

Waitangi Catchment

Duncan Kervell: Land Management Advisor 18 June 2014



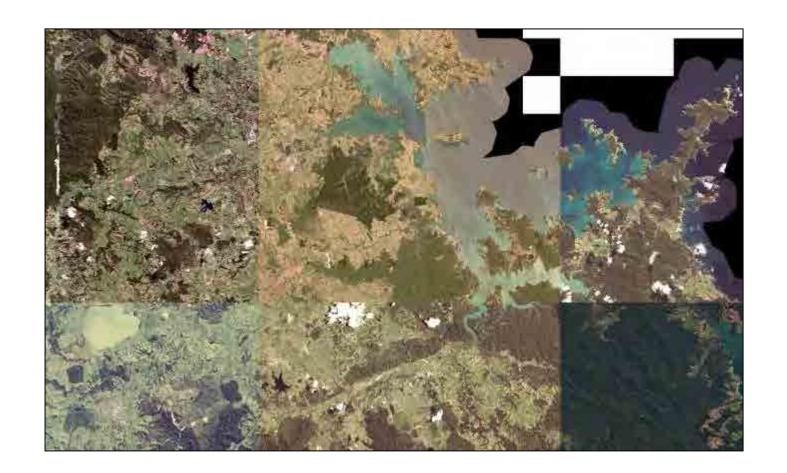


Introduction to the Waitangi

- The Waitangi river catchment is 302 km² or 30,200 ha
- Land uses include grassland, forest, exotic forest, manuka/kanuka and exotic shrublands.
- 2 main rivers: Upper Waitangi and Waiaruhe rivers that form the main Waitangi river.
- 5 Subcatchments:
- 1) Manaia Stream; 2) Puketotara; 3) Waiaruhe; and the 4-5) Upper and Lower Waitangi River sub-catchments

