

# RECENTLY RELEASED LGOIMA RESPONSES:

## Fluoride and Chlorination of water - updated 30.05.2023

### Releases:

1. All communication between the Mayor and anyone else that discussed the subject or fluoridation/fluoride anywhere within the communication – released on 30/05/2023 .....2
2. All policy papers and/or advice prepared for the mayor and/or councillors about fluoridation – released on 30/05/2023 .....3
3. Details on which chemical fluoride compounds will be used to fluoridate Tasman’s water supply- released on 16/03/2023 .....3
4. Where will they be sourced from? - released on 16/03/2023[Please refer Q3’s response].....3
5. Will the concentrations and purity of the materials to be used in fluoridation fully standardised, batch-tested and documented as a legal requirement? - released on 16/03/2023[Please refer Q3’s response].....3
6. Are the fluoridation compounds proposed to medicate the public water supply meet British Pharmaceutical (BP) or United States Pharmaceutical (USP) - released on 16/03/2023[Please refer Q3’s response].....3
7. Does your Council put fluoride in drinking water- released on 07/03/2021 .....3



1. All communication between the Mayor and anyone else that discussed the subject or fluoridation/fluoride anywhere within the communication – released on 30/05/2023

Please find **[below]** - Combined Emails\_Redacted.pdf. Some information has been withheld under section 7(2)(a) of the LGOIMA to protect personal privacy.

**From:** [Tim King](#)  
**To:** [fluoride@health.govt.nz](mailto:fluoride@health.govt.nz)  
**Subject:** Director General of Health - Fluoridation  
**Date:** Thursday, 3 March 2022 4:01:46 pm  
**Attachments:** [image194205.png](#)  
[image958713.png](#)  
[Director General of Health - Fluoridation .pdf](#)

---

Tēnā koe

Please see attached letter regarding the direction to add fluoride to the Tasman District Council's large water supplies.

Ngā mihi

Tim King

**Tim King**

Koromatua | Mayor

DDI+64 (27) 2448202 | **Mobile**+64 27 244 8202 | [Tim.King@tasman.govt.nz](mailto:Tim.King@tasman.govt.nz)

Private Bag 4, Richmond 7050, NZ



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janine.dowding@tasman.govt.nz  
tim.king@tasman.govt.nz

3 March 2022

Director-General of Health  
PO Box 5013  
Wellington 6140

[fluoride@health.govt.nz](mailto:fluoride@health.govt.nz)

Tēnā koe Dr Bloomfield

### Concerns regarding the direction to add fluoride to the Council's large water supplies

Thank you for your letters of 11 November and 15 December 2021 regarding fluoridation of public water supplies. As requested in the last letter, we have provided the Ministry of Health with information on our fluoridation readiness.

We are writing to raise concerns about the anticipated instruction from the Director-General of Health to add fluoride to our large water supplies and, in particular, the timing of that instruction. Our concerns are largely premised around the following:

- the current priority for the Council to comply with the Water Services Act (WSA) 2021; and
- the associated additional demands on sector resources and funding to implement processes and infrastructure to comply with the new regulatory requirements of the WSA 2021.

We are also aware that in the current Covid-19 environment, the potential for fluoridation to further inflame public sentiment amid heightened anti-vaccination and anti-mandate views is very real. The provision of safe and secure water is a top priority for the Council. We have been progressing with a significant capital works programme over the last five years to build new and upgrade existing water treatment plants complying with the drinking water standards. We included \$11 million funding in our Long Term Plan (LTP) 2021-2031 to complete that programme.

We are also taking a proactive approach to our operational programme, by planning and implementing the new Water Services Act 2021 compliance requirements. These programmes are adversely impacting on the Council's debt and rates in the current financial year and subsequent years of the Long Term Plan.

For example, in our Annual Plan 2022/2023, we are proposing additional expenditure for one new water compliance officer of \$95,000, plus additional expenditure of \$0.86 million for monitoring equipment, monitoring and sampling costs, source water risk management plans, water safety plans and other related work. These costs are in the order of an additional 1.18% on rates.

