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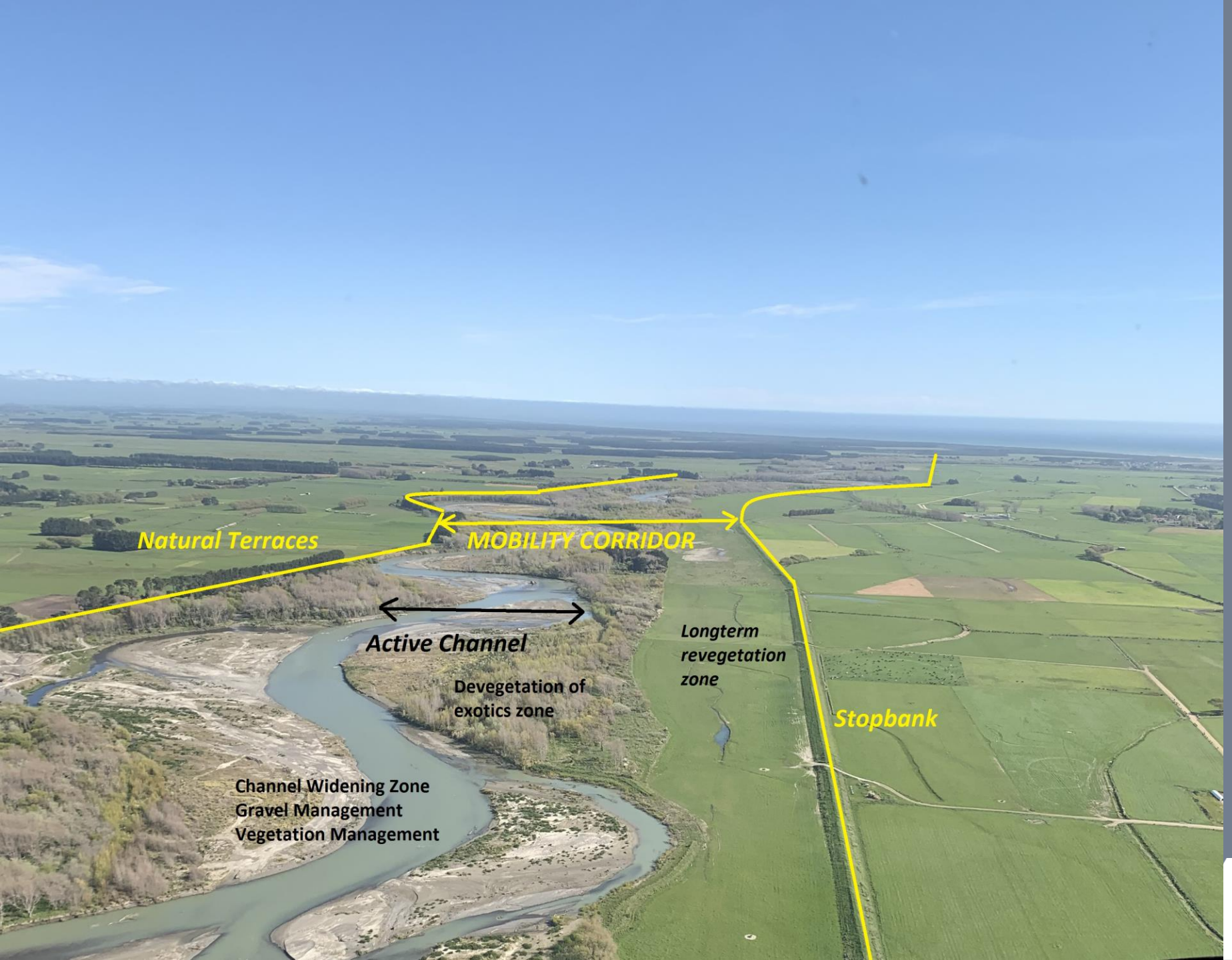
OROUA AND POHANGINA CATCHMENTS NATURE-BASED FLOOD MITIGATION SOLUTIONS


Natural Terraces
MOBILITY CORRIDOR
Active Channel
Devegetation of exotics zone
Longterm revegetation zone
Stopbank
Channel Widening Zone
Gravel Management
Vegetation Management

