

**Joint Briefing of the  
Waitai Coastal-Burwood Community Board and  
Waikura Linwood-Central-Heathcote  
Community Board  
NOTES - ATTACHMENTS**

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**Date:** Monday 30 May 2022  
**Time:** 5.02pm  
**Venue:** Via Audio/Visual Link

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# Christchurch Wastewater Treatment Plant

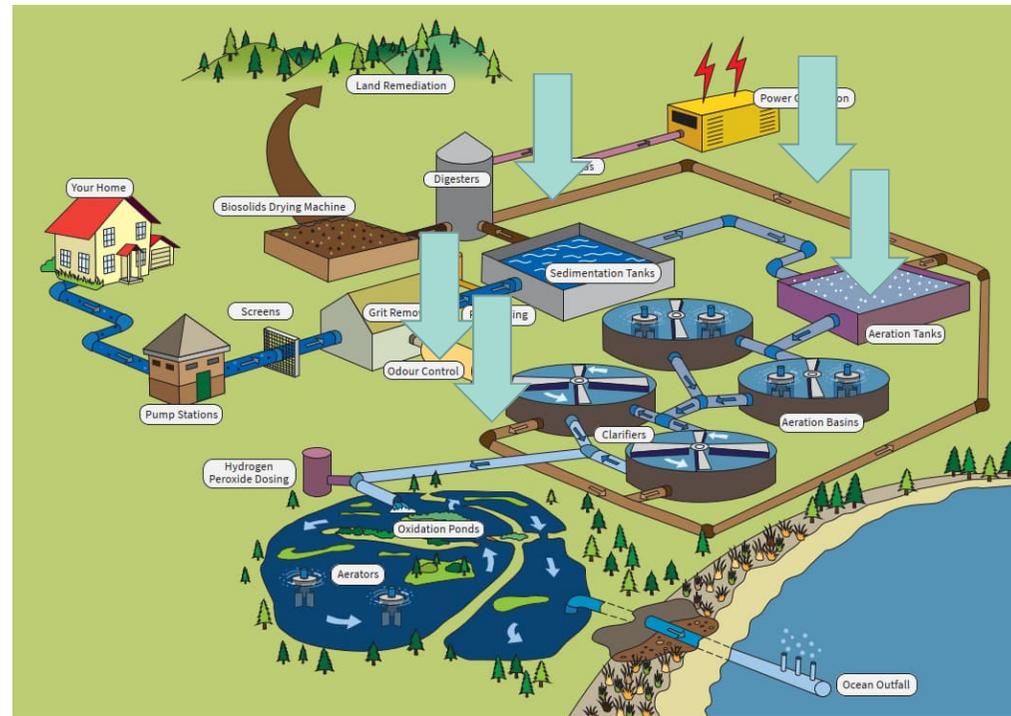
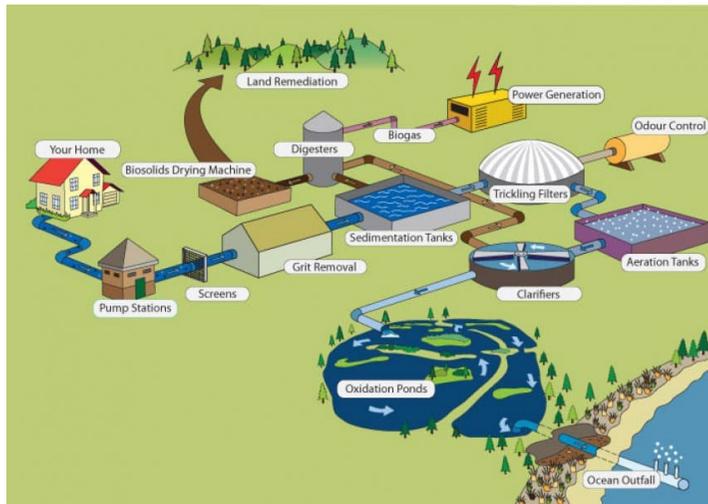
Fire recovery joint Community  
Board briefing  
30 May 2022

## Overview of today's presentation

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- Wastewater treatment plant interim operation
- Oxidation pond performance
- Trickling filters media removal
- Environmental monitoring
- Community support
- Communications update
- Reporting