**Tasman District Council**  
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24 hour assistance

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Richmond 7050  
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Phone 03 543 8400  
Fax 03 543 9524

**Murchison**  
92 Fairfax Street  
Murchison 7007  
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Phone 03 523 1013  
Fax 03 523 1012

**Motueka**  
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PO Box 123  
Motueka 7143  
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Phone 03 528 2022  
Fax 03 528 9751

**Takaka**  
14 Junction Street  
PO Box 74  
Takaka 7142  
New Zealand  
Phone 03 525 0020  
Fax 03 525 9972

This figure is on top of higher costs from inflation, including contract works, construction, materials, insurances, and salaries, which are also pushing up the Council's rates increases to our ratepayers. The cumulative effect of these programmes strains our community's ability to fund the required infrastructure and maintain them over time.

We are also engaged in the Government's Three Waters Reform programme and implementing our obligations under the National Policy Statement on Urban Development. We need to ensure an adequate supply of homes for our community by growing our three waters' network. Collectively, these strands of work are straining our organisational capacity and capability whilst maintaining business as usual infrastructure services.

We are also taking a proactive approach to our operational programme, by planning and implementing the new Water Services Act 2021 compliance requirements. These programmes are adversely impacting the Council's debt and rates.

Initial cost estimates for the capital works required to fluoridate our five large water supplies, if instructed, is about \$1.3 million and the cost estimates for the operations and maintenance is about \$128,000 per annum. At this stage, these budgets have not been included in our Long Term Plan 2021-2031, nor our upcoming Annual Plan 2022/2023.

We request the Director General of Health delay the direction for at least three years and work with the new Water Service Entities in funding and delivering the required fluoridation infrastructure. This delay would also enable councils to provide for funding through the preparation of their Long Term Plans 2024-2034.

Thank you for the opportunity to comment and we look forward to your response.

Ngā mihi



Tim King  
Mayor  
Te Koromatua o Whakatū



Janine Dowding  
Chief Executive  
Tumu Whakarae

**From:** [REDACTED]  
**To:** [Chris P Hill](#); [Stuart Bryant](#); [Barry Dowler](#); [Brent Maru](#); [Trindi Walker](#); [Mike Kininmonth](#); [Christeen Mackenzie](#); [Dan Shallcross](#); [Glen Daikae](#); [Jo Ellis](#); [Mark Greening](#); [Kit Maling](#); [Tim King](#); [Celia Butler](#)  
**Subject:** Fluoridation of our drinking water  
**Date:** Tuesday, 14 March 2023 10:32:46 pm

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*Dear Mayor and councillors,*

**May I let you know about my concerns please?**

The fluoride push is a very serious matter that matters to all of us.

- 1) Who wants stained drinking water and even paying for it ?
- 2) Also I would like you to know that you are liable for the consequences.
- 3) The finances for that project would be an enormous extra ballast next to the costs of the present flood repairs.

I am aware that the Director General of Health (DG) has recently sent a Directive to our council to start fluoridation. This is against the wishes of many people in this community. Please stand up for our community as you have been elected to do.

- Fluoride is now well established as a [neurotoxic even at the levels present in fluoridated water](#).
- The legislation that enables the DG to direct councils does not require the DG to consider any potential adverse health effects.
- Most countries in the world, including 97% of Europe, [do NOT fluoridate their water supply](#)
- In 2018 the New Zealand Supreme Court ruled that [“fluoridation is compulsory medical treatment”](#)
- The research the DG cites in making his decision does not support his claims:
- The [Cochrane Review of 2015](#) found most studies had been carried out before 1975 and may not be relevant today with the widespread use of fluoridated toothpaste
- The [Sapere Report](#) uses data from 2008 is out of date and had too little data to make any firm conclusions
- The [New Zealand School Dental Statistics](#) shows there is no discernible difference in decay rates between fluoridated and non-fluoridated areas.
- With faith in your conscience
- [REDACTED]

**From:** [Leonie Rae](#)  
**To:** [Robyn Scherer](#)  
**Subject:** FW: Letter: community water fluoridation - next steps  
**Date:** Thursday, 3 November 2022 3:22:58 pm  
**Attachments:** [image001.png](#)  
[Tasman District Council.pdf](#)

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For circulation to Tim and Councillors

**Leonie Rae** | CEO Office  
Tumu Whakarae | Chief Executive Officer  
DDI +64 3 543 8987

---

**From:** Ben Volz <Ben.Volz@health.govt.nz> **On Behalf Of** Fluoride  
**Sent:** Thursday, 3 November 2022 3:14 pm  
**To:** Leonie Rae <leonie.rae@tasman.govt.nz>  
**Subject:** Letter: community water fluoridation - next steps

Kia ora Leonie

Please find attached a letter from the Director- General of Health regarding community water fluoridation- next steps.