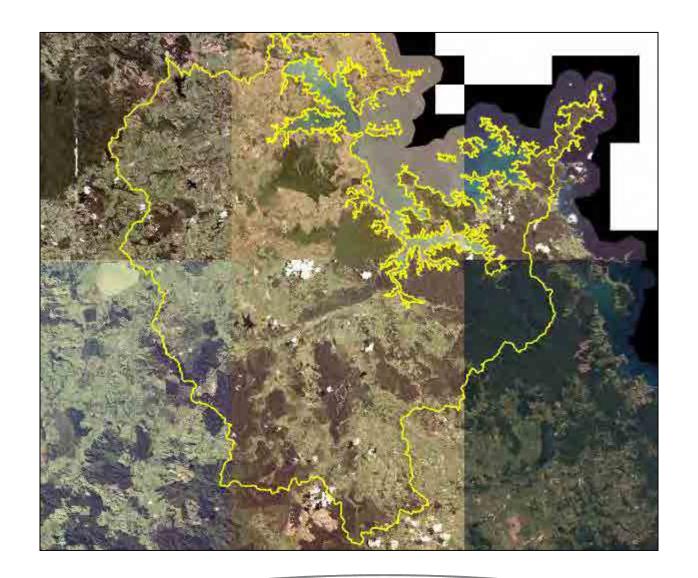






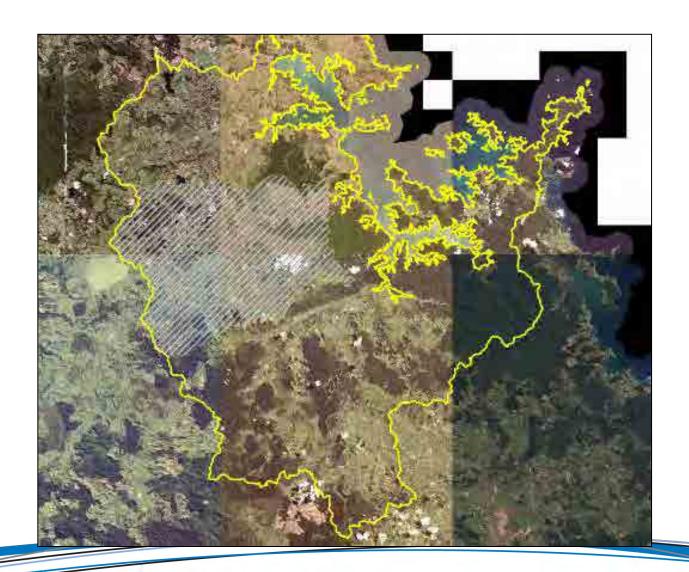












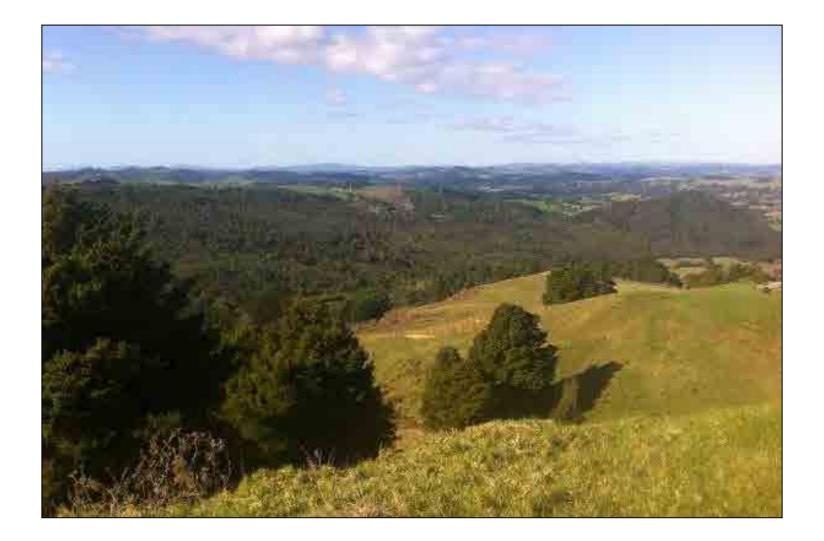






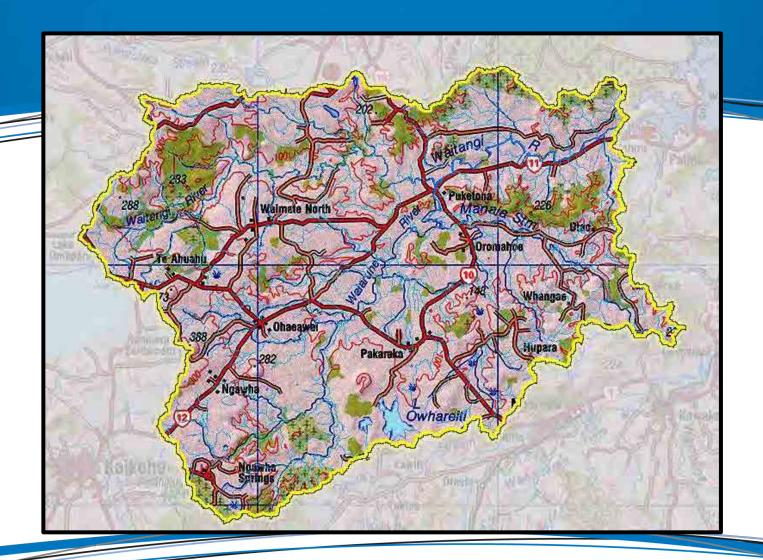
















National Policy Statement for Freshwater Management 2011

