
Christchurch City Council AGENDA

Notice of Meeting:

An ordinary meeting of the Christchurch City Council will be held on:

Date: Wednesday 19 April 2023
Time: 9.30 am
Venue: Council Chambers, Civic Offices,
53 Hereford Street, Christchurch

Membership

Chairperson	Mayor Phil Mauger
Deputy Chairperson	Deputy Mayor Pauline Cotter
Members	Councillor Kelly Barber
	Councillor Melanie Coker
	Councillor Celeste Donovan
	Councillor Tyrone Fields
	Councillor James Gough
	Councillor Tyla Harrison-Hunt
	Councillor Victoria Henstock
	Councillor Yani Johanson
	Councillor Aaron Keown
	Councillor Sam MacDonald
	Councillor Jake McLellan
	Councillor Andrei Moore
	Councillor Mark Peters
	Councillor Tim Scandrett
	Councillor Sara Templeton

13 April 2023

Principal Advisor

Dawn Baxendale
Chief Executive
Tel: 941 8999

Katie Matheis
Team Leader Hearings & Committee Support
941 5643

katie.matheis@ccc.govt.nz
www.ccc.govt.nz

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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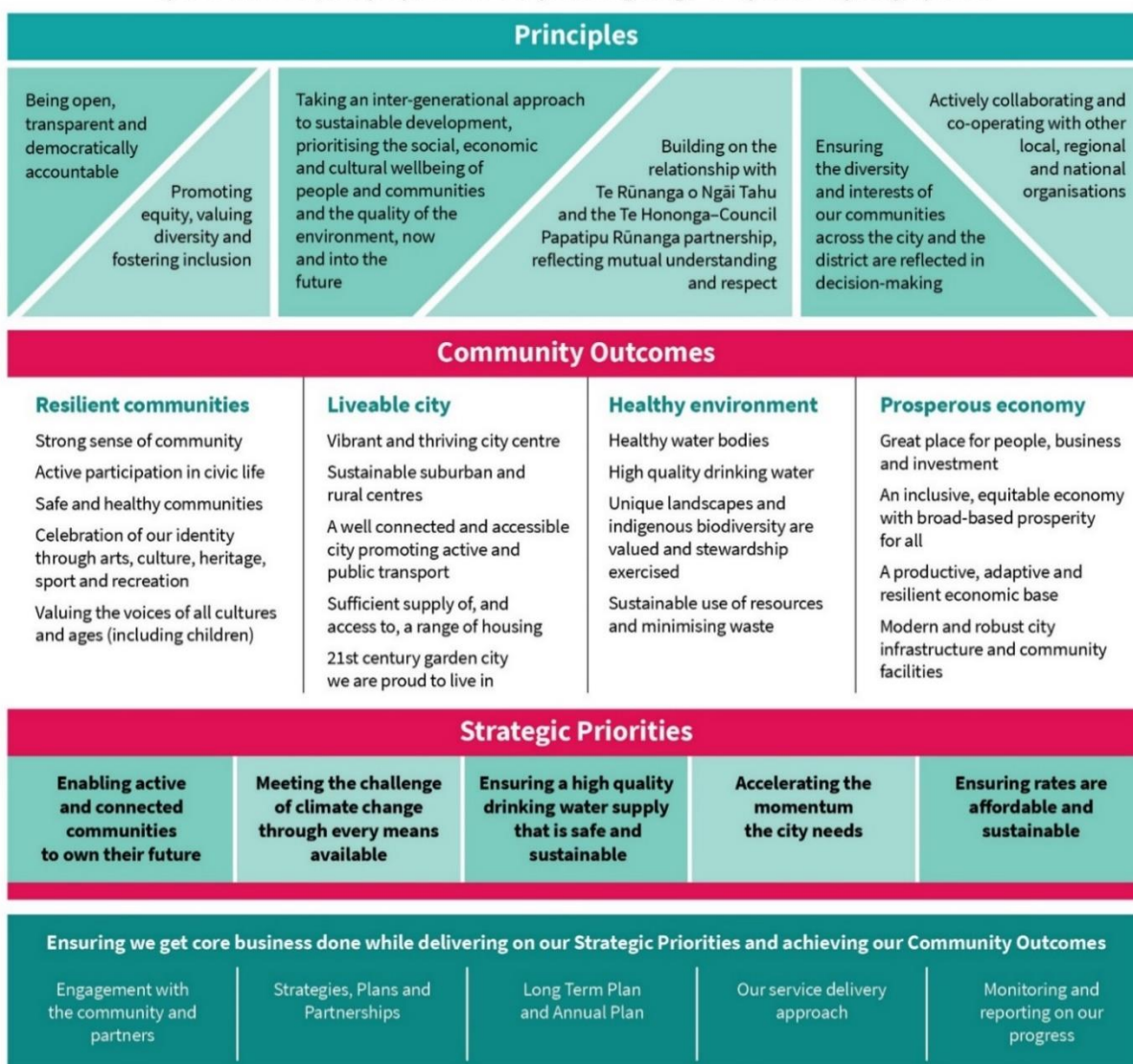


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Karakia Tīmatanga

Whakataka Te hau ki Te uru

Whakataka Te hau ki Te tonga

Kia makinakina ki uta

Kia mataratara ki Tai

E hi ake ana te atakura

He tio, he huka, he hau hu

Tihei Mauri Ora

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. Public Participation Te Huinga Tūmatanui

3.1 Public Forum Te Huinga Whānui

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

3.1.1 Drucilla Kingi-Patterson

Drucilla Kingi-Patterson will speak regarding a Friends of the Multi Arena group, better access for local people to use the Bus Exchange and extra No 17 bus stops on Hereford Street, to promote a Fairy, Elf, Alien festival for Christchurch, to discuss a new children's play, and a new Rail Supporters Group.

3.2 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.

4. Presentation of Petitions Ngā Pākikitanga

There were no Presentation of Petitions at the time the agenda was prepared.

5. Christchurch West Melton Water Management Zone Committee Minutes - 24 November 2022

Reference / Te Tohutoro: 23/436311

Report of / Te Pou
Matua: Luke Smeele, Committee and Hearings Advisor,
luke.smeele@ccc.govt.nz

General Manager /
Pouwhakarae: Lynn McClelland, Assistant Chief Executive Strategic Policy and
Performance (lynn.mcclelland@ccc.govt.nz)



1. Purpose of Report Te Pūtake Pūrongo

The Christchurch West Melton Water Management Zone Committee held a meeting on 24 November 2022 and is circulating the Minutes recorded to the Council for its information.

2. Recommendation to Council

That the Council receives the Minutes from the Christchurch West Melton Water Management Zone Committee meeting held 24 November 2022.

1. Attachments Ngā Tāpirihanga

No.	Title	Reference	Page
A  	Christchurch West Melton Water Management Zone Committee 24 November 2022 Minutes	22/1634567	6

Signatories / Ngā Kaiwaitohu

Author	Luke Smeele - Committee & Hearings Advisor
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Christchurch West Melton Water Management Zone Committee OPEN MINUTES

Date: Thursday 24 November 2022
Time: 6:02pm
Venue: Woolston Community Library Hall 689 Ferry Road,
Woolston

Present

Chairperson	Annabelle Hasselman - Community Representative
Deputy Chairperson	Mike Patchett - Community Representative
Members	Brynlea Stocks - Community Representative
	Clare Piper - Community Representative
	Cailin Richardson-Hall - Community Representative
	<i>Representative to be appointed</i> - Christchurch City Council Elected Representative
	<i>Representative to be appointed</i> - Councillor Environment Canterbury
	<i>Representative to be appointed</i> - Selwyn District Council
	Oscar Bloom - Youth Representative

In attendance: Will Todhunter, Jess Newlands (Environment Canterbury); John Benn (Department of Conservation), Frank Hill, Richard Sands, Clint Thompson (Christchurch Ready Mix Concrete); Brian Court, Lesley Court, Elliot Dowie (Tunnel Wash); Rachel Barker, Chrissie Williams (Ōpāwaho Heathcote River Network); and Cr Greg Brynes (Environment Canterbury).

Zone Facilitator
Shelley Washington
Tel: 027 294 5219
Environment Canterbury

Principal Advisor
Diane Shelander
Senior Policy Analyst
Tel: 941 8304
Christchurch City Council

Committee Advisor
Luke Smeele
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www.ecan.govt.nz/news-and-notice/minutes/Pages/Default.aspx

Christchurch West Melton Water
Management Zone Committee
24 November 2022



Karakia Timatanga: Annabelle Hasselman

The agenda was dealt with in the following order.

1. Apologies

Committee Resolved CWZC/2022/00018

That the apologies received from Helen Rutter be accepted.

Annabelle Hasselman/Clare Piper

Carried

2. Declarations of Interest

There were no declarations of interest recorded.

3. Identification of General Public Contributions

There was a short presentation from a member of the public, Frank Hill. He shared his concerns that ratepayers in Christchurch contribute most (\$50Million) of the ratepayer basis for how the Canterbury Water Management Strategy is funded, yet he believes that most of this budget is spent in other more rural zones rather than Christchurch City. He also commented that Environment Canterbury raised rates by 20% last year. He also argued that the Zone Committee has given up its' commitment to improving the health of Addington Brook and that Environment Canterbury should be paying to improve the health of Addington Brook, rather than Christchurch City Council. He also suggested that the Committee provide input to Environment Canterbury's annual plan suggesting they put money into improving the health of Addington Brook and spend more of the CWMS budget in the city. Frank was argued that the stormwater treatment proposed as part of Christchurch City Council's masterplan for Addington Brook is focused on cleaning up the water quality after it comes out of industrial and residential areas rather than stopping the pollution at source.

4. Deputations by Appointment

There were no deputations by appointment.

5. Presentations by the Community

- Presentation by Rachel Barker – (Refer to Item 12).

6. Confirmation of Previous Minutes

Committee Resolved CWZC/2022/00019

That the minutes of the Christchurch West Melton Water Management Zone Committee meeting held on Thursday, 25 August 2022 be confirmed.

Oscar Bloom/Mike Patchett

Carried

7. Matters Arising from the Minutes

None.

Christchurch West Melton Water
Management Zone Committee
24 November 2022



8. Identification of Urgent Items by Committee Members

None.

9. Stormwater Superhero Awards

Committee Chair Annabelle Hasselman delivered a speech expressing the thanks and appreciation of the Committee to the winners of the Stormwater Superhero awards, Christchurch Ready Mix Concrete and Tunnel Wash for work that they have done ensuring their businesses implement practices which prevent pollution to stormwater and therefore also prevents pollution of waterways. Tunnel Wash received the Champion Stormwater Superhero Award, and Christchurch Ready Mix Concrete received the Stormwater Superhero Award.

Tunnel Wash was represented by Brian Court, Lesley Court, and Elliot Dowie. Christchurch Ready Mix Concrete was represented by Richard Sands and Clint Thompson.

The Committee noted that the recommendation referring to following up the awards by supporting these businesses with publicity of them as receivers of the Awards and stormwater superhero key messages is something the Environment Canterbury communications staff will work on if these businesses would like some support, rather than Committee members doing this themselves.

Committee Resolved CWZC/2022/00020

That the Christchurch West Melton Water Management Zone Committee:

1. Award the Champion Stormwater Superhero Award to Ready Mix Concrete
2. Award the Stormwater Superhero Award to Tunnel Wash
3. Publicise the winners.
4. Provide assistance to the winners with sharing publicity about their awards and some of the stormwater superhero key messages, if desired
5. Reviews the award promotion and selection process to inform the development of an improved Stormwater Superhero awards programme for 2023.

Oscar Bloom/Brynlea Stocks

Carried

10. Surface Water Quality Annual Report 2021

The Committee commented that having a Healthy Waterways Action Plan for the main five catchments will be an excellent step towards further increasing the health of waterways throughout Christchurch. Committee members stated they are excited about working with their partners in Christchurch City Council and Environment Canterbury to achieve positive results.

Committee Resolved CWZC/2022/00021

That the Christchurch West Melton Water Management Zone Committee:

1. Recognises and supports the Christchurch City Council initiative to develop the draft Healthy Waterways Action Plan and the opportunity it provides for implementing long term change for urban waterways in Christchurch.

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2. Advocates for a collaborative partnership to build community engagement and political support for the Healthy Waterways Action Plan.
3. Collaborates with partners involved in the Community Waterways Partnership in this advocacy.

Annabelle Hasselman/Mike Patchett

Carried

11. Cashmere and Port Hills Working Group

Chrissie Williams presented to the Committee about erosion and sediment in the Ōpāwaho/Heathcote River catchment, Cashmere Stream and the tributaries of Cashmere Stream on behalf of the Ōpāwaho Heathcote River Network. Chrissie focused on sediment as a physical contaminant is a focus of the report. Water clarity is a useful measure of sediment and it significantly impacts the health of this catchment and water clarity is poor. Cashmere Stream water clarity has 85% of hill tributaries being rated as extremely poor.

Sediment affects the water quality and aquatic ecology of the Ōpāwaho/Heathcote River. Erosion in the Port Hills is due to loess, a highly erodible soil that gets washed into waterways. Loess is made up of very fine particles that remain in suspension for a long time and prevent them from clumping together and settling. Erosion is exacerbated by soil disturbance from heavy rain causing slips, tunnel gullies, slumps and stream-bank collapse; particularly where the soil has been disturbed and vegetation cover reduced by earthworks from agriculture and forestry work; cycle and vehicle tracks, road construction and fire.

Controlling erosion and sediment on the Port Hills should aim to stabilise and prevent erosion before it gets started and prioritise steep north facing slopes with the highest potential for tunnel-gully erosion. Establishing and maintaining a persistent and healthy vegetation cover on the Port Hills is crucial to protecting these waterways.

