

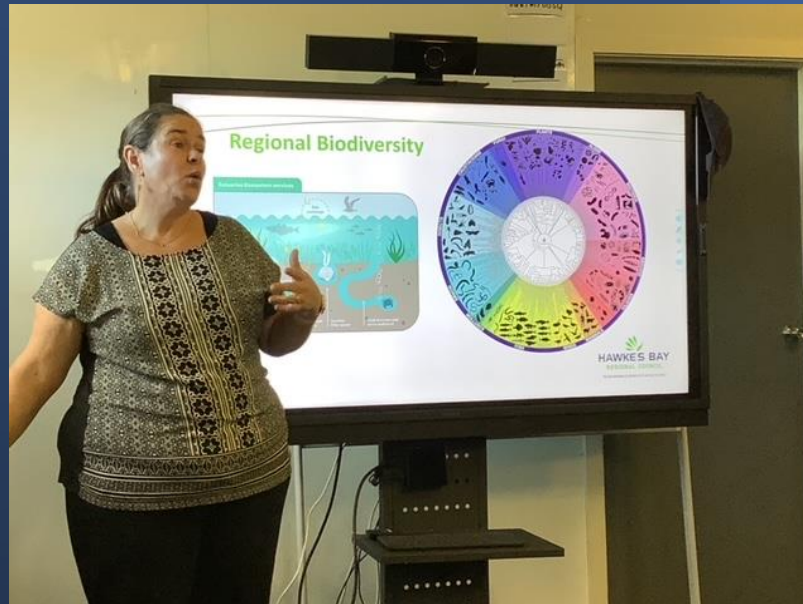
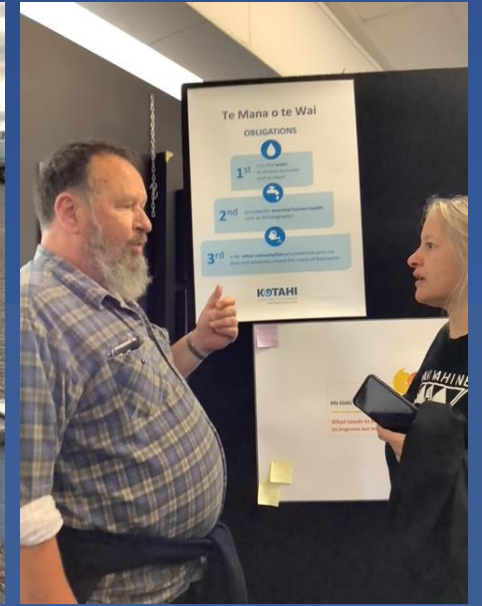


WAIROA TAIWHENUA





Restorative Justice with Affco Ltd







# Resource management reform UPDATE

Flourishing environment, thriving communities | Ka ora te Taiao, ka ora Tātou



Te Kāwanatanga o Aotearoa  
New Zealand Government

<https://www.taumataarowai.govt.>

[nz/](https://www.taumataarowai.govt.nz/)

[te-mana-o-te-wai/](https://www.taumataarowai.govt.nz/te-mana-o-te-wai/)

We've let  
Papatuanuku down



A close-up photograph of a pair of hands gently cradling a small, colorful globe of the Earth. The globe is centered on the North Pole, showing the Arctic region and parts of North America, Europe, and Asia. The hands are positioned around the globe, with fingers resting on its surface. The background is a soft, out-of-focus brown color. Overlaid on the center of the image is the text "What is our commitment to climate change?" in a clean, white, sans-serif font.

What is our commitment to climate change?