# Interim operation of wastewater treatment plant



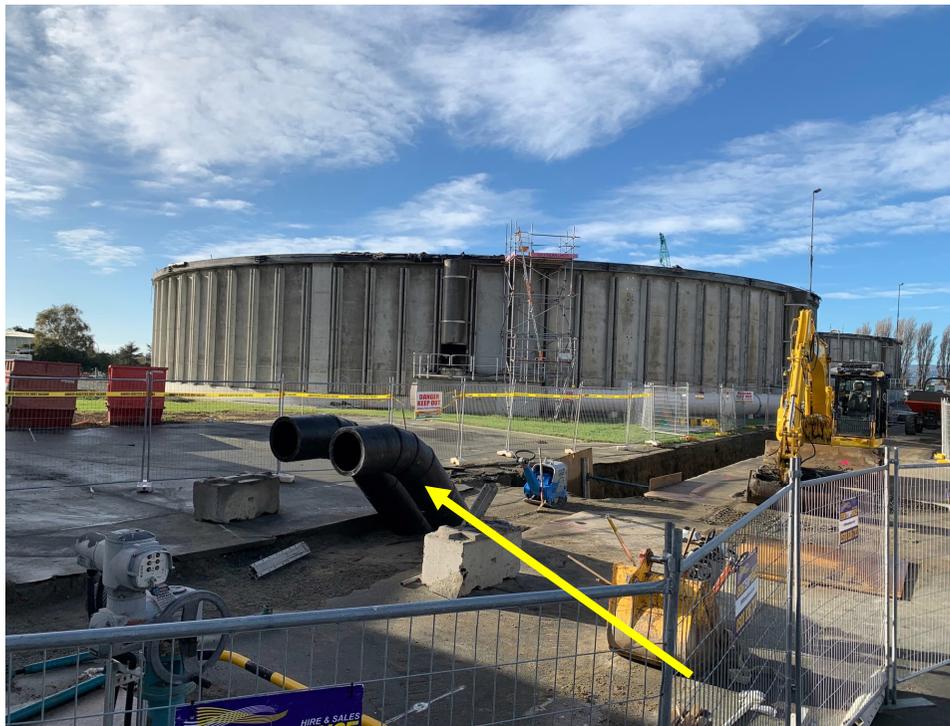
## Increase solids removal – polymer dosing unit



## Increase oxygen – hydrogen peroxide dosing

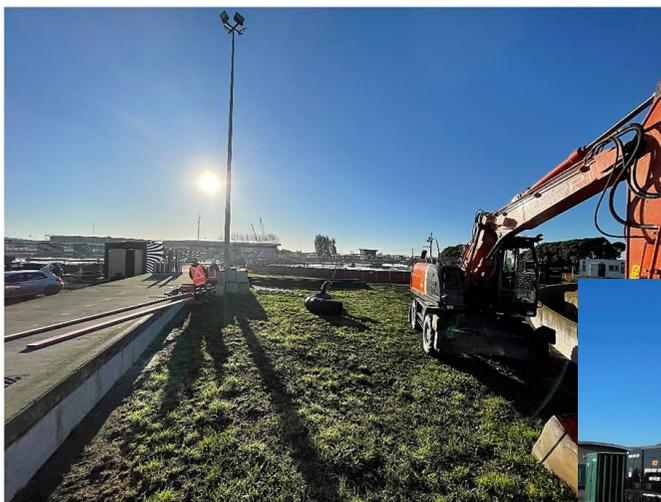


## Bypass trickling filters



- Bypass pipeline construction
- Trenching complete
- Pipeline 80% installed

## New activated sludge treatment – converted clarifiers



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## New activated sludge treatment – power



- Power cables to the new aerators in the converted clarifiers
- Aerators now on site power (taken off the generators)