The amount of sediment and where it comes from varies between tributaries but a large amount of the sediment is most likely coming from the hill based tributaries in the Cashmere Stream Catchment.

The Committee noted that they would like to contact Chris Phillips from Manaaki Whenua Landcare Research who is conducting ongoing research into erosion and sediment control in other parts of New Zealand to see how their research could be utilised on the Port Hills, or whether local work is required. Manaaki Whenua has previously done erosion and sediment control research for Environment Canterbury on the Port Hills and Banks Peninsula.

The Committee stated their wish to continue to support for and active commitment to, the Cashmere and Port Hills Working Group of the Zone Committee and the implementation of actions of this working group.

Refer to the minutes attachment document for presentation.

Committee Resolved CWZC/2022/00022

That the Christchurch West Melton Water Management Zone Committee:

1. Receive the background information on the status of the existing Cashmere Stream and Port Hills Working Group of the Christchurch West Melton Water Zone Committee.

**Christchurch West Melton Water
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24 November 2022**



2. Receive the information and suggested next actions from the Ōpāwaho Heathcote River Network. This results from the Network considering the knowledge shared at the joint July 2022 Ōpāwaho Heathcote River Network and Cashmere Stream and Port Hills Working Group sediment workshop and a literature and information review conducted afterwards.
3. Strengthens the effectiveness of the Cashmere Stream and Port Hills Working Group by:
 - a. Recognizing the priority catchment remains the Cashmere Stream Catchment and Ōpāwaho/Heathcote River Catchment due to the scale of the problem in this catchment resulting from the catchment including the steep loess soils of the Port Hills.
 - b. That any recommendations and actions based on this Working Group's efforts be applied to the other main catchments in the Christchurch West Melton Zone where they are relevant and can be transferred.
 - c. Establish a small task group of the Zone Committee to draft a revised terms of reference for this Working Group that strengthens its purpose, leadership and collaborative membership. The task group is to share this draft with existing members of the Working Group to get their feedback, and then present a proposed new terms of reference to the Zone Committee at a future meeting of the Committee.
4. Engage with the Banks Peninsula Water Zone Committee and Whaka Ora Healthy Harbour group to seek to collaborate with them on improving erosion and sediment control in the Christchurch West Melton and Banks Peninsula water management zones.
5. Liaise with Christchurch City Council on the development and implementation of their Programme for Stormwater Port Hills and Lyttelton Harbour Erosion and Sediment. The budget for this programme begins in 2022-2023 and continues to 2030-2031, increasing gradually every year, totalling \$9 Million over 10 years.

Clare Piper/Mike Patchett

Carried

Attachments

- A Overview - Cashmere Stream and Port Hills Working Group

**12. Ngā Puna Wai, Restoring the mauri of urban freshwater springs:
Cashmere Stream and Ōpāwaho Heathcote River headwaters.**

Rachel Barker, representing the Ōpāwaho Heathcote River Network, presented to the Committee the freshwater springs scoping report, which was funded by the CWMS Action Plan Budget to increase understanding of the natural and human pressures on freshwater springs and how to mitigate them. The presentation covered what a spring was, how they function and what the recipe for a healthy spring could be.

Refer to the minutes attachment document for the presentation.

Committee Resolved CWZC/2022/00023

That the Christchurch West Melton Water Management Zone Committee:

1. Receive the information in the report from the Ōpāwaho Heathcote River Network on the progress of the project: Ngā Puna Wai, Restoring the mauri of urban freshwater springs: Cashmere Stream and Ōpāwaho Heathcote River headwaters.

Annabelle Hasselman/Clare Piper

Carried

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13. Develop early input to Councils' Annual Plans for 2022-2023

The Committee discussed and decided on the key inputs they would like to have into the Christchurch City Council, Selwyn District Council and Environment Canterbury Annual Plans.

Committee Resolved CWZC/2022/00024

That the Christchurch West Melton Water Management Zone Committee:

1. Provides the following early annual plan input to the Christchurch City Council:
 - Support further development of the Healthy Waterways Action Plan. Provide support for the implementation of the actions within this action plan.
 - Maintain and increase support for the effective development of the Community Waterways Partnership. Increase speed of progress of the behaviour change programme within the Partnership.
 - That both Councils jointly conduct an independent audit of the environmental effectiveness of the regulatory instruments, arrangements and capacity building applying to erosion and sediment control and contaminated stormwater management. That this audit used to improve the regulatory frameworks, instruments and environmental outcomes for waterways within our Zone.
 - That both Councils advocate to central government, the environmental problems associated with erosion and sediment control from developments on highly erodible hillsides and requests that these be subject to tighter requirements or restrictions.
 - Support for, active commitment to, the Cashmere and Port Hills Working Group of the Zone Committee. Support the implementation of actions of this working group, such as updating the LIDAR based desktop mapping of high erosion risk areas and conducting the physical identification of sources of sediment during or after heavy rain.
 - All waterways are important and need action.
 - Continue advocating to central government that central government assists with finding solutions to zinc and copper pollution.
 - Conduct faecal source tracking on waterways where this data does not exist. For waterways with faecal source tracking showing a significant contribution by waterfowl, undertake effective action to significantly reduce waterfowl numbers.
 - Support educational programmes in schools about waterways and stormwater.
2. Provides the following early annual plan input to Environment Canterbury:
 - Continue and increase the budget available for the CWMS Action Plan Budget in our zone
 - Support further development of the Healthy Waterways Action Plan that Christchurch City Council has initiated. Provide support for the implementation of the actions within this action plan.

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- Maintain and increase support for the effective development of the Community Waterways Partnership. Increase speed of progress of the behaviour change programme within the Partnership.
 - That both Councils jointly conduct an independent audit of the environmental effectiveness of the regulatory instruments, arrangements and capacity building applying to erosion and sediment control and contaminated stormwater management. That this audit used to improve the regulatory frameworks, instruments and environmental outcomes for waterways within our Zone.
 - That both Councils advocate to central government, the environmental problems associated with erosion and sediment control from developments on highly erodible hillsides and requests that these be subject to tighter requirements or restrictions.
 - Support for, active commitment to, the Cashmere and Port Hills Working Group of the Zone Committee. Support the implementation of actions of this working group, such as updating the LIDAR based desktop mapping of high erosion risk areas and conducting the physical identification of sources of sediment during or after heavy rain.
3. Provides the following early annual plan input to the Selwyn District Council:
- That both Councils advocate to central government, the environmental problems associated with erosion and sediment control from developments on highly erodible hillsides and requests that these be subject to tighter requirements or restrictions.
 - All waterways are important and need action
 - Advocate to central government that central government assists with finding solutions to zinc and copper pollution.
 - Support educational programmes in schools about waterways and stormwater.

Annabelle Hasselman/Oscar Bloom

Carried

Attachments

A Erosion and Sediment in the Ōpāwaho Catchment - Chrissie Williams

B Freshwater Springs scoping report - OHRN Committee - Presentation by Rachel Barker

14. Facilitators Update – 24 November 2022

The Committee discussed the facilitators update report and thanked Shelley Washington for her excellent work throughout the year. Committee members briefly reported on a recent meeting they had with communications staff to discuss how the Stormwater Superhero awareness campaign had gone, and what the opportunities may be for continuing and further focusing this approach by the Committee in the future.

Committee Resolved CWZC/2022/00025

That the Christchurch West Melton Water Management Zone Committee:

1. Receive the Facilitators report.

**Christchurch West Melton Water
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2. Has a workshop in early 2023 to focus on next steps for the Stormwater Superhero awareness campaign and use of trailer by committee.

Annabelle Hasselman/Oscar Bloom

Carried

Karakia Whakamutunga: Annabelle Hasselman

Meeting concluded at 8:25pm.

CONFIRMED THIS 23rd DAY OF MARCH 2023

**ANNABELLE HASSELMAN
CHAIRPERSON**

6. Selwyn Waihora Zone Committee Minutes - 13 February 2023

Reference / Te Tohutoro: 23/436142

Report of / Te Pou Matua: Luke Smeele, Committee and Hearings Advisor,
luke.smeele@ccc.govt.nz

General Manager / Pouwhakarae: Lynn McClelland, Assistant Chief Executive Strategic Policy and
Performance (lynn.mcclelland@ccc.govt.nz)


1. Purpose of Report Te Pūtake Pūrongo

The Selwyn Waihora Zone Committee held a meeting on 13 February 2023 and is circulating the Minutes recorded to the Council for its information.

2. Recommendation to Council

That the Council receives the Minutes from the Selwyn Waihora Zone Committee meeting held 13 February 2023.

2. Attachments Ngā Tāpirihanga

No.	Title	Reference	Page
A 	Minutes Selwyn Waihora Zone committee 13 February 2023	23/436143	16

Signatories / Ngā Kaiwaitohu

Author	Luke Smeele - Committee & Hearings Advisor
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MINUTES OF THE 116th MEETING OF THE SELWYN WAIHORA ZONE
COMMITTEE HELD IN THE TAI TAPU COMMUNITY CENTRE ON
MONDAY 13 FEBRUARY 2023 COMMENCING AT 4PM

Meeting Agenda

Item	Time	Description
		<i>Public meeting begins</i>
1	4.00 pm (15 min)	Meeting commences with Karakia and formal order of business: <i>Chair</i> <ul style="list-style-type: none"> Welcome Apologies Identification of Urgent General Business Register of Interests review Confirmation of minutes 28 November 2022 Public contribution Correspondence
2	4.15 pm (30 min)	Boat Creek Reserve Native Restoration Project update and opportunities for Zone Committee support <ul style="list-style-type: none"> <i>Hamish Jones, Project Coordinator, and Mike Patchett, Chair of Water and Wildlife Habitat Trust will provide an update of the Boat Creek project supported by the committee through the CWMS Action Plan Budget in 2021/22 and note the opportunities the Zone Committee could support using their CWMS Action Plan Budget in 2022/23.</i>
3	4.45 pm (15 min)	Committee updates – for information <ul style="list-style-type: none"> <i>Updates including response development to M Glover's letter dated 28 November 2022, recent CWMS communications, and the upcoming Bio Blitz event in February 2023, Braided Rivers Seminar date and actions from the 28 November 2022 meeting.</i>
4	5.00 pm (10 min)	General Business <ul style="list-style-type: none"> <i>Any items confirmed by the committee for follow up or information.</i>
5	5.10 pm	Meeting closed
		<i>Workshop commences</i>
6	5:10 pm (65 min)	Zone Committee Action Plan Budget projects consideration <ul style="list-style-type: none"> <i>Discussion around potential projects to support using the Zone Committee Action Plan Budget of \$50K for FY2022/23. Several projects have been identified in the Selwyn Waihora zone for the Zone Committee's consideration including:</i> <ul style="list-style-type: none"> Boat Creek Native Restoration Project Ellesmere Sustainable Agriculture (ESAI) projects A joint Zone Committee purchase of Nitrate testing equipment Te Ara Kakariki projects – Green Dots and Kids Discovery Plant-out days Biodiversity Corridor – Environment Elemental Other projects the Zone Committee wish to include
7	6.15 pm	Workshop finished with <i>karakia</i>

PRESENT

Les Wanhalla (Te Rūnanga o Taumutu / Chair); Councillor Vicky Southworth (Environment Canterbury Regional Council); Councillor Sophie McInnes (Selwyn District Council); James Booker (Community Member); Karaitiana Taiuru (Te Rūnanga o Koukourarata); Khan McKay (Community Member); Matt Dodson (Community Member / Deputy Chair); Helen Troy (Community Member); Allanah Kidd (Community Member); and Dr Benita Wakefield (Wairewa Rūnanga, via Microsoft Teams).

IN ATTENDANCE

Murray Griffin (Team Leader CWMS Facilitation, Environment Canterbury), Jaimee Grant (Facilitator, Environment Canterbury); Dr Tim Davie (Director of Science, Environment Canterbury); Hamish Jones (Project Coordinator for Boat Creek) and Mike Patchett (Water and Wildlife Habitat)

Les Wanhalla welcomed everyone, and Jaimee Grant opened with a karakia. All members were asked to introduce themselves.

APOLOGIES

Simon Bryant submitted an apology.

Moved – Les Wanhalla / **Seconded** – Karaitiana Taiuru

'That the Selwyn Waihora Zone Committee receives the apology for information.'

CARRIED

IDENTIFICATION OF URGENT GENERAL BUSINESS

None.

CONFLICTS OF INTEREST

No changes to the register were noted.

CONFIRMATION OF MINUTES

Minutes of the 115th Meeting of the Selwyn Waihora Zone Committee (Water Management) held on Monday 28 November 2022

Moved – James Booker / **Seconded** – Helen Troy

'That the minutes of the 115th meeting of the Selwyn Waihora Zone Committee (Water Management) held on Monday 28 November 2022 be confirmed as circulated.'

CARRIED

MATTERS ARISING FROM THE MINUTES

None.

PUBLIC CONTRIBUTION

None.

CORRESPONDENCE

None received.

REPORTS

1. Boat Creek Reserve Native Restoration Project

Hamish Jones and Mike Patchett presented on this project providing an overview of work completed to date and the upcoming works for the project. It was noted that more than 50 people had helped on the project so far. There is a predator control programme for stouts, rats and mice as well.

Information panels are proposed to capture the rich history of the area. Funding is secured for five panels with a sixth telling the story of the hydrodynamics of the area being proposed. The Committee thought the project was doing really well and were happy to be part of this initiative.