Ngā mihi,

Oral Health Team  
Manatū Hauora/Ministry of Health



\*\*\*\*\*

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PO Box 5013  
Wellington 6140  
New Zealand  
T+64 4 496 2000

3 November 2022

Leonie Rae  
Chief Executive  
Tasman District Council  
[Leonie.rae@tasman.govt.nz](mailto:Leonie.rae@tasman.govt.nz)

Tēnā koe Ms Rae

### **Community water fluoridation**

Thank you for providing information earlier this year on the status of the fluoridation infrastructure in your area and the estimated costs and timeframes that would be necessary to fluoridate your drinking water supplies.

Since the Director-General of Health (the DG) wrote to you in June 2022, the DG has issued directions to 14 local authorities to fluoridate some or all of their drinking water supplies. On 3 November 2022, I wrote to a second set of 27 local authorities advising each that I am now actively considering whether to issue it a direction to fluoridate some or all of its drinking water supplies. I have chosen to prioritise consideration of these local authorities based on the needs and size of the populations served by their water supplies.

Drinking water supplies in your local authority area have not been included in this current set. However, it is likely that you will hear from me in the second quarter of 2023, when I expect to begin active consideration of whether to issue a direction to you to fluoridate some or all of your drinking-water supplies. At that time, I will seek written comment from you on the estimated costs of fluoridation, and the date by which you could comply with a direction to fluoridate. I will also consider the scientific evidence on the effectiveness of fluoridation and, for each drinking water supply, whether the benefits of fluoridation outweigh the financial cost, taking into account the oral health status, population size, and estimated costs of fluoridation.

I continue to be mindful of current service delivery pressures across the water services and broader local government sectors. In light of this, if I do issue directions regarding your drinking water supplies, they will have compliance dates set for after July 2024 when the new water service entities are due to be established.



I would also like to remind you that you do not need to wait for a direction from me to start fluoridating drinking water in your area. Community water fluoridation is widely recognised by national and international expert bodies to improve public health by substantially reducing rates of preventable tooth decay.

Nāku noa, nā



Dr Diana Sarfati  
**Te Tumu Whakarae mō te Hauora**  
**Director-General of Health**

**From:** [Tim King](#)  
**To:** [Mayor and Councillors](#)  
**Subject:** FW: Policy Brief: Climate Commission submission; Water Services Bill submission; Fluoridation Bill reaches second reading; Welcoming Communities update and more  
**Date:** Tuesday, 30 March 2021 7:41:35 am

