
Christchurch City Council SUPPLEMENTARY AGENDA

Notice of Meeting:

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

Date: Thursday 28 July 2022
Time: 12pm
Venue: Council Chambers, Civic Offices,
53 Hereford Street, Christchurch

Membership

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

27 July 2022

Principal Advisor

Dawn Baxendale
Chief Executive
Tel: 941 8999

Samantha Kelly
Team Leader Hearings & Committee Support
941 6227
samantha.kelly@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.

To watch the meeting live, or a recording after the meeting date, go to:

<http://councillive.ccc.govt.nz/live-stream>

To view copies of Agendas and Minutes, go to:

<https://www.ccc.govt.nz/the-council/meetings-agendas-and-minutes/>

TABLE OF CONTENTS

20. Resolution to Include Supplementary Reports.....	4
22. Christchurch Wastewater Treatment Plant Recovery Update Presentation	5
23. Christchurch Wastewater Treatment Plant - update on community wellbeing response workstream	11

20. Resolution to Include Supplementary Reports

1. Background

- 1.1 Approval is sought to submit the following reports to the Council meeting on 28 July 2022:
 22. Christchurch Wastewater Treatment Plant Recovery Update Presentation
 23. Christchurch Wastewater Treatment Plant - update on community wellbeing response workstream
- 1.2 The reason, in terms of section 46A(7) of the Local Government Official Information and Meetings Act 1987, why the reports were not included on the main agenda is that they were not available at the time the agenda was prepared.
- 1.3 It is appropriate that the Council receive the reports at the current meeting.

2. Recommendation

- 2.1 That the reports be received and considered at the Council meeting on 28 July 2022.
 22. Christchurch Wastewater Treatment Plant Recovery Update Presentation
 23. Christchurch Wastewater Treatment Plant - update on community wellbeing response workstream

22. Christchurch Wastewater Treatment Plant Recovery Update Presentation

Reference Te Tohutoro: 22/935333

Presenter(s) Te kaupāhō: Michael Croucher – Senior Programme Manager

1. Summary

- 1.1 This update is scheduled to be considered at a reconvened meeting of the Council on 3 August 2022.
- 1.2 This presentation provides an update on the recovery activities following the Christchurch Wastewater Treatment Plant fire in November 2021.
- 1.3 At the Finance & Performance Committee on 28 April 2022 it was resolved that fortnightly updates would be provided to either the Finance and Performance Committee or Council.
- 1.4 This written update includes a summary of the activities presented by staff to the Finance and Performance Committee on 30 June 2022.
- 1.5 Staff will provide a Power Point presentation to the Council in support of this update with the activities that have been undertaken since that meeting, those currently underway and next steps.

2. Key Points / Background

Filter Media Removal Contract

- 2.1 Southern Demolition & Salvage Limited were awarded the contract to remove the media from the Trickling Filter structures on 11 May 2022.
- 2.2 Machinery began arriving on site 12 May 2022 with media removal scheduled to start 6 June 2022.
- 2.3 The media material is scheduled to be completely removed by early Spring 2022.
- 2.4 Works progress is currently ahead of schedule.

Summary of Recovery Actions March 2022 – end June 2022

- 2.5 Since March the following happened:
 - The material in the Trickling Filters in mid-March unexpectedly started emitting foul odours, resulting from a combination of wet and warm weather conditions
 - Staff talked to potential contractors and investigated options for filter material removal, including on-site visits.
 - Approval to remove the filter media from the Trickling Filters was received from our insurers on 25 March 2022.
 - 25 March – 5 April: Procurement options investigated to ensure requirements under Council's procurement process and Office of the Auditor General best practice guidance were being met.
 - Executive Team briefed on 6 April and decision on procurement options made 11 April.
 - 13 April meeting with preferred contractor held to confirm requirements.