A funding proposal was present for the Zone Committee's consideration. \$10K was requested to be put towards widening the creek buffer on the northern side by 10 m, and \$2K to go towards a hydrodynamics info panel.

Moved: Councillor Sophie McInnes / **Seconded:** Karaitiana Taiuru

'That the Selwyn Waihora Zone Committee receives the update for the Boat Creek Reserve Native Restoration project for their information with consideration to their zone committee action plan.'

CARRIED

2. Committee Updates – for information

J Grant referred to the letter from Mike Glover noting his concerns around the increasing of nitrates in the Selwyn Waihora zone and made recommendations on actions the committee could take.

Dr T Davie noted that Cr Southworth raised a notice of motion in August 2022 which was about ECan testing of nitrates. He noted that previous testing facilitated by the zone committee had been undertaken using equipment that was due to be put into permanent use. No specific testing equipment had been purchased for this use.

M Dodson queried how local authorities saw zone committees fitting in with the integrated planning given zone committees are well connected and could be very beneficial to the process. M Griffin noted the multizone Chairs and Deputies Forums are

being organised and will include a presentation by Environment Canterbury's planning team.

Moved: Matt Dodson / **Seconded:** Les Wanhalla

'That the Selwyn Waihora Zone Committee receives these updates for its information.'

CARRIED

GENERAL BUSINESS

L Wanhalla noted with reference to the Bathurst Coal Mine closure, the company had been talking to and were supportive of mana whenua and their recommendations for the land. It was also noted the landowners were willing to exclude stock from the old coal mine site.

J Grant led the karakia to close the meeting.

The meeting closed at 5.03pm


CHAIRPERSON

13-03-2023
DATE

7. Banks Peninsula Water Management Zone Committee Minutes - 21 February 2023

Reference / Te Tohutoro: 23/423312

Report of / Te Pou
Matua: Katie Matheis, Team Leader Hearings & Committee Support
(Katie.Matheis@ccc.govt.nz)

General Manager /
Pouwhakarae: Mary Richardson, General Manager Citizens & Community
(Mary.Richardson@ccc.govt.nz)


1. Purpose of Report Te Pūtake Pūrongo

The Banks Peninsula Zone Committee held a meeting on 21 February 2023 and is circulating the Minutes recorded to the Council for its information.

2. Recommendation to Council

That the Council receive the Minutes from the Banks Peninsula Water Management Zone Committee meeting held 21 February 2023.

Attachments Ngā Tāpirihanga

No.	Title	Reference	Page
A 	Banks Peninsula Water Management Zone Committee 21 February 2023 Open Minutes	23/422105	22

Signatories Ngā Kaiwaitohu

Author	Katie Matheis - Team Leader Hearings & Committee Support
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Banks Peninsula Water Management Zone Committee OPEN MINUTES

Date: Tuesday 21 February 2023
Time: 4.05 pm
Venue: Lyttelton Mt Herbert Community Boardroom,
25 Canterbury Street, Lyttelton

Present
Members

Gina Waibl - Community Representative
Trudi Bishop - Community Representative
Andrea Davis - Community Representative
George Howden - Community Representative
Elisa Knight - Community Representative
Ben Manson - Community Representative
Tyrone Fields - Councillor Christchurch City Council
Aurora Smith - Te Hapū o Ngāti Wheke/Rapaki
Jaleesa Panirau - Te Rūnanga o Wairewa – via Audio / Video link

Zone Facilitator
Shelley Washington
Tel: 027 294 5219
Environment Canterbury

Committee Advisor
Katie Matheis
Tel: 941 5643
Christchurch City Council

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**Banks Peninsula Water Management Zone
Committee
21 February 2023**



The meeting opened with a Karakia Timatanga.

The agenda was dealt with in the following order.

1. Apologies

Committee Resolved BPZC/2023/00001

That the apologies received from Rik Tainui and Erana Riddell for absence and from Jaleesa Panirau, and Aurora Smith for lateness be accepted.

Gina Waibl/Trudi Bishop

Carried

2. Declarations of Interest

There were no declarations of interest recorded.

3. Updates from Banks Peninsula Zone Committee Members

Members highlighted events/meetings/issues relevant to the Zone Committee as follows:

- Forestry operations in Port Levy
- Farmers' experience with poplar and willow poles for soil conservation – lack of interest
- Availability of funding to Banks Peninsula farmers – raising awareness
- Planting stream near marae in Koukourārata
- Little River Rating District Meeting – notes to be circulated
- Little River flooding – regular meetings between Christchurch City Council, ECan and community to improve communication and find possible solutions
- Wangan Hills consent application publicly notified
- Christchurch Foundation Report – Tui Corridor Project findings
- Committee display at Little River – misperceptions that Committee is anti-fishing when fish passage actually improves fishing habitat
- Project Lyttelton – carbon neutrality work ongoing, but no longer by carbon coach
- Water conservation on the Peninsula – promotion efforts by the Committee
- Whaka-Ora Frontiers Abroad – U.S. students returning to assist with projects on the Peninsula
- Whaka-Ora work programme – potential for funding of private projects
- Green lip mussels washed up on Purau likely by storm – testing by ECan
- Lack of water at Koukourārata – Christchurch City Council budgeting potential deferral
- Plant maintenance and pest control inclusion in biodiversity projects
- Whakaraupō treated wastewater discharge – no longer to harbour, but to Bromley
- Zone delivery staff – May work programme discussions
- Lack of awareness of rules around waterways and stock exclusion
- Wairewa Rūnanga discussion of project ideas to improve water in Wairewa catchment

Jaleesa Panirau joined the meeting at 4.28 during discussion of Item 3.

Aurora Smith joined the meeting at 4.34 during discussion of Item 3.

**Banks Peninsula Water Management Zone
Committee
21 February 2023**



4. Confirmation of Previous Minutes

Committee Resolved BPZC/2023/00002

That the minutes of the Banks Peninsula Water Management Zone Committee meeting held on Tuesday, 20 September 2022 be confirmed, noting a correction to the listed membership, changing "Andrea Smith" to "Andrea Davis."

Trudi Bishop/Gina Waibl

Carried

5. Matters Arising from the Minutes

Nil

6. Deputations by Appointment

There were no deputations by appointment.

7. Identification of Urgent Items

Nil

8. Identification of General Public Contributions

Nil

9. 2023 Election of Chair and Deputy Chair, and Committee Meeting Dates

The Committee accepted the Officer Recommendations with the inclusion of the names of the Committee members elected to the roles of Chairperson and Deputy Chairperson.

Gina Waibl was nominated for Chairperson by Trudi Bishop and this nomination was seconded by Aurora Smith.

Trudi Bishop was nominated for Deputy Chairperson by Gina Waibl and this nomination was seconded by Elisa Knight.

The Committee also noted that the start time of the 21 March 2023 meeting may change to 5.30pm rather than 4.00pm.

Committee Resolved BPZC/2023/00003

That the Banks Peninsula Water Management Zone Committee agrees to:

1. Elect Gina Waibl as the Chair and Trudi Bishop as the Deputy Chair for 2023 in accordance with the CWMS Zone Committees Revised Terms of Reference (Attachment A to this report).
2. Meet in 2023 between 4:00-6:30pm on the following Tuesdays (and Thursday):
 - a. 21 February (meeting)
 - b. 21 March (meeting) noting that the meeting start time may change to 5:30pm
 - c. Thursday 27 April (joint workshop with Christchurch West Melton Zone Committee and Whaka Ora Healthy Harbour, with other key stakeholders invited)

**Banks Peninsula Water Management Zone
Committee**



21 February 2023

- d. 23 May (workshop)
- e. 20 June (meeting)
- f. 15 August (meeting)
- g. 19 September (meeting)
- h. 17 October (workshop)
- i. 21 November (meeting)

George Howden/Aurora Smith

Carried

**11. Co-option to Banks Peninsula Water Management Zone Committee
Committee Resolved BPZC/2023/00004**

Original Officer Recommendation Accepted Without Change

That the Banks Peninsula Water Management Zone Committee:

- 1. Agrees to co-opt Tori Peden as an advisory member from March 2023 until the completion of the next refresh process, taking place in 2024.

Elisa Knight/Aurora Smith

Carried

10. Canterbury Water Management Strategy Action Plan Budget

The Committee generally supported the Club's planting proposal but raised some concerns about the existing boundary fence and its state of repair. The Committee raised other questions and requested additional information before making a determination on the funding allocation.

Officer Recommendations

That the Banks Peninsula Water Management Zone Committee:

- 1. Provide the Little River Pony Club with \$8,370 towards their Okana River fencing and planting project.

Committee Resolved BPZC/2023/00005

That the Banks Peninsula Water Management Zone Committee:

- 1. Defer the decision to provide the Little River Pony Club with funding towards their Okana River fencing and planting project and request that staff and Committee members gather additional information from the applicant regarding the types of natives being planted, whether the boundary fence will be fixed, and that Christchurch City Council approval has been received for the planned project to occur before the project begins.

Ben Manson/Gina Waibl

Carried

Before concluding the meeting, the Committee further discussed issues around funding resources, noting that a future workshop agenda item would be useful.

**Banks Peninsula Water Management Zone
Committee
21 February 2023**



Item - 11. Co-option to Banks Peninsula Water Management Zone Committee - has been moved to another part of the document.

Councillor Fields left the meeting at 5.57pm.

The meeting closed with a Karakia/Whakamutunga.

Meeting concluded at 6.30pm.

CONFIRMED THIS 21st DAY OF MARCH 2023

A handwritten signature in blue ink, appearing to read 'Gina Waibl'.

**GINA WAIBL
CHAIRPERSON**

8. Triannual Water Management Zone Committee Update

Reference / Te Tohutoro: 23/407919

	Gina Waibl, Chairperson, and Trudi Bishop, Deputy Chairperson, Banks Peninsula Zone Committee
Report of / Te Pou Matua:	Annabelle Hasselman, Chairperson, and Mike Patchett, Deputy Chairperson, Christchurch West Melton Zone Committee
	Les Wanhalla, Chairperson, and Matt Dodson, Deputy Chairperson, Selwyn Waihora Zone Committee
General Manager / Pouwhakarae:	Mary Richardson, General Manager Citizens & Community (Mary.Richardson@ccc.govt.nz)

1. Nature of Information Update and Report Origin

- 1.1 To provide the Council with an update from the Banks Peninsula, Christchurch West Melton and Selwyn Waihora Water Management Zone Committees.
- 1.2 The information in this report has been generated by the above three Water Management Zone Committees.

2. Officer Recommendations Ngā Tūtohu


That the Council:

1. Receive the information in the Triannual Report and note the work of each Water Management Zone Committee.

3. Brief Summary

- 3.1 The Banks Peninsula, Christchurch West Melton, and Selwyn Waihora Water Management Zone Committees (the Zone Committees) provide triannual reports to the Christchurch City Council. The first of these reports for 2023 is included as **Attachment A**.

Attachments Ngā Tāpirihanga

No.	Title	Reference	Page
A 	Central Zone Committees Triannual Report to Christchurch City Council - 19 April 2023	23/521296	29

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

Document Name – Location / File Link
Not applicable

Confirmation of Statutory Compliance Te Whakatūturutanga 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	Katie Matheis - Team Leader Hearings & Committee Support
Approved By	Diane Shelander - Senior Advisor Climate Resilience Mary Richardson - General Manager Citizens & Community



**Banks Peninsula, Christchurch West Melton and Selwyn Waihora
Water Management Zone Committees
Tri-annual Report March 2023 for 19 April 2023 Christchurch City Council meeting**

Report of	Gina Waibl and Trudi Bishop.	Chair and Deputy Chair, Banks Peninsula Zone Committee
	Annabelle Hasselman and Mike Patchett	Chair and Deputy Chair, Christchurch West Melton Zone Committee
	Les Wanhalla and Matt Dodson	Chair and Deputy Chair, Selwyn Waihora Zone Committee
Christchurch City Council Zone Committee Elected Reps	Cr Tyrone Fields Cr Mark Peters (to be confirmed) Cr Andrei Moore	Banks Peninsula Zone Committee Christchurch West Melton Zone Committee Selwyn Waihora Zone Committee
Christchurch City Council Senior Staff	Diane Shelander	Banks Peninsula Christchurch West Melton
Authors/Key Contacts	Christchurch West Melton, Banks Peninsula Zone Committee Facilitator	Shelley Washington shelley.washington@ecan.govt.nz
	Selwyn Waihora Zone Committee Facilitator	Jaimee Grant jaimee.grant@ecan.govt.nz

Purpose of Report

The Banks Peninsula, Christchurch West Melton and Selwyn Waihora Zone Committees (the Zone Committees) provide tri-annual reports to the Christchurch City Council. This is the first of these reports for 2023.

Background: The Canterbury Water Management Zone Committees

The Zone Committees were established under the Canterbury Water Management Strategy (CWMS).

Banks Peninsula Zone Committee is a joint committee of Environment Canterbury and Christchurch City Council, while both the Christchurch West Melton and Selwyn Waihora Zone Committees are joint committees of Christchurch City Council, Environment Canterbury, and Selwyn District Council.

Each Zone Committee comprises one Environment Canterbury councillor, one elected member (and option for alternate) from each district council within the zone, one member from each Rūnanga (and option for alternate) in the zone and four to seven members of the community.

Purpose:

The Committee's purpose is to uphold the mana of the freshwater bodies within their zone by facilitating enduring land and water management solutions that give effect to the Canterbury Water Management Strategy vision, principles and targets in their zone.

