms of reference, up to and including adopting draft bylaws for consultation.
- Oversee the review of the following bylaws, up to and including adopting draft bylaws for consultation.
 - Trade Waste Bylaw 2015
 - Waste Management Bylaw 2009
 - Water Supply, Wastewater and Stormwater Bylaw 2014

Submissions

- The Council delegates to the Committee authority:
- To consider and approve draft submissions on behalf of the Council on topics within its terms of reference. Where the timing of a consultation does not allow for consideration of a draft submission by the Council or relevant Committee, that the draft submission can be considered and approved on behalf of the Council.

Limitations

- This Committee does not have the authority to set project budgets, identify preferred suppliers or award contracts. These powers remain with the Finance and Performance Committee.
- The general delegations to this Committee exclude any specific decision-making powers that are delegated to a Community Board, another Committee of Council or Joint Committee. Delegations to staff are set out in the delegations register.
- The Council retains the authority to adopt policies, strategies and bylaws.

Chairperson may refer urgent matters to the Council

As may be necessary from time to time, the Committee Chairperson is authorised to refer urgent matters to the Council for decision, where this Committee would ordinarily have considered the matter. In order to exercise this authority:

- The Committee Advisor must inform the Chairperson in writing the reasons why the referral is necessary.
- The Chairperson must then respond to the Committee Advisor in writing with their decision.
- If the Chairperson agrees to refer the report to the Council, the Council may then assume decision-making authority for that specific report.

Part A	Matters Requiring a Council Decision
Part B	Reports for Information
Part C	Decisions Under Delegation

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Karakia Whakamutunga

Karakia Timatanga

1. Apologies / Ngā Whakapāha

At the close of the agenda no apologies had been received.

2. Declarations of Interest / Ngā Whakapuaki Aronga

Members are reminded of the need to be vigilant and to stand aside from decision making when a conflict arises between their role as an elected representative and any private or other external interest they might have.

3. Confirmation of Previous Minutes / Te Whakaāe o te hui o mua

That the minutes of the Three Waters Infrastructure and Environment Committee meeting held on [Wednesday, 10 February 2021](#) be confirmed (refer page 8).

4. Public Forum / Te Huinga Whānui

A period of up to 30 minutes will be available for people to speak for up to five minutes on any issue that is not the subject of a separate hearings process.

5. Deputations by Appointment / Ngā Huinga Whakaritenga

Deputations may be heard on a matter or matters covered by a report on this agenda and approved by the Chairperson.

There were no deputations by appointment at the time the agenda was prepared.

6. Presentation of Petitions / Ngā Pākikitanga

There were no petitions received at the time the agenda was prepared.

Three Waters Infrastructure and Environment Committee OPEN MINUTES

Date: Wednesday 10 February 2021
Time: 9.32am
Venue: Council Chambers, Civic Offices,
53 Hereford Street, Christchurch

Present

Chairperson
Deputy Chairperson
Members

Councillor Pauline Cotter
Councillor James Daniels
Mayor Lianne Dalziel
Deputy Mayor Andrew Turner
Councillor Jimmy Chen
Councillor Catherine Chu
Councillor Melanie Coker
Councillor Mike Davidson
Councillor Yani Johanson
Councillor Aaron Keown
Councillor Sam MacDonald
Councillor Phil Mauger
Councillor Jake McLellan
Councillor Tim Scandrett
Councillor Sara Templeton

10 February 2021

Principal Advisor

Carolyn Gallagher
Acting General Manager City
Services
Tel: 941 8879

David Corlett
Committee and Hearings Advisor
941 5421
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Part A Matters Requiring a Council Decision

Part B Reports for Information

Part C Decisions Under Delegation

Karakia Timatanga: Given by Councillor Daniels.

The agenda was dealt with in the following order.

1. Apologies / Ngā Whakapāha

Part C

Committee Resolved TWIA/2021/00001

That the apologies received from Councillors Galloway and Gough for absence and Councillor Scandrett for lateness be accepted.

Councillor Templeton/Councillor Chen

Carried

2. Declarations of Interest / Ngā Whakapuaki Aronga

Part B

There were no declarations of interest recorded.

3. Confirmation of Previous Minutes / Te Whakaāe o te hui o mua

Part C

Committee Resolved TWIA/2021/00002

That the minutes of the Three Waters Infrastructure and Environment Committee meeting held on Wednesday, 16 December 2020 be confirmed.

Councillor Templeton/Councillor Davidson

Carried

4. Public Forum / Te Huinga Whānui

Part B

There were no public forum presentations.

5. Deputations by Appointment / Ngā Huinga Whakaritenga

Part B

There were no deputations by appointment.

6. Presentation of Petitions / Ngā Pākikitanga

Part B

There was no presentation of petitions.

7. Water Zone Committees' Terms of Reference

Committee Comment

1. An additional resolution was provided in response to Committee comment.

Officer Recommendations / Ngā Tūtohu

That the Three Waters Infrastructure and Environment Committee:

1. Endorse the revised terms of reference for the water management zone committees.

Committee Resolved TWIA/2021/00003

Part C

That the Three Waters Infrastructure and Environment Committee:

1. Endorse the revised terms of reference for the water management zone committees.
2. That it remains the position of the Christchurch City Council that the specific Terms of Reference for the applicable zone committees (as joint committees of the Council and Environment Canterbury) do include provision for alternatives and request that staff communicate this position to Environment Canterbury staff.

Councillor Chen/Councillor Coker

Carried

Councillor Coker arrived at 9.40am during item 7.

Councillor Scandrett arrived at 9.57am during consideration of item 8.

Councillor McLellan left the meeting at 10.23am and returned at 10.25am during consideration of item 8.

Councillor Turner left the meeting at 10.28am during consideration of item 8 and was not present for the resolution.

8. Three Waters Infrastructure and Environment Committee report - November/December 2020

Committee Comment

1. The Committee asked to be updated on lead sampling results and the timeline for any remedial works required. Several mechanisms for communicating this information were referenced. These were:
 - a. Updates in the Bi-monthly report
 - b. A staff memo to be issued within a week
 - c. Updating of the Council website
2. In response to the staff report the Committee also requested updates on:
 - a. Age testing
 - b. The timeline for backflow prevention
 - c. Denton Pump Station and reservoir

3. The Committee asked for a memo on the alignment and integration of Ōtākaro Avon River stop bank works, Pages Road Bridge alignment, and cycleway development.

Staff tabled an updated timeline to replace the existing timeline on page 32 of the agenda (Page 6 of Attachment A for Item 8). The new timetable, *Reform-timeline-December-2020*, is attached below.

Officer Recommendations / Ngā Tūtohu

That the Three Waters Infrastructure and Environment Committee:

1. Receive the information in the Three Waters Infrastructure and Environment report for November and December 2020.

Committee Resolved TWIA/2021/00004

Part C

That the Three Waters Infrastructure and Environment Committee:

1. Receive the information in the Three Waters Infrastructure and Environment report for November and December 2020.

Councillor Cotter/Councillor Daniels

Carried

Attachments

- A Reform-timeline-December-2020

Karakia Whakamutunga: Given by Councillor Cotter.

Meeting concluded at 10.33am.

