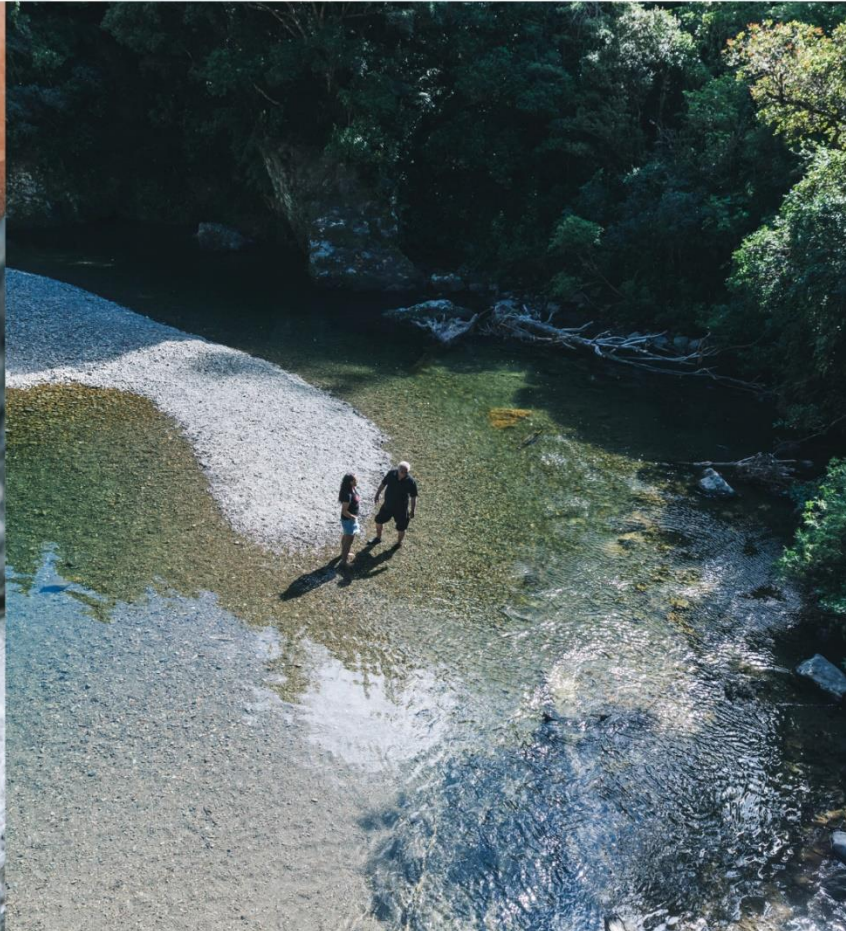


# Nau mai, haere mai Taumata Arowai Webinar





# Karakia timatanga

Whakataka te hau ki te uru  
Whakataka te hau ki te tonga  
Kia mākinakina ki uta  
Kia mātaratara ki tai  
E hī ake ana te atākura  
He tio, he huka, he hau hū  
Tihei mauri ora!

Cease the winds from the west  
Cease the winds from the south  
Let the breezes blow over the land  
Let the breeze flow over the ocean  
Let the red tipped dawn come with  
a sharpened air  
A touch of frost, a promise of a day!  
Sneeze, the breath of life!



# Agenda for this evening

- **Katy Te Amo, Head of Strategy and Insights**
  - Recap on first two webinars and touch on Te Mana o te Wai
- **Raukura Huata, Principal Advisor**
  - Our engagements with Māori water suppliers and kōrero with owners and operators of the Raupunga community water supply
- **Ray McMillan, Head of Regulatory**
  - Share key themes from our first round of consultation and how these are shaping our approach
- **Pātai / Questions**



# Our Whakapapa



## Our Pou

- ▶ **Wai mauri** – wai has its own inherent life force handed down as a taonga to sustain us.
- ▶ **Wai mana** – our mandate for stewardship, protection and restoration of the mana of the wai, for long term change.
- ▶ **Wai ora** – wai has its own health sustaining properties and gives us life.