- 14 – 28 April: Contractor securing sub-contractors and suppliers. At same time Council staff were preparing contract documentation.
- Finance and Performance Committee meeting with project briefing and deputations held 28 April.
- Air quality air grab sampling commenced 28 April.
- Proposal received from preferred contractor on 28 April, with staff review completed 2 May.
- General terms and conditions of contract finalised 3 May.
- Informal briefing to the Insurance Subcommittee on insurance matters given on 6 May.
- 10 May: Insurance Subcommittee meeting (with morning site visit to CWTP).
- Letter of award issued to contractor 11 May.
- Site establishment commenced 12 May.
- Community support package approved 26 May and rolled out from 27 May.
- Oxidation ponds struggling with increased organic load leading to increased odour and a reduction in bird numbers due to non-conductive habitat for midges reported 26 May.
- Meeting with Ministry of Education to discuss school support 27 and 31 May.
- Removal of Trickling Filter media commenced afternoon Friday 3 June.
- Adaptive Recovery Action Plan presented 13 June.
- Audit & Risk presentation 15 June.
- Insurance Subcommittee presentation 16 June.
- Wastewater Treatment Plant Fire Communications Advisory Group first meeting 21 June.
- Afternoon and evening public meetings held at Bromley Community Centre Tuesday 28 June.
- Finance and Performance Committee presentation Thursday 30 June.

Community Support

- 2.6 As of Tuesday morning 28 June there had been 2,324 in zone grants made (\$464,800.00) and 151 out of zone grants (\$30,200.00). The number of in zone grants equates to 69% of all in zone eligible applicants.
- 2.7 The number of applications being received slowed drastically over the last two weeks of June.
- 2.8 A report is being provided to the reconvened Council meeting on 3 August to update the Council on the cross-agency community wellbeing response work stream, recommend a pathway for information and targeted support to continue, and recommend additional funding to enable this.

Social Recovery Plan

- 2.9 A Social Recovery Plan is being prepared that will include all the work streams in the community support packages including workshops, public meetings and financial support through partner agencies.

- 2.10 We are progressing development of the Social Recovery Plan with CDHB, Pegasus Health, Ministry for Social Development and Ministry of Education. We expect a first draft to be finalised first week of July and peer reviewed with partners and the Community Advisory Group. We expect to brief council 26 July and report to to the reconvened Council meeting on 3 August.

Support for Schools and Early Childhood Learning Centres

- 2.11 We have met with a number of school Principals and Managers of Early Childhood Education Centres together with the Ministry of Education to discuss support options.
- 2.12 The approach is being contributed to by Council and Ministry of Education as a partnership.
- 2.13 The Ministry have supplied air purifiers for schools and Early Childhood Learning Centres.
- 2.14 Seven schools and 19 Early Childhood Education Centres are receiving grants from Council.

Economic/Business Support

- 2.15 Staff have met with representatives from Christchurch NZ and the Christchurch Chamber of Commerce to discuss options for supporting businesses situated within the community support zone.
- 2.16 Follow up contact with affected business was made where it was identified that impact on workers was the main issue at the moment and that feedback and communication was key.
- 2.17 Ongoing engagement with businesses was identified.

Environmental and Health Monitoring as at end June

- 2.18 Six rounds of grab samples have been completed, which identified reduced sulphur compounds as being the primary components.
- 2.19 Hydrogen Sulphide has been shown as a good indicator gas of the area affected and it has been detected at levels which can cause annoyance and symptoms such as nausea, headache and eye/nose irritation.
- 2.20 A map of grab sample locations was shown.
- 2.21 Three continuous Hydrogen Sulphide monitors are in place (Bromley School and two residential locations) with a further six 4G continuous Hydrogen Sulphide monitors on order to be deployed mid-July.
- 2.22 A map depicting the placement location for the continuous monitors was shown.
- 2.23 Odour detection for Hydrogen Sulphide is 0.005 ppm however there is a wide range of sensitivity within the population and it was noted that this sensitivity decreases with age.
- 2.24 At concentrations substantially above the odour threshold leads to annoying and discomforting symptoms such as headaches and nausea.
- 2.25 The Worksafe TWA (8 hour) 5 ppm and STEL (15 minute) 10 ppm.
- 2.26 The Californian Office of Environmental Health Assessment (OEHHA) list the exposure level (one hour) for Hydrogen Sulphide gas at 0.03 ppm to avoid annoyance, nuisance, headaches and nausea. At this level it will be detected by 83% people and will be discomforting to 40% of people.
- 2.27 Ministry for the Environment ambient (one hour) guideline value is 0.005 ppm to avoid odour nuisance rather than specific health effects.

