

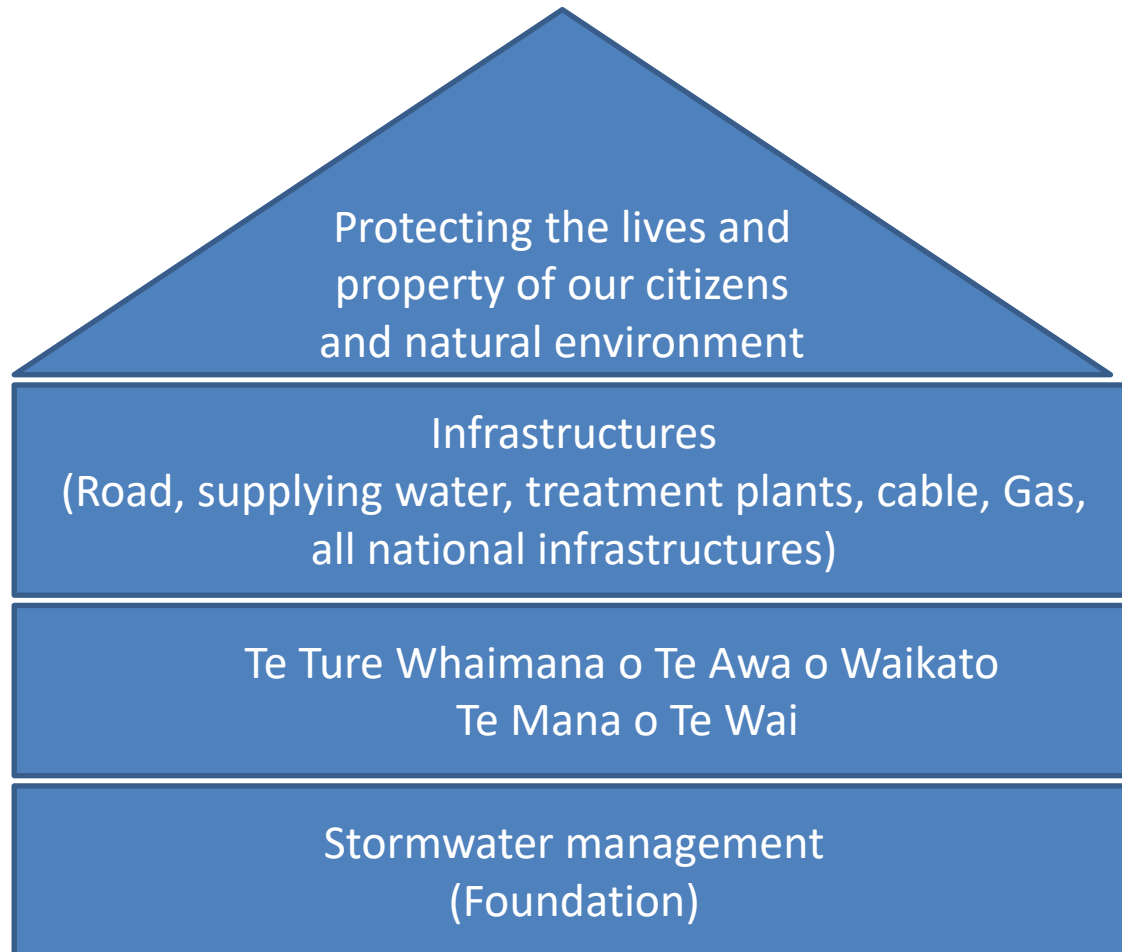
# Stormwater management

June 2023

# Contents

1. What is stormwater
2. Responsibility
3. Overview of district council
4. What Watercare do
5. Stormwater maintenance(Before and now)
6. Case study for rural zones (Matangi, Te Kowhai, Tamahere, etc)
7. Q&A

# What is stormwater



# What is stormwater

## Asset types



Open drains :56km

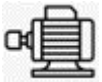


Pipes (km)