"For communities to make the recommendations for catchment management. We need to gain an understanding of the catchment".





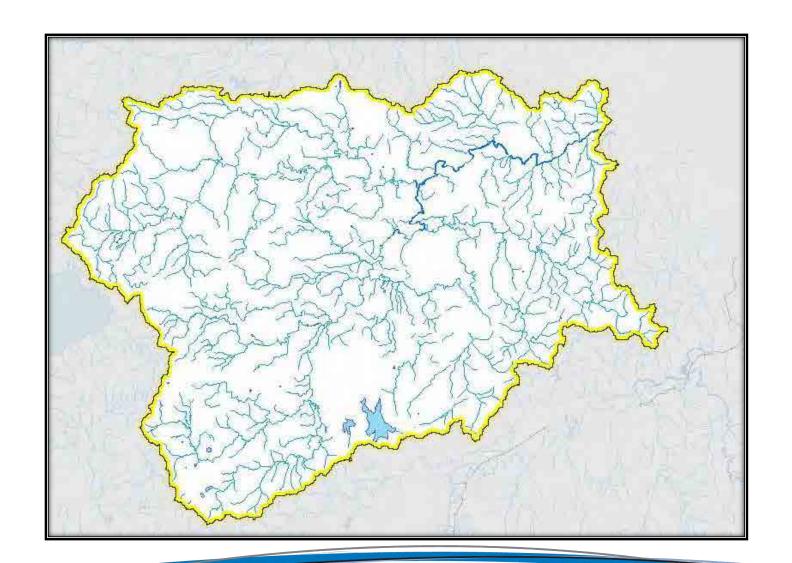
National Policy Statement for Freshwater Management 2011