## 1 Watch in force for this location



### Heavy Rain Watch

**Period:** 45hrs from 3am Fri, 23 Jun - midnight Sat, 24 Jun

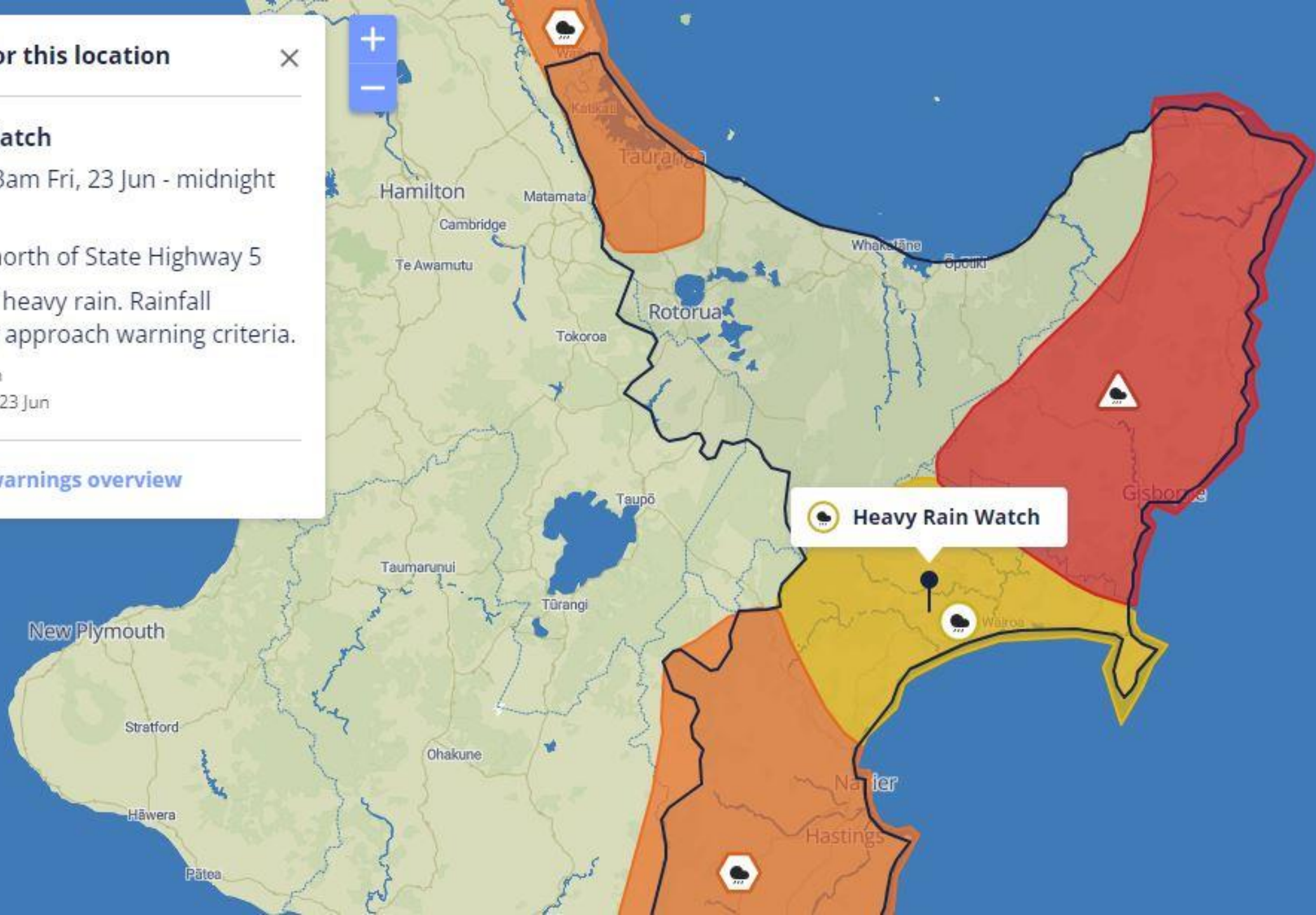
**Area:** Hawke's Bay north of State Highway 5

**Forecast:** Periods of heavy rain. Rainfall accumulations may approach warning criteria.

Issued: 8:16pm Thu 22 Jun

Next update: 10:00am Fri 23 Jun

[Back to warnings overview](#)






# SURVIVING GABRIELLE



**OVERWHELMED BY THE SHEER FORCE OF CYCLONE GABRIELLE:** Aerial photographs reveal the extent of damage in storm-ravaged Wairoa. The cyclone decimated the district when it struck overnight last Monday sending flash flooding into the eerie stillness of early Tuesday morning. Many residents say it was worse than Cyclone Bola in 1988. Picture by Hawke's Bay Civil Defence