CONFIRMED THIS 10th DAY OF MARCH 2020

**COUNCILLOR PAULINE COTTER
CHAIRPERSON**

7. Zone Committees Annual Reports

Reference / Te Tohutoro: 21/121040

Report of / Te Pou
Matua:

Gina Waibl, Deputy Chair, Banks Peninsula Zone Committee
Kevin Brown, Chair, Christchurch-West Melton Zone Committee
Les Wanhalla, Co-Chair, Selwyn-Waihora Zone Committee

General Manager /
Pouwhakarae:

Brendan Anstiss, GM Strategy & Transformation
Brendan.anstiss@ccc.govt.nz

1. Brief Summary

- 1.1 The purpose of this report is for the Three Waters Infrastructure and Environment Committee to receive the latest annual reports from the three Water Management Zone Committees. The report has been written as part of the regular reporting by the Zone Committees to this Committee.
- 1.2 The three Water Management Zone Committees (Banks Peninsula, Christchurch-West Melton and Selwyn-Waihora) were established under the Canterbury Water Management Strategy.
 - 1.2.1 Each of the three Zone Committee are joint committees of Environment Canterbury and Christchurch City Council. As the Christchurch-West Melton and Selwyn Waihora water management Zones also include portions of Selwyn District, the two Zone Committees are also joint committees with Selwyn District Council.
 - 1.2.2 Each Zone Committee comprises one Environment Canterbury councillor, one elected member from each district council within the Zone, one member from each Rūnanga in the Zone, four to seven members of the community and one youth member.
 - 1.2.3 The purpose and functions of Zone Committees are to:
 - Facilitate community engagement and collaboration
 - Facilitate the provision of advice through to councils and others contributing to freshwater management
 - Enhance delivery capability and working with stakeholders across all sectors to promote and leverage collective resources to implement the Canterbury Water Management Strategy
 - Report progress
 - 1.2.4 Zone Committees do not have their own budgets. They are able to make decisions on projects that are funded under Environment Canterbury's Immediate Steps Biodiversity Programme, but otherwise cannot commit Environment Canterbury or district council funds.
- 1.3 The Zone Committees' annual reports (Attachments A, B and C) highlight the activities and achievements in 2020. Although hampered somewhat by the 2020 COVID-19 lockdown the Zone Committees have nevertheless had a successful year.
- 1.4 The Zone Committees' update reports cover the period of December 2020 through February 2021.

2. Officer Recommendations / Ngā Tūtohu

That the Three Waters Infrastructure and Environment Committee:

1. Receive the Zone Committees' 2020 annual reports.
2. Note the work of each of the three water management Zone Committees.

Attachments / Ngā Tāpirihanga

No.	Title	Page
A ↓	2020 Annual Review Banks Peninsula Zone Committee	16
B ↓	2020 Annual Review Christchurch-West Melton Zone Committee	20
C ↓	2020 Annual Review Selwyn Waihora Zone Committee	24

In addition to the attached documents, the following background information is available:

Document Name	Location / File Link
Canterbury Water Management Strategy	https://www.ecan.govt.nz/document/download?uri=3701242
Banks Peninsula Zone Committee	https://www.ecan.govt.nz/your-region/your-environment/water/whats-happening-in-my-water-Zone/banks-peninsula-water-Zone/
Christchurch-West Melton Zone Committee	https://www.ecan.govt.nz/your-region/your-environment/water/whats-happening-in-my-water-Zone/christchurch-west-melton-water-Zone/
Selwyn-Waihora Zone Committee	https://www.ecan.govt.nz/your-region/your-environment/water/whats-happening-in-my-water-Zone/selwyn-waihora-Zone/

Confirmation of Statutory Compliance / Te Whakatūtutanga ā-Ture

Compliance with Statutory Decision-making Requirements (ss 76 - 81 Local Government Act 2002).

(a) This report contains:

- (i) sufficient information about all reasonably practicable options identified and assessed in terms of their advantages and disadvantages; and
- (ii) adequate consideration of the views and preferences of affected and interested persons bearing in mind any proposed or previous community engagement.

(b) The information reflects the level of significance of the matters covered by the report, as determined in accordance with the Council's significance and engagement policy.

Signatories / Ngā Kaiwaitohu

Authors	Diane Shelander - Senior Policy Analyst Liz Ryley - Committee and Hearings Advisor
Approved By	Emma Davis - Head of Strategic Policy Brendan Anstiss - General Manager Strategy and Transformation

Banks Peninsula
Water Zone Committee

2020 Progress Report

Community kōrero continues



Benita Wakefield, Zone Committee
Chair, Te Rūnanga o Wairere

Kia ora koutou katoa,

The COVID-19 pandemic caused major disruption and required us all to adapt to a new normal. Our whānau, community and the wider region pulled together to support those more vulnerable; a testimony to the strength, resilience and courage of our community.

The zone committee continued to meet virtually and we are proud of what we achieved during the year. We were especially pleased to be the first committee to co-opt a youth member to a zone committee. Erana Riddell's appointment set a precedent and we are pleased that other zone committees are also now empowering rangatahi/youth to take action to understand and address water challenges.

Another highlight for the year was seeing the diverse range of Immediate Steps Biodiversity projects that were funded to help protect and enhance the biodiversity values on Banks Peninsula.

Our monthly committee meetings continue to move around the zone and they have been well attended by community members who have had open and frank discussions on issues that are important to them. We have heard the concerns of the community about the pressure farmers are under to adhere to new rules. We have also listened to people concerned with fish passage barriers, road maintenance, and stormwater management, among other things.

In the coming months and years, the committee will continue to work on improving the mauri, life capacity, and health of our waterways, Wairere ki roto, and our springs and streams which are home to mahinga kai, indigenous species, fauna, flora, and important habitats.

Na,
Benita Wakefield

Key achievements 2020

- Wainui Stream Water Quality Analysis Survey of onsite water management systems final report completed June 2020; presented to the committee September 2020
- First water zone committee to co-opt youth representative.
- More than \$100,000 of IMS funding was allocated to four projects across Banks Peninsula.
- Soil mapping of Banks Peninsula using a MBIE grant plus Environment Canterbury science funding. This work will be carried out by Environment Canterbury and Manaaki Whenua Landcare Research, with information being freely available online.
- University of Canterbury Geography 309 student project on Water Quality completed. The project provides useful information to add to the information the working group is gathering, so they can understand whether there is an issue before deciding on next steps.

More than 30 community members helped plant 400 trees along Okuti River, thanks to \$10,000 of IMS funding, each year from 2018-2022.



Banks Peninsula Water Zone Committee

Delivering the community's vision for freshwater

The Canterbury Water Management Strategy (CWMS) puts finding solutions for freshwater management in the hands of the community, with support from councils, Ngāi Tahu, and others. The strategy sets out freshwater goals and targets to deliver the community's vision for freshwater.










“To gain the greatest cultural, economic, environmental, recreational and social benefits from our water resources within a sustainable framework both now and for future generations.”

Each of the ten community-led water zone committees work collaboratively to develop freshwater recommendations to ensure council plans give effect to these goals and targets.

Within each target area there are several specific time-bound targets to be achieved and these are monitored and reported on to ensure progress is being made.

The target areas are shown below – read some of the stories about what is being done in the zone to achieve deliver on these on the next page.

CWMS Targets

	Ecosystem health and biodiversity		Kaitiakitanga		Recreational and amenity opportunities		Irrigated land area		Regional and national economies
	Natural character of braided rivers		Drinking water		Water use efficiency		Energy security and efficiency		Environmental limits

Extraordinary year provides a chance to pause and reflect

2020 has been an extraordinary year in more ways than one.

This time last year we had not heard of Covid-19 or the exceptional lengths governments from around the world would take to slow its spread. Keeping any group working productively together in such circumstances can be a challenge but each committee has embraced new technology to communicate, adapted their work programmes and continued their commitment to improve water management in their zone. The committee's year in review report highlights their achievements in what has been a challenging year.

2020 has provided an opportunity to pause and reflect on the achievements of the last ten years of the Canterbury Water Management Strategy and in particular the progress that had been made to put a Resource Management Act planning framework in place (Land and Water Regional Plan). A plan, however, is only as good as the actions that follow. The Canterbury Mayoral Forum asked councils to work in partnership with Rūnanga and committees to refocus their work more on facilitating action on the ground with their local communities. This review of the zone committees has taken longer than expected,

because of Covid disruptions, but we expect to have a new Terms of Reference completed by the end of the year. Councils have also taken the opportunity to clarify their three year priorities, and where they would like support from committees, in a Letter of Shared Priorities.

The next few years is going to continue to be challenging for many local communities as they grapple with the implementation of the new National Policy Statement on Freshwater and National Environmental Standards. Furthermore, the government has announced its intention to repeal the Resource Management Act and Ngāi Tahu has sought a declaration in the High Court seeking Rangitiratanga over freshwater in its rohe. These changes will be unsettling and uncomfortable for many local communities.

