

**Christchurch West Melton Water Management Zone  
Committee  
MINUTES ATTACHMENTS**

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**Date:** Thursday 25 May 2023  
**Time:** 6pm  
**Venue:** Te Hapua Halswell Library, Piharau Room, 341  
Halswell Road, Halswell

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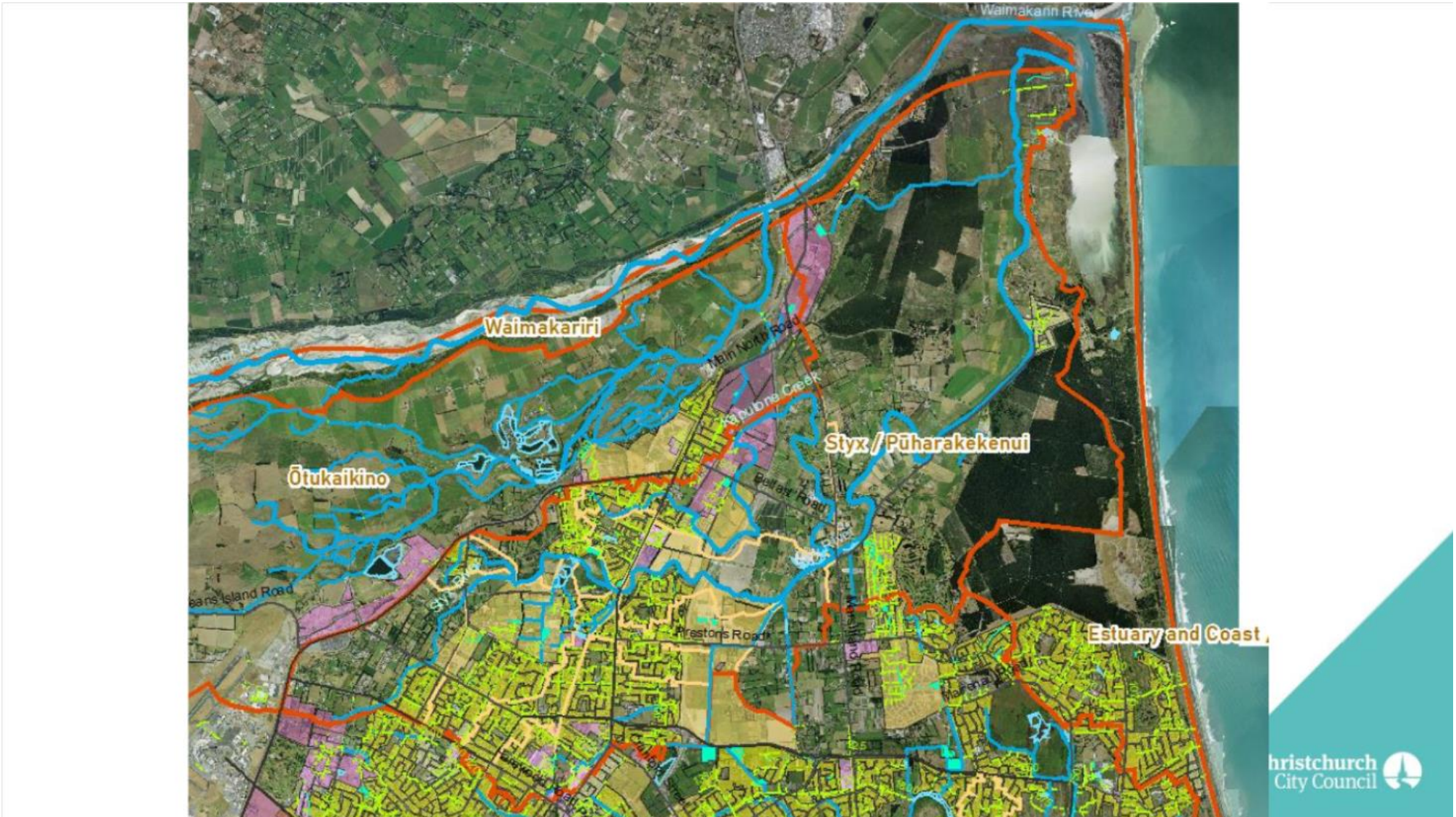
# Pūharakekenui-Styx Stormwater Management Plan



Christchurch-West  
Melton Water  
Management Zone  
Committee  
Briefing  
Thursday 25 May 2023