## Increase oxygen – pond aerators



## Pond management – breaking up rafts / monitoring

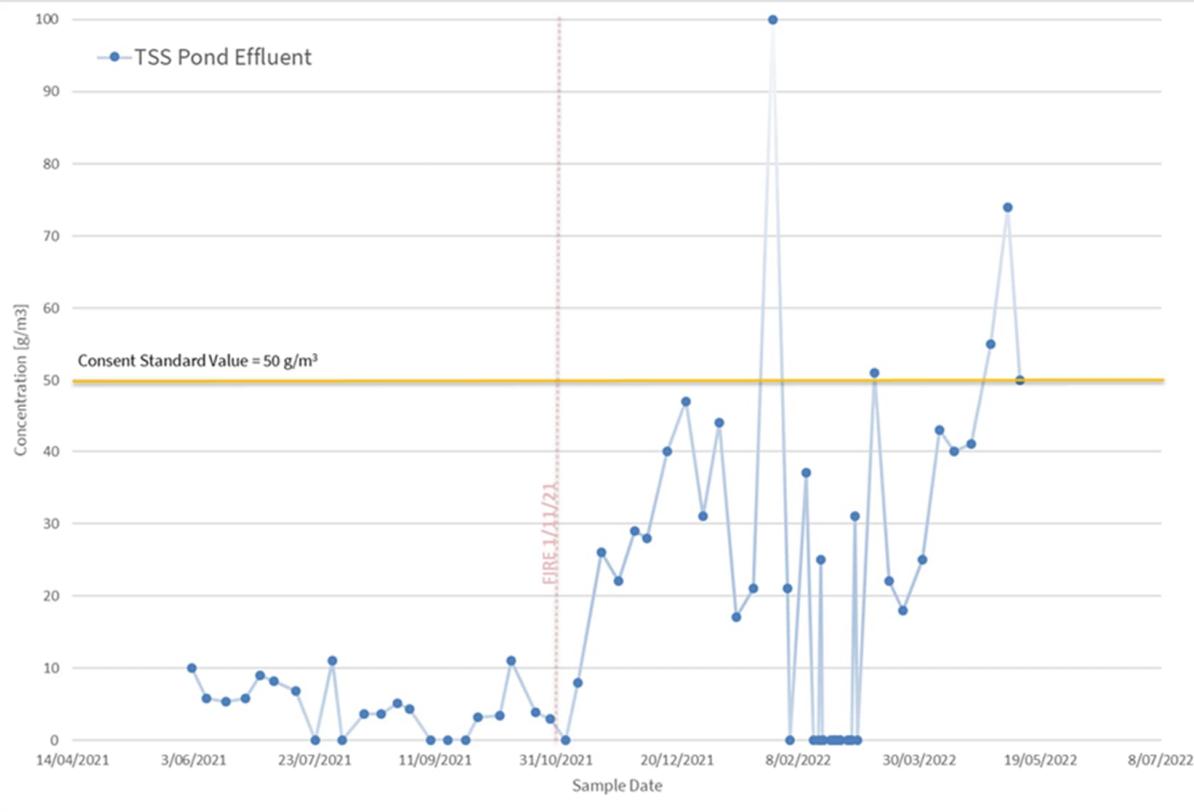


## Oxidation Ponds

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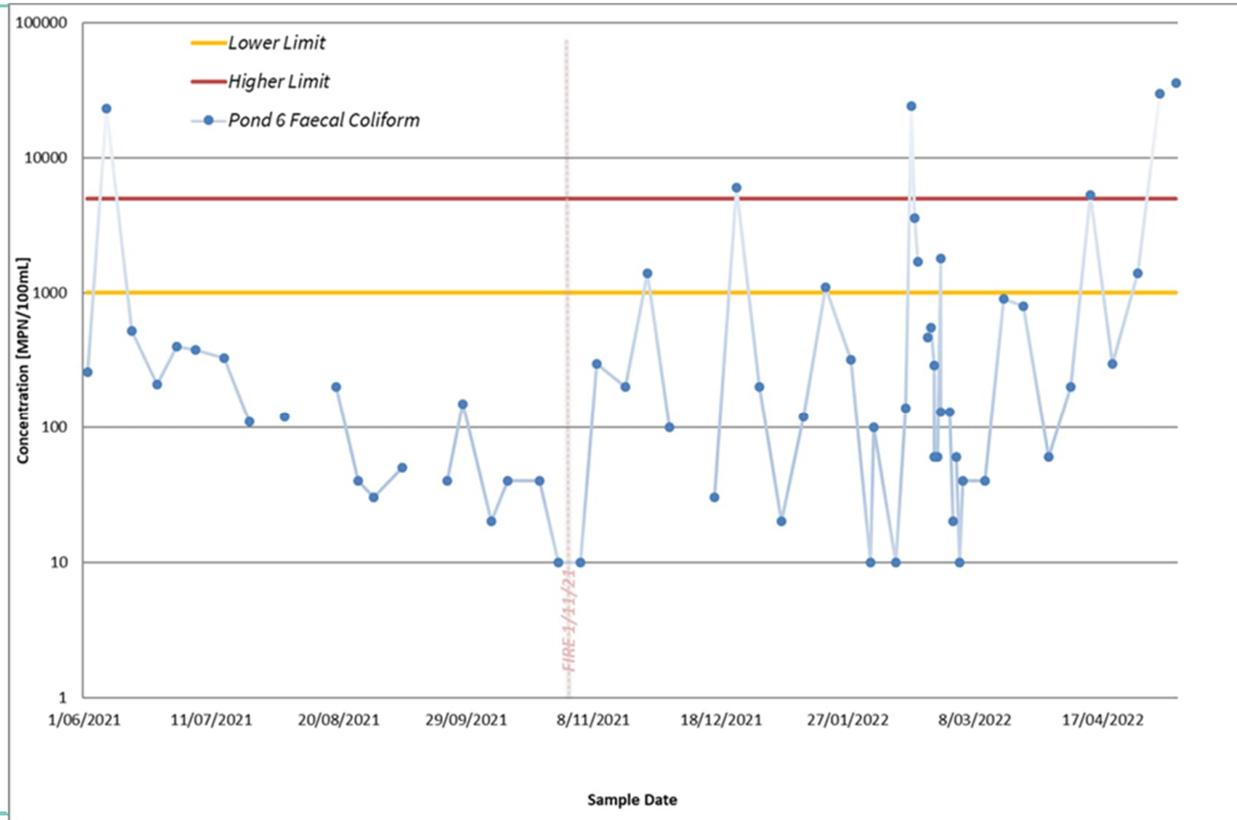
- Have been receiving a higher load of organic material since the fire
- Performed well over the summer period
- Cooler temperatures, reduced sunshine hours and less wind affecting performance
  
- Seeing a deterioration in water quality over last few weeks
- Consequent increase in odours – largely due to hydrogen sulphide
  