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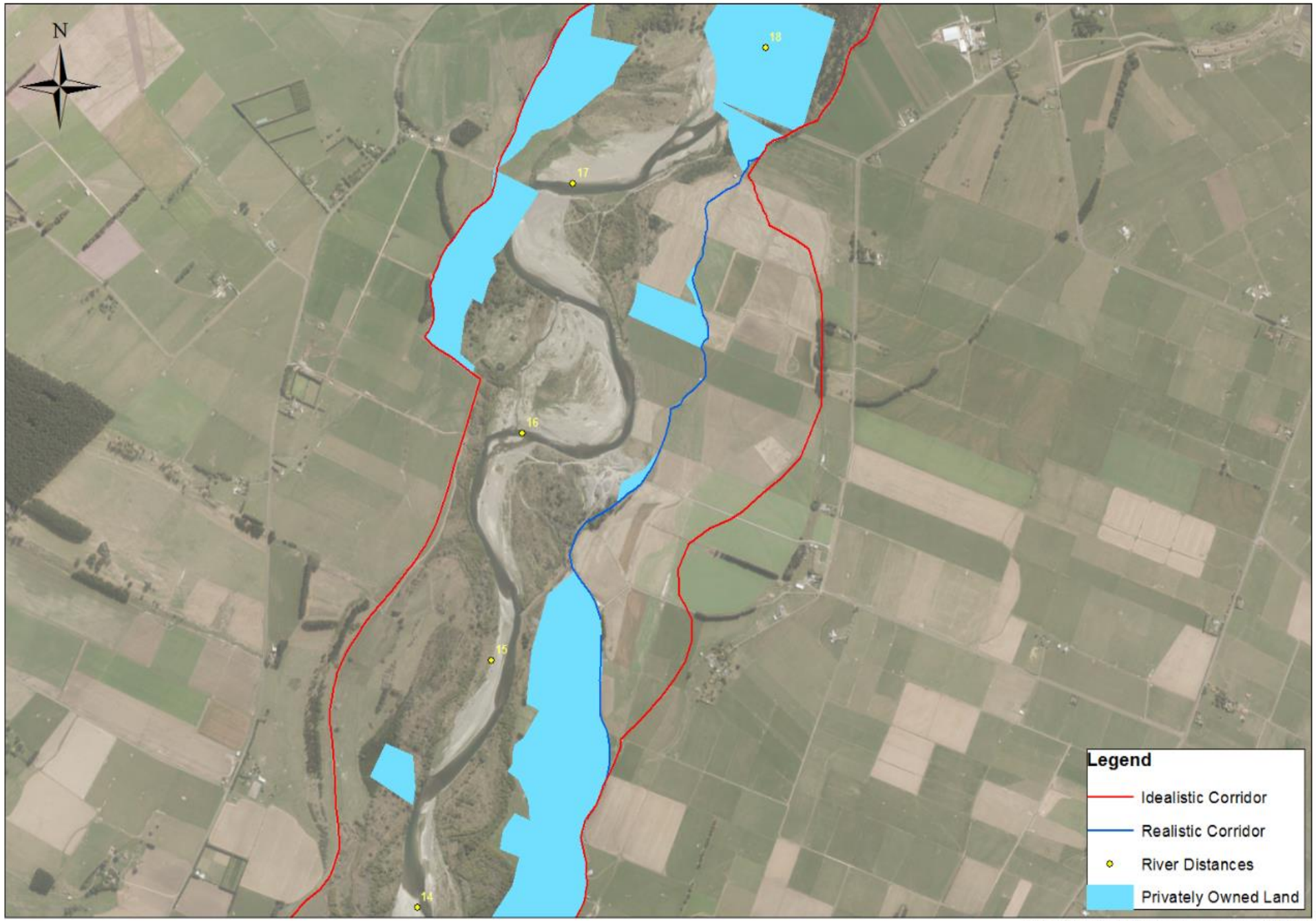
The work is based on increasing resilience across a range of parameters for the two catchments. We have had a go at an initial drafting of these however, are open to additional considerations and comments:

1. Ecological resilience by providing gravel beaches, improving riparian zones, widening corridors for native species movement between the ranges and the floodplains, increasing bird habitat, and recreating in-river habitat by allowing habitat complexity with pools, riffles, runs, meanders and side channels;
2. Engineering resilience by increasing the channel size, increasing the capacity to maintain river flows within the defined channel/s, and less on-going design;
3. Financial resilience by decreasing the requirements to highly confine the river/s and the associated infrastructure to maintain the river within a highly confined channel, reducing future flood damage and on-going repairs and maintenance of tightly confined systems; and
4. Community wellbeing by creating open river spaces that the community can access, use and interact with.

These aerial photographs show a semi-braided river in the 1940s which has been managed into a single entrenched channel by 2020.