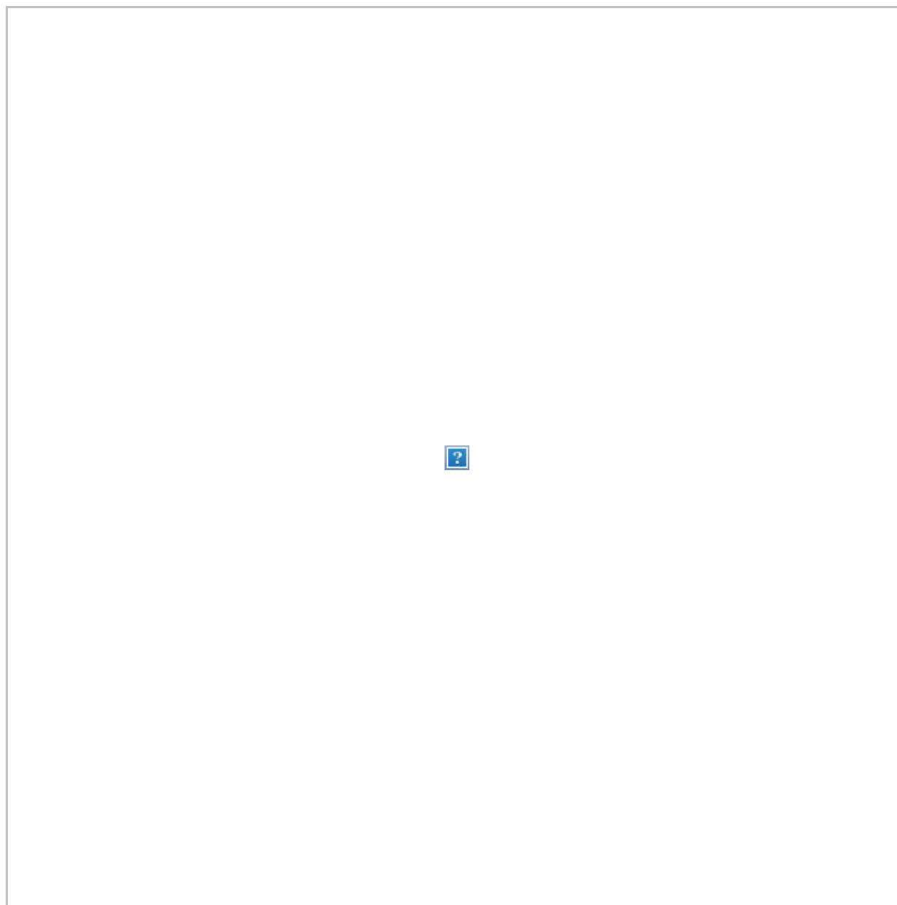
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Tim King  
Koromatua | Mayor  
Extension 802| Mobile+64 27 244 8202| DDI+64 3 543 8400

---

**From:** LGNZ <info@lgnz.co.nz>  
**Sent:** Monday, 29 March 2021 2:55 pm  
**To:** Tim King <Tim.King@tasman.govt.nz>  
**Subject:** Policy Brief: Climate Commission submission; Water Services Bill submission; Fluoridation Bill reaches second reading; Welcoming Communities update and more

No images? [Click here](#)



Dear Mayors, Chairs, Chief Executives, elected members and communications contacts

In this Policy Brief:

- Climate Change Commission submission;
- Water Services Bill submission;
- Fluoridation Bill reaches second reading;
- Welcoming Communities update;
- Our Land and Water research now available;
- New Zealand Infrastructure Commission seeks feedback;
- Sign up for Waka Kotahi's newsletter; and
- Worksafe asbestos clarification.

#### Flagship Project: Climate Change

### Climate Change Commission submission

LGNZ has [made a submission](#) on the Climate Change Commission's draft advice to Government.

Key points from LGNZ's submission are:

- Local government is a key actor in reducing climate change emissions;
- We support the policy proposals contained alongside the New Zealand Emissions Trading Scheme;
- Any new obligations foisted on local government need to be accompanied by appropriate funding;
- The national policies suggested by the Commission need to be scaled appropriately, so they account for local government circumstances; and
- Urban form policies need to negotiate housing affordability objectives with climate change objectives, so that net costs across both domains and wider are reduced.

The submission is a result of LGNZ's policy work and feedback from a number of councils. We would like to thank you for your input.

#### Flagship Project: Water

### Water Services Bill submission

LGNZ has [made a submission](#) to the Health Select Committee on the Government's proposed Water Services Bill, both [in writing](#), and [in person](#) at a Select Committee hearing last week.

While LGNZ supports the intent of the Bill, having advocated for clear drinking water standards and strong enforcement of those standards since 2015, there is potential for a huge passing of costs onto councils, as the Bill would force councils to take over private water networks that fail to meet the standard.

LGNZ has also raised the issue that the new bill would exacerbate the housing shortage, as councils would be highly cautious when assessing developments that include their own community water networks.

Flagship Project: Water

## Fluoridation Bill reaches second reading

The [Health \(Fluoridation of Drinking Water\) Amendment Bill](#) has reached its second reading in Parliament.

The Bill amends Part 2A of the Health Act 1956 by inserting a power for DHBs to make decisions and give directions about the fluoridation of local government drinking water supplies in their areas.

A 2014 remit from the sector directs LGNZ to support this amendment. [LGNZ's 2017 submission](#) on the amendment Bill provides more information on this.