*Giving effect to*  
**Te Mana o te Wai**

Tiakina te wai, hei oranga te katoa  
**Safe water everyday for everyone**

*Underpinned by*  
**Te Tiriti o Waitangi**

## Our Whakataukī

- ▶ **Whāngaia te iwi**  
Sustain the tangata
- ▶ **Ka hoki kōmuri ngā whakaaro kia anga whakamua te titiro**  
Turn our minds to the past to determine our way forward
- ▶ **Karangahia ngā ope**  
Be the voice of welcome

## Tō mātou tikanga | Our ways of working

- ▶ **Kaitiakitanga:** We will protect the health of water as it applies to our functions, powers and duties.
- ▶ **Manaakitanga:** We will act to support a mana-enhancing way to achieve long-term intergenerational sustainability.
- ▶ **Kāwanatanga:** We will model positive partnerships and behaviours in our relationships.



# Raukura Huata

## Principal Advisor

# Connecting with registered kāinga

- We're connecting with kāinga who were registered with the Ministry of Health before 15 November 2021
- We have learnt that small registered Māori drinking water suppliers are a combination of mixed Iwi entities, kura kaupapa Māori, kōhanga reo, marae, papakāinga, and densely populated Māori communities who are registered to supply drinking water
- Our focus has been on contacting these kāinga to validate their contact details in Hinekōrako, our online portal
- We're developing case studies to reflect their drinking water supply networks, their challenges, their aspirations, their approach to Te Mana o te Wai, and to showcase their stories
- Work has commenced with Ngāi Tahu and Tainui to assist with using their iwi network to engage with their kāinga in their takiwā



# Registered kāinga want to know more about

- What the process is to register as a water supplier
- What these changes mean for their water supply
- Ownership of their water supply and network
- The cost associated with being a registered water supplier
- How Taumata Arowai will support them
- Funding available to help them comply with the new standards
- Training and support available for them
- Where hapū and iwi fit into the equation – what is partnership?