Functions:

- *Facilitate community engagement and collaboration – continuing an active programme of engaging with communities on freshwater management matters; and*
- *Facilitate the provision of advice through to councils (relevant Territorial Authorities and Environment Canterbury) and others (eg. private sector) contributing to freshwater management; and*
- *Enhance delivery capability and coalition of the willing – working with stakeholders across all sectors to extend the resources available to implement the CWMS, including connecting others to additional resources and seeking opportunities to promote, support, leverage and expand catchment-based initiatives that deliver the CWMS; and*
- *Provide progress reports – annual progress reporting to Councils and on progress towards delivery of the zone-specific priorities and CWMS target areas identified in the Zone Committee Action Plan.*

Zone committees make recommendations about how the CWMS Action Plan Budget is allocated in their zone. This is a budget provided by Environment Canterbury, \$50K for 2022/23 and \$100K for 2023/24 (subject to annual plan). The final decisions are made by Environment Canterbury.

The purpose of this budget is to allow zone committees to focus on implementing their action plan and leverage other funding opportunities to achieve the CWMS priorities. The notable difference from the previous Immediate Steps funding is that budget can be allocated to a wider range of project types, rather than exclusively biodiversity.

Environment Canterbury has a separate contestable fund called Waitaha Wai Action to Impact for community groups to apply to and separate operational funding for regional and zone biodiversity and water management projects. Christchurch City Council and Selwyn District Council also may have separate contestable funds and operational funds.

Zone Committees cannot commit Environment Canterbury or district council funds.

Recommendations

That the Council

- a) Receives the tri-annual report
- b) Notes and discusses the work of each water management committee

Christchurch West Melton Water Zone Committee

Presentations relating to CWMS Action Plan Budget

At their November meeting, Rachel Barker (Ōpāwaho Heathcote River Network) presented to the first stage of the project - Ngā Puna Wai, Restoring the mauri of urban freshwater springs: Cashmere Stream and Ōpāwaho Heathcote River headwaters. This project was provided some funding by the CWMS Action Plan Budget.

In February, the Committee was given a very engaging presentation about Te Tuna Tāone project by its facilitator from Christchurch Envirohub Trust, Jenny Bond. Hayley Guglietta of the

Avon Ōtākaro Network also gave a very informative update on progress of the Avon/Ōtākaro in river clean – litter collection project which the Committee are very supportive of.

At their March meeting, Hayley Guglietta of Ōtākaro Orchard gave a short presentation about this space and their project to create a green-blue roof and raingarden. Ōtākaro Orchard Community Garden and Food Forest is a living learning hub for growing food and environmental awareness.

Healthy Waterways Action Plan

In November, the Committee had further discussion based on the October presentation they had by Dr Belinda Margetts (Christchurch City Council) about the results of their waterway monitoring and development of a Healthy Waterways Action Plan. The proposed Healthy Waterways Action Plan is a much needed multi-catchment initiative for Christchurch. The Committee passed the following resolutions at their November meeting:

- *Recognises and supports the Christchurch City Council initiative to develop the draft Healthy Waterways Action Plan and the opportunity it provides for implementing long term change for urban waterways in Christchurch;*
- *Advocates for a collaborative partnership to build community engagement and political support for the Healthy Waterways Action Plan; and*
- *Collaborates with partners involved in the Community Waterways Partnership in this advocacy.*

Activities

At their March workshop, the Committee took part in Ko Tāne Waka on Avon. This was an experience in team and skill building and learning about early stories of Canterbury's Ngāi Tahu Iwi and the earliest European settlers.

Community engagement – stormwater

In late November, the Committee awarded the 2022 Champion Stormwater Superhero Champion to Tunnel Wash for excellence in wastewater recycling and reuse, and the collection and treatment of stormwater at the Selwyn St site, Addington. They are going above and beyond what is required of car washing facilities by councils. The 2022 Stormwater Superhero award went to Christchurch Readymix Concrete for excellence in retrofitting zero discharge stormwater, wastewater and sediment management systems at the Branston St site, Homby.



Caption: winners representing Tunnel Wash and Christchurch Readymix Concrete and representatives of the Committee.

At their February workshop, the Committee agreed to make improvements to and carry out another Stormwater Superhero awareness campaign during 2023 and to improve and hold the Stormwater Superhero Awards again in late 2023.

The campaign will include a focus the topics chosen by the Community Waterways Partnership to focus on for the next 1-3 years – waterways litter, and sediment.

Erosion and sediment control

At the Committee's November meeting, Chrissie Williams (Ōpāwaho Heathcote River Network) presented to the Committee about erosion and sediment in the Ōpāwaho/Heathcote River catchment, Cashmere Stream and the tributaries of Cashmere Stream. Chrissie focused on sediment as a physical contaminant. Poor water quality significantly impacts the health of this catchment. In Cashmere Stream Catchment, 85% of hill tributaries are rated as extremely poor in terms of clarity. Sediment affects the water quality and aquatic ecology of the Ōpāwaho/Heathcote River. Erosion in the Port Hills is due to loess, a highly erodible soil that gets washed into waterways.

The Committee also agreed at this meeting to continue the Cashmere Stream and Port Hills working group of the Zone Committee. They also agreed to update its terms of reference and membership.

This update will occur after the committee has held a joint workshop in late April focused on erosion and sediment control with the Banks Peninsula Zone Committee and Whaka-Ora Healthy Harbour. This will be an opportunity to: hear which each committee has been doing on this topic; re-confirming agreed projects; identifying new actions; liaising with CCC on their Port Hills and Lyttelton Harbour erosion and sediment control budget ;and discussing opportunities for collaboration.

The Deputy Chairperson will attend the CCC meeting in April where CCC staff report in relation to the Committee's recommendations from their August 2022 meeting about erosion and sediment control will be shared with the Councillors. The Committee made the following recommendations to Christchurch City Council and Environment Canterbury in August:

- *That an independent audit of the environmental effectiveness of the regulatory instruments, arrangements and capacity building applying to erosion and sediment control and contaminated stormwater management, be conducted.*
- *That this audit used to improve the regulatory frameworks, instruments and environmental outcomes for waterways within our Zone.*
- *Advocate to central government, the environmental problems associated with erosion and sediment control from developments on highly erodible hillsides and requests that these be subject to tighter requirements or restrictions.*

The Chair and Deputy will likely speak to the Environment Canterbury Land and Water Committee about these recommendations in early May.

Community Waterways Partnership

Committee members continue to take part in the initiatives of the Community Waterways Partnership that has recently included some workshops involving a sub-set of the partnership to learn about impact framework and to reach a decision about what key topic/message the Partnership will focus for the next 1-3 years. It was agreed to focus on waterways litter to begin with, with sediment after that (but developing how this may take shape from now). The sub-group will also help the other partners to decide how they would like to contribute and share ideas to ensure activities and messages involve influencing behaviour change.

Committee members will take part in an upcoming workshop for all the partners, that will involve: an update on the online hub; overview and feedback on the City Council's draft healthy waterways action plan; sharing the rationale for selecting waterways litter and sediment as a focus; and helping the other partners to decide how they would like to contribute and share ideas to ensure activities and messages involve influencing behaviour change.

Early Annual Plan input to Councils

The Committee provided its early input to the annual plans of Councils via a letter from the Chairperson to chief executive and governance staff in mid-December. The letter requested that

their early input be shared with Councillors to assist them with their deliberations and that the elected representatives on the Committee be asked to advocate on their behalf.

Membership

The Committee welcomes their new Council representatives – Cr Mark Peters (Christchurch City Council), Cr Phil Deans (Selwyn District Council), and Cr Greg Brynes (Environment Canterbury).

At their March meeting, the Committee re-elected Annabelle Hasselman as Chairperson and Mike Patchett as Deputy Chairperson.

Banks Peninsula Water Zone Committee

Soil conservation, erosion and sediment control, and fish passage

At their November workshop the Committee continued discussion and about their soil conservation, erosion and sediment control and fish passage actions in their action plan.

The Committee is having a joint workshop in April with Whaka-Ora Healthy Harbour and Christchurch West Melton Zone Committee about erosion and sediment control to further explore opportunities to collaborate on this topic that is a priority for all three committees. This will include an update on the Cut Slope Soil Erosion Control project about finding solutions to significantly reduce sediment from roadside cuttings managed by CCC. This project has been a joint project of Christchurch City Council and Environment Canterbury and was initiated by the Zone Committee on behalf of the community. It is also a project in the Whakaraupō Catchment Plan and is supported by Whaka-Ora Healthy Harbour.

Community engagement

The Committee had a display at the 2023 Little River Show, focusing on mahinga kai, fish passage and climate change. Committee members were able to speak to a number of landowners about funding available to improve water management and biodiversity that they were not already aware of. Members of the public were particularly drawn to the new display aerial photograph of the Peninsula on the back wall, that Environment Canterbury provided. The Committee used the new Banks Peninsula stream information sheets that Christchurch City Council communications staff have created.



Image: Zone Committee youth representative, Erana Riddell with the Committee's new display at the Little River Show.

Early Annual Plan input to Councils

The Committee provided its early input to the annual plans of Councils via a letter from the Chairperson to chief executive and governance staff in mid December. The letter requested that their early input be shared with Councillors to assist them with their deliberations and that the elected representatives on the Committee be asked to advocate on their behalf.

Membership

The Committee welcomes their new Council representatives – Cr Tyrone Fields (Christchurch City Council), and Cr Paul Dietsche (Environment Canterbury).

At their February meeting, the Committee re-elected Gina Waibl as their Chairperson and Trudi Bishop as their Deputy Chairperson. The Committee also passed a resolution to co-opt Tori Peden as an advisory member to the Committee from March 2023 until the completion of the next refresh process, taking place in 2024.

Selwyn Waihora Zone Committee

Committee Appointments

The Selwyn Waihora Zone Committee welcomed the new Council representatives appointed to the Committee by their respective Councils:

- Cr Andrei Moore – Christchurch City Council
- Cr Sophie McInnes – Selwyn District Council
- Cr Vicky Southworth – Environment Canterbury

At their November meeting, the Committee made the following appointments:

- Les Wanhalla as Chairperson for 2023
- Matt Dodson as Deputy Chairperson for 2023
- Confirmed Matt Dodson as the Zone Committee Representative on the Rakaia Catchment Environmental Enhancement Society. James Booker was confirmed as the alternate at the Committee's February 2023 meeting.
- Confirmed Khan McKay as the Zone Committee Representative on the Coes Ford Wetland Working Group
- Confirmed Khan McKay and Tayla Nelson-Tūhuru as the Zone Committee Representative and alternate, on the Whakakōhanga Kōrero group.

A community concern around nitrate levels in drinking water

In November, the Zone Committee received a letter from a community member highlighting their concerns around nitrate levels in community drinking water supplies and urging the Committee to advocate and/or support more nitrate testing in the Selwyn area. The Zone Committee are currently considering the concerns raised and how the Committee can support and/or facilitate community supplier testing.

One Water Strategy development update from Selwyn District Council

In November, the Zone Committee received a presentation from Murray England, Selwyn District Council's (SDC) Asset Manager, on the One Water Strategy that is being developed. This will replace the existing 5Waters Strategy and is needed in order to position SDC for current and inter-generational challenges; further demonstrate SDC's recognition of Te Tiriti o Waitangi; reflect its role in respecting "a drop of water" on its pathway through its networked water systems; and prepare for Three Waters Reform including transfer of water services to Entities. This new strategy will support the outcomes outlined in the Zone Implementation Plan Addendum to have "high quality and secure supplies of drinking water" and ensure "the integration of kaitiakitanga into water management".

Upper Waikirikiri/Selwyn River Biodiversity Corridor report

In November, the Zone Committee received a presentation from Element Environmental Limited providing an overview on their assessment of feasibility options for the establishment of a biodiversity corridor from the Upper Waikirikiri/Selwyn River Catchment. This project is the one

of the Zone Committee's CWMS Action Plan Budget priority projects for 2021/2022 who are looking to advance the proposal of a biodiversity corridor in the Waikirikiri/Selwyn River catchment. The Zone Committee are now considering their options for the establishment of a biodiversity corridor in consideration of existing projects and required community engagement.

Local projects supported by the CWMS Action Plan Budget

In February, the Zone Committee held a workshop to discuss potential projects which aligned with their Action Plan and could be supported using their Action Plan Budget. The Zone Committee requested further information and in response, received presentations on four projects. Subsequently, all four projects were recommended for funding by the Zone Committee at their March meeting and subsequently approved by Environment Canterbury:

Boat Creek Reserve Native Restoration - An ecological restoration and enhancement project with a vision for Boat Creek (near Rakaia Huts) and the surrounding conservation estate to be a fresh water and native bush habitat that; sustains fish and bird life, improves water quality in the lagoon and river catchment, acknowledges the cultural significance of the area, and provides recreational access for everyone to enjoy. The site is located to the west of the Rakaia Huts in the Rakaia catchment.

Te Ara Kākāriki (TAK) Kids Discovery Plant-out Day – Te Motu o Ahuriri – TAK will be running a Kids Discovery Plant-out Day at Te Motu o Ahuriri, a site located alongside the Huritini/Halswell River between TAK's Te Pae o Ahuriri site and the Ahuriri Lagoon. The planting day will see students participating in a local project which provides them with opportunities to make a real difference to the natural spaces they feel connected to. Students learn about native biodiversity through taking on a role of tiaki tamariki, caring for their special biodiversity restoration site and together contributing to restoring native ecosystems across the Canterbury Plains. This mahi also contributes towards the health of the tributary which flows into Te Waihora/Lake Ellesmere.