## Presentation topics

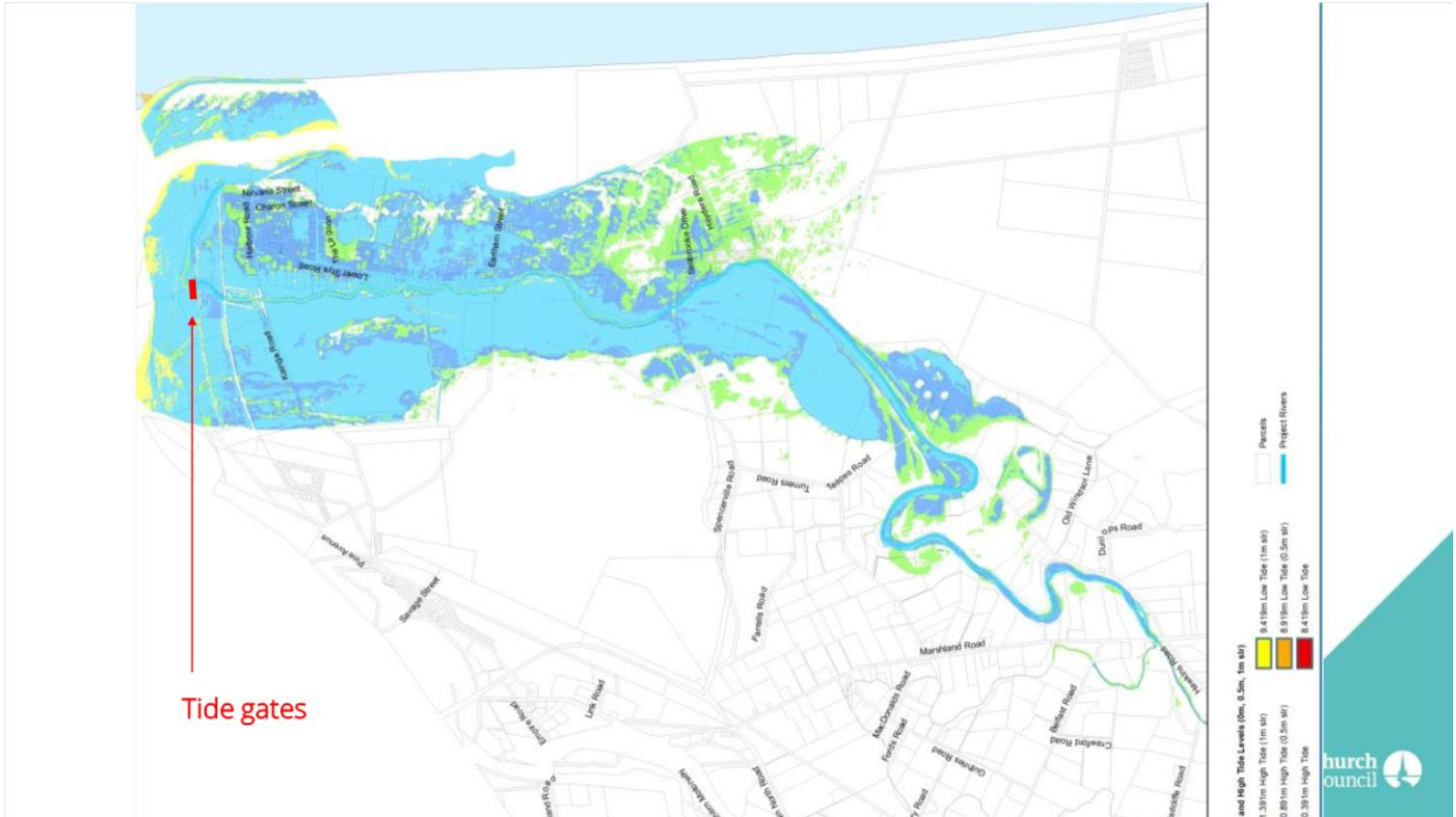
1. Pūharakekenui-Styx Catchment
2. What is a stormwater management plan.
3. What's different about Pūharakekenui-Styx Catchment?