# Haumaru Taiiao – Haumaru Tangata

Caring for our Environment- Cares for our People



















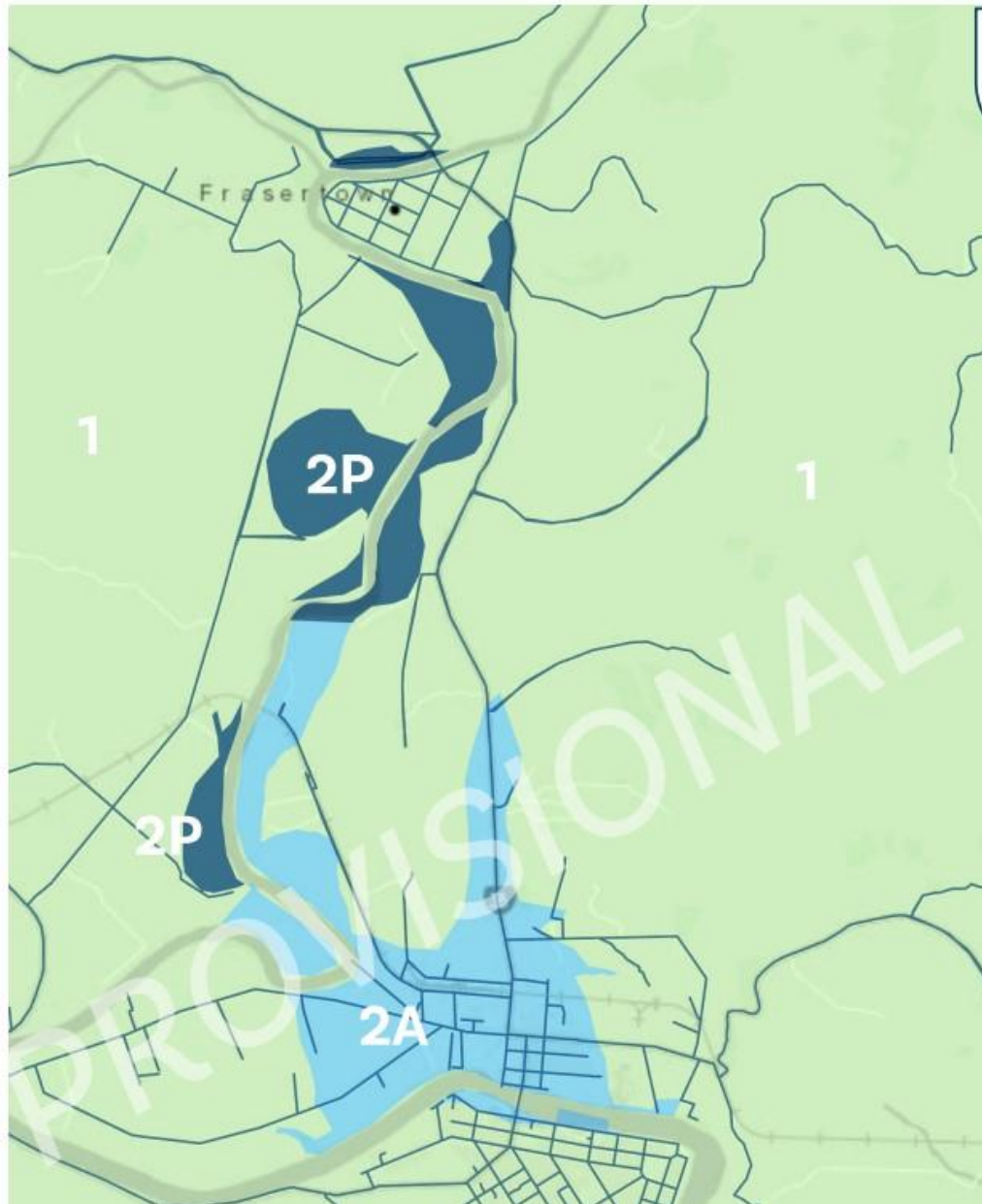
333 homes

20 businesses

70% Maori, half uninsured

30% of Wairoa Housing  
stock

# Wairoa



## Land Categories



*The provisional land classification is applicable to residential use only and other land use is not impacted.*