Policy priority: Social

## Welcoming Communities update

In October 2019, following a successful two-year pilot programme (July 2017-June 2019), the Minister of Immigration announced the expansion of Welcoming Communities. The Government approved funding to enable a further 30 communities around the country to join the programme over four years (2020/21 to 2023/24).

Following Welcoming Communities Expression of Interest (EOI) Panel meetings in late 2020 and early 2021 the following councils and their communities are joining Welcoming Communities.

### New councils coming on in 2020/21:

- Hamilton City Council
- Horowhenua District Council
- Masterton District Council

### New councils registering an interest to come on in 2021/22:

- Queenstown Lakes District Council
- Rangitikei District Council
- Central Otago District Council

These councils will join the nine councils already in the programme. An update on the new councils is available on INZ's website [here](#).

Any councils wishing to join the programme in the next two years or wanting to find out more should visit the Welcoming Communities section on [INZ's website](#), or contact [Alesano.SchusterNakhid@mbie.govt.nz](mailto:Alesano.SchusterNakhid@mbie.govt.nz).

For your information

## New research released by Our Land and Water

Our Land and Water, a project associated with the National Science Challenge, has released a [summary of recent research](#) explaining why efforts on land to reduce water quality stressors may not lead to a seemingly proportional response in our lakes and rivers.

The [research](#) looked at how cause and effect are related in managing freshwater pollution and in restoring water quality.

The research identified several different types of stressor-response relationships and applied them to Aotearoa's lakes. The National Policy Statement for Freshwater Management is expected to accelerate regional councils' identification of stressor-response curves for local water bodies.

Key points:

- Degradation of freshwater bodies can be more effectively prevented or reversed by understanding the cause and effect (stressor-response) relationships impacting them, and by locating their position on stressor-response relationship curves;
- Stressor-response curves can help regional councils more accurately predict responses to changes in stressors, and use this information to help develop water quality policies;
- Stressor-response relationships seem to vary by lake (or river) type, which has important implications for freshwater management; and
- This research has developed a method to help identify the most appropriate freshwater management actions, based on stressor-response relationships.

#### **New guidance on designing Farm Environment Plans released**

Our Land and Water has also prepared a [guidance document](#) for people who need to design effective farm environment plans (FEPs), FEP templates and processes, to help those putting new legislative requirements into action. The guidance is for government, regional councils, primary industry bodies, farm consultants and advisors, farmers and growers.

The guidance contains 7 recommendations and outlines what is required to fully implement them. This is based on current knowledge of the FEP process and its requirements, and is informed by Our Land and Water-funded research and expert opinion.

For your information

#### **New Zealand Infrastructure Commission seeks feedback**

The New Zealand Infrastructure Commission, Te Waihanga, is seeking public feedback on New Zealand's 30-year strategy for infrastructure, through their new Aotearoa 2050 online tool.

Aotearoa 2050 is an online engagement tool seeking feedback on some of the country's



top infrastructure issues, possible solutions and priorities for the future. Open to everyone in New Zealand, all feedback will be considered as Te Waihanga develops the country's 30-year strategy for infrastructure.

In the coming months, Te Waihanga will seek feedback on a consultation document that sets out the proposed direction and areas of focus for its strategy. Following consultation, it will present its strategy to the Minister for Infrastructure in September 2021.

Have your say at Aotearoa 2050 online at [aotearoa2050.infrastructure.govt.nz](https://aotearoa2050.infrastructure.govt.nz) or to request a hard copy submission form call 0800 367 876.

#### For your information

### Waka Kotahi NZTA newsletter

Waka Kotahi NZ Transport Agency is creating an e-newsletter to provide updates about activities under [Road to Zero](#), New Zealand's road safety strategy. It will include Road to Zero news, updates, and successes every two months so you can stay up to date.

We encourage councils to [sign up to the Road to Zero newsletter here](#). If you know of others who may want to sign up to receive these updates, please feel free to share the link with them.

#### For your information

### Worksafe asbestos clarification

WorkSafe has become aware of some misleading information circulating in relation to the asbestos licensing renewal requirements and associated guidelines.

The information alleges that WorkSafe has unilaterally increased experience requirements and is in breach of health and safety legislation. This is incorrect. The recent guidelines were sent out to clarify what the requirements have always been.