The new Terms of Reference and Letter of Shared Priorities will give committees a clear focus for future action and an ability to support their local communities to navigate this next wave of change designed to further improve the mauri and health of our freshwater and the way it is managed.

Whaka-Ora Healthy Harbour is a partnership of five organisations providing leadership and support in the protection of Whakaraupō/Lyttelton Harbour, for us and our children after us. All waterways including harbours in the Banks Peninsula Zone have kaitiakitanga as an overarching value and are priorities for the committee.



2020 Progress Report



Abundant biodiversity gets boost in Banks Peninsula

Four community projects across Banks Peninsula were recommended for Immediate Steps Biodiversity (IMS) funding, to help local people and groups protect and restore biodiversity in the zone – a priority for the committee.

Three of the four projects will be covenanted through the Banks Peninsula Conservation Trust or QEII National Trust, requiring all current and future landowners of the sites to manage the land for conservation purposes. Christchurch City Council's Biodiversity Fund has also contributed to some of the projects.

Together, Mt Herbert Station, Stencliffe protection project, Thelning protection project and Gough's Bay Hayley Fence project will protect native bush, streams, gullies; and enhance native species and their habitat while improving water quality in the zone.

The committee is proud to be supporting local landowners to protect and enhance biodiversity and water quality throughout the zone, with the projects recommended highlighting the vision of ki uta ki tai (mountains to the sea).



Mt Herbert Station was recommended for \$40,000 of IMS funding over the next two years to protect two regenerating native bush stream gullies.



Wainui well engaged

The committee's September meeting was held in the Wainui Community Hall, with agenda items focusing on the work that is happening in the area.

Topics covered included a presentation on the University of Canterbury's research on E. coli levels at Wainui Stream. The sources of E. coli were presented, and participants discussed possible management options for addressing the issue.

Around 15 community members attended the meeting and the committee enjoyed seeing how passionate participants were about their local waterways.

Empowering the community to get involved in local water management is a key priority for the committee and can help guide future initiatives, plans, and events.



Zone committee member Garrick Thorn was pleased to have great community engagement at their Wainui meeting. Advocating for freshwater outcomes is important to him, to ensure wai is protected for his children and future generations.

Banks Peninsula first zone to co-opt youth member

This year, the Banks Peninsula Water Zone Committee was the first to co-opt a youth member to a zone committee.

Erana Riddell enjoyed attending one of the committee's meetings in 2018 so much, that she returned the following month. Then, before she knew it, she was asked by the members to be co-opted as their youth representative.

Erana's interest in the environment was sparked through the Selwyn Youth Council, before attending an Environment Canterbury Youth Rōpū (youth group). She was co-opted to the committee in February this year, just a month before COVID-19 Alert Level 4 lockdown.

On her Dad's side, Erana is Ngāi Tahu, and whakapapa to Wairewa and Kaikōura. She is Ngāti Porou on her mother's side. The committee is pleased that Erana's appointment will help empower young people in the community.



Erana Riddell, left, is the first youth member co-opted to a water zone committee.



Left to right: (back) Aurora Smith, Benita Wakefield (Chair), Ben Manson, Garrick Thorn, Cr Andrew Turner (CCC), Paula Smith, Rima Herber, Rik Tainui (front) Erana Riddell, Cr Lan Pham (Environment Canterbury), Gina Waibl (Deputy chair)

Zone description

Te Pātaka o Rākaihautū/Banks Peninsula has a unique landscape with a combination of natural physical and cultural elements of both Māori and European. The water zone is made up of eroded volcanic domes that have been breached by the sea. Its catchments are short, steep and prone to flash flooding.

The committee has broken up the zone into five sub-areas/catchments and while Banks Peninsula falls under Christchurch City Council boundary, it crosses over both Selwyn Waihora Water Zone and Christchurch West Melton Water Zone.

It has always been an important place and food basket for Ngāi Tahu. Four rūnanga are present on Banks Peninsula – Te Hapu o Ngāti Wheke/Rāpaki, Te Rūnanga o Koukourārata, Te Rūnanga o Ōnuku and Te Rūnanga o Wairewa.

Key Zone contacts

Shelley Washington – Banks Peninsula Water Zone Committee Facilitator
shelley.washington@ecan.govt.nz | 027 294 5219

Gillian Jenkins – Banks Peninsula Zone Delivery Lead
gillian.jenkins@ecan.govt.nz | 027 706 7254

Marion Schoenfeld – Christchurch City Council Principal Advisor
marion.schoenfeld@ccc.govt.nz | 03 941 5079

Zone committee membership 2020

Rūnanga representatives

Benita Wakefield (Chair) –
Te Rūnanga o Wairewa

Rik Tainui – Ōnuku Rūnanga

Aurora Smith –
Te Hapu o Ngāti Wheke

Vacant –
Te Rūnanga o Koukourārata

Community members

Gina Waibl (Deputy Chair)

Paula Smith

Ben Manson

Garrick Thorn

Elizabeth Macpherson

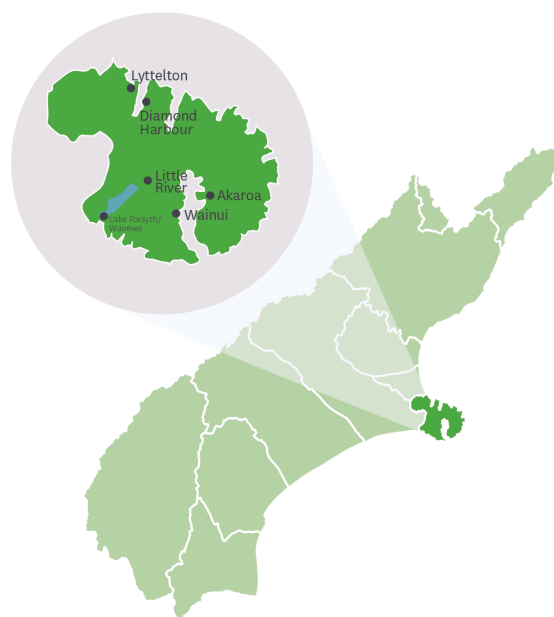
Rima Herber

Erana Riddell
(youth representative)

Council representatives

Andrew Turner
(Christchurch City Council)

Lan Pham
(Environment Canterbury)



R20/0222

The Banks Peninsula Water Zone Committee is a community led committee supported by councils.

[fb.com/canterburywater](https://www.facebook.com/canterburywater)

Christchurch City Council

Environment Canterbury
Regional Council
Kaunihera Taiao ki Waitaha

Christchurch West Melton
Water Zone Committee

2020 Progress Report

Honouring a Stormwater Superhero



Kevin Brown, Christchurch West Melton
Water Zone Committee Chair

After being a member of the committee for the past four years, I feel privileged to have been voted in by my fellow committee members as committee Chair in July.

I would like to thank Arapata Reuben for his contribution and passion in the role of Chair over the last six years. His wealth of knowledge on water matters has inspired the committee to work towards fair and equitable solutions in water management.

We were the second committee to co-opt a youth representative and are lucky enough to have Oscar Bloom – his passion and drive for positive outcomes for freshwater in our zone is inspiring.

I'd like to acknowledge the passing of Evan Smith, who is well known in the community for advocating for 602 ha of red zone land along the Ōtākaro/Avon River to be restored for locals and visitors.

Evan was crowned a Stormwater Superhero this year, a modest way for the committee to acknowledge his massive contribution to freshwater in Christchurch.

Evan's relentless rallying for our environment will be missed, but the values he has instilled in the people he worked with will continue to ensure his work continues with the same passion he had.