- Unsuitable habitat for midges and have seen a reduction in bird numbers

# Oxidation ponds – suspended solids



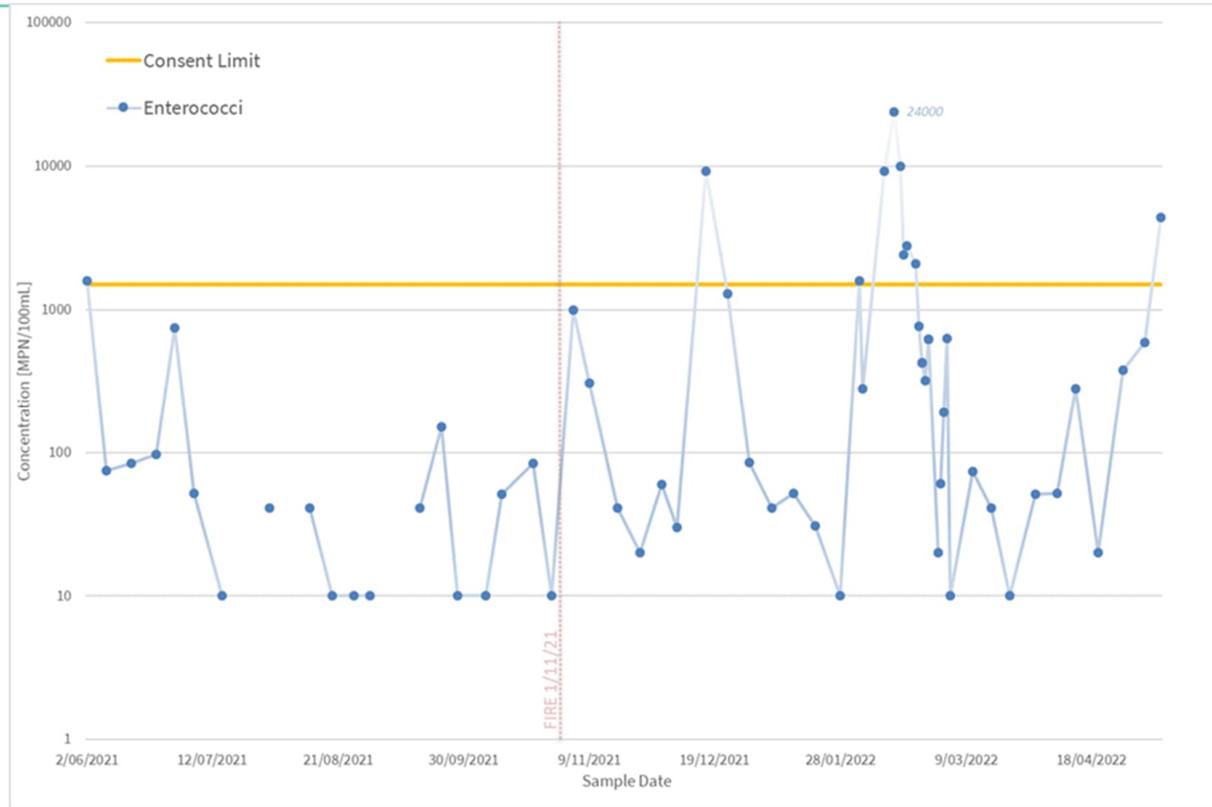
31 May 2022

# Oxidation ponds – faecal coliforms



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# Oxidation ponds – Enterococci



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## Coastal water quality

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Weekly samples for Faecal coliforms and Enterococci over the past 12 months

- New Brighton beach surf club
  - High Faecal coliforms following February storm event
  - Enterococci all within standard
- South New Brighton beach
  - Faecal coliforms all within standard