NPS states:

- Improve overall water quality in a region.
- Manage land use, water discharges and water allocation within environmental limits.
- <u>Find</u> ways to improve water quality standards at a catchment and regional scale.









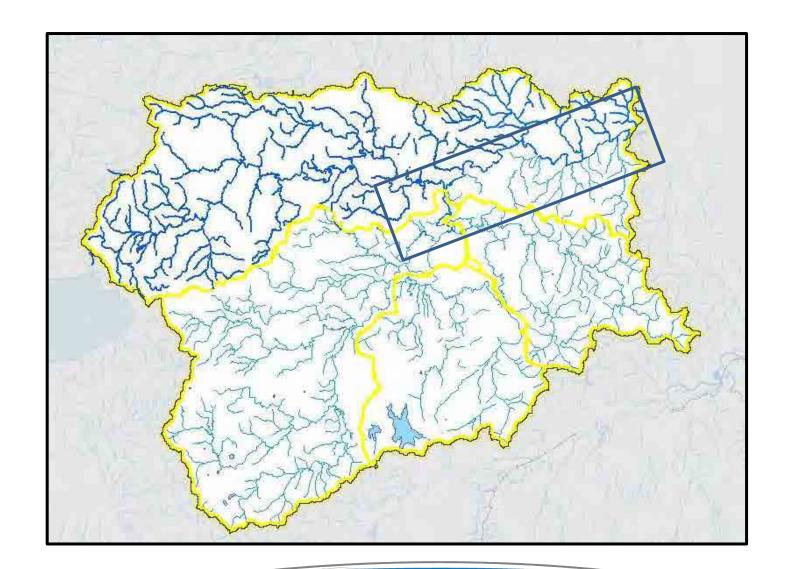


Puketona Junction



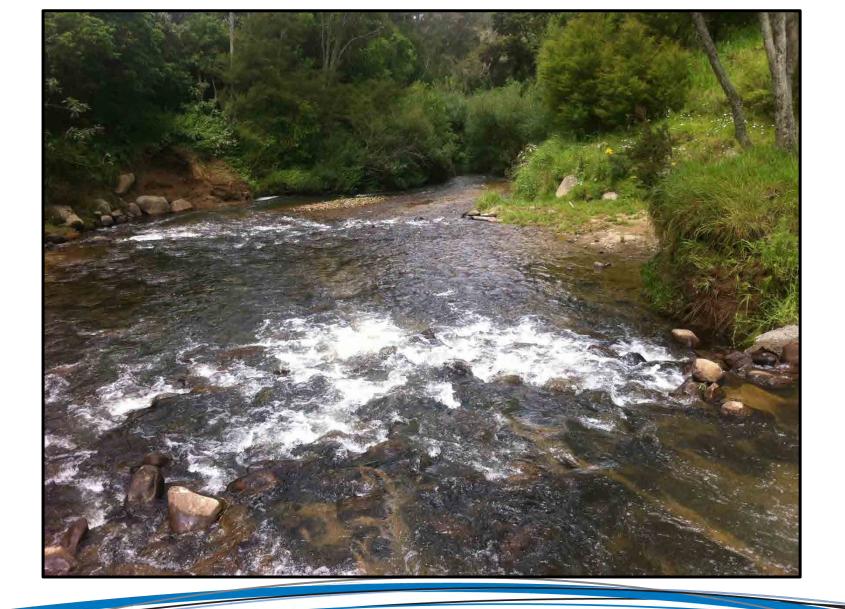








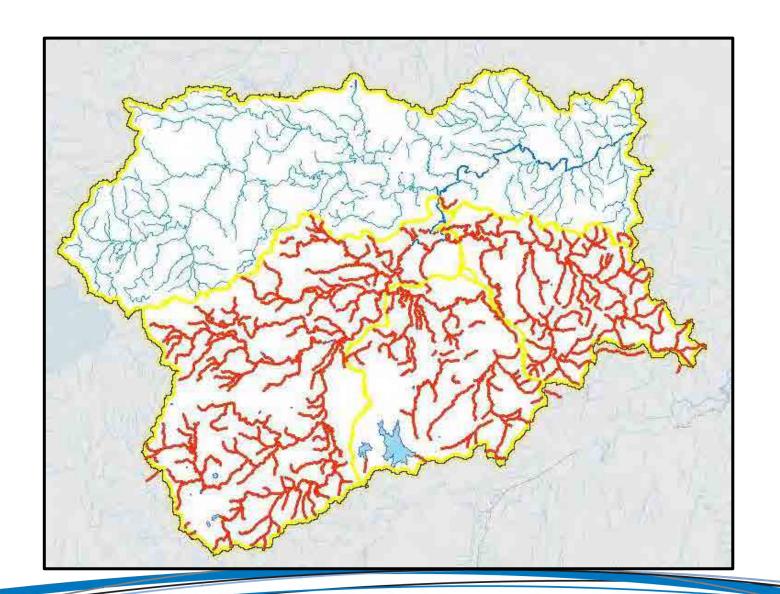






Upper Waitangi: Waimate North :Cooks Lane





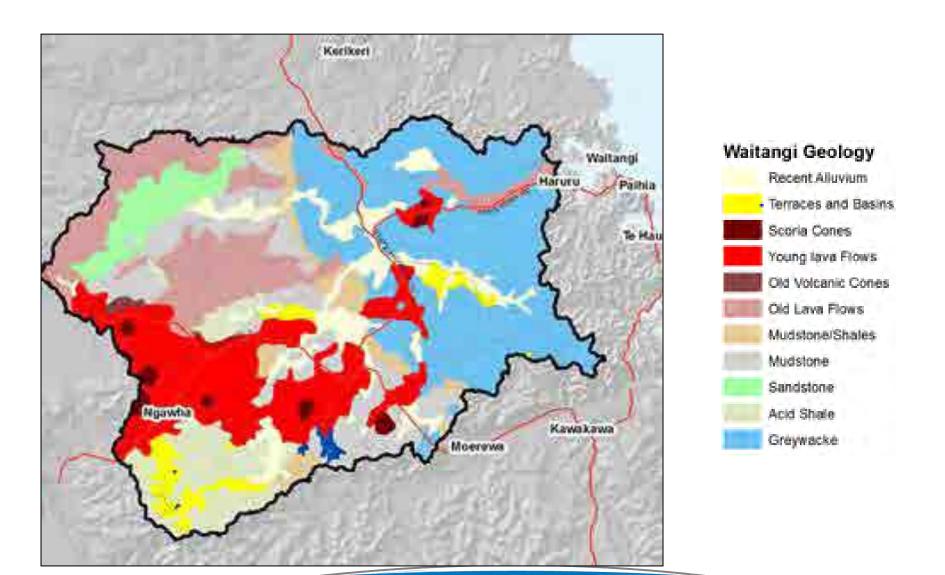




Soil, Water, Wetlands Lakes, Geology, Landscape, Land Use, Land Management, Natural Ecosystems, **Native Species,** Fish & Eels Kiwi, Natural disturbance verse Human Influence, **Hydrothermal Community values and needs** and More!.