KA MATE  
KAINGA TAHI,  
KA ORA  
KAINGA RUA

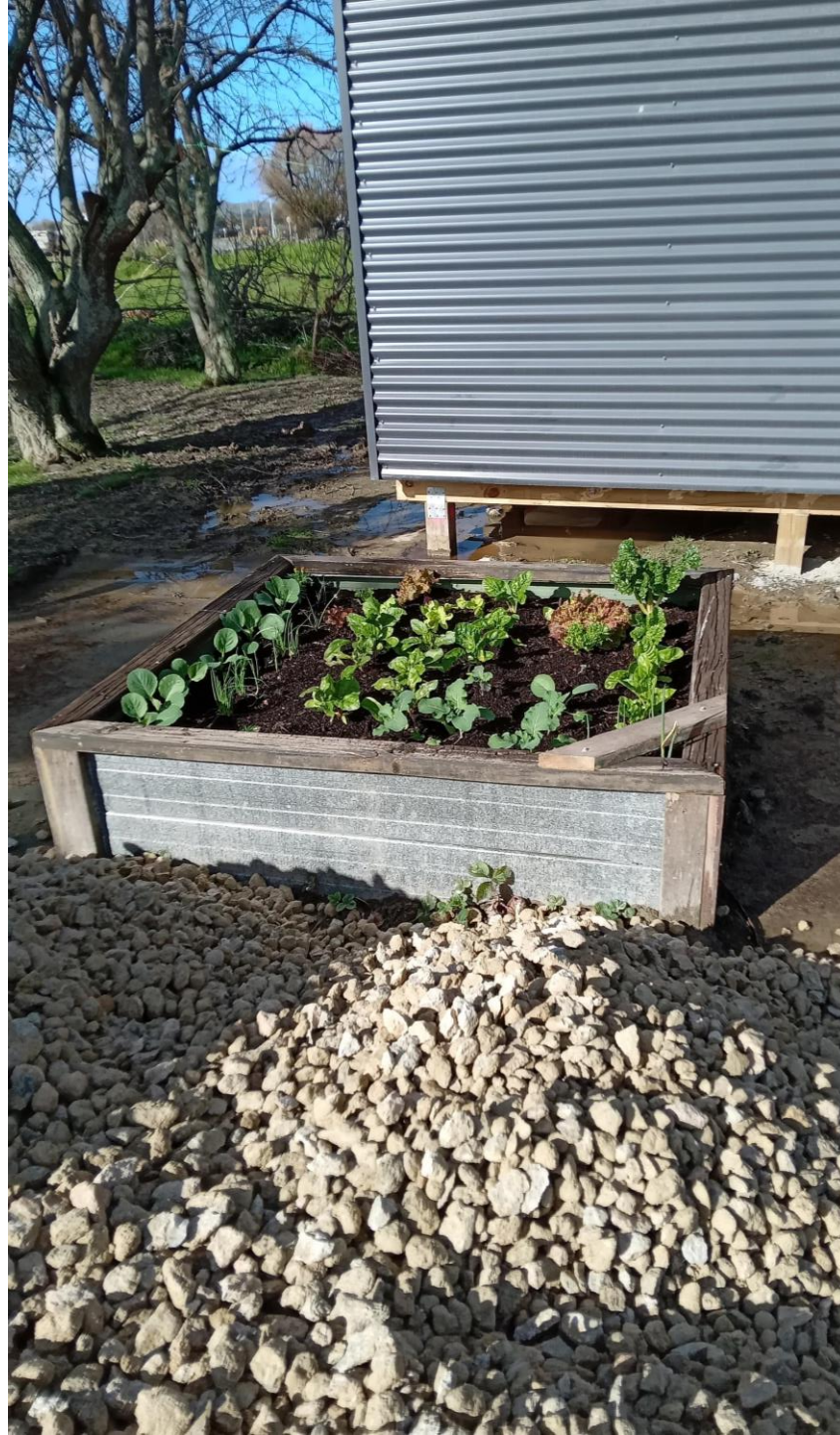




























# Wairoa Awa MAURI Restoration



- 1.2K likes •
- 2K followers







OUR LAND  
AND WATER

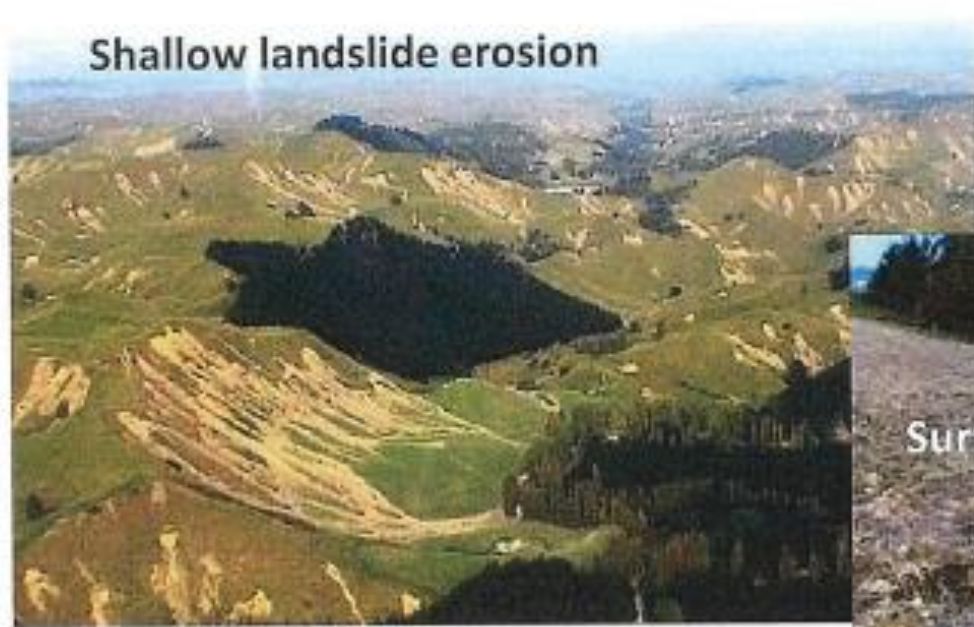
Toitū te Whenua,  
Toiora te Wai

National  