  - Enterococci all within standard
- Sumner beach surf club
  - High Faecal coliforms following February storm event
  - High Enterococci in January – second sample within standard

## Trickling filter media removal

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### Site works undertaken to date

- Delivery of machinery and materials
- Earthworks
- Site clearance
- Sheetpiling for Ramp 1 complete
- First layer of gravel for Ramp 1 complete

### This Week

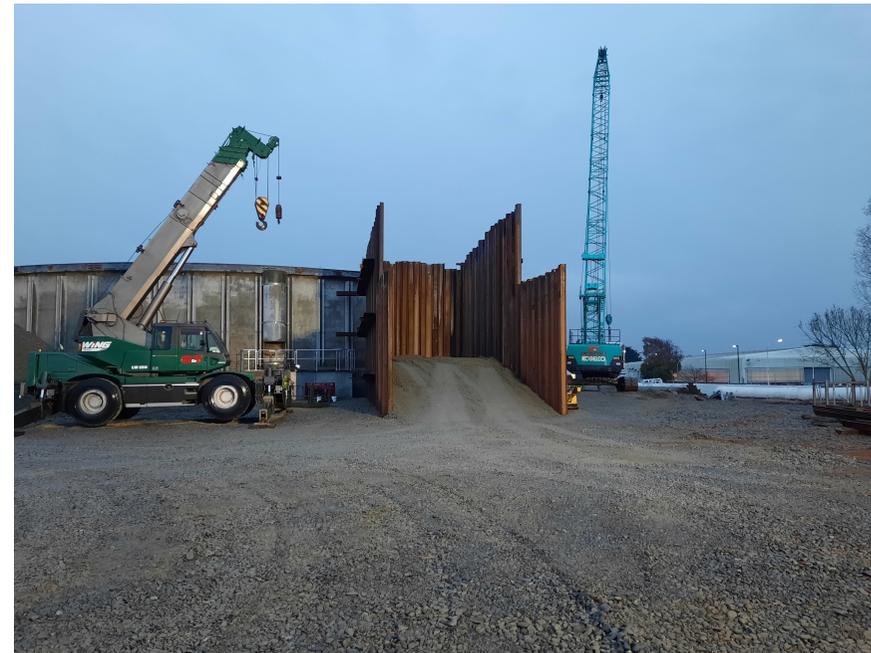
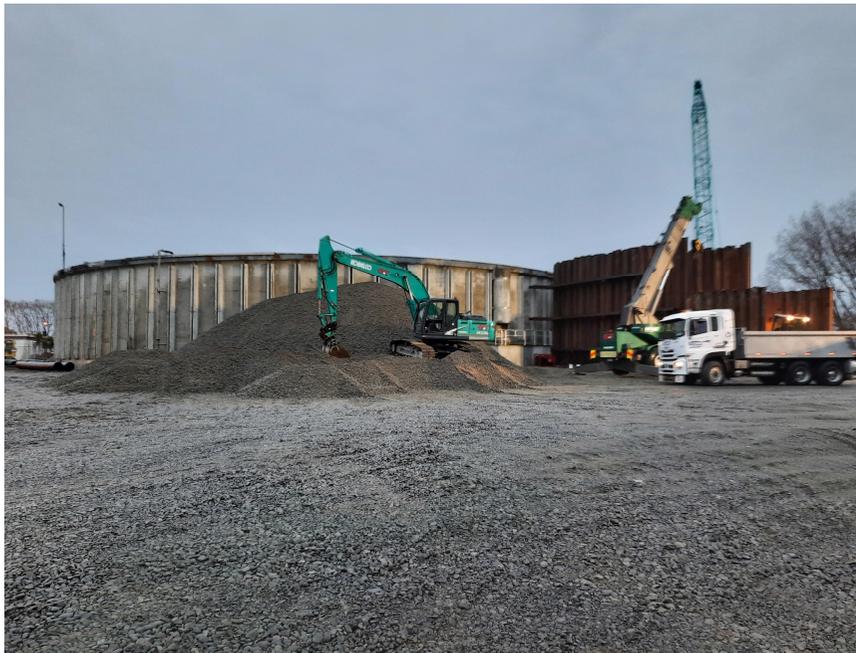
- Completion of Ramp 1
- Laying of concrete pads for chippers and compactors
- Full scale removal of media scheduled to commence 6 June