Diameter 225mm – 2050mm: 154km



Manholes: 4,434

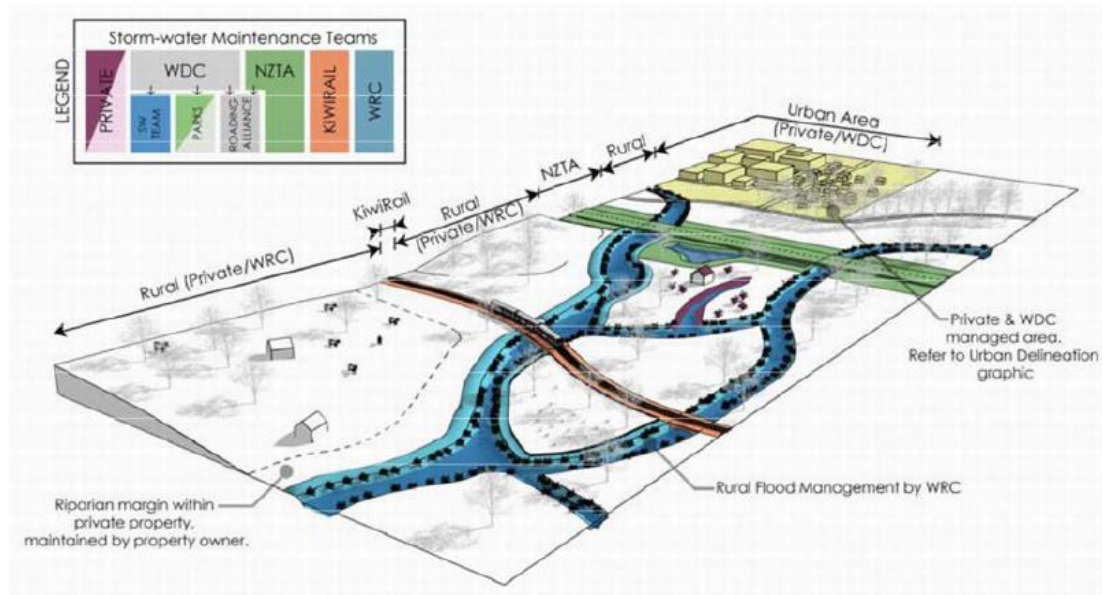


Pumpstations: 3



Discharge points: 759

# Asset Responsibilities



- Stormwater managements stakeholders : WRC/WDC and Watercare/KiwiRail/Waka Kotahi/Private
- Te Ture Whaimana o Te Awa o Waikato and Te Mana o Te Wai
- Rural flooding management: WRC
- Culverts and drainage system under Waka Kotahi and KiwiRail
- Urban Area: Private/WDC – Park, Roding and Watercare (Three waters)

# Overview of District council



No	Location	Consent Number	Expired
1	Glen Massey	105655	22-Sep-28
2	Gordonton	105658	22-Sep-28
3	Hopuhopu	105652	22-Sep-28
4	Horotiu	105653	22-Sep-28
5	Huntly	105644	22-Sep-28
6	Matangi	105659	22-Sep-28
7	Meremere	105648	22-Sep-28
8	Ngruawahia	105645	22-Sep-28
9	Ohinewai	105650	22-Sep-28
10	Pokeno	108592	14-Nov-28
11	Portwaikato	133727	30-Sep-49
12	Pukemiro	105654	22-Sep-28
13	Raglan	105646	22-Sep-28
14	Rangariri	105649	22-Sep-28
15	Taupiri	105651	22-Sep-28
16	Te Kawhata	105647	22-Sep-28
17	Te kowhai	105656	22-Sep-28
18	Tuakau	105051	14-Nov-28
19	Whatawhata	105657	22-Sep-28

- Total of 19 resource consents
- 6 large towns and 13 small villages
- Most consents expire in 2028
- A Stormwater management plan, every 5 years update.
- Consent Renewal required in 24/25 FY