0 435 870 1,740 m

Rangitikei River Corridor Analysis (14 to 18 km)

Privately Owned Land in some cases crosses multiple parcels.
Refer to LINZ Land Parcels for individual land parcels.
Purpose is to provide indicative area calculation only.

Rangitīkei River Whiskers erosion hole threatening stopbank

Oroua River downstream of the Kopane Bridge

OVERVIEW

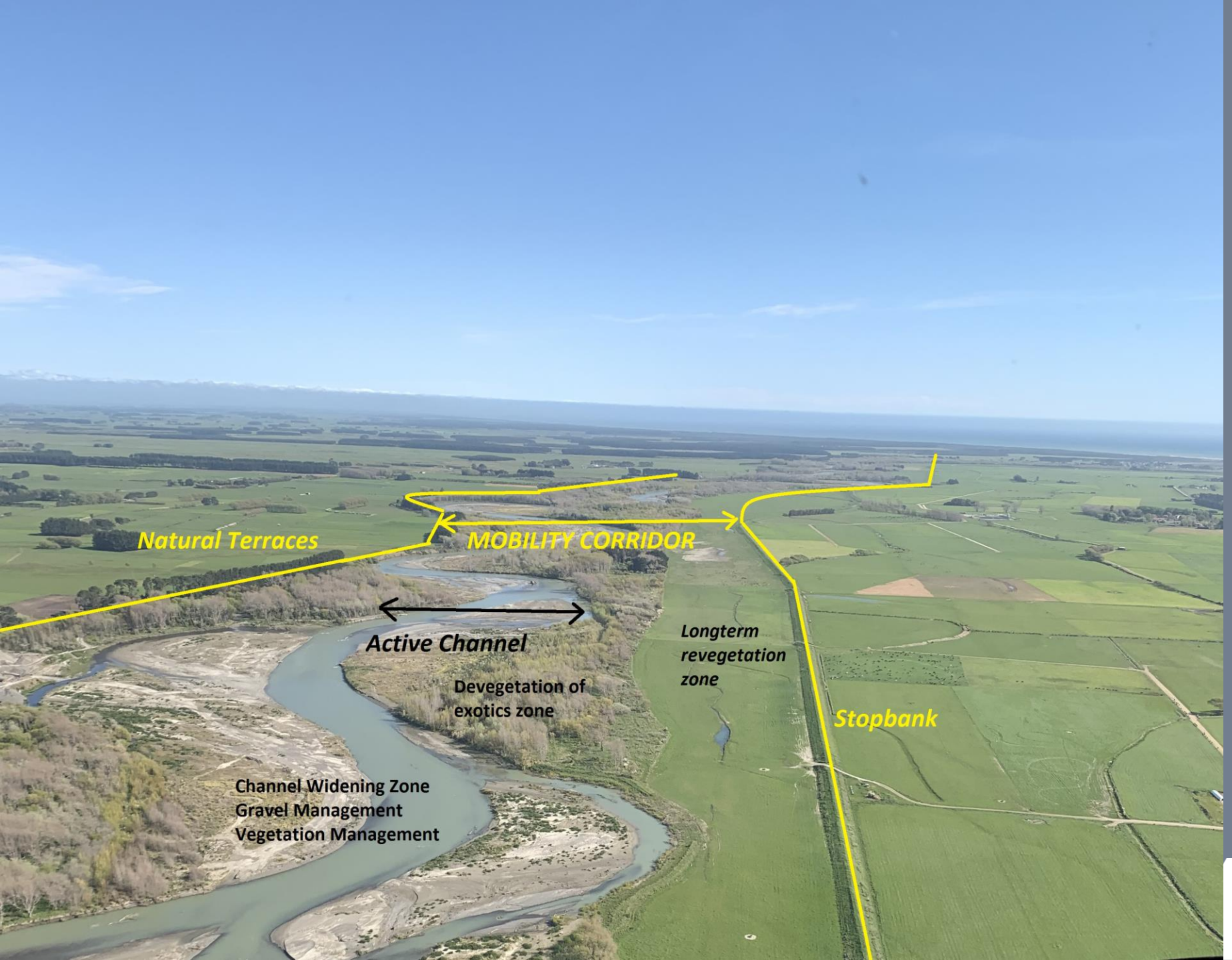
- Introduction to how we got here;
- Overview of funding
  - Timeframes;
  - Deliverables;
  - Governance Group;
  - ToR;
  - Reporting.