## Drone footage (Captured Wednesday 25 May 2022)



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## Photos taken this morning



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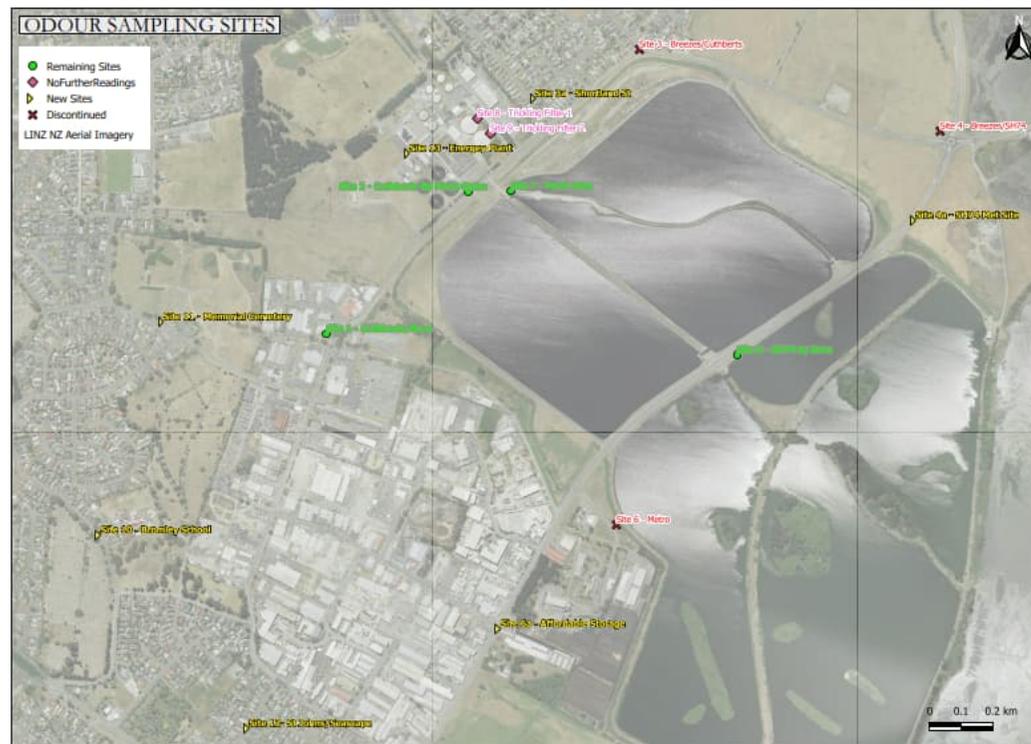
## Environmental monitoring