This link ([Apply for a licence | WorkSafe](#)) provides the information that should be relied on. This information has not changed and the misleading information circulating indicates that the requirements in the guidelines have been misinterpreted by the concerned parties.

If anyone in your organisation has received the incorrect information, please point them to this link and note they should rely only on this information.

If you or people in your organisation need any further information or have any questions, please send them through to [asbestos@worksafe.govt.nz](mailto:asbestos@worksafe.govt.nz).



Level 1, 117 Lambton Quay, PO Box 1214, Wellington 6011  
Phone: 04 924 1200 Web: [lgnz.co.nz](http://lgnz.co.nz) Email: [info@lgnz.co.nz](mailto:info@lgnz.co.nz)

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**From:** [Tim King](#)  
**To:** [Richard Kirby](#); [Mike Schruer](#); [Helen Lane](#)  
**Cc:** [Leorie Rae](#)  
**Subject:** FW: Response letter from Ministry of Health  
**Date:** Thursday, 21 April 2022 11:33:41 am  
**Attachments:** [20042022114116-0001.pdf](#)

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Hi guys  
Response to the letter regarding fluoridation.  
Cheers, Robyn  
**Tim King**  
Koromatua | Mayor  
**Mobile**+64 27 244 8202| **DDI**+64 (27) 2448202

---

**From:** Niamh McConway <[Niamh.McConway@health.govt.nz](mailto:Niamh.McConway@health.govt.nz)>  
**Sent:** Wednesday, 20 April 2022 11:50 am  
**To:** Janine Dowding <[Janine.Dowding@tasman.govt.nz](mailto:Janine.Dowding@tasman.govt.nz)>; Tim King <[Tim.King@tasman.govt.nz](mailto:Tim.King@tasman.govt.nz)>  
**Subject:** Response letter from Ministry of Health  
Good afternoon all,  
Please find attached a letter from the Director-General of Health in response to the concerns regarding fluoridation.  
NgĀ mihi nui,  
Niamh McConway ([she/her](#))  
Project Coordinator  
Office of the Deputy Director-General | Office of the Director-General | Ministry of Health  
E: [niamh.mcconway@health.govt.nz](mailto:niamh.mcconway@health.govt.nz) | M: 021 375 429



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19 April 2022

Tasman District Council  
[janine.dowding@tasman.govt.nz](mailto:janine.dowding@tasman.govt.nz)  
[tim.king@tasman.govt.nz](mailto:tim.king@tasman.govt.nz)

Tēnā kōrua

**Concerns regarding the direction to add fluoride to the Council's large water supplies**

Thank you for your letter of 3 March 2022 raising concerns about the potential direction to fluoridate water supplies in your area and the timing of said direction. Thank you for taking the time to write to me and for the thoughtful analysis presented in your letter.

I acknowledge the competing priorities and delivery pressures councils have at present. You have reflected some of these in your letter to me.

I understand that on 8 February 2022, the Ministry of Health (the Ministry) received your response to the fluoridation 'readiness' information request I sent late last year. The information you have provided in that response is very helpful and will inform fluoridation implementation planning. Thank you for providing it in a timely manner.

We intend to take a staged approach to fluoridation implementation. This approach will consider the Three Waters reform process and current service delivery pressures across the water services and broader local government sector.

To support early adoption of fluoridation, the Ministry has limited funding available for local authorities who can begin the capital works to fluoridate by the end of 2022. I recognise that there are some community water supplies where it may not be feasible to fluoridate within a short timeframe. In some cases, it may be appropriate for implementation to sit with the new Water Service Entities that will be established under the Three Waters reforms.

The Ministry will be in contact with local authorities again in the coming months with further details about the implementation process.

Nāku noa, nā



pp.  
Dr Ashley Bloomfield  
**Te Tumu Whakararae mō te Hauora**  
**Director-General of Health**

**From:** [Niamh McConway](#)  
**To:** [Janine Dowling](#); [Tim King](#)  
**Subject:** Response letter from Ministry of Health  
**Date:** Wednesday, 20 April 2022 11:50:26 am  
**Attachments:** [20042022114116-0001.pdf](#)

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Good afternoon all,  
Please find attached a letter from the Director-General of Health in response to the concerns regarding fluoridation.