Ngā mihi, Kevin

Key achievements 2020

- Supported Evan Smith of the Avon/Ōtākaro Network in hosting an online Mother of All Clean Ups competition – raising awareness of stormwater issues in Christchurch.
- A zone committee working group for the Cashmere Stream and Port Hills catchments carried out an education campaign to raise awareness of sediment and erosion issues in the Cashmere Stream and the Heathcote/Ōpāwaho River. Posters were placed around the Cashmere and Mount Pleasant areas encouraging people who see sediment to report it.
- The committee recommended around \$40,000 of IMS biodiversity funding to Albert Stream in St. Martins, a tributary of the Ōpāwaho/Heathcote River.
- Attended the Ōpāwaho Heathcote River Network's annual World Rivers Day event, this year combined with World Fish Migration Day – hosting a stall to encourage people to become a Stormwater Superhero.
- Workshopped with staff to support development of the Ōpāwaho Heathcote draft Stormwater Management Plan and engagement approaches for 2021.
- The second zone committee to co-opt a youth member. Oscar Bloom officially joined the committee as a youth representative after attending meetings since September 2019.
- Acknowledgment of Ōtūkaikino River having the best water quality in urban Christchurch. The committee were invited to partner in a proposal from Water and Wildlife Habitat Trust for a new community project to develop a collaborative partnership with landowners and agencies in the catchment.

Annabelle Hasselman (Deputy Chair) and Evan Smith with Smith's Stormwater Superhero award. Smith, who has since passed, received this award in July to acknowledge his massive contribution to community education, raising awareness, and facilitating community action for freshwater in Christchurch.



Christchurch West Melton Water Zone Committee

Delivering the community's vision for freshwater

The Canterbury Water Management Strategy (CWMS) puts finding solutions for freshwater management in the hands of the community, with support from councils, Ngāi Tahu, and others. The strategy sets out freshwater goals and targets to deliver the community's vision for freshwater.






“To gain the greatest cultural, economic, environmental, recreational and social benefits from our water resources within a sustainable framework both now and for future generations.”

Each of the ten community-led water zone committees work collaboratively to develop freshwater recommendations to ensure council plans give effect to these goals and targets.

Within each target area there are several specific time-bound targets to be achieved and these are monitored and reported on to ensure progress is being made.

The target areas are shown below – read some of the stories about what is being done in the zone to achieve deliver on these on the next page.

CWMS Targets

	Ecosystem health and biodiversity		Kaitiakitanga		Recreational and amenity opportunities		Irrigated land area		Regional and national economies
	Natural character of braided rivers		Drinking water		Water use efficiency		Energy security and efficiency		Environmental limits

Extraordinary year provides a chance to pause and reflect

2020 has been an extraordinary year in more ways than one.

This time last year we had not heard of Covid-19 or the exceptional lengths governments from around the world would take to slow its spread. Keeping any group working productively together in such circumstances can be a challenge but each committee has embraced new technology to communicate, adapted their work programmes and continued their commitment to improve water management in their zone. The committee's year in review report highlights their achievements in what has been a challenging year.

2020 has provided an opportunity to pause and reflect on the achievements of the last ten years of the Canterbury Water Management Strategy and in particular the progress that had been made to put a Resource Management Act planning framework in place (Land and Water Regional Plan). A plan, however, is only as good as the actions that follow. The Canterbury Mayoral Forum asked councils to work in partnership with Rūnanga and committees to refocus their work more on facilitating action on the ground with their local communities. This review of the zone committees has taken longer than expected, because

of Covid disruptions, but we expect to have a new Terms of Reference completed by the end of the year. Councils have also taken the opportunity to clarify their three year priorities, and where they would like support from committees, in a Letter of Shared Priorities.

The next few years is going to continue to be challenging for many local communities as they grapple with the implementation of the new National Policy Statement on Freshwater and National Environmental Standards. Furthermore, the government has announced its intention to repeal the Resource Management Act and Ngāi Tahu has sought a declaration in the High Court seeking Rangitiratanga over freshwater in its rohe. These changes will be unsettling and uncomfortable for many local communities.

The new Terms of Reference and Letter of Shared Priorities will give committees a clear focus for future action and an ability to support their local communities to navigate this next wave of change designed to further improve the mauri and health of our freshwater and the way it is managed.

\$10,000 of IMS funding as recommended by the committee three years ago, has helped Christoph Schacherer and his community plant more than 2,000 natives on his hill block in Huntsbury Gully.



2020 Progress Report



Cashmere Stream plantings a-plenty

Around 2,500 natives have been planted in the headwaters of Cashmere Stream thanks to the Cashmere Stream Care Group (CSCG), local landowners, community members, and councils.

Since 2016, more than \$60,000 of Immediate Steps (IMS) biodiversity funding has been allocated to the project, as recommended by the committee. The funding went towards plants, plant guards and fencing, and maintenance of the plants for three years following completion.

Christchurch City Council has contributed significantly with labour and resources for consenting, project management, earthworks, erosion and sediment control, and the major component of landscaping design and civil engineering.

Improving surface water quality and safeguarding surface water flows remains a priority for the committee, with this project contributing to improved water quality throughout the catchment.



Cashmere Stream Care Group's four-year restoration planting project is estimated to be valued at more than \$650,000.



Well established planting at the Albert Stream site provides sediment filtering and shade for the stream



Albert Stream gets royal treatment

Almost \$40,000 of Immediate Steps (IMS) biodiversity funding has helped some hard-working locals protect water quality and biodiversity values along Albert Stream, in St Martins.

The project aligns with the committee's priority to reduce sediment runoff in the Port Hills and enhance instream biodiversity values. Ongoing protection and enhancement work throughout these upper catchment areas are important to the committee, with sediment filtering and stream shading, providing better habitat for aquatic life throughout the waterway.

Community collaboration was key for this project, with volunteers from local community groups and other organisations working in the area.



World rivers day event

The committee supported two main events this year, both with significant support from other community groups and organisations working in the freshwater space.

The first was during COVID-19 Alert Level 4 lockdown, where Evan Smith, of the Avon/Ōtākaro Network held their Mother of All Clean Ups competition, this year online. With more than 200 entries, the event was a huge success in promoting and sharing stormwater management issues and solutions in the community.

The committee supported by Environment Canterbury staff, attended Ōpāwaho Heathcote River Network's (OHRN) World Rivers Day event, combined with World Fish Migration Day. The committee hosted a stand, sharing messages and enhancing public knowledge of stormwater network issues, and encouraging people to play their part by stopping contaminants and sediment from entering waterways. They are looking forward to attending again next year.



Christchurch City Council staff and local volunteers helped plant 170 natives at the annual World Rivers Day event.



Photo: Holly Cholmondeley

South Brighton Estuary. The expansive wetlands that once covered large areas of the Christchurch West Melton water zone have always been an important place to live and gather food for Ngāi Tahu.

Zone description

The Christchurch West Melton Water Zone shares boundaries with Banks Peninsula, Selwyn Waihora and Waimakariri zones. It includes a large part of the Christchurch City Council's territorial area including all of urban Christchurch and parts of the Port Hills, while the western part of the zone is within Selwyn District.

The waterways in the zone have been significantly modified since European settlement of Christchurch in the 1800's. The extensive network of swamps, marshes, and wetlands have been drained and built upon as Christchurch City expanded, and streams and rivers have been modified. These changes have profoundly altered the nature of the ecosystems and species in the zone, with a particular impact upon wāhi tāonga and mahinga kai.

The Christchurch West Melton groundwater system has had a long history of abstraction for public water supply, industry, and agriculture. It needs no treatment and provides almost all of the area's drinking water, valued by both the people and industries of Christchurch.