Ellesmere Sustainable Agriculture Incorporated (ESAI) Project Tinaku Coordination - Funding for coordination support is being provided for ESAI's Project Tinaku. Project Tinaku's aim is to protect and enhance remaining remnants of native biodiversity within the Ellesmere area and to improve water quality in our lowland waterways that feed into Te Waihora/Lake Ellesmere and Muriwai/Coopers through multiple restoration projects. Project management and coordination have been vital to the success of the project overall and ESAI are looking to continue with the project.

ESAI Corbetts Road Wetland Restoration Project – Supporting the restoration of a wetland at one of ESAI's Project Tinaku sites. The purpose of the proposed planting is to restore the natural biodiversity of the wetland and its abutting dryland terrace, to filter runoff from adjoining paddocks, and to uptake nutrients from the groundwater seepage. Additionally, the planting aims to improve habitat for native wildlife and increase mahinga kai values. The wetland restoration site is located on the lower reaches of the Waikirikiri/Selwyn River.

Map: Locations of supported projects



Note: ESAI Project Coordination is not related to one specific site but many in the Te Waihora and Muriwai o whata/Coopers lagoon catchments.

Less than \$10,000 of the \$50,000 remains to be allocated in the Action Plan Budget for this financial year.

9. Three Waters Activities - November and December 2022 and January and February 2023 - Report to Council

Reference / Te Tohutoro: 23/105070

Report of / Te Pou

Matua:

Brent Smith, Acting Head of Three Waters

General Manager /

Pouwhakarae:

Mary Richardson, General Manager Citizens & Community
(Mary.Richardson@ccc.govt.nz)

1. Nature of Information Update and Report Origin

- 1.1 The purpose of this report is to update the Council on Three Waters service delivery during the period November and December 2022 and January and February 2023.
- 1.2 This report was put together by staff in the Three Waters unit.

2. Officer Recommendations Ngā Tūtohu


That the Council:

1. Receive the information in the Three Waters Activities – November and December 2022 and January and February 2023 Report to Council

3. Brief Summary

- 3.1 An update on drinking water compliance, water safety plans and applications for exemptions from residual disinfection (chlorine).
- 3.2 An update on resource consent across three waters.
- 3.3 An overview of delivery of capital projects for three water services across the city.
- 3.4 A summary of the operation of the interim wastewater plan following the November 2021 fire and improvements in wastewater treatments, discharge quality and odour control.

Attachments Ngā Tāpirihanga

No.	Title	Reference	Page
A 	Attachment to report 23/105070 (Three Waters Activities Report to Council - November & December 2022 and January & February 2023	23/345798	41

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

Document Name – Location / File Link
Not applicable

Confirmation of Statutory Compliance Te Whakatūturutanga 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	Brent Smith - Acting Head of Three Waters
Approved By	Mary Richardson - General Manager Citizens & Community



THREE WATERS ACTIVITIES REPORT NOVEMBER & DECEMBER 2022 JANUARY & FEBRUARY 2023

November & December 2022, January & February 2023 Report

Christchurch City Council | March 2023

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COMPLIANCE AND QUALITY ASSURANCE

Health Safety and Wellbeing

In total there were 161,194 hours worked over the months of November, December 2022 and January, February 2023. This covers Three Waters contractors that work on Three Waters projects.

A total of 155 events were reported. These events include 144 near misses, nine first aid injuries and one lost time injury:

- A worker was turned around while sitting, to pick up a paver and as they were doing this they pulled something in their back. They didn't feel the pain until they stood up. They went to the doctor and were off for five days to rest and recover.

Please see appendix 1 for the detailed statistics and the measures of LTIFR (lost time injury frequency rate) and TRIFR (total recordable injury frequency rate).

Resource consents

Three Waters holds more than 400 resource consents from Environment Canterbury for day-to-day operations and for capital projects to construct new infrastructure:

- 54 for water supply
- 73 for wastewater
- 119 for stormwater
- 169 for capital projects.

There are no current enforcement actions or significant non-compliances against any of our resource consents.

It has been a busy year at Christchurch Wastewater Treatment Plant, following the fire in November 2021. The incident resulted in some non-compliances, both with odour and with the five parameters sampled in the offshore wastewater discharge (faecal coliforms, enterococci, ammoniacal nitrogen, total suspended solids, biological oxygen demand).

An interim activated sludge treatment process has now been established, with the sludge fully mature in August 2022. Since this has been achieved, we have returned to full compliance with the five parameters sampled.

Water Safety Plans

A Water Safety Plan documents a public health risk assessment and management process to ensure a safe and secure supply of drinking water for consumers, protecting public health.

Under the Water Services Act 2021, a Water Safety Plan and a Source Water Risk Management Plan (the Plans) are compulsory for all water supplies from November 2022, independent of the population served. The Plans needed to be submitted to the regulator Taumata Arowai by 15 November 2022. The regulator will review them against the requirements and monitor ongoing compliance.

The Council has updated and submitted the plans for Christchurch, Akaroa, Duvauchelle, Little River, Birdlings Flat, Pigeon Bay and Wainui before the deadline set by Taumata Arowai in compliance with their requirements.

New drinking water standards and rules exemption processes

The new regulator approved new Drinking Water Standards (Standards) and Aesthetic Values in June 2022, which came into effect on 14 November 2022. The Standards set the Maximum Acceptable Values (MAVs) for a range of determinants which can affect the safety and quality of drinking water. Taumata Arowai expects suppliers to comply with the new reporting requirements by 1 January 2023.

Drinking water suppliers are able to apply for exemptions from some requirements of the Water Service Act 2021.

Residual disinfection exemptions

Drinking water suppliers with piped supply networks may apply for exemptions from supplying drinking water without using residual disinfectants (e.g. chlorine) or from complying with certain requirements (e.g. chlorine contact time, continuous monitoring, etc.). An exemption may apply to all or a part of a supply. An exemption can only be granted if it is consistent with the main purpose of the Water Services Act 2021 and if all other legislative requirements will be complied with, including the duty to provide safe drinking water.

The Council has applied for two residual disinfection exemptions:

1. Brooklands/Kainga: to provide unchlorinated water.
The exemption application was lodged in September 2022. Taumata Arowai has an indicative timeframe of 50-65 working days for the assessment process, however they have informed that could take longer to provide the outcome.
2. Christchurch: to not comply with contact time values and continuous online monitoring (contact time (C.t) value is the minimum time required for the water to be in contact with chlorine for bacteria inactivation).

The exemption application was lodged in October 2022.

The relevant attributes to be assessed for the specific water supply span the network infrastructure, the operation of the supply and the management framework, as outlined below:

Infrastructure	Operations	Management
Cross connection & backflow	Operational staff	Continuous improvement
Water storage	Pressure management	Incident response
System condition	Hygienic practices	Public communications
Seismic design	Network cleaning	Customer complaints
Sanitary sewers	On line monitoring	Organisation awareness
Water loss		Organisation commitment
Emergency chlorination		

[Risks of being non-compliant with Drinking Water Standards \(DWS\) and rules](#)

The new framework of rules provides new and different requirements to achieve compliance and the Council is working continuously to achieve compliance. However, some of the requirements were not ready when the rules came into force as they need specific budgets and projects that can't be addressed within such a short timeframe. We have identified the potential non-compliances with the new rules and these are detailed in the below table.

SUPPLY	AREA OF POTENTIAL NON COMPLIANCE	REASON	ESTIMATED DURATION OF NON-COMPLIANCE	PROPOSED MITIGATION
Christchurch	Water treatment plants (pump stations) will be protozoa non-compliant	Not achieving class 1 or interim class 1 source water or not having UV treatment in each pump station.	5 years after approved in the LTP	Consider installing UV treatment systems in all pump stations that will not achieve class 1 status due to having below ground wellheads and/or well screens located less than 30m below ground.
	Water treatment plants will be bacterial non-compliant	Not having proper sampling points to sample conductivity, pH and turbidity before treatment.	1 year	Install dedicated sampling points inside the pump stations and before any form of treatment
		Not having online monitoring for FAC, pH and turbidity after treatment.	5 years after approved in the LTP	Submit an exemption application for continuous monitoring to Taumata Arowai.
		Not comply with contact time (C.t)	Ongoing	Submit an exemption application for continuous monitoring to Taumata Arowai.
Akaroa	Water treatment plant will be bacterial non-compliant	Lack of controls/ analyzers to meet disinfection rules (turbidity on water leaving the treatment plant, pH after chlorine contact time, etc.)	2 years after approved in the LTP	
Little River	Water treatment plant will be bacterial non-compliant	Lack of permanent residual disinfection setup at the treatment plant	2 years after approved in the LTP	
	Water treatment plant will be protozoa non-compliant	Lack of UVT and additional turbidity continuous monitoring at the treatment plant.	2 years after approved in the LTP	
Duvauchelle	On-going non-compliance	Lack of adequate treatment	Until new water treatment plant is well established.	
Pigeon Bay	Water treatment plant will be bacterial non-compliant	Lack of permanent residual disinfection setup at the treatment plant	2 years after approved in the LTP	

SUPPLY	AREA OF POTENTIAL NON COMPLIANCE	REASON	ESTIMATED DURATION OF NON-COMPLIANCE	PROPOSED MITIGATION
Wainui	Water treatment plant will be non-compliant	Shallow depth of screen (<30m) means will not be able to meet Class 1	5 years after approved in the LTP	Additional treatment required. Filtration and UV treatment followed by permanent chlorination
Birdlings Flat	Water treatment plant will be bacterial non-compliant	Lack of filtration and permanent residual disinfection setup at the treatment plant	5 years after approved in the LTP	
All Banks Peninsula water supplies	Distribution zones may be bacterial non-compliant	Not feasible to undertake enhanced FAC sampling in the long term with the frequency required	N/A	Setup continuous monitoring points across all the networks. Estimated time: 5 years after approved in the LTP.
All water supplies	Water supplies non-compliant due to inadequate water quality monitoring.	Not feasible to manage water quality data without a dedicated software that links Laboratory data with Taumata Arowai and Council's requirements.	1 year after rules are approved	Engage with external suppliers to provide a software for sampling schedule and monitoring.
	Water supplies non-compliant due to inadequate use of hydrants by approved (and not approved) contractors (for water deliveries, use in construction etc.)	New Rules restrict access to hydrants to FENZ, other emergency services and the water supplier (but only as part of normal operation of the supply, eg flushing etc)	5 years after approved in the LTP	Initial planning for dedicated water supply stations underway. Will continue current approved standpipe scheme.



FINANCIAL OVERVIEW

The numbers

Financial Results Three Waters February 2023				
Cost Element (\$000's)	Year to Date			
	Actual	Budget	Variance	%
Term Rentals	(32)	(159)	(127)	-80.1%
Entry/Usage Fees	(5,664)	(6,162)	(498)	-8.1%
Professional Services	(841)	(634)	207	32.7%
Product and Information Sales	(11)	(11)	()	-3.6%
Cost Recoveries	(8,651)	(8,645)	6	0.1%
Controllable Revenue	(15,199)	(15,611)	(412)	-2.6%
Personnel Costs	13,711	12,401	(1,310)	-10.6%
Office Expenses	137	99	(38)	-39.0%
Grants and Levies	-	10	10	100.0%
Professional Advice	3,455	3,711	256	6.9%
Operating Costs	12,474	11,334	(1,139)	-10.1%
Maintenance Costs	26,574	25,731	(843)	-3.3%
Internal Reallocations	(3,765)	(5,384)	(1,619)	-30.1%
Controllable Costs	52,586	47,902	(4,683)	-9.8%
Controllable Net Cost of Service	37,387	32,291	(5,095)	-15.8%

February has had a net variance of controllable elements to budget in the month of \$1,133K continuing the forecast trend identified in January. Against the forecast submitted in January the February year to date result has been consistent except for maintenance costs which has had cost \$489K higher than forecast.

Operating costs \$1.2m over budget - this is the result of service contracts \$158k, fuel \$288k, cleaning \$189k and refuse disposal fees \$290k plus others. Many of these e.g. fuel are timing where costs are incurred in the winter months. Offsetting electricity savings are \$403k. Generally tracking to forecast, service contracts have exceeded anticipated spend, but overspend is offset in the operating cost forecast via numerous smaller savings.

Internal reallocations less than budget \$1.6m - this is due to lower labour cost recoveries to capital projects. See actions being taken under forecast. February has seen some improvement with an additional 100K being charged to CAPEX and non-Three waters OPEX codes.

Personnel Costs \$1.3m more than budget - salaries & wages are \$562K over budget due to pay rates higher than budget allowance and FTEs engaged not allowed for in the budget. Related salaries & wages costs (annual leave, overtime ect) \$493K over budget, minimal budget included was deemed to be part of the salaries & wages budget. Overall tracking to the January forecast.

Maintenance cost \$0.8m - Citycare contract costs are driving overspend against budget. On average \$1.5M per month is being spent on reactive/variable works compared with vs \$1.1M per month on programmed/fixed works (total \$2.6M per month on avg, total budget \$2.7M for all maintenance works per month, including non-city care contracts). Variable/reactive Citycare costs for Dec-Feb have been \$1.9M per month vs Jul-Nov \$1.3M per month.

WATER SUPPLY

Drinking Water Quality

This section provides drinking water compliance status for the period 1 October 2022 – 31 December 2022. The compliance status was assessed against Drinking Water Standards New Zealand (DWSNZ 2005, Rev.2018) as these standards were in place until 14 November 2022 and Taumata Arowai notified that the new Rules would start to be monitored since 1 January 2023.

DWSNZ requires:

- Bacterial and Protozoal compliance for Water Treatment Plants and,
- Bacterial compliance for distribution zones.