# What Watercare does

- Stormwater network investigation reactive faults
- Detention/wetland mowing and weeding
- Stormwater sampling and monitoring
- Open channel cleaning work(weed removal)
- Maintenance and repair of damaged asset
- Project management e.g.Hakanoa stream, Cambrae Rd
- Primary focus on urban areas(High density of stormwater asset and residential area)
- Catchment management plan
- Development growth enquires (Land development)
- Planning and Infrastructure delivery

# Stormwater maintenance (Past and future)

## Previous stormwater maintenance

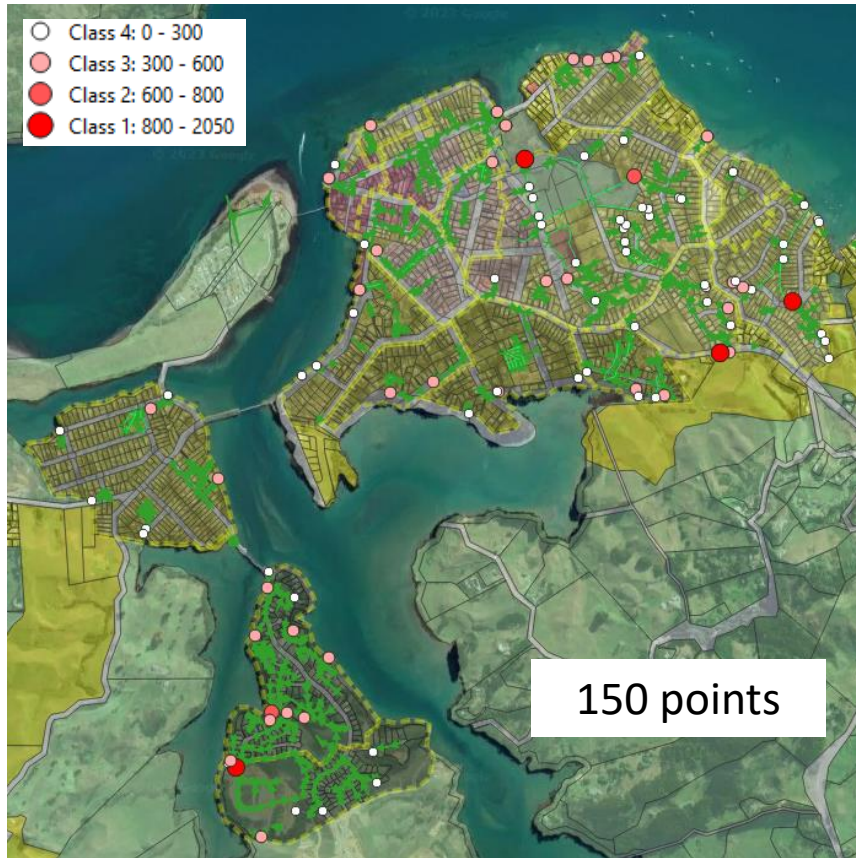
- Stormwater asset planning management has been neglected for years
- This has made it was difficult to make informed decisions for budget allocation
- Without a detailed maintenance programme achieving compliance for discharge consents is unrealistic
- Without proper monitoring and maintenance programme, capital budget allocation is difficult, what is the highest priority.