Zone committee membership 2020

Rūnanga representatives

Arapata Reuben –
Te Ngāi Tūāhuriri Rūnanga

Les Wanhalla –
Te Taumutu Rūnanga

Kakatī Te Kakakura Royal –
Te Hapū o Ngāi Wheke

Community members

Kevin Brown (Chair)

Annabelle Hasselman
(Deputy Chair)

Abbie Wilson

Helen Caley

Gareth Oddy

Carly Sluys

Oscar Bloom
(youth representative)

Council representatives

Sophie McInnes
(Selwyn District Council)

James Daniels (CCC)

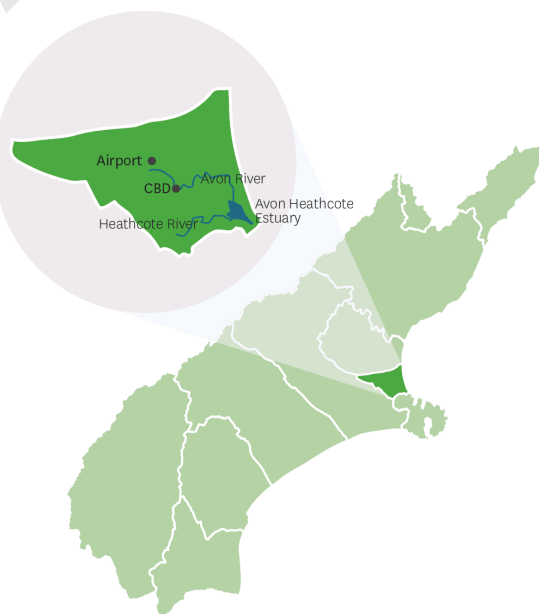
Phil Clearwater
(Environment Canterbury)

Key Zone contacts

Tami Woods – Christchurch West Melton Water Zone Manager
tami.woods@ecan.govt.nz | 027 529 7761

Lyn Carmichael – Christchurch West Melton Water Zone Facilitator
lyn.carmichael@ecan.govt.nz | 027 443 4731

Diane Shelander – Christchurch City Council Senior Policy Analyst
diane.shelander@ccc.govt.nz | 03 941 8304



R20/8221

The Christchurch West Melton Water Zone Committee is a community led committee supported by councils.

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Selwyn Waihora
Water Zone Committee

2020 Progress Report

Chair column



Selwyn Waihora Water Zone
Committee Co-Chairs Les Wanhalla
and Fiona McDonald.

Kia ora. Looking back to this time last year, we had no idea just how different 2020 would be. Things haven't gone as smoothly as we'd like, but we still managed to make good progress toward our goals.

In November, community groups shared with us their efforts in riparian protection and enhancement projects on the Waikirikiri / Selwyn river, as push to ensure a Swimmable Selwyn continues.

Last year, the Waikirikiri Working Group presented us with a roadmap to achieving a healthy Waikirikiri, with recommendations on how to best protect and restore the river. Together with the community, we are now forging ahead with actions to improve the health of the river.

We are proud to have helped celebrate important milestones for projects that have been years in the making, including Ahuriri Lagoon, work to protect the Snake Creek and Silverstream catchments and the Waikirikiri Selwyn Near River Recharge project. We have some new projects that have been funded through our recommendations to Environment Canterbury's Immediate Steps programme.

As the year ends, we say goodbye to two long-standing Zone Committee members. Allen Lim and Ron Pellow have helped guide us as we work to contribute to implementation of the regional plan in our zone. We thank them for their support and wish them all the best.

Fiona and Les

Key achievements 2020

- Zone Committee members hosted and attended gatherings throughout the zone to help celebrate progress and acknowledge the passion and commitment of communities and landowners.
- The Zone Committee worked with the community to focus on areas that we remain concerned about – especially water quality and quantity issues, and the monitoring and reporting of test results.
- The zone committee recommended the allocation of \$102,142.98 of Environment Canterbury's Immediate Steps Biodiversity Funding to 10 projects.
- Community engagement and research is being used to develop a new action plan for 2021-23. The Zone Committee has defined priorities that further build on the work of the Selwyn Waihora Zone Committee over the past 10 years, including:
 - a healthy Waikirikiri;
 - catchment nutrient loads;
 - enhanced biodiversity;
 - a healthy Te Waihora;
 - and drinking water.

Around 80,000 aquatic natives have been planted at the Ahuriri Lagoon wetland site, which is now fully operational. Immediate Steps money has been used to fund school planting adjacent to the Lagoon, creating a wider biodiversity hotspot.



Selwyn Waihora Water Zone Committee

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Selwyn Waihora Water Zone Committee members Cr. Vicky Southworth, Les Wanhalla, Ron Pellow, Cr. Nicole Reid and facilitator Miria Goodwin celebrate a major zone implementation achievement at the Near River Recharge project site.



2020 Progress Report



Celebrating riparian protection projects along the Waikirikiri

The zone committee's November meeting was an opportunity to showcase and celebrate practical work underway in our zone – riparian protection and enhancement projects along the Waikirikiri.

A great turnout of interested community members heard from Taumutu rūnanga about cultural values for the river, as well as school projects supported by Te Ara Kākāriki and Enviroschools; work in Snake Creek and Silverstream by Fish and Game and the Wildlife Habitat Trust; biodiversity projects along the river; collaborative work focused on Coes Ford and surrounds; and a plant nursery and riparian project support for Synlait farmers.

The zone committee hosted a workshop to identify things to celebrate – the commitment, passion and enthusiasm shown, the excitement of seeing current and proposed practical work and research, and the amount of people and groups working together, including school children. Participants identified the next steps for the zone committee to progress next year.



Leeston School students place boulders in Snake Creek as part of the Water and Wildlife Habitat Trust's restoration programme.



Cr. Craig Pauling and Minister Eugenie Sage help Glentunnel School students plant a tōtara seedling.



Opening the Waikirikiri / Selwyn Near River Recharge site

The official opening of the Waikirikiri / Selwyn Near River Recharge site in September marked an important point in the fight to improve freshwater ecosystem health in the catchment.

Representatives from the Selwyn Waihora Water Zone Committee joined other project partners for the official opening of the project – although water flows in the river meant it wasn't in operation on the day of the launch.

The scheme is believed to be the largest Near River Recharge project in the world specifically focused on environmental, cultural and recreational objectives. Those objectives are to protect the many cultural, environmental and recreational values the river system supports.

The launch is a huge milestone for a long-awaited project, which was recommended by the Selwyn Waihora Water Zone Committee and included in the Zone Implementation Programme Addendum (ZIPA) back in 2013.



Committee supports freshwater biodiversity enhancement

The Zone Committee recommended \$102,143 in Immediate Steps biodiversity funding which – augmented by other sources of funding – is being used to improve pockets of native flora and fauna across the Selwyn Waihora zone.

Previously allocated multi-year funding was used to finish work to improve wetlands in Rockwood and Hororata this year. New funding is also being used to start new projects in sites around the region, including Harts Creek, Cleathings Valley, Gibraltar Bush, the western valley of the Port Hills and in the Rakaia Gorge.

The Zone Committee's commitment to local school biodiversity education and riparian planting continued with funding recommended for planting at West Rolleston Primary School, as well as Ladbrooks School's efforts in planting Sharpes Drain and Tai Tapu School's biodiversity restoration programme.



A drone's-eye view of the recharge basin, pump house and native plantings.



Some members of the Selwyn Waihora Water Zone Committee. Left to right: (back) Cr. Anne Galloway, Cr. Vicky Southworth, Paul Hodgson, Ron Pellow. (front) Benita Wakefield, Fiona McDonald, Allen Lim, Annie McLaren, Cr. Nicole Reid

Zone description

The Selwyn Waihora Zone covers the Selwyn District and a small piece of Christchurch City. It includes Te Waihora/Lake Ellesmere and its catchment (including the Selwyn River / Waikirikiri, spring-fed lowland streams, and some of the Port Hills streams), Lake Coleridge, the Rakaia River and the upper Waimakariri basin.

Te Waihora/Lake Ellesmere and its margins are a taonga (treasure) to Ngāi Tahu, reflecting the area's cultural significance and the concentration of mahinga kai, wāhi tapu and wāhi taonga.

The Selwyn Waihora Water Zone Committee is a joint committee of Selwyn District Council, Christchurch City Council and Environment Canterbury, and in the rohe of Wairewa, Rāpaki, Taumutu, Tūāhuriri, Koukourarata and Ōnuku rūnanga.