**SCIENCE**  
Challenges

- <https://ourlandandwater.nz/project/mauri-whenua-ora/>

# 2. SedNetN model

- Different types of erosion may occur in a catchment



Shallow landslide erosion



Gully erosion



Surface erosion

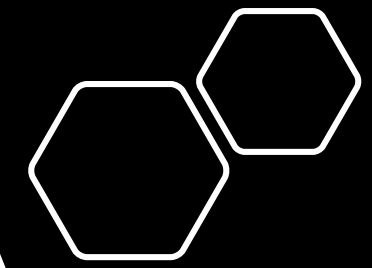
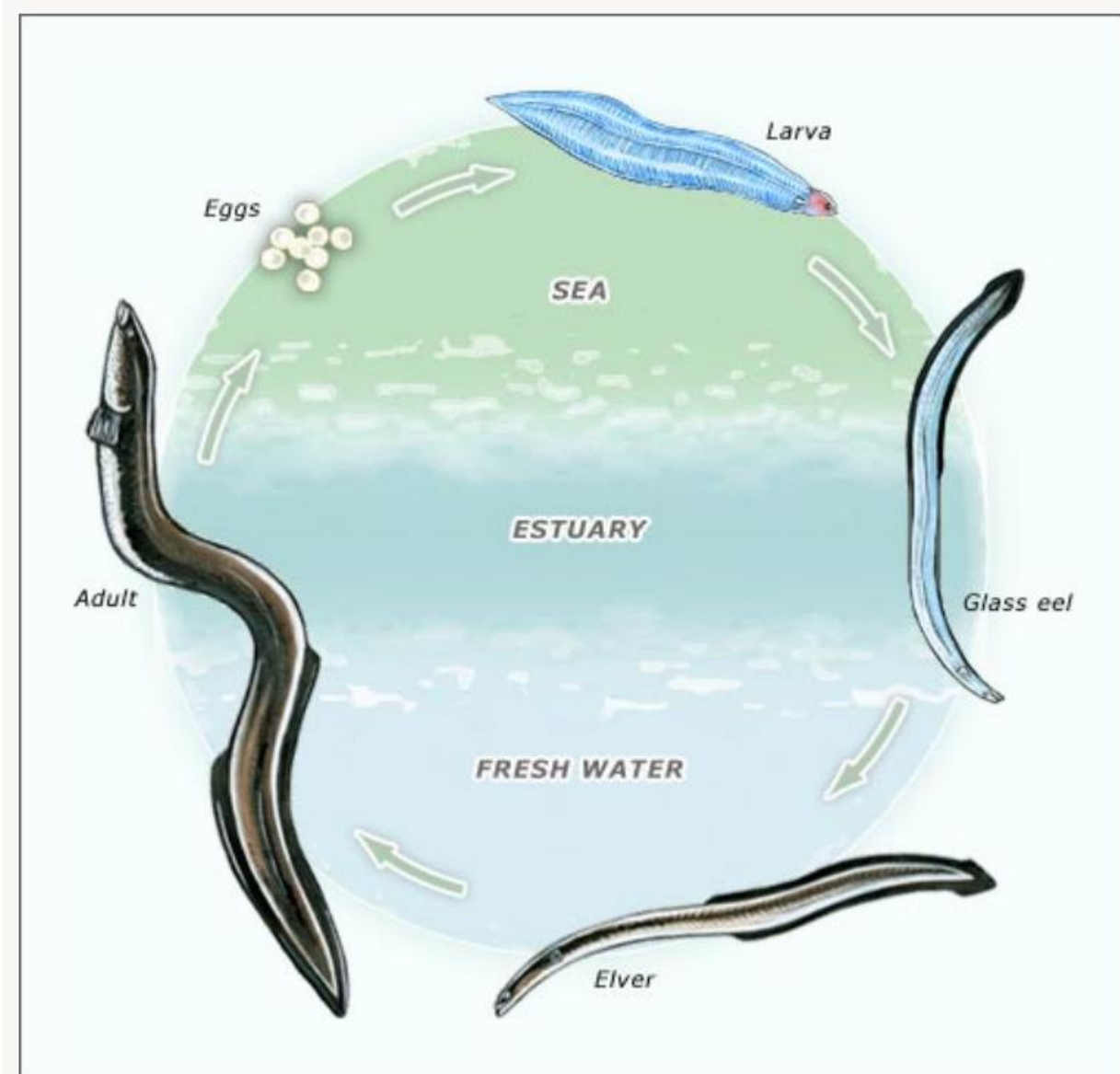