## Future stormwater maintenance/management should be changed like below

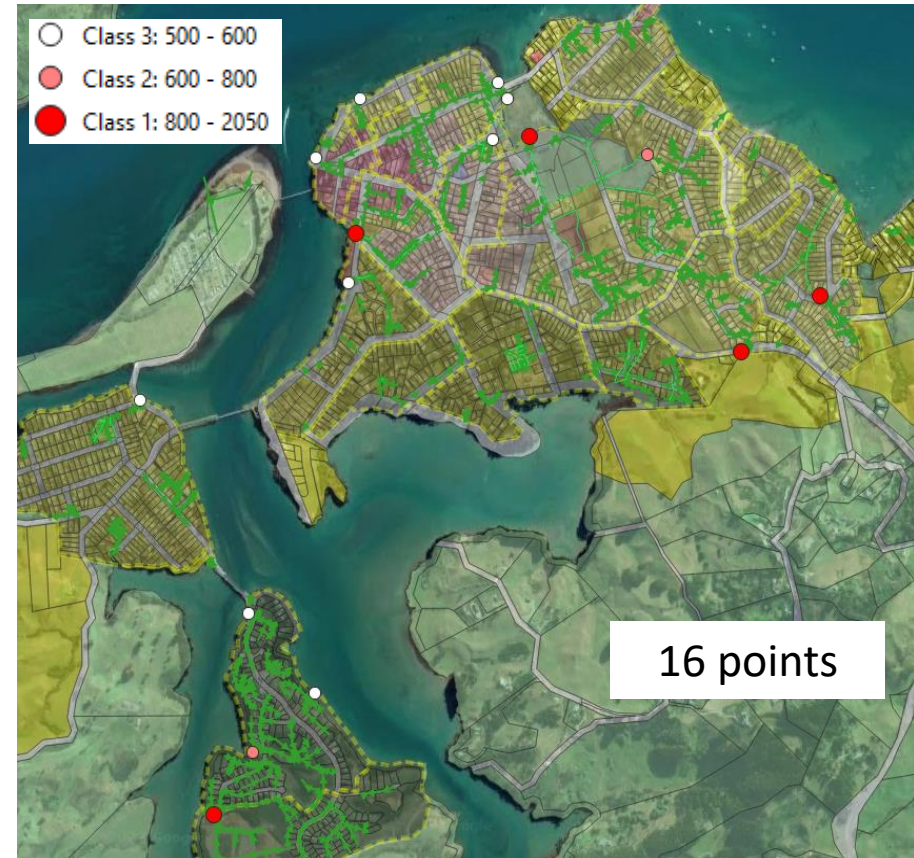
- Creating a robust asset planning management
- This will support informed decision making in terms of budget allocation
- We can comply discharging consents based on proper maintenance programme
- We could identify CAPEX budget items through the maintenance/management programme



# Stormwater outlet asset management



Raglan(Before)



Raglan(After)

# Case studies for rural zones (Responsibility)

## 6. Case study-Te Kowhai(Rural zone) flooding



There is no WDC/Watercare stormwater pipe network asset -> Rural management by WRC

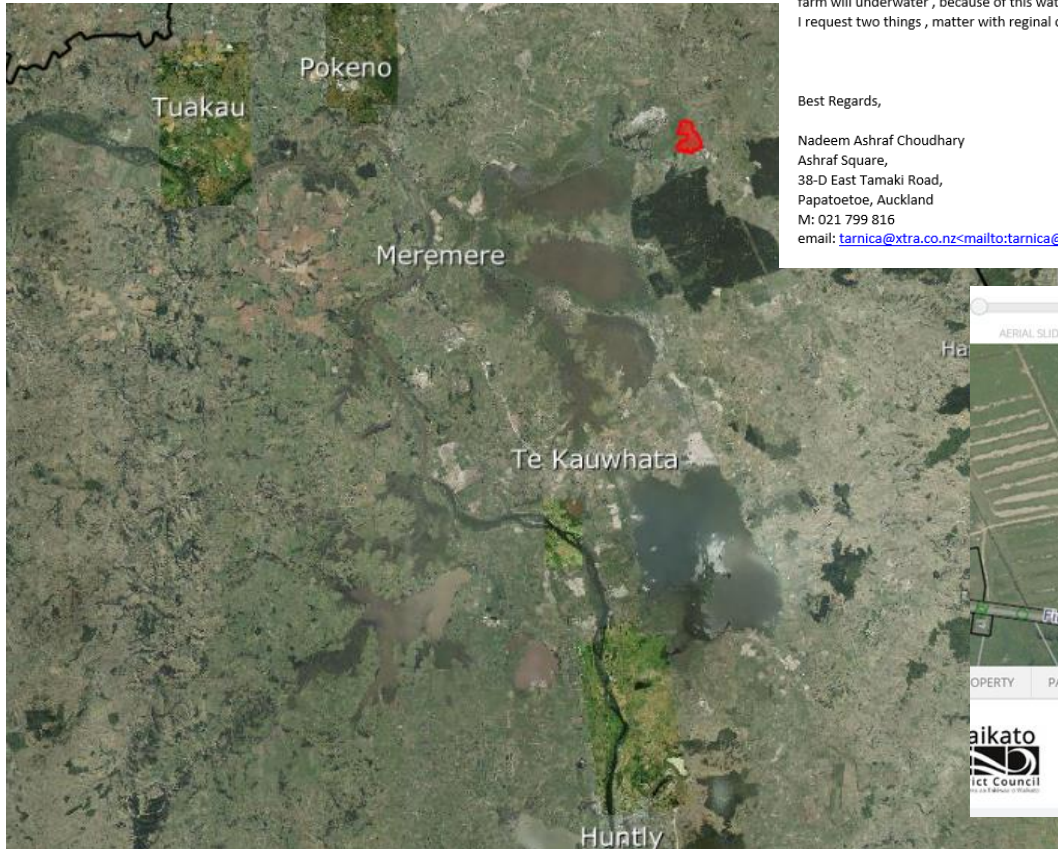
# Case studies for rural zones (Responsibility)