Key Zone contacts

Gillian Jenkins – Selwyn Waihora Zone Delivery Lead
gillian.jenkins@ecan.govt.nz | 027 706 7254

Tami Woods – Central Zone Manager
tami.woods@ecan.govt.nz | 027 529 7761

Miria Goodwin – Selwyn Waihora Zone Committee Facilitator
miria.goodwin@ecan.govt.nz | 027 809 6991

Zone committee membership 2020

Rūnanga representatives

Les Wanhalla (Co-chair) –
Te Rūnanga o Taumutu

Benita Wakefield –
Te Rūnanga o Wairewa

Karaitiana Taiuru –
Te Rūnanga o Koukourārata
Mishele Radford –
Te Hapū o Ngāti Wheke

Community members

Fiona McDonald (Co-chair)
Allen Lim

Annie McLaren

Paul Hodgson

Ron Pellow

Simon Hay

Council representatives

Anne Galloway
(Christchurch City Council)

Nicole Reid
(Selwyn District Council)

Vicky Southworth
(Environment Canterbury)



R20/8220

The Selwyn Waihora Water Zone Committee is a community led committee supported by councils.

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8. Three Waters Infrastructure and Environment Committee Report - January/February 2021

Reference / Te Tohutoro: 21/175186

Report of / Te Pou
Matua:

Helen Beaumont, Head of Three Waters and Waste

General Manager /
Pouwhakarae:

Carolyn Gallagher, Acting General Manager City Services

1. Brief Summary

- 1.1 The purpose of this report is to update the Three Waters Infrastructure and Environment Committee on work occurring in the Resource Recovery portfolio. The report has been written by staff.
- 1.2 Key points in this report:
 - 1.2.1 Section 17A review has commenced
 - 1.2.2 Improvement to recycling with lower contamination levels
 - 1.2.3 Remediation works on closed landfills.

2. Key Updates on the Organics Plan Upgrade Project

- 2.1 On 25 February 2021 an Expression of Interest was released via GETS to the open market – scheduled to close on 25 March 2021. This will provide an understanding of the market's capability and capacity to deliver the works.
- 2.2 The Council have engaged a consultant to assist with drafting the Principal Requirements that will form the basis of the tender documentation for the project.
- 2.3 Staff will present the full procurement plan to the Finance and Performance committee on 25 March 2021 for approval. The plan will encourage innovation, including new technology, and the criteria for considering the proposals will include the speed of delivery.
- 2.4 We aim to have a contractor selected in June 2021, with the contract finalised by July 2021.
- 2.5 Staff from the Council and Environment Canterbury have planned four community meetings throughout the year to discuss odour and dust issues in Bromley as well as provide an update on the Organics Plant Upgrade project.
 - 2.5.1 This first meeting was initially scheduled for 16 February 2021 and had to be postponed due to the change in COVID-19 alert levels.
 - 2.5.2 The meeting was rescheduled for 1 March 2021 which also had to be cancelled.
 - 2.5.3 At this stage the next meeting is scheduled for 12 May 2021 and we are working with Environment Canterbury to bring this forward.
 - 2.5.4 In the interim, we have provided the opportunity for residents to ask questions by email with answers provided online.
- 2.6 The Council continue to utilise regular newsletters and our webpage to keep the community informed of key updates in the project.

3. Officer Recommendations / Ngā Tūtohu

That the Three Waters Infrastructure and Environment Committee:

1. Receive the information in the Three Waters Infrastructure and Environment report for January and February 2021.

Attachments / Ngā Tāpirihanga

No.	Title	Page
A ↓	Three Waters and waste Infrastructure and Environment Committee report - Resource Recovery - January/February 2021	31

In addition to the attached documents, the following background information is available:

Document Name	Location / File Link
Nil	Nil

Confirmation of Statutory Compliance / Te Whakatūtutanga ā-Ture

Compliance with Statutory Decision-making Requirements (ss 76 - 81 Local Government Act 2002).

(a) This report contains:

- (i) sufficient information about all reasonably practicable options identified and assessed in terms of their advantages and disadvantages; and
- (ii) adequate consideration of the views and preferences of affected and interested persons bearing in mind any proposed or previous community engagement.

(b) The information reflects the level of significance of the matters covered by the report, as determined in accordance with the Council's significance and engagement policy.

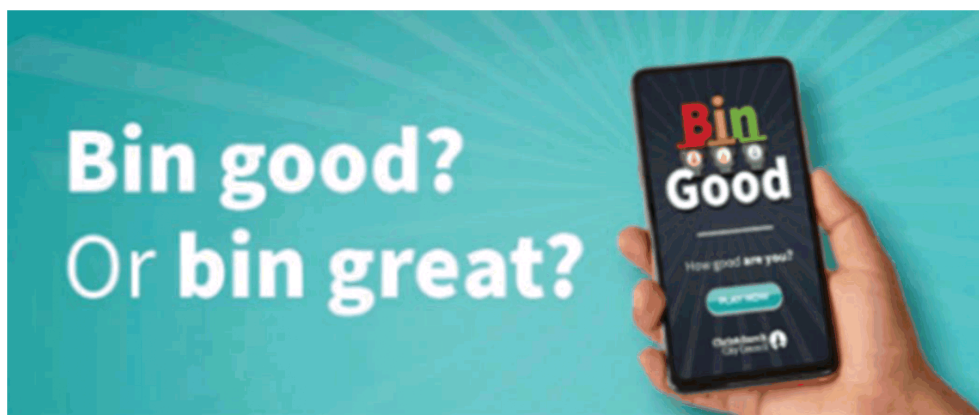
Signatories / Ngā Kaiwaitohu

Author	Helen Beaumont - Head of Three Waters & Waste
Approved By	Andrew Howe - Planning & Performance Advisor Carolyn Gallagher - Acting General Manager City Services



Item 8

Attachment A



THREE WATERS INFRASTRUCTURE AND ENVIRONMENT COMMITTEE

RESOURCE RECOVERY

January - February 2021 Report

Christchurch City Council | February 2021

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PLANNING AND POLICY

Waste Management and Minimisation Plan

Our 2020 Waste Minimisation and Management Plan provides the strategic direction for managing Christchurch's resource recovery activities for the next six years. The Plan was adopted on 21 October 2020 by the Three Waters Infrastructure and Environment Committee and is available on our website: www.ccc.govt.nz/ourwaste

Tracking our progress against actions in the Plan is underway with a high level reporting tool developed. See summary below:

Service Delivery Review

A service delivery review of our solid waste and resource recovery services has commenced.

The review will evaluate the cost-effectiveness of resource recovery services and consider the relative merits of alternative options to support the vision and agreed expectations of the 2020 Waste Management and Minimisation plan, in alignment with Christchurch City Council's Strategic framework.

Key issues and opportunities:

- Differential charging – offering greater flexibility in the services we provide
- Inner-City collection approach
- Operational details to support a detailed 17A Review

Public consultation on any changes will be included in the scheduled bylaw review which will address required updates to Council's existing Waste Management Bylaw (2009), it's Terms and Conditions and the Cleanfill and Waste Handling Operations Bylaw (2015).

The final report will inform a strategic procurement plan for solid waste and resource recovery services beyond the expiry of our major contracts with Living Earth Limited (organics processing plant) and EcoCentral Limited (transfer stations, material recovery and shop for reusable materials) in 2024. The contract with Waste Management Limited (transfer stations in Banks Peninsula and kerbside collection) expires in 2029.

National and regional liaison

Working with WasteMINZ and other territorial authorities continues to be a vital part of moving towards a circular economy in New Zealand. Involvement from members of the Resource Recovery Team includes:

- Representation on the Container Return Deposit Scheme working group
- Election of a Christchurch City Council and Canterbury Waste Joint Committee Representative on the National TAO Forum Steering Committee
- Work underway on submitting on the Government's Consultation Document regarding the ban of several single use plastic items, in conjunction with WasteMINZ
- Shared information and communications with neighbouring councils.