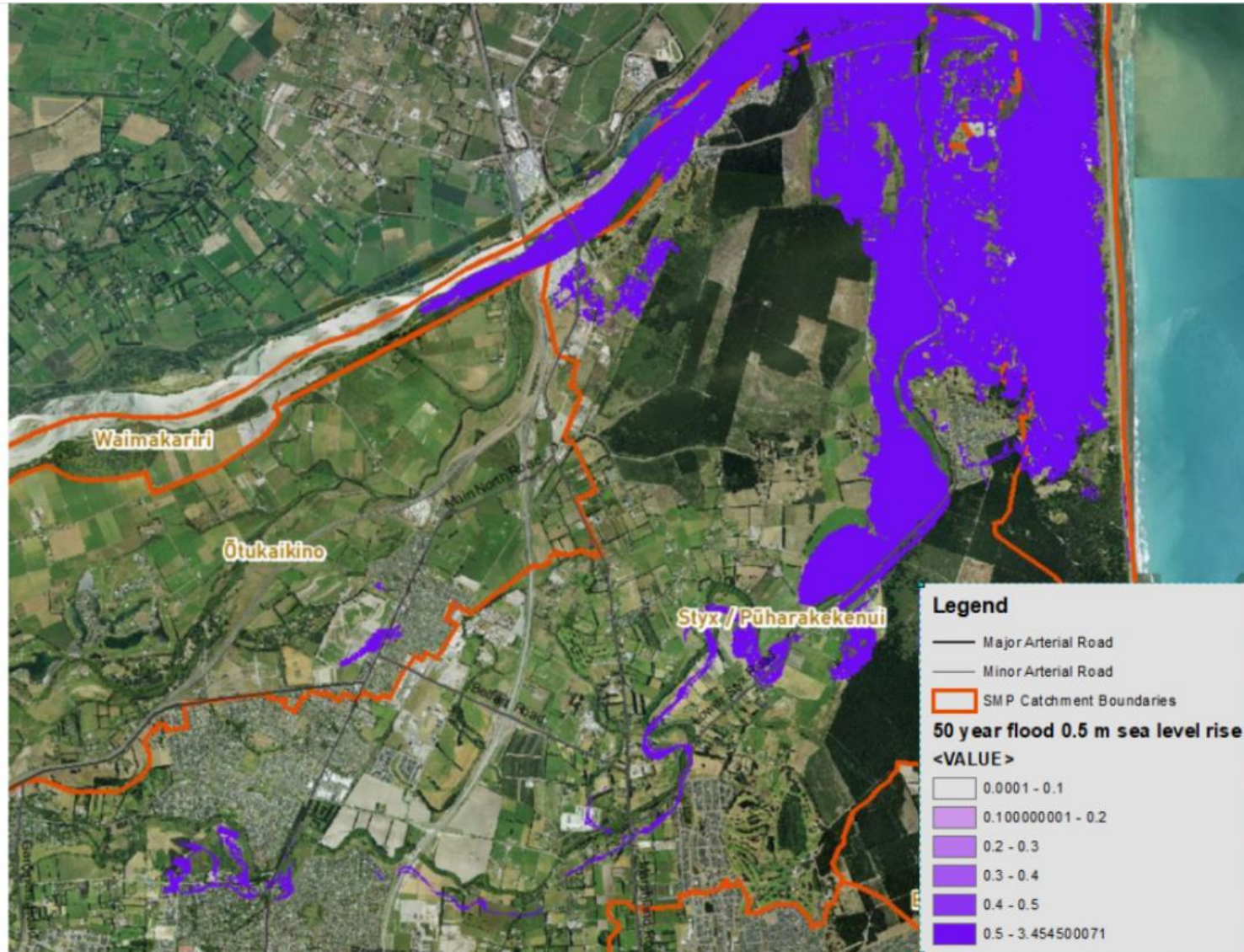




## Flooding

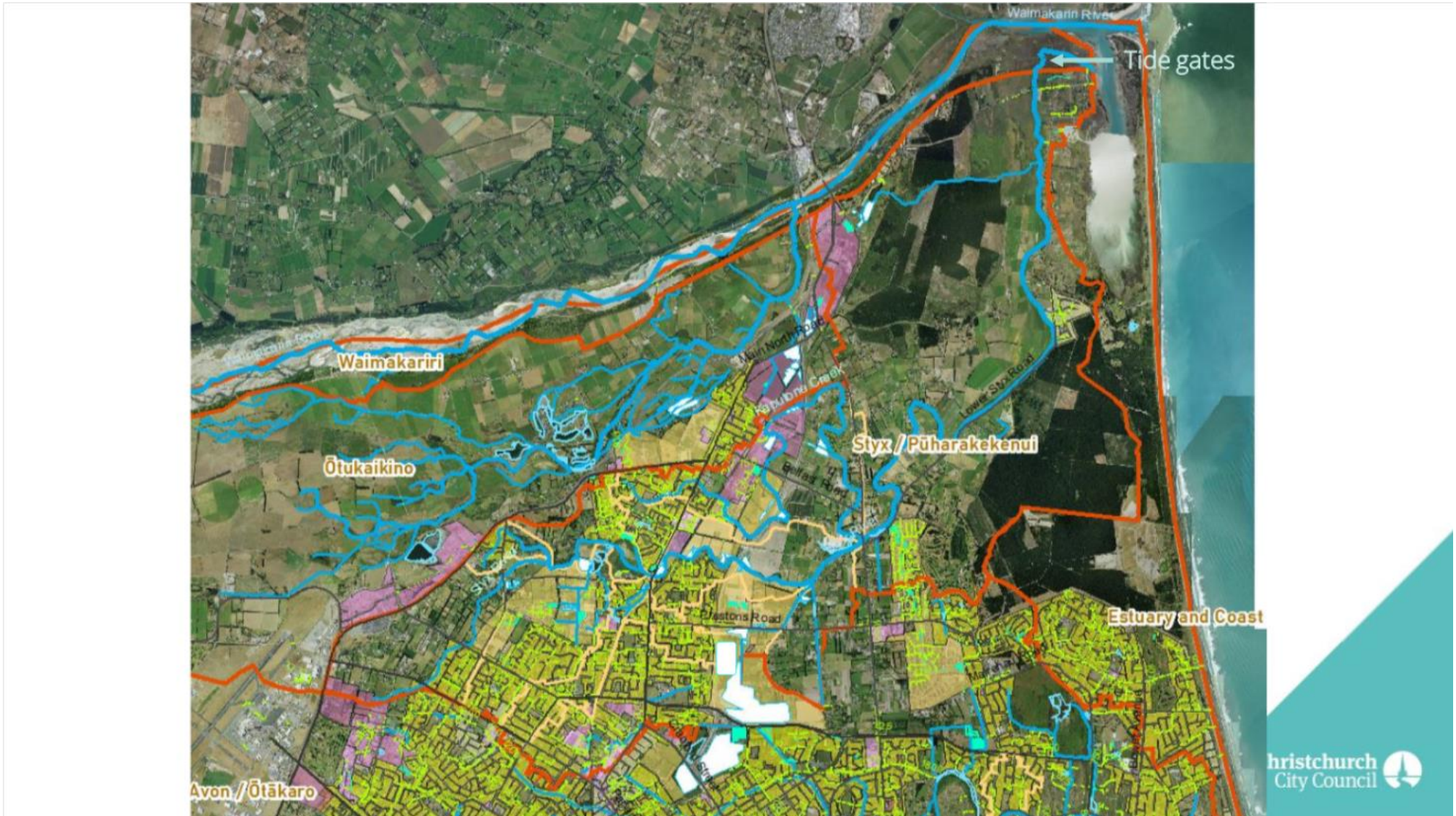
- Pūharakekenui-Styx River rises within the catchment
- Contained within the channel through built-up areas
- Lower catchment is a flood ponding area – (tide gates)
- Aquatic macrophyte growth affects water levels downstream of Radcliff Road
  - +0.3 m average
  - +0.7 m in extreme





## Contaminants

- Usual range of urban contaminants
  - TSS: roads and construction
  - Copper: brake pads
  - Zinc: roofs and tyres
- Each new development mitigated through basin + wetland
- Large ponding areas Cranford North Basin (north of QE2 Dr).
- Best available treatment for Kruses Drain and Prestons Creek catchments.



Contaminant	Reduction by ...	Effective?	Difficulty	Comments
<b>Copper, Zinc, TSS</b>				
All urban areas	Treatment basins			Older systems
	Basin + Wetland			<b>Current practice</b>
	Cartridge filter			Compact
	Road sweeping			CCC does some
	Low-Cu brake pads			Depends on Cu %
<b>Zinc</b>				
Roofs	Paint roofs			Voluntary only
Tyres	Downpipe filters			Voluntary only
Tyres	New tyre compound?			No substitute for Zn
<b>Sediment</b>				
Building sites	Better on-site practices			Industry resistance
Roads	Trap sediment			Problem is extensive



= The Council is not able to implement this mitigation with current powers.

End