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### Air quality testing to characterise odour

- Monitoring on 28 April, 12 May, 18 May, 25 May
- Odour largely due to reduced sulphur compounds – hydrogen sulphide, mercaptans and more
- These compounds can be detected at extremely low concentrations
- Odour issues across the city depending on wind strength and direction
- Concentrations decrease rapidly with distance from the plant
- Continue to review sites

# Environmental monitoring – sampling locations



31 May 2022

## Environmental monitoring – evaluation of results

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### Collaboration with Environment Canterbury and Community Public Health

Meetings weekly to discuss –

- Monitoring results in context of prevailing wind direction
- Monitoring sites across plant and community
- Inform public health assessment

### Schools and Early Childhood Education Centres

- Engagement with the Ministry of Education and local schools

### Black discolouration

- Provider located to both analyse samples and air borne spore traps.

## Environmental monitoring – next steps

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### Evaluate results to date

- Review results with partners
- Compare with odour complaints / reports
- Confirm ongoing sampling locations
- Confirm parameters to test for
- Assess continuous monitoring for hydrogen sulphide – leased instruments

## Community support

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- Context
- Objective
- Agreed Package
- Financials

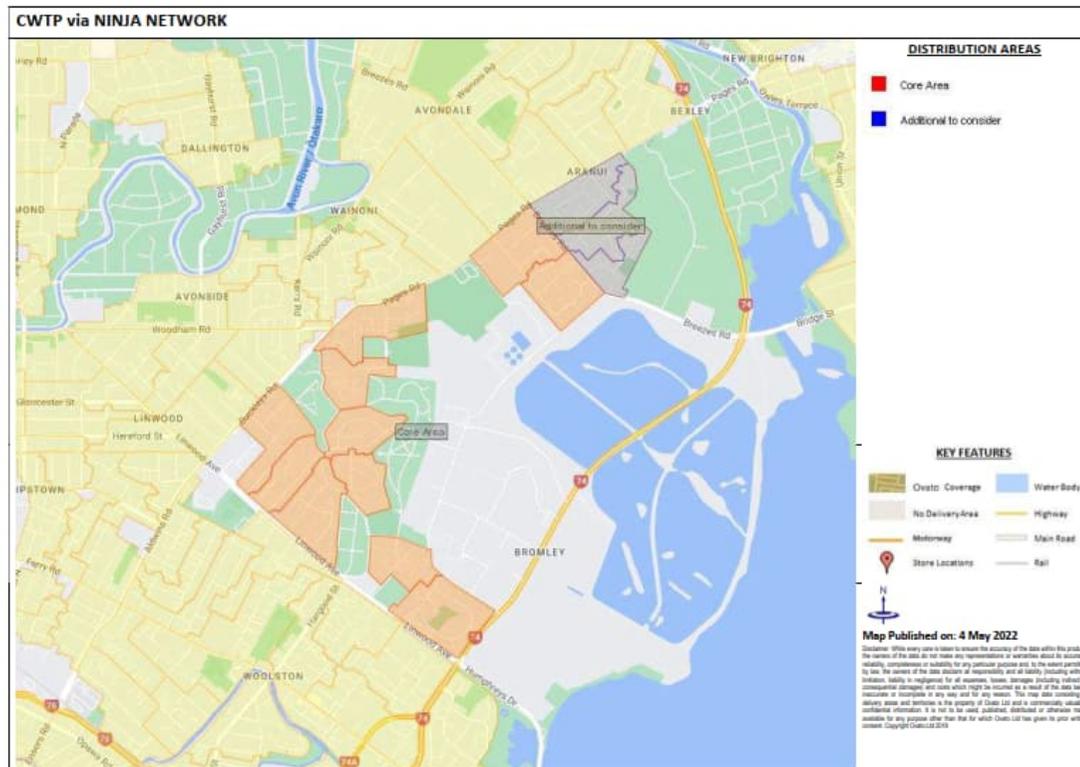
## Context

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The proposed responses are based on the following understand:

- We have listened to the community feedback when designing this package
- Residents have been living with horrible odour as a result of the fire at the Waste Water Treatment plant
- There are 3380 households in the direct vicinity
- There are a further properties experience a level of discomfort
- One of the main sources of stench from the plant will be eliminated by early September 2022 (4 months).