- 2.28 A graph showing recording results from one of the continuous monitors was shown.
- 2.29 Councils Ecologist confirmed that only Canada geese remain at the ponds and some shag species roosting in nearby trees. All other birdlife that relied on midges or their larvae as a food source have left the ponds. The collapse of the midge population at the ponds was reported as being due to reduced water quality.
- 2.30 An earlier Avian Botulism outbreak was not the reason for the reduction in bird numbers and neither were the chemicals used in the fighting of the fire.
- 2.31 Weekly meetings with the Medical Officer of Health and Environment Canterbury continue.
- 2.32 Home owners on both sides of the treatment plant have reported a black mould like staining appearing on painted exterior surfaces of their houses.
- 2.33 A specialist firm has carried out testing and mould types have been found to be typical for an outdoor environment with no types of concern identified.
- 2.34 Further investigation to determine causes of the paint discolouration is being undertaken.
- 2.35 Noise measurements taken along the Shortland Street site boundary confirm that the noise generated by the chipping unit is well below Construction Standards limits. Noise contours modelling for where the chipper will be placed for removal of media from the second Trickle Filter indicate that it will also be below these limits.

CWTP Interim Operations as at 30 June 2022

- 2.36 The Trickle Filter by-pass pipeline is complete and testing is underway.
- 2.37 The temporary pumps that were set up to pump-over from the aeration basins (converted clarifiers) to the existing clarifiers to support early growth of the sludge biomass are being disestablished as the 16 new permanent pumps are installed with commissioning expected to start in July.
- 2.38 The new pipework between the aeration basins (converted clarifiers) and the channels leading to the existing clarifiers is being installed.
- 2.39 The options assessment that is currently underway for replacement of the trickle filters will be completed November / December 2022
- 2.40 Interim solution has been designed to operation for up to five years.
- 2.41 Critical spares are being kept on site and increased maintenance has been scheduled to mitigate the reduced resilience in the treatment process that has resulted from the loss of the Trickle Filters.

Oxidation Ponds

- 2.42 Oxidation ponds continue to perform poorly given the high organic loads and cool temperatures.
- 2.43 Once the interim solution (activated sludge plant) has been commissioned it is expected to take 8 weeks for the ponds to recover to a level where odour emissions have reduce to acceptable levels. This is expected to be achieved in September.
- 2.44 Wastewater discharge to the outfalls continues to exceed standard values for Faecal Coliforms and Enterococci, we are notifying Environment Canterbury and the Medical Officer of Health.
- 2.45 Beach sampling increased to twice per week and the results are within standard values.

Trickling Filter Media Removal

- 2.46 Five hundred and twenty-five tonne of filter material had been removed and delivered to landfill as of 23 June.
- 2.47 Progress to date is promising, first structure will be completely emptied by 1 July - six weeks ahead of schedule.
- 2.48 Construction of ramp 2 will be completed 1 July - as scheduled.
- 2.49 Removal of material from second structure will commence 4 July - as scheduled.
- 2.50 Currently on track to complete removal ahead of 7 September.
- 2.51 Image of media removal progress shown.

Communications

- 2.52 Daily rolling blog updated 2-3 times a day.
- 2.53 Website updated 2-3 times a week.
- 2.54 Video now up and more in the pipeline.
- 2.55 Weekly e-newsletter and in hard-copy.
- 2.56 A2 posters updated on info panels at community providers and Eastgate Mall.
- 2.57 Flyers distributed to promote community meetings.

Coming Up

- 2.58 7 July: South New Brighton Community Meeting.
- 2.59 13 July: Public webinar.
- 2.60 Permanent pumps installed and operating in July with progressive improved in quality of wastewater being discharged to Oxidation Ponds.
- 2.61 Continuous 4G air monitoring devices being rolled out over the first two weeks of July.
- 2.62 Ramp 2 expected to be completed 1 July.
- 2.63 Removal of material from second Trickling Filter structure commences 4 July.
- 2.64 Social Recovery Response Plan.

Community Feedback

- 2.65 First two public meeting were held at the Bromley Community Centre on 28 June (afternoon and evening sessions). Wide range of questions predominately focusing on operational changes to the plant, cause of the odours coming from the plant, property damage (paint discolouration/corrosion) and health and wellbeing concerns.
- 2.66 First formal meeting of the WWTP Communications Advisory Group was held 21 June. Meeting went well with strong engagement.