COMPLIANCE AND QUALITY ASSURANCE

Health Safety and Wellbeing

Health Safety and Wellbeing Statistics Three Waters Waste and Transport

Health Safety and Wellbeing Statistics - Month of January 2021	Totals	Land Drainage	Water Waste
Near Misses	25	3	10
First aid injuries (FAI)	5	0	0
Medical Treatment Injuries (MTI)	2	1	1
Lost Time Injuries (LTI)	0	0	0
No. of days lost to LTIs	0	0	0
No. of hours worked	79,487	2,044	13,393
Health Safety and Wellbeing Statistics - Year to Date - January 2021	Totals	Land Drainage	Water Waste
Near Misses	292	19	94
First aid injuries (FAI)	45	2	6
Medical Treatment Injuries (MTI)	13	4	6
Lost Time Injuries (LTI)	9	2	7
No. of days lost to LTIs	12	0	12
No. of hours worked	680,459	24,197	134,484
LTIFR	13.2	82.7	52.1
MTIFR	32.3	248.0	96.7
TRIFR (LTI + MTI)	45.6	330.6	148.7

Year to Date July 2020 - June 2021 (as at 16-02-2021)

Monthly Reporting URL

www.tinyurl.com/ngk32y5

FINANCIAL OVERVIEW

The Numbers

Three Waters & Waste Unit Financial Report for month of January 2021

Year to Date \$000's			Activity Summary	Year End \$000's			
Actual	Budget	Variance		Forecast	Budget	Variance	%
6,409	8,887	2,478	Recyclable Materials Collection & Processing	13,813	15,234	1,421	9.3%
3,215	3,839	624	Residual Waste Kerbside Collection	5,644	6,580	936	14.2%
7,466	5,498	(1,968)	Residual Waste Disposal & Transport	11,678	9,426	(2,253)	-23.9%
140	180	41	Landfill Gas Capture & Treatment	284	309	25	8.0%
(152)	(284)	(132)	Refuse Transfer Stations	(1,048)	(724)	324	44.7%
(1,797)	(310)	1,487	Operation & Care of Closed Landfills	52	258	207	80.0%
8,872	8,924	52	Residual Waste Collection & Disposal	16,610	15,848	(762)	-4.8%
4,585	4,663	78	Organics Kerbside Collection	7,887	7,993	106	1.3%
2,302	2,630	328	Organics Processing incl Composting Plant	4,035	4,509	474	10.5%
6,887	7,293	406	Organic Material Collection & Composting	11,922	12,502	580	4.6%
17,483	16,997	(486)	Wastewater Collection	24,595	23,441	(1,154)	-4.9%
4,631	4,295	(336)	Treat & Dispose of Wastewater Collected	7,568	7,130	(437)	-6.1%
(180)	77	258	Laboratory Services - Wastewater	(185)	127	312	245.1%
4,451	4,373	(78)	Wastewater Treatment & Disposal	7,383	7,257	(126)	-1.7%
16,119	16,033	(86)	Water Supply	23,186	22,721	(465)	-2.0%
8,535	10,484	1,949	Storm Water Drainage	14,133	15,634	1,501	9.6%
2,352	3,598	1,246	Flood Protection & Control Works	4,285	4,688	403	8.6%
(514)	350	864	Three Waters Asset Management	2,372	2,379	7	0.3%
2,643	3,434	791	Plan/Prog Provision of Future Infrastructure	6,503	6,063	(440)	-7.3%
2,129	3,784	1,655	Three Waters Asset Mgmt & Planning	8,874	8,441	(433)	-5.1%
73,237	80,374	7,136		124,802	125,767	966	0.8%
Reconciliation to Controllable Net Cost							
()	(30)	(30)	Illegal Rubbish	(52)	(52)		0.0%
(3,277)	(3,231)	46	Internal Cost Inputs	(5,013)	(5,540)	(526)	-9.5%
69,960	77,112	7,152		119,736	120,176	439	0.4%

Recyclable materials Collection & Processing costs year-to-date January 2021 are \$2,478,000 lower than plan due to lower processing costs as a result of sending collected material directly to landfill.

Residual Waste Collection & Disposal costs year-to-date January 2021 are \$52,000 lower than plan. This is due to additional revenue from the Burwood Resource Recovery Park (\$2,052,000) that has offset the additional costs associated with sending contaminated recycled material directly to landfill.

Organics Processing & Composing costs year-to-date January 2021 are \$406,000 lower than plan due to lower processing costs and lower than planned collection costs.

SOLID WASTE

Kerbside recycling bin education

Council are continuing with its Kerbside Auditing Program to address contamination of recycling, with a total of more than 215,000 bins now checked. Since lockdown audits have found:

- 24% receiving gold stars
- 62% requiring education
- 14% contaminated (and not collected).

The team are monitoring 533 properties where contamination continues following education and final warning letters. We have 122 properties that were on a final warning and have shown significant improvement. A total of 512 bins have been removed for continuing contamination.

Auditors continue to engage with the public and receive feedback on items causing confusion, which helps inform public communications.

Public Communications

Promotion of the correct use of kerbside bins continues to include targeted education messaging with bus stop advertisements identifying problematic items.

Kerbside Marketing Summary

TASK	DETAILS	IN MARKET	COMMENTS
Yellow bin	Contamination: 84% of trucks were recycled in December and as of 20 January, 84% of trucks have been recycled for the month of January.	Dec 2020 - Jan 2021	
Online Analytics	The Rubbish, Recycling and organics page had 65,002 total hits in December. This is up from 42,284 in November and from 56,858 from 2019.		
Christmas holiday – 4 Page spread	4 page spread in The Star & Bay Harbour News	18 Dec	The Star (93,128 circulation), Bay Harbour News (10,493 circulation)
CCC Facebook – 12 Days of Christmas Waste series	People reached: 117,457 Engagements: 4,260	14-25 Dec	12 Posts over 12 days
Newsline article	What can you recycle at Christmas? https://newsline.ccc.govt.nz/news/story/what-can-you-recycle-at-christmas	15 Dec	2,750 page views
Holiday bin Collection changes	Campaign communicating bin collection changes on 25 th Dec and 1 st Jan.	11 Dec	<i>Social Media:</i> Facebook Ad from 11 December targeting Friday collections <i>Message on the Bin App</i> <i>Newsline</i> <i>Community Board Newsletters</i> <i>Brightsigns and Plasma screens</i>
Red bin campaign Dec	Google Display Network	16 Dec	Performance for each group: <i>Renters & Home Owners:</i> 1,663,880 impressions 1,922 clicks <i>Household Shoppers:</i> 258,605 impressions 191 clicks
Community Education	The Resource Recovery Team have been speaking to a variety of community groups		



	across Christchurch, with a focus on residents for whom online communications may not reach.		
App	27,346 Active users		
Bin Game	8,746 people have played the game since the launch (4,400 people have finished the entire game)		
Internal Bin Campaign	Towel dispenser stickers Updated bin stickers	18 Dec	Awaiting November and December stats

A Christmas themed wrap around the Star newspaper on the 17 December, informed residents of the improvement in recycling quality, as well as detailed bin use information. This was supported with a “12 Tips of Christmas” Newsline article and social media posts across 12 days.



The Resource Recovery Team have also been speaking to a variety of community groups across Christchurch, with a focus on residents for whom online communications may not reach. The talks are advertised in the associated groups newsletter and emails. With community groups starting up again for the year, 2021 educational talks, material and discussions have already been provided to approximately 170 people across six different community groups across the city. A further 20 community groups have been contacted, offering free talks.

Staff are communicating with neighboring councils, as well as councils around the country, via WasteMINZ, to share resources and develop consistent bin auditing methodologies. The Waste Minimisation officer will be talking to visiting school groups to the Civic Offices, through the Learning through Action Programme, promoting the work done by Council, and facilitating discussion around waste reduction.



Residents attended a series of community talks on waste minimisation

Digital Initiatives

The web-based, item sorting game for kerbside bins was launched at the beginning of December, and has been played by 8746 individual users as of 29 January 2021. The project has been a collaboration between the Resource Recovery, Marketing, Smart Christchurch and Continuous Improvement teams. A Newsline article and video featuring primary school students, demonstrated how to use the game to get points and learn which items, commonly found in the wrong bin, go where. Advertisements have also featured on social media, council facility screens, and through the Learning Through Action Schools newsletter and programme which is advertised to 200 schools in Christchurch.