The compliance status for the period 1 October 2022 – 31 December 2022 was:

- Bacterial compliance **was achieved** for all water treatment plants (WTP) with the exception of Central, West Christchurch, Riccarton and Northwest Christchurch.
- Protozoa compliance **was only achieved** at five water treatment plants:
 - Main Pumps, Birdlings Flat and Akaroa through treatment compliance
 - Brooklands/ Kainga and Wainui WTP through use of source water with groundwater security category established under the DWSNZ,
- Bacterial compliance was achieved for all distribution zones.

Non-compliances details

Central, West Christchurch, Riccarton and Northwest Chch

Scheduled Samples were taken from these Treatment Plant on 19th October 2022 but were not analysed. An investigation and incident report were completed and a root cause analysis was undertaken with an action plan put in place to avoid repeating this event. Unfortunately monitoring at these sites is required daily.

Duvauchelle

The treatment components (filtration and UV disinfection) failed to cope with the poor source water quality that occurred during the rain events, water was often tankered from Akaroa to fill the reservoir at the treatment plant. A full upgrade of the treatment plant is due to start this financial year, but in the interim replacement of the two current UV treatment units with more robust UV units that will be able to treat a wider envelope of source conditions should be completed by the end of March

Little River

Instances of high turbidity and periods of overloading the slow sand filters meant that overall the treatment failed to provide a consistent barrier.

Pigeon Bay

This treatment plant complied, when operational, but compliance supporting activities involving the confirmation that continuous monitoring equipment is adequately calibrated and verified (and so can be relied upon) were not completed.

Christchurch WTPs (Central, Parklands, West Christchurch, Riccarton, Northwest Christchurch, Rawhiti, Ferrymead)

Protozoa compliance across other Christchurch plants failed as the secure groundwater criteria has not been re-established. Taumata Arowai's new Drinking Water Quality Assurance Rules do not include the current DWSNZ Bore Water Security criteria but have introduced a similar concept of Class 1 water that will not require protozoa treatment. However the source water does require three years of bacterial monitoring where no E.coli or total coliforms have been found, coupled with a sanitary above ground bore head.

Additional monitoring will be necessary to establish Interim Class 1 for each of the source bores (previous monitoring for compliance has often been of a combination of wells and aquifers and is not immediately transferable into the Class 1 criteria). This monitoring will start in March 2023 and is expected to take two years to complete for all bores (some proximal grouping within an aquifer allowed), it requires daily monitoring of bores for 36 consecutive days followed by weekly monitoring until 1 year of monitoring completed (no E.coli or total coliforms can be found in any samples taken).

Notifications to Taumata Arowai

The Water Services Act requires that Taumata Arowai are notified of the following:

- If your drinking water does not comply with standards.
- If your drinking water is, or may be unsafe (when a critical control point is exceeded).
- If you have a notifiable risk or hazard.
- Your ability to maintain sufficient water is at imminent risk.
- You have a planned restriction or supply interruption longer than 8 hours.
- You have an unplanned restriction or supply interruption longer than 8 hours.

The following notifications were made to Taumata Arowai during the period October-December 2022:

Supply details	Notification category	Date	Details
Pigeon Bay PIG001	Risk to drinking water safety or quantity	29/12/22	Water demand exceeding production (combination of summer use and leaks in network)
Duvauchelle DUV001	Risk to drinking water safety or quantity	13/12/22	Poor mixing in the treated water reservoir at the Duvauchelle Treatment Plant meant the FAC level of the treated water leaving the treatment plant dropped below 0.5 mg/L on 7 occasions between 6th December 2022 and 13th December 2022.

Christchurch CHR009 – Rawhiti zone	Risk to drinking water safety or quantity	25/11/22	E.coli found in Estuary pump station (prior to chlorine injection point). Condition of suction tank roof thought to have been responsible for contamination following rain
Christchurch CHR009 – West Christchurch zone	Risk to drinking water safety or quantity	20/11/2022	E.coli found in Sockburn pump station (prior to chlorine injection point). Condition of suction tank roof thought to have been responsible for contamination following rain



Water Supply Planning

Development Planning

The Three Waters Asset Planning team continues to provide engineering support to developers as part of subdivision and building consent applications. Fewer subdivisions were consented in quarter 2 of FY23 as compared to the previous quarter.

Description	Oct-Dec Q2 FY23	Jul-Sep Q1 FY23	YTD FY23	FY22
Subdivision Consents – advice & conditions	2	↓ 12	14	52
Engineering Acceptance of new subdivisions (WS)	8	↑ 7	12	31
Infrastructure Provider Agreements	0	↓ 2	2	2
BCN Engineering Acceptance	0	0	0	3

Concept plan for integrated water quality assurance management

The water services planning team is supporting the Three Waters Quality and Compliance team to determine the financial implications of the new Drinking Water Quality Assurance standards on the Christchurch water supply. A consultant has been appointed to develop an integrated concept plan and cost estimate as aligned to the Standards and that will also integrate with the work done to determine the implications of adding fluoride to the city's drinking water supplies.

Three Waters Reform Capital Programme – Growth

The growth inputs to the 30 year capital programme have been established from current water demand forecasts and draft outputs of the Water Supply Rezoning Master Plan. The water demand forecasts will need to be reviewed to align with the growth model that must still be provided as part of the 2024 Long Term Plan process. An updated growth model may also prompt the eventual modification of the Water Supply Rezoning Master Plan.

Water Supply Capital delivery

The Team continues to perform well coming out of the Christmas period. Health related issues continue to be an issue, but is diminishing.

Against delivery indicators, the team has delivered 90% against forecast to date. Looking at Q4, the teams forecast looks readily achievable. During Q3, work to accelerate lower risk reticulation projects was conducted with a view to construction starting in Q4 and early FY24.

It is likely that Water Supply Delivery will exceed current FY23 forecast and budget.

WS reticulation renewals programme

Status: varying phases

Budget: \$100 million

Scope: The programme of 51 projects is to renew existing water mains and sub mains within the network across the city.

Update: Projects are in different phases for FY23.

Initiate/ Plan	Design	Procurement	Construction	Handover/close	Total
5	18	5	12	11	51

Completion: Those projects in construction are likely to be completed in FY23.

Eastern Terrace water main renewal

Status: Construction

Budget: \$14 – 17m

Update: The project is 78% completed.

Completion: September 2023



Crew coming to the end of Sandwich Road and sheet piling the corner



Crew on Birdwood Ave laying around the 45 degree dog leg



Pipe laying out of river crossing and down Malcom Ave

Jeffreys pump station upgrade

Status: Construction

Budget: \$8.7 million

Update: The old suction tank is now filled and the new tank is taking good shape, see photo's below.

Completion date: September 2023



Ben Rarere new pump station

Status: Practically complete and handed over to Council

Budget: 6.96 million

Update: To replace capacity of earthquake damaged Bexley Pump Station.

The station is under Christchurch City Council ownership and fully operative.

Completion date: October 2022

*Ben Rarere pump station, right: these pumps took almost one year to arrive.
Below: the new suction tank.*



Sydenham suction tank replacement

Status: Construction

Budget: \$6.3 million

Update: Construction of a new stainless steel suction tank and demolition of the abandoned, earthquake damaged tank, along with other ancillary work.

The contractor commenced in September 2022. Foundation work has been executed. Work on site is in progress, demolishing old tanks, piping, preparation for the steel tank welding and electrical work. Wells on site aren't operating as collaborated with operation.

Completion date: January 2024



Above: driving 13 meters-long pile casing into ground by vibration. Left: Insert a plug into the pile casing.

Okains Bay new water supply and Duvauchelle membrane filtration

Status: Preliminary design

Budget: \$2.6 & \$3.7m

Update: Draft preliminary design has been reviewed by Council, Beca is to start the final prelim design. Te Rūnanga o Kōkōrarata and Te Rūnanga o Ōnuku for Okains Bay and Duvauchelle respectively have been communicated by the Council and re-consenting. Beca is to do more hydrogeological and hydrological assessment on the wetland to ensure clean discharge to the environment. A change request has been submitted to increase the budget of the project due to the raise of the cost that resulted from the complexity of the consenting and the global inflation.

Completion: December 2024

PS1030 Spreydon Well 2 & Well 3 renewals

Status: Construction

Budget: \$1.8 million

Update: Development of the new water supply well is progressing. Pump Selection process is underway, however there are long lead times on special materials for the wellhead. Additional upgrades on the existing wells plinths is underway to ensure compliance with the new regulations.

Completion: August 2023

New Water Supply Well – Mays Pump Station

Status: Construction

Budget: \$2.46 million

Update: Well in the final stages of completion waiting on the delivery of the bermad valve, variable speed drive and HOA panel. Once all installed, pressure testing, chlorination and bacto testing to take place.

Completion date: February 2023

PS1007 Blighs Road pump station well 3 renewal

Status: Construction

Budget: \$1.08 million

Update: Pump Selection process is underway, however there are long lead times on special materials for the wellhead. New pipe work laid between new well and suction tank, once completed, pressure testing of the pipework will take place. Additional upgrades on the existing well plinth is underway to ensure compliance with the new regulations.

Completion: August 2023

PS1077 Redwood Pump Station Well 1 & Well 2 Renewal

Status: Construction

Budget: \$2.4 million

Update: Pump selection completed and ordered. Old existing asbestos pipes removed and new modern pipework installed. New wellheads fitted awaiting new pump to be installed. Project is expected to be commissioned during the month of April, all up and running by May 2023. Project is likely to be delivered below budget.

Completion: May 2023

Water supply pump stations asset renewals

Status: Investigation, design and construction

Budget: Various

Scope/Update: A range of water supply pump stations are undergoing renewals and/or capacity upgrades to address ageing infrastructure risks (particularly with electrical and instrumentation/controls), increased population and loads and ensure that our assets meet the drinking water standards over the long term.

There is work planned or ongoing at various pump stations including Dunbars, Blighs, Carters, Cashmere, Clifton 3, Estuary, Hillmorton, Spreydon, Worsleys 1 and Worsleys 2.

Akaroa L'Aube Hill reservoir replacement

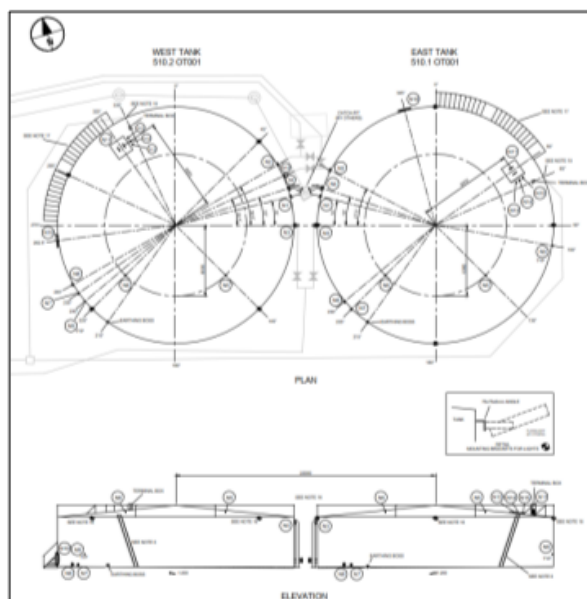
Status: Design and Construction

Budget: \$6.6 million

Update: A long term supply arrangement is required to ensure resilience and reliability of supply. The project sets out to construct two new storage reservoirs of 1,000m³ each and to modify the old reservoir into a raw water reservoir. The project is entering into the tender phase for the main construction package including tank supply.

Completion: Expected in 2024.

Concept design of L'Aube Hill reservoirs



WS suction tank and reservoir programme

Status: Inspections/Assessments/Repairs/Construction

Budget: \$10 million

Update: The inspection and repair programme is in progress for Christchurch City, Banks Peninsula and Akaroa areas. There are more than 150 reservoirs and suction tanks, which are programmed for assessments and repairs in the following years to bring these tanks up to a 'Demonstrably Safe' standard. The internal inspections phase work is in progress and the team has developed, Level 1, 2 and 3 repair programmes.

Current list of projects in design and construction for reservoirs and suction tanks:

Reservoirs and Suction Tank Repairs	Status
Denton suction tank	Back in service
Sockburn suction tank	Works in progress, completion expected mid 2023
Quarry Reservoir – design/build contract	Work in progress, Tank 2 back in service, Tank 1 almost completed
Estuary Reservoir	Concept design being reviewed by Council
Gardiners suction tank	Repair requirements being developed
Dunbar's	Will start upon completion of Sockburn
Hackthorne Reservoir	Design phase
Mount Pleasant 3 Reservoir 1 & 2	Design phase
Halswell Reservoir 2	Design phase
Grassmere Suction Tank	Design phase
Mays Suction Tank	Design phase

Completion: The reservoir and suction tank repairs are on a five year rolling programme FY23 to FY28.

Rawhiti Smart Water Network Pilot

Status: Construction

Budget: \$2.7 million

Update: A pilot smart water network is being undertaken across the Rawhiti water supply zone to inform the citywide implementation. The purpose is to demonstrate that continuous monitoring of flows, consumption, leaks, water quality and water pressure will improve water safety, asset management, operational management and sustainability. Latest updates are as follows:

- Installation of 192 acoustic sensors, 80 pressure transient sensors, eight bulk flow meters and water quality sensors at Keyes pump station have been completed. The smart water monitoring system has been implemented and an observation period has started to analyse the data gathered and inform the city wide roll out strategy.
- Customers Smart Meters (Ultrasonic IoT meters): 1200 meters to be installed as part of the pilot, led by ITRON, installation by Citycare. Up to 75 per cent of the installs require additional maintenance to retrofit the pit meter boxes; this has pushed the forecast completion date from September 2022 to April 2023. 994 meters have been installed so far in residential connections and hourly consumption data is available in Temetra, the new smart meter management system.
- A new project has been created to roll out the installation of customer smart meters – 5,000 smart meters are going to be ordered to start installation in FY24

Completion: June 2023

Water Supply operations

The majority of pump stations and wells worked well over the summer with no significant issues. There were a couple of periods of prolonged heat, which in previous year would have put very high water demand pressures on the reticulation, however these excessive demand peaks were not seen this year. This could be attributed to the excess water charges influencing behavior (i.e. reducing demand). There was also a notable drop in the overall water demand over the summer period.