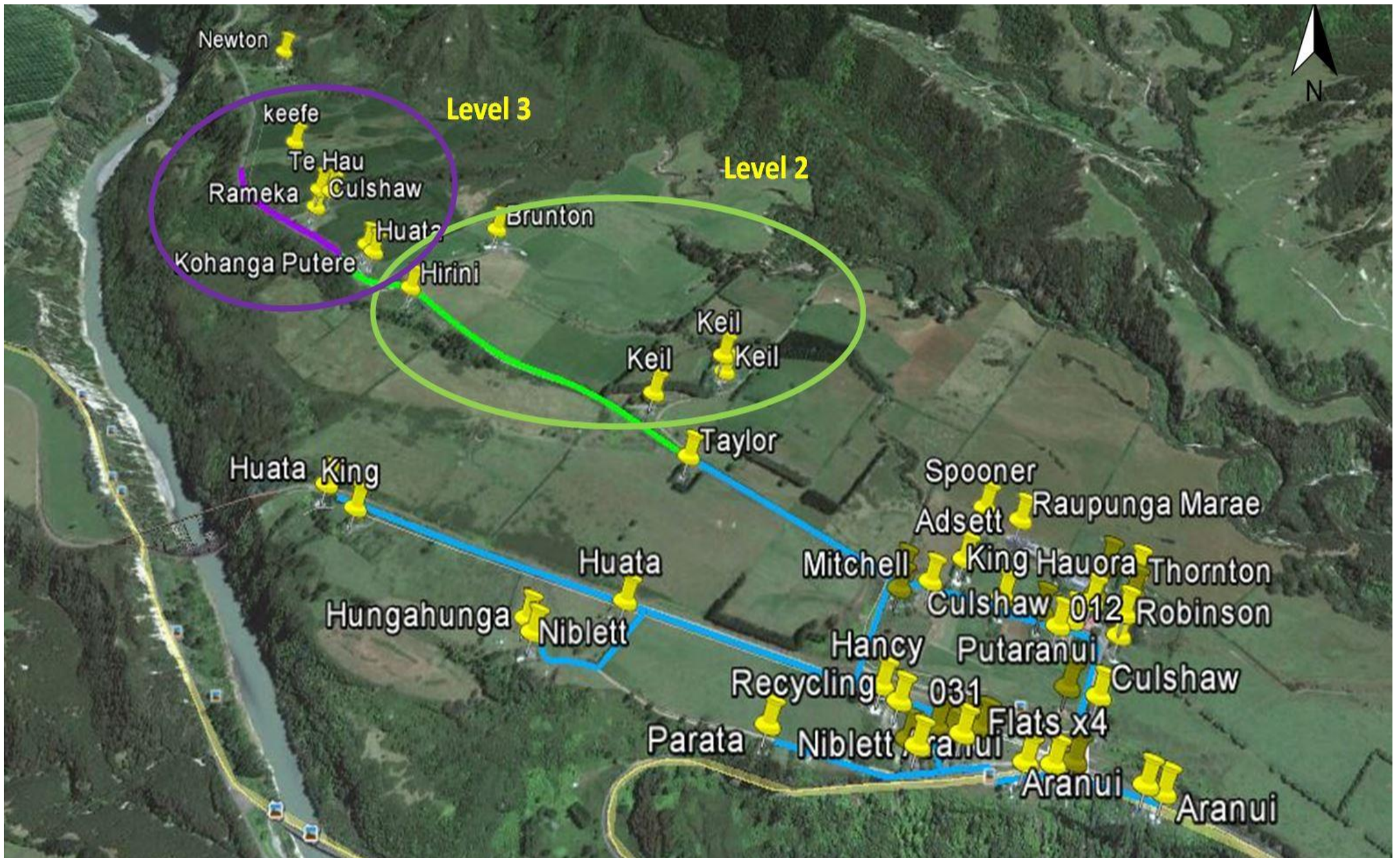


# Guy Taylor and Theresa Thornton

## Raupunga Community Water Supply



The Raupunga Drinking-water supply is located in Raupunga, south of Wairoa in Hawkes Bay. It's owned and operated by the Ngāti Pahauwera Incorporated Society, who are a community group based in Raupunga. The water supply provides treated potable water to a population of 250 people. The water is sourced from the Mangawharangi Stream.



# Community Description

- 39 houses (Terrace)
- 6 houses (level 2)
- 6 houses (level 3)
- 4 high user dwellings with a combined assessed equivalent of 18 dwellings
  - Kaumatua Flats
  - 2 Kohanga Reo
  - Marae

# Cost Estimates

Option	A Mangapikopiko	B Railway	C Mangawharangi	D Upper Terrace Bore	E/F Lower / Mohaka Bore
Cost Estimate	\$680,000	\$562,000	\$616,000	\$563,000	\$628,000
Cost per meter (level 1)	\$12,610	\$10,294	\$11,342	\$10,313	\$11,580
Cost per meter (levels 1-3)	\$10,794	\$8,919	\$9,766	\$8,934	\$9,960
15% contribution	\$102,000	\$82,000	\$92,000	\$84,000	\$94,000

















































Read the pressure reading on the Baccarat Pressure Differential switch. Record it below (i.e. 0.4 bar):

Your answer \_\_\_\_\_

Was the pressure reading more than 0.7 bar? (Note- if the reading is more than 0.7 bar then the filters are not backwashing and are faulty, and need to be fixed)

- Yes
- No
- Plant not operating

Are there any leaks on the valve heads and pipe lines to and from these filters? If yes, these need to be fixed.

- Yes
- No



Distribution Flow Meters

Meter Name	Today	Yesterday	Rate
Jono's Line Raupunga Water Monitoring	3,900L Last update: 12:25:00	4,500L	7.2m3/H
Marae Line Raupunga Water Monitoring	500L Last update: 12:25:00	1,400L	0.0m3/H
Village Raupunga Water Monitoring	3,900L Last update: 12:25:00	9,500L	1.2m3/H

Filter shed

<b>Backwash</b> Raupunga Water Scheme Filtration Idle State Last update: 12:25:00	<b>Controller</b> Raupunga Water Scheme Filtration 27.410V Supply Last update: 12:15:00	<b>DP Switch For Back Wash Trigger</b> Raupunga Water Scheme Filtration Stopped State Last update: 12:25:00 RUNTIME: 0.0h	<b>Pressure 3</b> Raupunga Water Scheme Filtration 10kPa Value Last update: 12:25:00	<b>RESET BUTTON</b> Raupunga Water Scheme Filtration Unrecoverable Fault State Last update: 12:25:00 RESET: Reset faults
<b>Source Flow Meter</b> Raupunga Water Scheme Filtration 0L Today Last update: 12:25:00 YESTERDAY: 0L RATE: 0.0m3/H	<b>Transfer Flow Meter</b> Raupunga Water Scheme Filtration 10L Today Last update: 12:25:00 YESTERDAY: 50L RATE: 0.0m3/H	<b>UV</b> Raupunga Water Scheme Filtration Stopped State Last update: 12:25:00 RUNTIME: 0.0h		