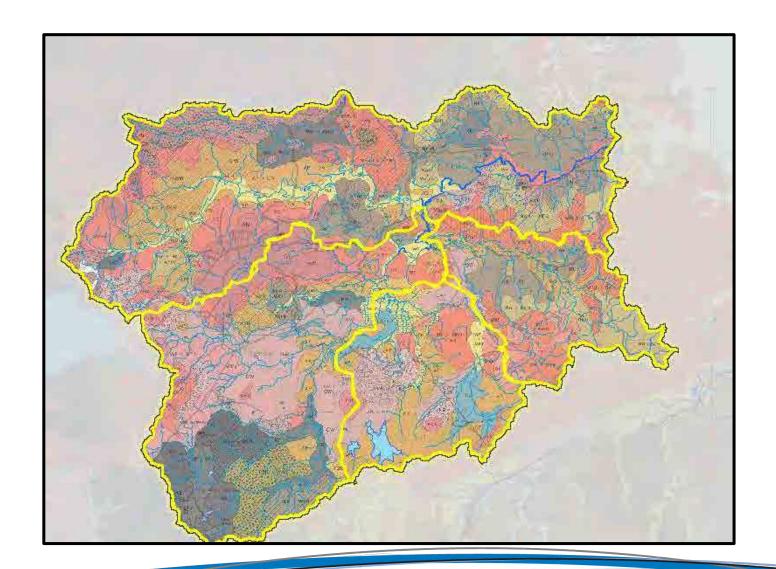


















Hukerenui silt loam with yellow subsoil



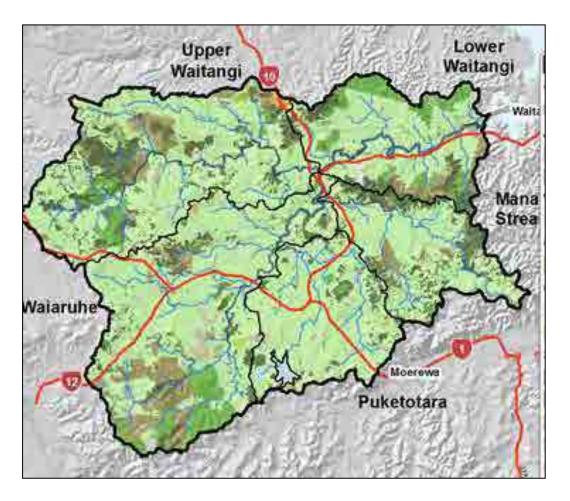
Kiripaka silt loam



Okaihau gravelly friable clay







Native Forest: 14 %

 Manuka Kanuka / Native Shrub : 6%

Pastoral Farming: 68 %

Exotic Plantations: 8%

Exotic Shrublands: 1%





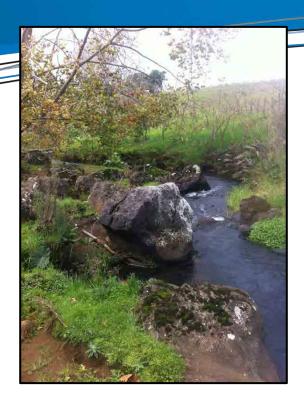
The Rivers



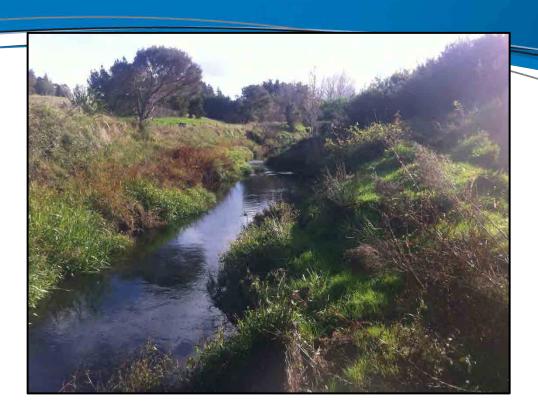




The Rivers



Pekepeke Stream : Ohaewai



Stream: Pakaraka





Floods and High Water



SH10: Puketona Junction 26/07/2008



Upper Waitangi: 26/07/2008





Stream bank Erosion



Waiaruhi:



Upper Waitangi : Bulls Gorge Farm





















Where now?

- The Waitangi is a priority catchment
- Studies and focus and water quality monitoring.
- NRC filling gaps in knowledge.
- Scientific and accurate basis for discussion, consensus forming and recommendation making.
- Working towards am improved Waitangi River and Bay of Islands.
- First year is learning...





- Thank You
- Any Questions?