Community and Public Health

- 2.67 Doctor Cheryl Brunton from Community and Public Health gave a presentation to the Finance and Performance Committee.
- 2.68 Key messages included:
 - An internal project team has been established at CPH to co-ordinate input with the aim of delivering coordinated advice and support to CCC and ECan regarding

the Christchurch WWTP odour in order to achieve the best possible outcomes and help mitigate/reduce harm to the community.

- Linked CCC to CDHB Planning and Funding about possibility of free GP visits.
- Most local practices (except one) report no increase in consultations in relation to the health effects of the odour. Reporting of symptoms related to the odour is mostly from people attending practice for other reasons.
- Commonly reported symptoms are nausea, headaches, eye and throat irritation, skin irritation, worsening asthma and sleep disturbance.
- People's mental wellbeing is being affected negatively - reporting distress, frustration and sense of powerlessness. Some practices providing support for mental health/wellbeing for patients affected by the odour.
- A health register will not directly address people's health needs.
- The physical and mental health effects being experienced by residents are consistent with what might be expected given the measured concentrations of hydrogen sulphide at the sites monitored so far.
- These health effects would be expected to resolve when production of the odour is reduced back to pre-fire levels as result of the measures being taken by CCC.
- At these concentrations, it is unlikely that there will be long term health effects from exposure.

Reporting

- 2.69 Staff are providing updates fortnightly to Council and Finance & Performance Committee meetings covering the operational status of the plant, actions taken since the last update, actions underway and next steps.
- 2.70 Monthly reporting to the Insurance Subcommittee covering contractor performance and detailed reporting on insurance matters.
- 2.71 Staff will also be reporting to Health & Safety and Audit & Risk Committee meetings on matters relating to health and safety and risk.
- 2.72 Staff will also report to Community Board meetings.

3. Current Activities and Next Steps

- 3.1 A Power Point presentation from staff will be provided at the meeting on the activities that have been undertaken since the Finance and Performance Committee meeting on the 30th of June and the next steps.

Attachments Ngā Tāpirihanga

There are no attachments for this report.

Signatories / Ngā Kaiwaitohu

Author	Michael Croucher - Senior Programme Manager
Approved By	Jane Davis - General Manager Infrastructure, Planning & Regulatory Services

23. Christchurch Wastewater Treatment Plant - update on community wellbeing response workstream

Reference / Te Tohutoro: 22/945962

Report of / Te Pou Matua: Gary Watson, Manager Community Partnerships and Planning,
Gary.Watson@ccc.govt.nz

General Manager / Pouwhakarae: Mary Richardson, General Manager Citizens and Community,
Mary.Richarson@ccc.govt.nz

1. Purpose of the Report Te Pūtake Pūrongo

- 1.1 The purpose of this report is to update the Council on the cross-agency community wellbeing response work stream, recommend a pathway for information and targeted support to continue, and recommend additional funding to enable this. This report is scheduled to be considered at a reconvened meeting of the Council on 3 August 2022.

2. Officer Recommendations Ngā Tūtohu

That the Council:

1. Notes the inter-agency community wellbeing response actions being delivered to support people adversely affected by the aftermath of the Wastewater Treatment Plant fire.
2. Endorses a targeted approach to the continuing information and community wellbeing support to people adversely affected.
3. Approves the allocation of \$160,000.00 to enable targeted local support to continue.

3. Update on the community wellbeing response workstream

- 3.1 The Council is collaborating with organisations including Pegasus Health, Te Whatu Ora – Health NZ (Community and Public Health), Ministry of Education and Ministry of Social Development, and community partners He Waka Tapu, The Loft, Bromley Community Centre and Ngā Hau e Wha Marae.
- 3.2 The agencies collaborating in the wellbeing response remain in close contact with each other and with local networks and communities, through regular working group meetings and ongoing liaison.
- 3.3 The Communications Advisory Group, comprising community members, Elected Members and staff, has been meeting each week, to provide advice and input on information channels and needs.

Update on actions

- 3.4 Information:
 - The comprehensive programme of information and updates continues to be communicated via online and hard-copy channels. This includes updates on the Council website, a weekly email newsletter going to about 350 people and organisations, Newline stories and social media posts and daily blog updates, four flyer updates and information booklets dropped in letter-boxes to more than 3,300 residents. Physical copies of our

weekly newsletters and 1.8m-high information plinths are also available at community providers' locations.