Ngā mihi nui,

Niamh McConway ([she/her](#))

Project Coordinator

Office of the Deputy Director-General | Office of the Director-General | Ministry of Health

E: [niamh.mcconway@health.govt.nz](mailto:niamh.mcconway@health.govt.nz) | M: 021 375 429



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19 April 2022

Tasman District Council  
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[tim.king@tasman.govt.nz](mailto:tim.king@tasman.govt.nz)

Tēnā kōrua

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Nāku noa, nā



pp.  
Dr Ashley Bloomfield  
**Te Tumu Whakarāe mō te Hauora**  
**Director-General of Health**

2. All policy papers and/or advice prepared for the mayor and/or councillors about fluoridation – released on 30/05/2023

Please find **attached**:

- [[Operations Committee Report 20220217.pdf](#)]
- Fluoridation Costs Estimate.pdf - We note that the fluoridation cost estimate was a snapshot based on available information at a point in time, and costs have likely changed significantly since [Refer to page 21-23]





Water NZ figures	low range	high range
Design	\$ 30,000.00	\$ 35,000.00
Construction	\$ 100,000.00	\$ 160,000.00
	\$ 130,000.00	\$ 195,000.00

Apex Motueka estimate - high level		
Design	\$ 3,000.00	\$ 5,000.00
Plant	\$ 25,000.00	\$ 75,000.00
Building	\$ 50,000.00	\$ 150,000.00
	\$ 78,000.00	\$ 230,000.00

Sapere report			2016 medium
CAPEX	\$ 145,000.00	\$ 260,000.00	
Minor	CAPEX	\$ 170,000.00	
	OPEX	\$ 12,121.50	
Medium	CAPEX	\$ 202,500.00	
	OPEX	\$ 13,212.50	
Large	CAPEX	\$ 347,000.00	
	OPEX	\$ 37,650.00	

Flaxmere	35%/10%	for 5000 people	120l/s	2015
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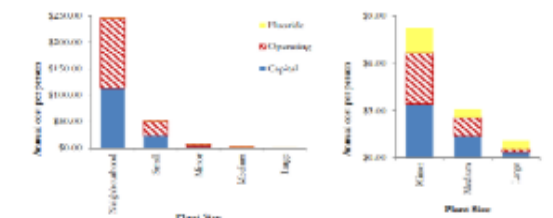
	Rate		\$2000/m2
Building	45m2	\$ 90,000.00	
Vehicle access	150m2	\$ 12,000.00	
Site civil works, drainage, plumbing conn		\$ 11,000.00	
Fluoridation tanks, pumps, pipework		\$ 83,000.00	
Electrical, controls and instruments		\$ 38,000.00	
Preliminary and general	10%	\$ 23,000.00	
Contingency	15%	\$ 38,000.00	
Professional fees	15%	\$ 44,000.00	
		\$ 340,000.00 ex GST	

Table 5 Estimated cost of water fluoridation, by plant size

Plant size	Population	Fluoride chemical	Total capital cost, ex GST	Annual operating costs	Annual fluoride supply cost per m3/day
Neighbourhood	<100		\$10,500	\$6,700	\$3.07
Small	100-500	Sodium fluoride (NaF)	\$17,500	\$7,100	\$3.46
Minor	500-5,000		\$170,000	\$6,200	\$3.41
Medium	5,000-10,000	Fluoroallic acid (FSA)	\$202,500	\$9,000	\$1.25
Large	10,000+		\$147,000	\$8,000	\$1.35

	Flow	CAPEX
Flaxmere	100	\$40000
Eastbourne	500	\$20000
Richmond	200	\$85000

Figure 8 Breakdown of fluoridation costs by size\* of water plant (note the graph on the left has five plant classifications and the graph on the right is an expansion of the three larger plant sizes)



\* Population sizes used in figure are: Neighbourhood 50; Small 200; Minor 2,500; Medium 7,000; Large 50,000. Water usage estimated to be 0.65 m3/day per person.