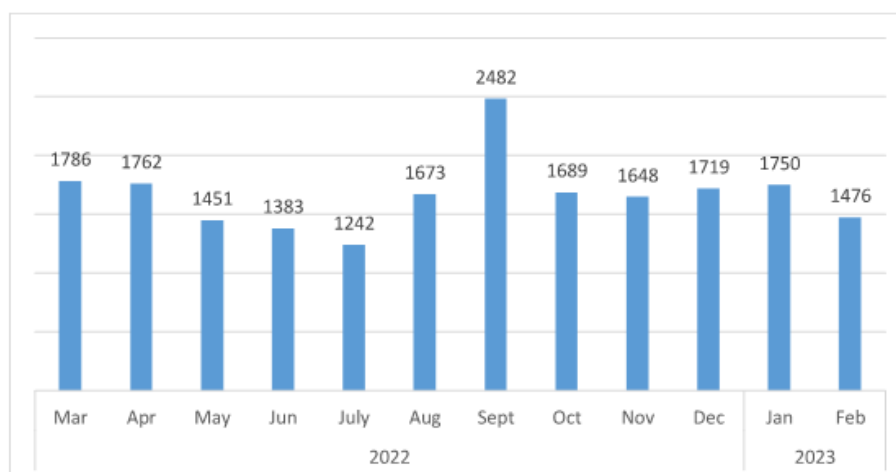
Water Supply reticulation and maintenance

Since the last report the overall number of water jobs has been similar to the same period last year. This seems at odds with our maintenance contractor struggling to meet our levels of service. The key difference is the change within our new maintenance contract which has defined the majority of water leaks as urgent and the associated shorter response and completion timeframes.

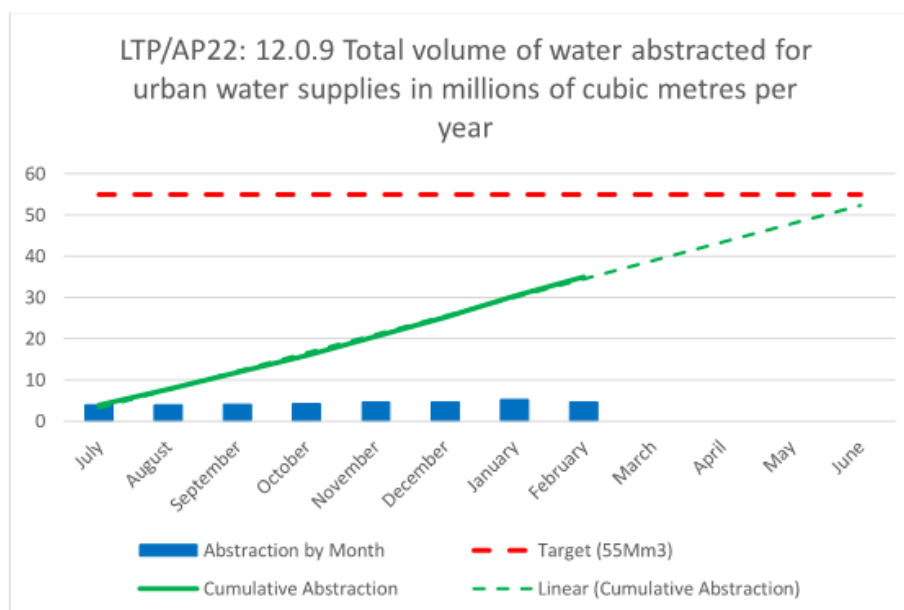
We have focused on a number of measures to improve the levels of service outcomes by working alongside our Hybris team and contractor during this transition period.

The main categories of service requests remain unchanged; leaks on connections, sub-mains, hydrants and valves.

Job volumes



Total Water Abstraction for Christchurch Supply



Response Times (Water Supply)

Since the new contract starting on 1 September 2022 there have been a significant number of changes in how we manage the data between ourselves and the contractor, Citycare. We are currently working through the final data validation which once finished will mean we will be able to monitor and respond to response times in near real time. Both Council and Citycare will be able to view these reports and all results will be from the same, agreed, data source.

Unfortunately this work has been delayed and full response time/ performance reporting will now be available for our next Three Waters quarterly report.

In the interim the following gives a high level indication of response times.

Water Supply Response Times	
Immediate Urban Start 1 Hour on Site	75-80%
Immediate Rural Start 2 Hour on Site	80-90%
Normal/Low Start 3 days on Site	90-95%
Normal/Low Finish 4 days Service Restored	85-90%

WASTEWATER

Christchurch Wastewater Treatment Plant

All resource consent parameters over the summer period (November to February) were met; final effluent water quality is within consented parameters and odours predominantly contained within the site boundary.

The oxidation ponds were in a good position all summer. Only pond 1, which is the first pond to receive effluent from the CWTP remained in the balance. The pond suffered from low dissolved oxygen levels, due to the microbial activity breaking down the elevated organic load being received from the CWTP. However, the dissolved oxygen level did not drop so much as to generate odour from the pond.

There was also a very low recorded number of midges emerging from the ponds being caught in the midge sampling traps. This accompanied, with the other midge mitigation techniques (native plantings, midge larvae dredging), result in a very low number of midge complaints.

A lot sampling and analysis was undertaken over the summer to collect as much data as possible to enable the optimization of the oxidation ponds following the installation of the 16 aerators, due in March/April 2023. A lot of operations time was also spent working with the capital delivery team to prepare the site for the installation.

The temporary activated sludge plant, which replaced the trickling filter process, continues to have number of minor operational issues over the summer, as flow, load and temperature variations occurred. These issues are to be expected given the nature of the installation of the process into existing assets.

However, over the course of summer, the process did stabilize. This meant that the knock on effects on the site's downstream sludge digestion process also stabilized, resulting in a reduction and then cessation of the digesters foaming and overtopping situation earlier in the year. The situation continue to be actively managed and monitored.

Christchurch Wastewater Treatment plant risk

The risk profile has significantly changed as a consequence of the fire. This will be reviewed again once the temporary activated sludge treatment plant is operationally stable and the aerators on Pond 1 and installed and operational. Work is ongoing to ensure sufficient support to ensure that the temporary activated sludge plant continues to run at full capacity, with minimal risk. This includes external maintenance contracted support, extended guarantees and critical spares.

Wastewater planning

Development planning

The Three Waters Asset Planning team continues to provide engineering support to subdivision and building consents. Fewer subdivisions and building consents were processed in quarter 2 of FY23 as compared to the previous quarter.

Description	Oct-Dec Q2 FY23	Jul-Sep Q1 FY23	YTD FY23	FY22
Subdivision Consents – advice & conditions	2	↓ 12	14	52
Engineering Acceptance of new subdivisions (WW)	3	↓ 7	8	19
Infrastructure Provider Agreements	1	↓ 2	2	4
Wastewater Capacity review and advice for BCN and RMA processes	292	↓ 457	749	1,604
BCN Engineering Acceptance				
New connections	17	↓ 21	38	45
Local pressure sewer pumps	143	↓ 180	323	567

Three Waters Reform Capital Programme – Growth and WW Overflow Reduction

The 30 year capital programme have been established from the 2020 WW Optimisation Master Plan. The master plan will have to be updated once the new growth model to be adopted for the 2024 Long Term Plan has been made available.

Wastewater Capital Delivery

Lyttelton Harbour wastewater scheme

Status: Construction

Budget: \$60.7 million

Update: Construction of the pipeline and pumping stations from Lyttelton Harbour

Basin to Christchurch Wastewater Treatment Plant via PS15 Alport Place is now complete, commissioned and operational. The final part to decommission the Lyttelton WWTP is well advanced and nearing completion. Discharge of treated wastewater to Lyttelton Harbour is no longer occurring.

Completion: March 2023



Decommissioning of Lyttelton WWTP

Wastewater pump stations

Status: Investigation, design and construction

Budget: variable

Scope/Update: A range of wastewater pump stations are undergoing renewals and/or capacity upgrades to address aging infrastructure risks, sewage overflows and increased population and loads. Works of note include:

- PS/PM31 (Barnett Avenue) – the options study has been completed with the final report being submitted. The report suggests a medium to long term solution for the pump station upgrade.
- Detailed design is underway with the Consultant Stantec to increase the pump station capacity and electrical upgrade to PS0013 on Tilford Street in Woolston.

Completion: Ongoing over the next 1-3 years

Alport Pump Station renewal

Status: Design

Budget: \$2.2 million

Update: The design underway to maximize the opportunity we have with replacing these pumps, to future proof the station, and minimize the whole of life cost.

Completion: June 2024

Response Times (Wastewater)

Since the new contract starting on 1 September 2022 there have been a significant number of changes in how we manage the data between ourselves and the contractor, City Care. We are currently working through the final data validation which once finished will mean we will be able to monitor and respond to response times in near real time. Both Council and City Care will be able to view these reports and all results will from the same, agreed, data source.

Unfortunately this work has been delayed and full response time/ performance reporting will now be available for our next Three Waters quarterly report.

In the interim the following gives a high level indication of response time completion rates.

Wastewater Response Times	
Immediate Urban Start 1 Hour on Site	80-85%
Immediate Rural Start 1 Hour on Site	95-100%
Normal/Low Start 5 days on Site	95-100%
Normal/Low Start 5 days on Site	95-100%

STORMWATER AND WATERWAYS

Stormwater and Waterways operations

The total rainfall for Christchurch in 2022 was above average with approximately 800mm of rain recorded for the calendar year. The recorded rainfall for the start of 2023 is average for Christchurch for this time of year.

The team has received a total of 736 service requests or complaints over the last 4 months which is slightly more than average for that period. Of particular note is the increase in service requests in February since the rain and flooding events occurred in Auckland and the East Coast of the North Island. This seems to have increased residents' awareness of stormwater and flooding issues resulting increased queries, complaints and requests for service.

The new maintenance contract with Citycare that commenced on 1 September 2022 is well underway and a number of issues continue to be ironed out to ensure the aims of the contract are met. Some of the maintenance works are well behind schedule, in particular the tributary waterways and stormwater basins. A remedial plan to "catch up" on this work is now in place.

Repairs to contractor damage have been completed on Avon River temporary stopbanks. In addition to this, the area of stopbank adjacent to Hulverston Drive, that was identified as being below the design level, has been raised the crest level.

The investigation into improvements to Ilam Stream, which commenced in February 2022, is ongoing. A draft ecological investigation report, as well as flow measurement information, has been completed with recommendations on the best options to improve Ilam Stream.

Stormwater and Waterways planning

Workload in the planning team for consents processing remains at over 50 per cent above 2019 and 2020 levels. Also ongoing is the support from the team to meeting Council's obligations under the Comprehensive Stormwater Network Discharge Consent (CSNDC) and to the delivery of the capital works programme.

Information requests from the National Transition Unit for Three Waters Reform are increasing in number and scale. The stormwater planning team, along with other Three Waters and wider Council staff, have been providing information concerning the Legal Request for Information (RFI), the projected Capital Programme and Operational activities and costs.

Environment Canterbury Consent Processing Delays and Constraints

We are contributing to a range of measures aimed at trying to resolve serious difficulties with the processing by Environment Canterbury (ECan) of Council resource consent applications. The measures include legal approaches relating to interpretation and potential change to the Canterbury land and Water Regional Plan, as well as exploring possible pathways to resolution under the current Plan.

The Stormwater and Flood Management capital programme has been delayed significantly through these difficulties. Measures have been taken to minimise Council exposure to further delay and disruption to the capital works programme. Interaction at a governance level between ECan and CCC has been very helpful in providing the required impetus to progress matters.

Stormwater and Flood Plain Hydraulic Modelling

Hydraulic model development is set to proceed for a number of priority areas, with the definition of priority works briefs for implementation forthwith. This initial batch of model development will provide the critical modelling tools which are essential to providing sound, reliable and robust flood management and stormwater advice. The modelling resources which can be used have been extended through the recent revision of the Three Wasters Consultants Panel and the establishment of a separate Hydraulic Modelling Panel.

Focus over Coming Months

The focus over coming months will be directed towards continuing compliance with Levels of Service for consenting and flood management in particular, supporting CSNDC compliance activities, contributing to capital project implementation including for the Otakaro Avon River Corridor (OARC) programme, supporting a number of strategic policy and planning initiatives including the Coastal Hazards Adaptation Planning programme (CHAPP) and the District Plan change for urban intensification, and contributing to the 3Waters Reform process.

Stormwater and Waterways Capital Delivery

The Stormwater and Waterways Delivery Team are actively managing 125 projects with a current year FY23 budget total of \$45.9 million. Key project details are given below.

Cashmere Worsley flood storage

Status: Construction

Budget: \$33.0 million

Update: Dam construction continuing, earthworks are well advanced, and control structure also progressing. Establishment and maintenance continuing for completed landscape planting. Currently on track to complete civil works in June 2023 if subcontractor issues are resolved in a timely manner, with control gate commissioning and landscaping to continue into FY24.