## 6. Case study-1111 Kopuku Rd(Rural zon

I write to you, because I need help, and it's your area ,  
I bought 96 hector land on kopuku road, maramura, last year, august last year lot of rain, and then stream overflow, and water flooded in my farm lower part, sir they no take any action, so they cant do it, but clear the flood water state responsibility, if that water pump out, then I make the agreement not water coming ne  
Second problem, my farm and across the road farm one farm, so across the road, two places . water coming to my farm continually like, small water fall, its going farm will underwater, because of this water, I request to council to treat this water , proper drainage till to stream , not to my farm land ,  
I request two things , matter with reginal council , I want to do it before coming raining sesaon

Best Regards,

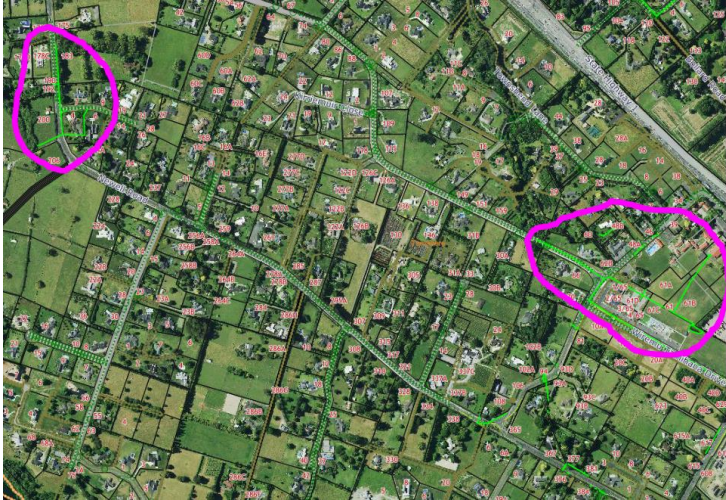
Nadeem Ashraf Choudhary  
Ashraf Square,  
38-D East Tamaki Road,  
Papatoetoe, Auckland  
M: 021 799 816  
email: [tarnica@xtra.co.nz](mailto:tarnica@xtra.co.nz)<<mailto:tarnica@xtra.co.nz>>



There is no WDC/Watercare stormwater pipe network asset -> Rural management by WRC

# Case studies for rural zones (Responsibility)

## 6. Case study- Tamahere, (Rural zone)



Tamahere (Sporadic stormwater network)



Tamahere ( Natural open channel)