Earthflow erosion



Bank erosion

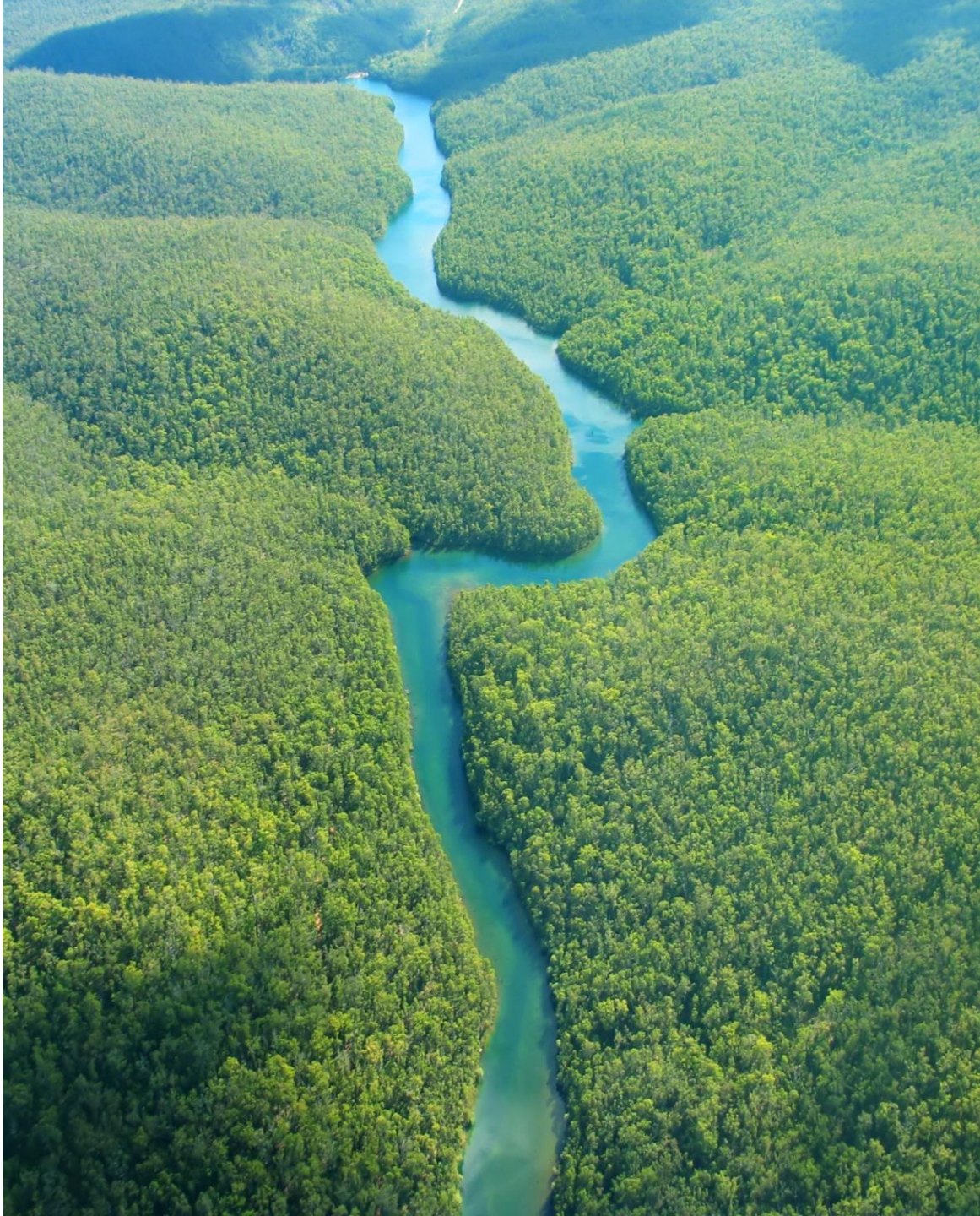




# Water clarity bands

- Clarity graded into bands (A-D)
- Clarity in the D band (worse than a 'bottom line') must be improved

Site	River class	Black disc (m)				Band
		Measured	Reference	A-B cutoff	C-D Bottom line	
Hangaroa River at Doneraille Park	1	0.93	2.01	1.78	1.38	D
Mangaaruhe at Mangaaruhe Station	2	0.99	1.11	0.93	0.61	A
Mangapoike River at Suspension Bridge	2	0.95	1.11	0.93	0.61	A
Ruakituri River at Sports Ground	1	0.83	2.01	1.78	1.38	D
Waiiau River at Otoī	1	0.67	2.01	1.78	1.38	D
Wairoa River at Marumaru	1	0.71	2.01	1.78	1.38	D
Wairoa River at Railway Br.	1	0.53	2.01	1.78	1.38	D
Wairoa River D/S Waste Water Discharge	1	0.35	2.01	1.78	1.38	D