3.5 Financial support for households:

- The Council approved up to \$1 million on 26 May 2022 towards supporting community wellbeing actions.
- \$700,000.00 was allocated for support for households through individual payments. \$517,800.00 has been distributed as of 20 July 2022 (made up of 2,371 in-zone payments and 218 out-of-zone payments). \$35,400.00 has been paid direct, towards household electricity bills. The individual payments continue to be available to residents, however, distributing agencies report that requests for them has fallen in recent weeks.

3.6 Schools and early learning centres' support:

- Support to the value of \$200,000.00 has been made available to schools and early childhood centres. Recipients are using the funding support towards activities that benefit children and families in dealing with the impacts of the odour on their learning and school/ELC environment.
- It is proposed that some further schools receive this funding support. This is in response to needs reported by schools, Ministry of Education, local Councillors, the Communications Advisory Group and others.

3.7 Liaison with local community organisations and networks:

- The key community-based organisations providing support to communities and individuals have received \$60,000.00 towards their additional administration costs.
- Community development teams in the Waikura Linwood-Central –Heathcote and Waitai Coastal-Burwood boards have liaised with over 120 local groups such as churches, schools, community organisations. They asked them about the impact of the Waste Water Treatment Plant (WWTP) fire on their activities and staff, any changes in levels of community contact, whether they are accessing the information available and their suggestions on other supports required. They heard that information on the plant's progress continues to be of high interest. A number of groups reported they were continuing to hear complaints about the odour but only a few groups reported that their activities and programmes were negatively affected by the odour.

4. Next steps in the wellbeing response

- 4.1 The community wellbeing response needs to be agile and adapt to changing community needs over the duration of the situation with the WWTP.
- 4.2 Based on what we are being told by the community Communication Advisory Group, organisations we are collaborating with in our response, community-based groups, and Elected Members, it is recommended that the wellbeing response adapts to a second phase of action and focus.
- 4.3 A targeted approach is recommended. There is a range of reactions and wellbeing and environmental concerns experienced by some people living nearby and downwind of the WWTP, or those living elsewhere and affected by the odour. A targeted approach will enable providers and connectors in the community to focus their effort and outreach on supporting those most affected by the odour and encountering new health or wellbeing issues, or exacerbating pre-existing conditions.
- 4.4 To remain responsive to need, further iteration may be required in the future.

5. Recommended actions to target support

5.1 The following initiatives are recommended for the next phase of the response:

- 5.1.1 **Support schools and early learning centres' activities:** Increase the number of schools and early learning centres receiving funding support towards activities, events or other activities helping children and their families manage the effects of the odour. Extended support will include schools in the Southshore and South Brighton area and others identified by the Ministry of Education and others.
- 5.1.2 **Encourage science enquiry learning:** Provide funding to support the development of an education programme for schools stimulate understanding about the WWTP and the impacts of the fire. This project will be delivered in partnership with the Ministry of Education, participating schools, and Council subject matter expertise
- 5.1.3 **Target support to help removing the barriers primary health services:** Reduce barriers to primary health and mental wellbeing services by providing discretionary funding that can be used to subsidise health visits or transport costs to attend appointments, or other appropriate support.
- 5.1.4 **Continue to provide comprehensive information:** Continue to provide comprehensive and regular information about the WWTP project's progress through a range of channels, how and where to access information and support services, answer health and environmental questions.

Additional action over coming weeks includes a pamphlet letterbox drop and a webinar by health professionals to discuss health and wellbeing questions and concerns.

The letterbox drop will be to households in the already-identified zone of affected households (approximately 3,380 homes) and an extended area including Southshore and South Brighton (approximately 2,000 homes). It will include details of who and where to go for support, WWTP project update, and environmental and health information and tips for managing the situation. The pamphlet will also be readily via community libraries, community agencies and people working with or visiting vulnerable people.

- 5.1.5 **Support local community activities:** This will support small local groups to organise or support events or activities that foster community wellbeing. This funding could be augmented from Community Board Discretionary Response Funds.

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
n.a.	n.a.

Confirmation of Statutory Compliance / Te Whakatūrutanga 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	Adair Bruorton - Principal Advisor Citizens and Community Mary Richardson - General Manager Citizens & Community Gary Watson - Manager Community Partnerships & Planning
Approved By	Mary Richardson - General Manager Citizens & Community