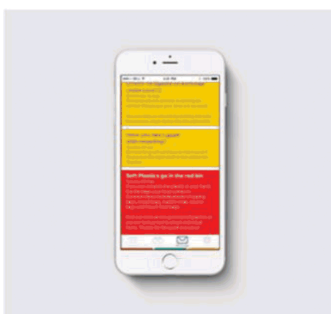
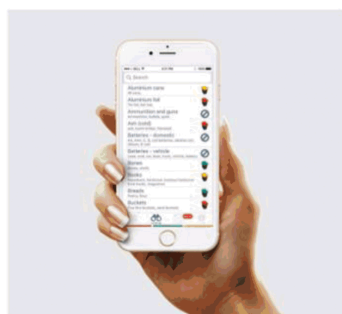
Are you a bin whizz?



Rubbish & recycling | 30 Nov 2020

Feedback has been very positive, with six councils and one internal group, already requesting information for developing their own waste related educational games. A feedback loop is informing future iterations, and live time data monitors user activity over time.

An updated version of the Wheelie Bin app went live at the end of October. This replaces the previous version and aligns with the current “bin good” messaging. Notifications allow for quick notifications to users, including changes to services over holiday periods, and reminder on correct bin usage.



Internal staff education

Staff have been encouraged to have a member of the Resource Recovery team come and talk at their next team meeting.

A working group from communications, facilities and resource recovery are determining the effect of the new educational stickers in the tearooms. Stickers have also been added to the civic kitchen hand towel dispensers, in response to both the cost and waste generated by the placement of these in the recycling and rubbish bins (instead of the organics bins).



Handheld Battery recycling

The handheld battery recycling program continues to receive positive public feedback, with 13 tonnes of batteries collected across the 7 receptacles in Christchurch, since the collection began in May 2019.

Work on expansion to a regional model is being carried out by the Resource Recovery Team with funding from the Ministry for the Environment and support from Environment Canterbury and the Canterbury Joint Waste Committee. The expansion of the program to a regional model, strengthens the case for product stewardship of batteries. As councils around New Zealand move to provide their own collection schemes, Christchurch City Council are in a good position to provide advice.



Regional and national collaboration

Council staff continue to work closely with our neighbouring councils with a focus on reducing contamination and opportunities to align messaging and share approaches.

At a national level staff have continued to participate in the LGNZ and the technical advisory group for developing a container return scheme (for beverage containers).

Kerbside collection

There has been some ongoing performance & technology issues that our collection contractor has been requested to rectify.

The wheelie bin database integration is now in production and feeding through daily. Dashboards are now being created to view this collection data.

Customer requests – Hybris

We continue to receive high volume of kerbside service requests and requests for information.

The team are currently working with Hybris Project and Continuous Improvement Teams to develop a B2B process with our collection contractor that will reduce the workload on Resource Recovery Team.

Organics Processing Plant

In December 2020 the Council approved a \$21.5 million upgrade to the organics plant in order to eliminate the potential for offensive and objectionable odour beyond the property boundary. This upgrade will include increasing the aeration in the tunnels to improve composting and building an additional structure to enclose all screening and maturation of compost.

The Resource Recovery team have worked quickly to begin the procurement process for this project. An external consultant was engaged in December, utilising international experts, to develop detailed user requirements and a performance specification document to form the basis of the formal tender.

In January the Council approached the market with a Notice of Intent to inform prospective suppliers that the Council will be procuring for this work soon so they can make any necessary preparations for that process. We expect to release an Expression of Interest in February. In March 2021 the full procurement plan will be presented to the Finance and Performance committee for approval.

The organics plant stopped accepting all pre-consumer commercial food waste on 23 December 2020. This material will not be accepted for the duration of the upgrade works.

The Council have developed an ongoing engagement and communications approach, including four community meetings held in collaboration with Environment Canterbury, regular newsletter updates on key progress points in the upgrade works and a dedicated webpage for the project.

Transfer stations

Metro, Parkhouse, & Styx EcoDrops

Household hazardous waste drop-off and storage is being upgraded at each of the three city transfer stations. New bunded containers provide a safe and secure storage facility with any spills contained, protecting the receiving environment and helping us meet our consent compliance requirements for these sites. We are currently working on upgrading the signage for the new containers to align with Council's branding. Below is a before picture and after picture.

Before



After



Banks Peninsula

Barry's Bay site development project is progressing with a final design completed. We expect to complete the works by June 2021, subject to obtaining appropriate building and resource consents.

EcoSort (materials recovery facility)

We have seen a reduction in rejected truck loads (contamination in excess of 10 per cent) in December-January with 17 per cent of trucks rejected compared with 52 per cent in June 2020.

We have noticed an improvement in the quality of the recycling received with more bottles and containers being rinsed out and lids being removed and put in the red bin. A higher quality paper product is being achieved. However we are still seeing some residents disposing of large metal and plastic items or general rubbish in the yellow bins.

EcoCentral are actively involved with education in the community with regular presentations to community groups and providing an in house educator to schools in areas where contamination is particularly high.

EcoCentral are currently finalising the project plan to deliver the \$16.8 million plant upgrade through funding from the Ministry for Environment. The upgrades will provide improved technology to sort plastics and fibre.

Contingency Planning (Pandemic preparedness)

Council are working closely with our major service contractors to prepare for any further COVID related disruptions. Service continuity plans for each contract have been received, detailing operational capacity and have agreed to maintain levels of service under each alert level. The collection services and processing facilities plan to operate without interruption, with additional controls around public drop-off.

Landfill aftercare

Council staff are working on remediation options for a number of at risk former landfill sites, including sites at risk from the effects of sea level rise.

Current Projects include:

Bexley Closed Landfill site remediation project underway, with current focus on gaining necessary resource consents and drafting tender specifications. The project has experienced minor delays due to additional requirements from Environment Canterbury.

The current program schedule:

- End of February – apply for Environment Canterbury consent
- Mid March – Tender
- Early April – close Tender, appointment of contractor
- May 2021 – Proposed start date for remediation works.

Le Bons Bay landfill on Banks Peninsula is to be remediated by completely removing the material and taking it to Kate Valley landfill. Planning, including detailed design, engagement with local Rununga and quantification of required works is underway.

Onuku closed landfill pollution event, due to rupture of the leachate pipe to the wastewater network, follow-up works continue. The damaged pipe has been replaced and the site remediated. Environment Canterbury conducted a site inspection and raised concerns about the condition of the closed landfill cap, signalling they may issue an abatement notice. Council has engaged a consultant to investigate the extent of deterioration and recommend steps to remediate the cap.

Council are working collaboratively with runanga, considering delivery of the Takapuneke masterplan, to understand whether installation of a carpark on the former landfill could form part of the remediation works.



Figure 2. Onuku closed landfill



Figure 3. Onuku closed landfill new leachate pipeline.

Barry's Bay closed landfill Environment Canterbury staff visited and provided advice that while the seawall is generally in sound condition a couple of areas require minor repairs. An assessment of the required repairs is underway.



Figure 4. Small section of seawall at Barry's Bay closed landfill requiring repair.

Burwood Resource Recovery Park

The Construction and Demolition Waste landfill established in response to the Christchurch earthquake sequence is being progressively closed, with a plan to return it to a recreational area.

We are working with the Department of Prime Minister and Cabinet, National Emergency Management Authority and Burwood Resource Recovery Park to transfer building demolition material from sites where there was loss of life (sensitive material). This includes demolition material from the CTV and PGC buildings. We are engaging with the families of those who died. Removal of materials from site D, the temporary storage area, was completed in late December 2020. Consultants are currently preparing a site validation report for site D.

Disposal of soils at Burwood is steady and we will be looking to continue to 31 March 2021. Staff are continuing to discuss options for retaining the site for this purpose with Environment Canterbury and a Community Liaison Group meeting will be held on 23 February 2021.

Landfill gas production remains consistent. The annual landfill gas treatment plant shutdown is scheduled for mid-February for a one week period. During the shutdown a new PLC and computer control system will be installed as the aging PLC's are no longer supported.



Figure 5. Site B with sensitive materials mound in the foreground.