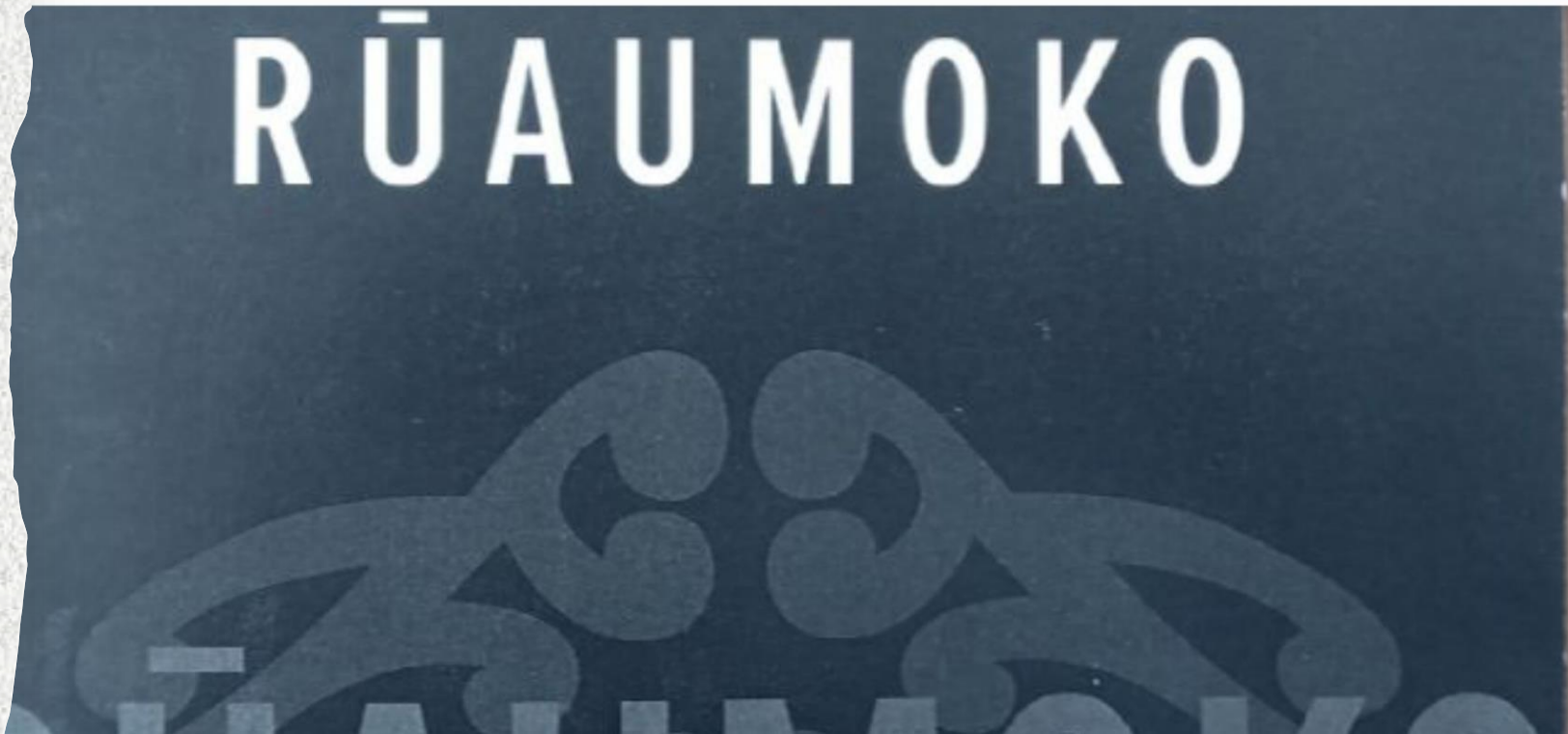
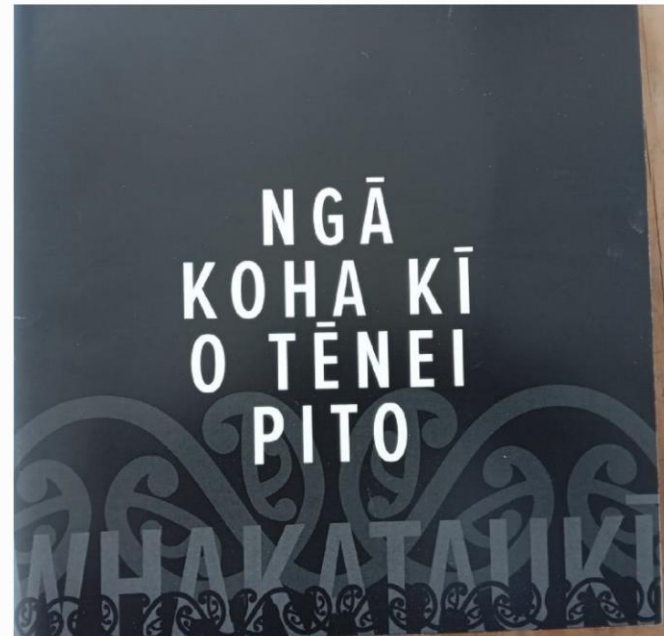
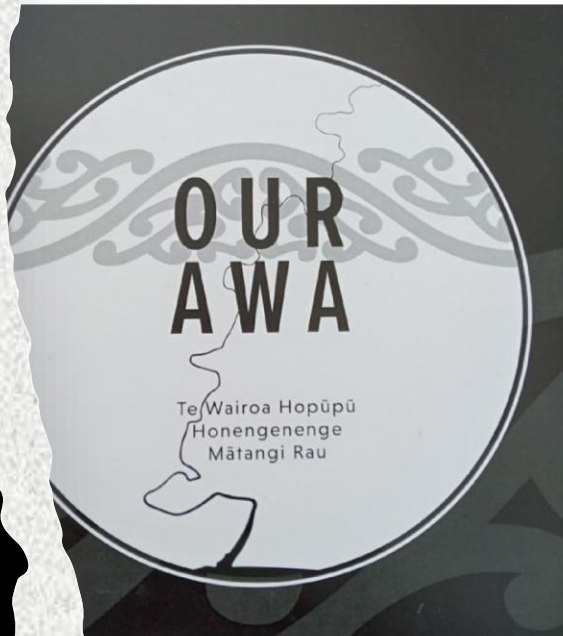
- The single stem meandering rivers are perhaps the hardest to figure out.
- We are best to get the country's best river geomorphologists and engineers, preferably that know Wairoa.

AWA

MAUNGA

NGĀ  
KOHA KĪ  
O TĒNEI  
PITO

RŪAUMOKO



Mauri Limit - ?

Create Mauri Policy

Embed Tikanga



- 
- Mauri – what is the feeling of resilience and connectivity of the site's ecosystems as measured by the level of life force, it's spiritual attributes, heightened senses and connection to taniwha, tipua, kaitiaki
  -

- Rating: 0 – inability to connect with this site, lacking mauri resilience, māuiui
- 1 – a diminished level of mauri
- 3 – a diminished level of mauri but indications of a level of restoration
- 4 – strong connection to this site, resilient ecosystems, mauri ora!









WAIROA TAIWHENUA