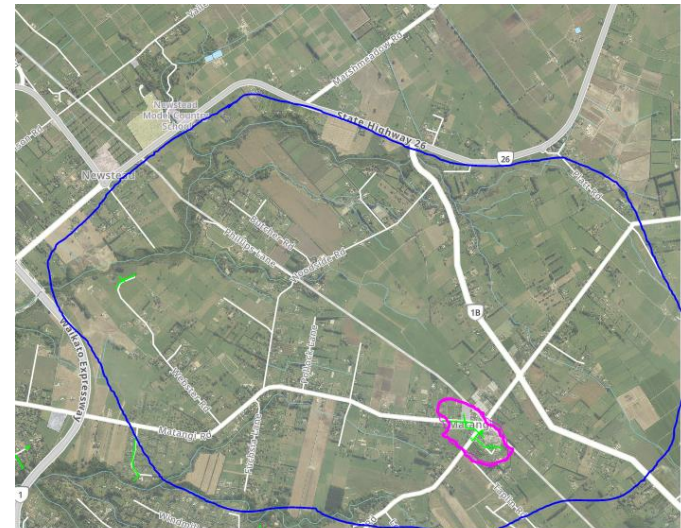
- Sporadic stormwater network
- Most of house has septic tanks/detention tanks and soakage drainage- discharging to small ditch or road swale
- WDC responsibility except for pipe network, (stand-alone single and tiny line of pipe asset/culvert nothing to do with WSL)
- Natural open stream channel's are not within Watercare area of responsibility

# Case studies for rural zones (Responsibility)

## 6. Case study-Matangi (Rural zone)



Matangi(SW network)



Matangi(Open stream), small portion of network

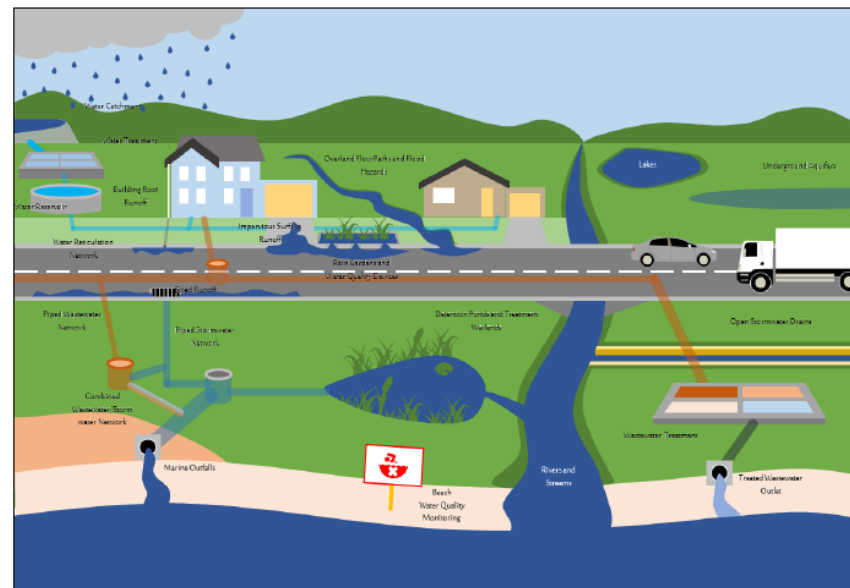
- Sporadic stormwater network
- Most of house has septic tanks/detention tanks and soakage drainage- discharging to small ditch or road swale
- WDC responsibility except for pipe network, (stand-alone single and tiny line of pipe asset/culvert nothing to do with WSL)
- Natural open stream channel is out of Watercare business boundary

# Affordable Waters reform

## Stormwater transition programme for urban Stormwater networks- Key activities

Focus is on transition – the key areas to support transfer of responsibility for urban stormwater infrastructure services are:

- Transfer stormwater network infrastructure and function
  - Decision-support tool to support the identification of urban stormwater network assets and interests that would transfer to the water service entities
  - Support development of system of record, and allocation schedule (transfer) processes
- SW content Relationship and Service Level Agreements
  - Develop SW content, support process to negotiate and agree the future arrangements
- Support Councils to contract the water services entities to provide rural drainage services
- Enable development of Stormwater instruments for day 1
  - Develop Transitional Stormwater Management Plans
  - Develop best practice Stormwater rules ( based on Bylaws)
- Support the development of national guidance for urban stormwater modelling guidance
- Subject matter expertise to other workstreams (as required)



Thank you

Any questions?