# Improvements

- Turned off automatic operation of plant
- Doubled storage capacity to 240,000 liters -\$25,000
- Installed Halo monitoring system - \$27,000
- Improved access to site - \$20,000
- Additional flow meters in distribution network - \$11,000
- Analog water meters replaced with electronic meters – WDC





*Video*











- Operates manually – normally once a week
- Cost to whanau - \$1/day per household
- Supplies 8 -10 million litres of treated water annually
- Test for e-coli and coliforms in distribution monthly
- Test chlorine levels weekly
- Annual operating expenses : 12 to 15 k
- Online platform to record data ( Google drive )
- Realtime monitoring system ( Halo)
- Electronic water meters installed recently



# Ray McMillan

## Head of Regulatory



# Feedback sought

- From 17 January to 28 March 2022, we sought feedback on the following documents:
  - Drinking Water Standards
  - Drinking Water Quality Assurance Rules
  - Drinking Water Aesthetic Values
  - Drinking Water Acceptable Solution for Roof Water Supplies
  - Drinking Water Acceptable Solution for Spring and Bore Water Supplies
  - Drinking Water Acceptable Solution for Rural Agricultural Water Supplies
  - Drinking Water Network Environmental Performance Measures
- This is the first of many kōrero we'd like to have with you. We'd like to hear more about your supply and the community you serve. Your feedback will help guide our approach.



# Feedback from Māori organisations

- 11 submissions received
- Felt the unique nature and use of each marae should be taken into account when it comes to compliance burdens, especially when referring to rural marae
- Concerns were raised around the feasibility of compliance requirements for rural marae and marae with sporadic use
- Request for varied uses to be included as examples in guidance to determining drinking water supply population and/or the description of drinking water supply types documents, in order to assist marae drinking water suppliers to understand where their specific supply fits





# Key themes overall

- Concern about the continuity of volunteer-run supplies with increasing costs and practicalities of meeting requirements, particularly for small supplies
- Some concern about the frequency of testing required and the practical difficulties of meeting these requirements
- Some broader opposition to new regulation requirements, particularly in the context of the Three Waters reform
- Requests for key definitions to be clarified, e.g. “water carrier”, “reticulation”
- Suppliers needing certainty about timeframes for complying with the new requirements, and what training and infrastructure is necessary



# For registered kāinga

- Kāinga registered with the Ministry of Health before 15 November 2021 will need to confirm their supply details with Taumata Arowai by **15 November 2022**
- We have a dedicated team to support kāinga through this process
- This registered community provides an important learning opportunity for us. Helping us to shape our approach when working with unregistered kāinga across the motu in the future





# For unregistered kāinga

- Unregistered kāinga have time to work this out. Up to **four years** (November 2025) to register with Taumata Arowai and a further **three years** (November 2028) to fully meet the requirements of the Water Services Act 2021
- These timeframes provide an opportunity for Taumata Arowai to work with our unregistered community to understand their unique needs and circumstances
- Drinking Water Acceptable Solutions or Verifications Methods may provide ready-made options for certain supply types to comply with the Act

**Pātai / Questions?**



# Karakia whakamutunga

Unuhia, unuhia,  
Unuhia ki te uru tapu nui  
Kia wātea, kia māmā, te ngākau,  
te tinana, te wairua i te ara tangata  
Koia rā e Rongo whakairia ake ki runga  
Kia tina! Tina  
Haumi e! Hui e! Taiki e!

Take off and remove  
Take off and remove and unplug yourself  
from what has occurred  
So that the body mind and spirit are free  
and at ease to continue living  
Let Rongo be present in all we do  
Be free and at ease  
And affirm you are free and at ease  
We agree, yes we agree.





# Ngā mihi nui