## The Area Identified As Most Affected



The area was chosen due to an assessment of the odours and the FIDOL factors – frequency, intensity, duration, odour character and location.

## Objectives

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- Alleviate some the immediate financial impacts for local residents
- Improve community access to information
- Work with community partners to increase access/referral to other supports.

## Agreed response package

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1. Financial support for households
2. Support package to schools
3. Referral process to other supports
4. Planned workshops to deliver guidance around liveability.

## Household Financial Support

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Funding provided to:

- Households who are resident in the most affected area (3380)
- Contribute to costs incurred by residents, for example
  - Increase power to run fans, dehumidifiers, air conditioners, operating clothes dryer etc
  - Purchase of appliances etc. fan
- Contribute to cost of specialist services, for example GPs & other professionals
- Contribute to relief options, for example
  - For example, Petrol voucher or night's accommodation for someone to get away from smell for a night/weekend

## How financial support distributed

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Essential that:

- Available as quickly as possible
- No requirement for invoices just proof of address
- Has no impact on current financial support residents may be eligible to receive.
- Easy to access
- Flexible and responsive
- Minimal transaction cost (ie money get to people not spent on administration)

Therefore propose to distributed

- Partnership with community agencies
  - With exception of power and firewood which will be directly by Council or in partnerships

## Distributed in Partnership Community Agencies

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Distributed in partnership with community agencies

- With exception of power which could be directly by Council or in partnerships

Rationale

- Larger number of access points
- Community groups can also link people to other supports
- Less cost on administration
- Relationship in place

## School Support

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- Objective
  - To provide relief to students and staff
- Ministry of Education has identified 23 schools including Early Learning Centres
- Council is meeting with MOE and Principals within the next 7 days to consider support options.

## Objectives of Community Information

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Ensure residents are:

- Informed and empowered;
- Know where to get support;
- Have practical options to minimise distress ie heat pump hints, safety around using smell elimination options etc

Ensure other groups and agencies know what is available and can refer people to supports.

## Financials

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What		
Household Support & referral	3380 households @\$200 per H/H Discretionary allocations on medical grounds. Community support & admin	\$800,000
School Support	Lump sum	\$200,000

SOURCE - Funding from identified operational savings in F22

## Where to from here:

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- Report signed off by Finance and Performance 26 May 2022
- Finance released to the partner agencies to allow funding allocation available from 30 May 2022
- Community information workshops calendar published 8 June 2022
- Ongoing conversations with Community Public Health, Ministry of Social Development and Ministry of Education to look at partnership support options
- Evaluate and monitor the support package
- Information booklet will be in eligible peoples mail boxes by Monday (today).

## Communications update – in the past two weeks

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- Start Works Notice distributed
- Rolling blog established on website, updated at least 2-3 times daily
- Weekly e-newsletter
- Website updated regularly 2-3 times a week with information
- Q&As updated
- Community support package information
  - Booklet to homes
  - Newslines
  - social media
  - e-newsletter and hard-copy e-newsletter
  - internal comms information for staff
  - Q&As for providers and customer service developed
- Information panels for community providers and Eastgate Mall

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## Communications update – coming up

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- Continuing the daily rolling blog info and updates
- Media opportunity on-site post Queens Birthday Weekend
- Responding to questions and updates about community support – continuing developing Q&As
- Video development
- Infographic development ahead of excavation starting next week
- Submersible pumps updates
- Weekly e-newsletter, hard-copy newsletter, A2 poster for info panels
- Continuing to update website with new information 2-3 times a week.

## Meetings & Reporting - coming up

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- Meeting with Ministry of Education – 2 June
- Three Waters Infrastructure and Environment Committee - 8 June
- Council - 9 June
- Audit and Risk Committee – 15 June
- Insurance Subcommittee – 16 June
- Community Meeting - end of June
- Weekly catch-ups with Environment Canterbury and Canterbury District Health Board