Eastbourne St - Designed to dose 500 ltr/s peak flow rate @ 0.7ppm

Description	Unit	Qty	Rate	Total (2016)	Use Life (years)	Comments
Dosing Controls	ea	1	\$10,900	\$10,900	15	Stock Standard per Site ( irrespective of size)
Power Connection & Sub	ea	1	\$15,000	\$15,000	25	Depends on the sites existing capacity, this is based on no existing power usage at the site
Extractor Fans	ea	2	\$3,500	\$7,000	5	Can get away with one at smaller sites
HFA (Fluoride) Storage Tank	ea	3	\$3,500	\$10,500	15	Two were required at Wilson. May get away with one at smaller sites
HFA Day Tank & Scales	ea	1	\$8,700	\$8,700	15	Stock Standard per Site ( irrespective of size)
HFA Dose pump	ea	1	\$4,000	\$4,000	2	Stock Standard per Site ( irrespective of size)
HFA Dosing In/anal Del	ea	1	\$11,500	\$11,500	10	Stock Standard per Site ( irrespective of size)
HFA Level Sensor	ea	1	\$5,000	\$5,000	10	One sensor can be used for Multiple tanks
Power Cables	m	50	\$180	\$9,000	40	To Magflow and Subboard
Telemetry Cables	m	50	\$100	\$5,000	25	From Control Panel to dose pump & level sensors
Magflow Meter (200mm)	ea	1	\$7,100	\$7,100	15	Not required if you have existing flow rate trials
Telemetry (small)	ea	1	\$9,000	\$9,000	20	Not required if you can use an existing site
Dosing Pipe - Total Length	m	400	\$85	\$34,000	25	
Building	m2	85	\$5,500	\$467,500	75	Depends on whether you have existing building space or not (Plumbing), Land use & building consent etc., likely to be required for new builds
Driveway Access, and Fin		100	\$250	\$25,000	75	Needs to cater for a B-Train filling from the Passengers Side. Talk to local chemical supply re requirements.
Consultancy fees - Design		15%		\$517,960.00		

Filtac

Size (m3/d)	Chemical	Total cost	excludes
3000 HAF		\$ 135,000.00	civil
6000 HFA		\$ 156,000.00	building
15000 HFA		\$ 191,000.00	chemical supply
30000 HFA		\$ 227,000.00	O&M costs
45000 HFA		\$ 264,000.00	ISA/UC compliance
			power
			freight
			SCADA integration
			bundling
			monitoring OPEX
			injection point

CCC

	45 - 53	CAPEX	OPEX	CAPEX/size (\$/M)	OPEX/size (\$/K pa)
CCC(2017)	49	20.1	0.9	0.410	18.4
CCC	49	59	1.8	1.184	36.7

Large Schemes (>500)

	Daily Flow m <sup>3</sup> /day	Plant flow l/s	Design		
			flow l/s (assume 20%/day)	m <sup>3</sup> /h	
Richmond	9399	163.1771	200	720	<500
Monueta	1503	26.09875	59	212.4	<300
Maoua	1893	32.86458	38	136.8	<300
Brighmore	1835	31.85764	33	118.8	<300
Waitefield	1186	20.59028	30	108	<300



3. Details on which chemical fluoride compounds will be used to fluoridate Tasman's water supply- released on 16/03/2023

Tasman District Council does not add fluoride to any of the water supplies it owns and operates, including Richmond. Fluoride does occur naturally at low levels however.

Any decision to require fluoride to be added to any water supply is made by the Director General of Health, not Council. TDC has not, at this time, been directed to do so.

The following link to the Ministry of Health provides relevant information on this topic - Director-General of Health's role in decision-making on the fluoridation of drinking-water supplies | Ministry of Health NZ [[Community water fluoridation | Ministry of Health NZ](#)]

4. Where will they be sourced from? - released on 16/03/2023

[Please refer Q3's response]

5. Will the concentrations and purity of the materials to be used in fluoridation fully standardised, batch-tested and documented as a legal requirement? - released on 16/03/2023

[Please refer Q3's response]

6. Are the fluoridation compounds proposed to medicate the public water supply meet British Pharmaceutical (BP) or United States Pharmaceutical (USP) - released on 16/03/2023

[Please refer Q3's response]

7. Does your Council put fluoride in drinking water- released on 07/03/2021

No, we do not fluoridate any of the Council drinking water supplies.