Completion date: June 2023

Eastmans, Sutherlands and Hoon Hay basins & wetlands (Te Kuru)

Status: Construction

Budget: \$39.8 Million

Update: The southern area of the site is open to the public. The overall site is now known as Te Kuru.

Te Kuru covers 109 hectares and when completed will collectively store more than two million cubic metres of flood water.

Project is making good progress and we are on track to complete all deliverables within budget. The remaining wetland construction works, and Outlet Structure works in the northern area are in progress. There will be landscaping works including shared path construction works scheduled in the coming months with some plants planted after project completion as 600,000 native, eco sourced plants (including 110,000 trees) cannot be secured & planted within the project timeframe.



Te Kuru will eventually provide around 14km of walking and cycling tracks.

Completion date: December 2024 (with some planting to follow).

Cashmere Stream enhancement

Status: Construction

Budget: \$4.2 Million

Update: Enhancement work on two kilometres of Cashmere Stream between Sutherlands Road and Dunbars Stream near Cashmere Road are being enhanced. Ministry for the Environment is co-funding the project.

Work now commencing on final two stages. The new channel has been cut and a number of buried stumps have been uncovered. The University of Canterbury is dating them and they will be incorporated into the instream features.

Completion date: September 2024



Waitaki Street (Ōtākaro Avon River Corridor) – Avon Flood Management

Status: Construction

Budget: \$12.2 million

Update: Work on construction of the stopbank is expected to be completed by May 2023.

Construction of the stormwater facility and associated landscaping is being delayed due to Environment Canterbury consenting issues over groundwater take that is affecting this and other projects. This may delay the expected completion date.

Completion date: June 2025



Waikākāriki - Horseshoe Lake Stormwater Treatment Facility

Status: Concept Design

Budget: \$13.9 million

Update: Project to design and construct a first flush basin and stormwater treatment wetland. Challenges included dealing with contaminated land, biodiversity impacts and impact of Environment Canterbury consenting issue over groundwater take. Project has been delayed while awaiting review and finalization of concept design. Budget and completion date to be reviewed.

Completion date: Under review

Lyttelton Reticulation Renewals (Brick Barrels)

Status: Construction

Budget: \$5.2 million

Update: Repair and renewal of Lyttelton's 100+ year old brick barrel stormwater drains (around 6km) including the installation and modification of new access manholes, with depths 2m to 8m below ground. 22 of 24 manholes now completed.

Completion date: June 2024

Pump Station 205 – Avon

Status: Complete

Budget: \$8.1 Million

Update: Project to upgrade major pump station and create additional lift from the three Archimedes screws. Practical completion certificate granted February 2023.

Completion date: February 2023



Mairehau Drain Timber Lining Renewal (Westminster to Crosby)

Status: Construction

Budget: \$2.2 million

Update: Renewal of 430m of timber lined drain now substantially complete.

Completion date: March 2023

Horseshoe Lake (Waikakariki) Outlet Renewal

Status: Investigation & scheme design

Budget: \$2.7 Million

Update: Project to renew outlet pipes under New Brighton Road. Investigation has started.

Completion date: June 2024



Manchester Street Brick Barrels Renewal (Purchas St to Bealey Ave)

Status: Investigation/Design

Budget: \$4.1 million

Update: Early Contractor Involvement (ECI) assisting with options assessment. Preferred option is to divert down new alignment in Manchester Street. Construction planned to start early FY24.

Completion date: June 2025

Gardiners Stormwater Facility

Status: Construction

Budget: \$5.6 million

Update: Significant construction delay due to changes in Environment Canterbury consent requirements, particularly relating to groundwater. Works starting on site 20 March 2023.

Completion date: January 2024, with planting to follow by October 2024



Knights Drain Ponds

Status: Construction

Budget: \$8.9 million

Update: Construction has now started.

Completion date: June 2023

Duvauchelle Waterway Renewals

Status: Investigations & scheme design
Budget: \$3.7M

Update: The renewal of 3 flood damaged waterways in Duvauchelle - Pawsons Drain and Duvauchelle Showground Drain within the Akaroa Golf Course and Pipers Stream between the state highway and Seafield Road. Investigation has started.

Completion date: June 2025



Marshland Road Canal Reserve Drain

Status: Construction

Budget: \$8.3 million

Update: Renewal of 1.9km of timber lined drain contract for phase one has been awarded but start of works delayed due to timber supply issues. Now due to commence in April, with completion in October 2023. Phase two is being designed.

Completion date: August 2024

APPENDIX 1 – HEALTH SAFETY AND WELLBEING STATISTICS

Health Safety and Wellbeing Statistics

Three Waters

Health Safety and Wellbeing Statistics - Months of November, December 2022, January, February 2023	Totals	November	December	January	February
Near Misses	144	25	7	61	51
First aid injuries (FAI)	9	2	1	5	1
Medical Treatment Injuries (MTI)	0	0	0	0	0
Lost Time Injuries (LTI)	2	0	0	1	0
No. of days lost to LTIs	5	0	0	5	0
No. of hours worked	161,194	52,011	30,181	38,100	40,902

Health Safety and Wellbeing Statistics - Year to Date July 2022 - February 2023	Totals
Near Misses	334
First aid injuries (FAI)	11
Medical Treatment Injuries (MTI)	0
Lost Time Injuries (LTI)	3
No. of days lost to LTIs	14
No. of hours worked	423,977
LTIFR	9.4
MTIFR	9.4
TRIFR (LTI + MTI)	18.9

10. Removal of Library fines - one year on

Reference / Te Tohutoro: 23/298568

Report of / Te Pou
Matua:

Elaine Sides, Content Manager, Libraries and Information Unit

General Manager /
Pouwhakarae:

Mary Richardson, General Manager Citizens & Community
(Mary.Richardson@ccc.govt.nz)

1. Nature of Information Update and Report Origin

- 1.1 Progress report on the impact of removing library fines from 1 March 2022
- 1.2 Report written by Libraries and Information Unit

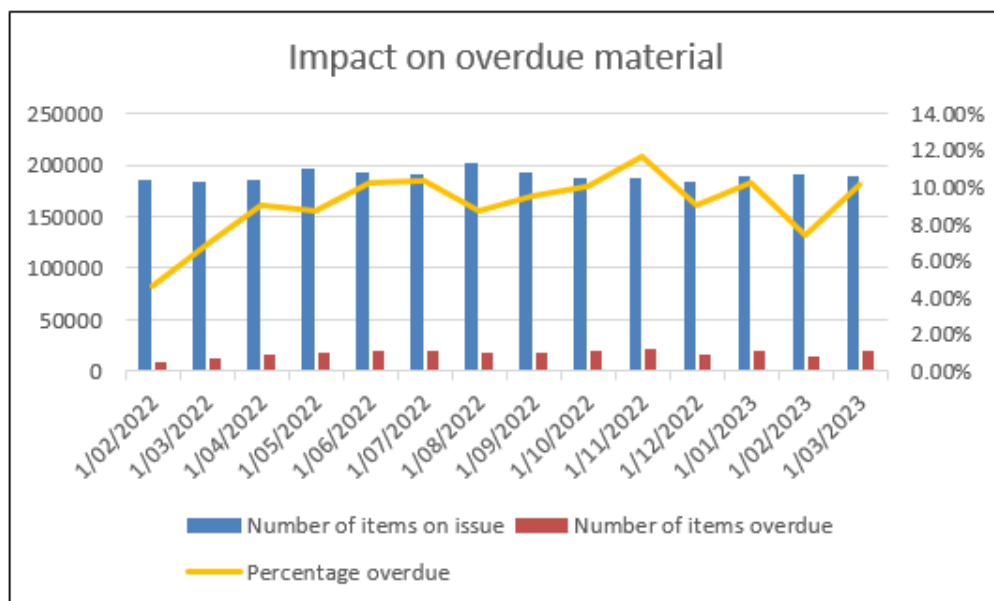
2. Officer Recommendations Ngā Tūtohu

That the Council:

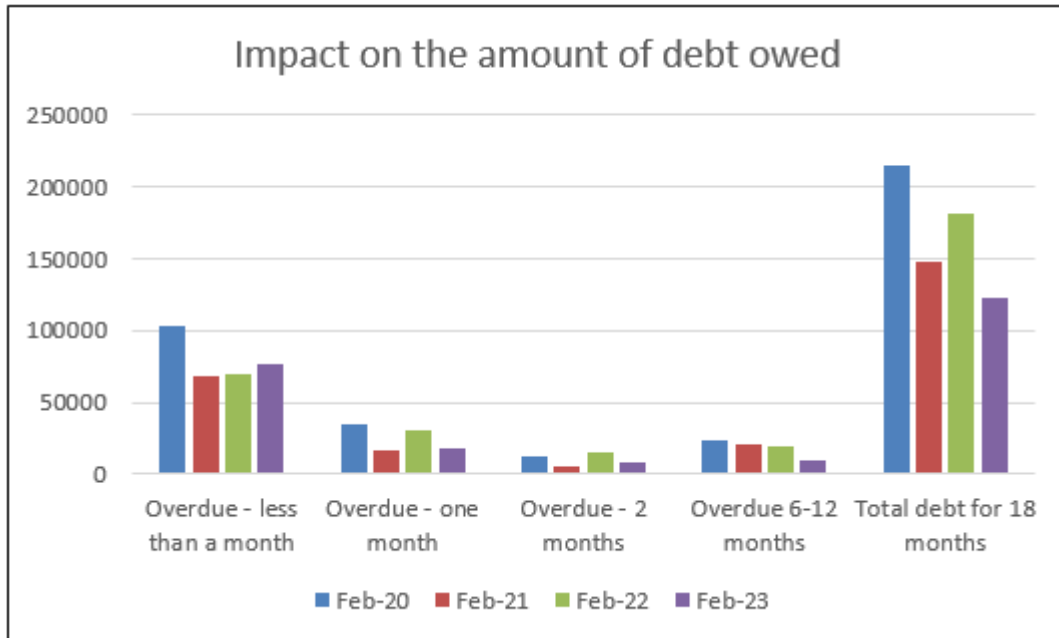
1. Receive the information in the Removal of Library fines – one year on Report

3. Brief Summary

- 3.1 From 1 March 2022, the library stopped charging adult members fines on overdue material, and removed all historical debt relating to fines from their records.
- 3.2 Since then the number of late returns has fluctuated in line with the number of books issued. Data has indicated some customers are choosing to keep their books past the due date but ensuring they are returned within the following month so that they can continue to borrow more books, place holds, and access our digital material. If books are not returned within this time, a block is placed on their record and the customer is no longer able to access these services until these overdue books are returned.



The removal of fines has had a significant impact on the amount of debt owed. The majority of debt now owed relates to the replacement cost and processing fees associated with each book. This debt happens automatically when the book is deemed lost at the same time the membership record is blocked. As soon as the book is returned both costs are removed automatically.



Currently 52% of the debt relates to lost books, 44% relates to processing fees, 2% to debt collection referral fees, and 2% for holds, bestsellers and audio visual charges.

At 1 March 2023, the percentage of members with blocked cards remained at the same level as 1 March 2022. In the past 12 months 77% of the total debt owed was cleared within one month, and 88% was cleared six months later.

- 3.3 The removal of fines has given customers more choice in how they access the collection – parents are no longer penalised for overdue children’s books mistakenly issued on their card. For others it has provided extra time to enjoy their reading material and support their wellbeing without the pressure or worry of having books back by a certain time and having to find the money to pay fines.

Feedback from customers has indicated relief, joy and delight in being able to use the library again after many years of not being able to access services due to owing fines. From a staff perspective, conversations with customers have moved from what was negative interactions into really positive ones. In addition to improving access to our collections, services and facilities, the removal of fines has demonstrated empathy, and enabled relationships with our customers to be strengthened by creating trust and showing respect.

- 3.4 In the last year, the Library has had a 10% increase in the number of new members joining the library compared to the previous year. There is no data available to show how many of these members had used the library previously and had returned due to fines being removed.
- 3.5 The number of issues has increased 4.2% from the previous year. Some of this increase can be attributed to the removal of fines.
- 3.6 There has been a 16% increase in the number of holds placed by adult members since the holds were reduced from \$3 to \$2 from 1 July. The number of holds picked up at Akaroa and Little River Libraries has increased by 46% since those with adult membership have had access to free holds. The removal of fines has had minimal impact on access to popular

books. Waiting lists have continued to be monitored closely and buying patterns changed when any trends were identified. Customers have continued to have the ability to renew books if there are no holds waiting to be filled.

- 3.7 Removing the fines relating to children's books issued on adult cards has had a significant impact on the number of disputes being worked through by library staff. Now most disputes relate to customers objecting to paying the \$21 processing fee as well as the replacement cost; and having to pay debt collection referral fees. A very small percentage of customers remain on Managed Accounts as they pay off charges relating to lost books.
- 3.8 The removal of fines and reduction in hold charges has impacted on revenue gained in this financial year. While this was anticipated and budgeted for, year to date figures show revenue received overall is less than what was estimated. This aligns with the trend we have seen in New Zealand and overseas in the last few years as more libraries are removing their charges altogether.

Attachments Ngā Tāpirihanga

There are no attachments to this report.

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

Document Name – Location / File Link
Not applicable

Confirmation of Statutory Compliance Te Whakatūturutanga 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	Elaine Sides - Content Manager Carolyn Robertson - Head of Libraries and Information
Approved By	Carolyn Robertson - Head of Libraries and Information Mary Richardson - General Manager Citizens & Community

Karakia Whakamutunga

Kia whakairia te tapu

Kia wātea ai te ara

Kia turuki whakataha ai

Kia turuki whakataha ai

Haumi e. Hui e. Tāiki e