HOW WE GOT HERE……

- Funding opportunity for Councils after Cyclone Gabrielle through MfE;
- Funding was for feasibility studies, on-the-ground projects (e.g., riparian planting) would not be considered, although on-the-ground data collection required as part of proposed studies was acceptable.
- Initially HRC wasn't going to apply due to resourcing issue however, this decision was changed 2 weeks prior to application closing;
- Applications closed 16 June 2023;
- 500K applied for 300K funded.

OVERVIEW OF FUNDING

- **Project name** – Oroua and Pohangina catchments nature-based flood mitigation solutions;
- **Project Objective** – To conduct a feasibility study that looks at whether management practices such as channel symmetry, alignment and confinement are still relevant and to further explore the concept of mobility corridors in the Oroua and Pohangina Rivers;
- Completion date of June 2025;
- $300,000 total in funding (120k year 1, 180k year 2);
- Six monthly reporting (including employment hours);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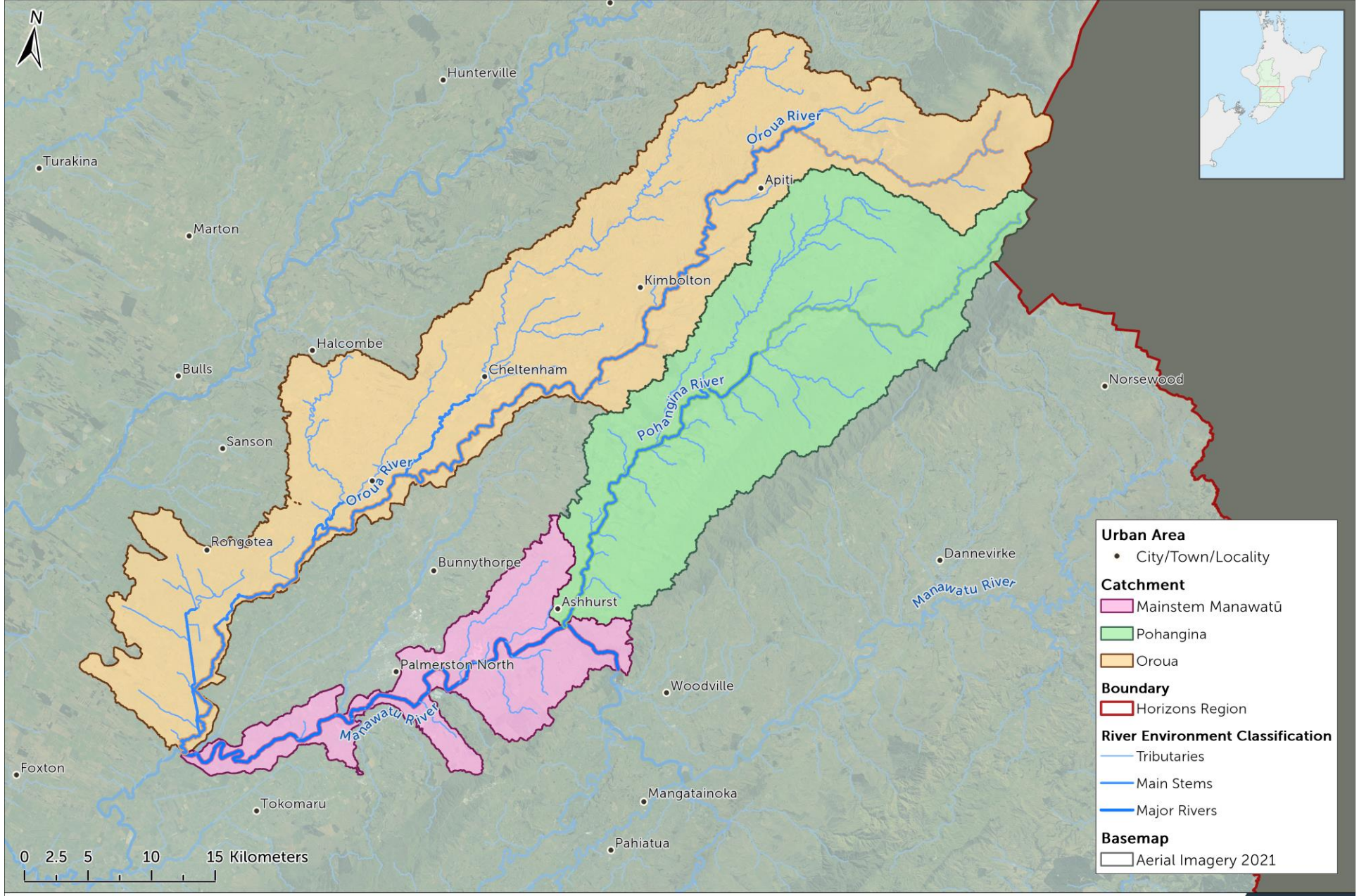
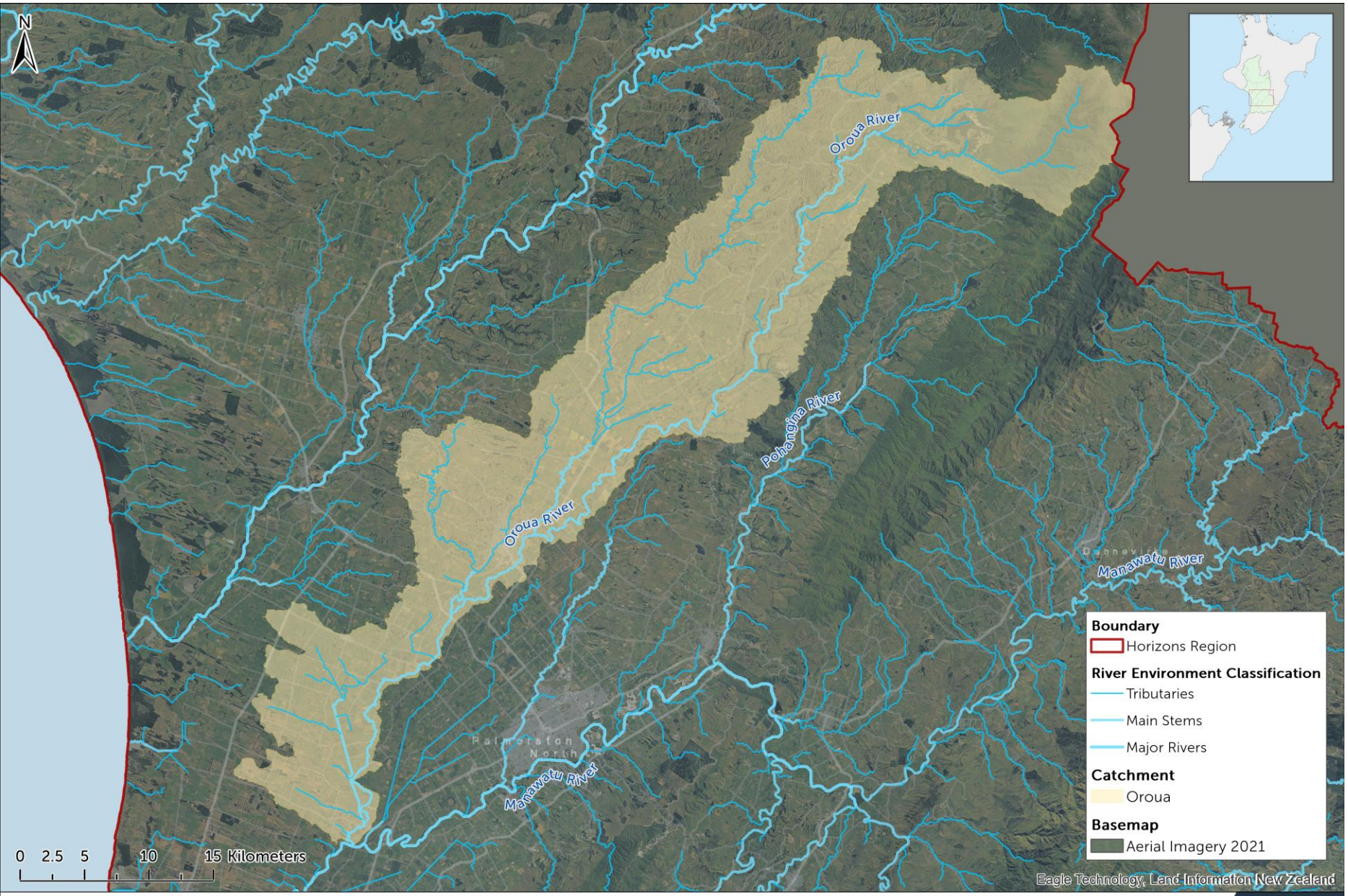


Oroua and Pohangina River Project

Oroua, Pohangina, and Manawatū (from confluence with Oroua to Gorge)

Prepared by: Ruby Stevens, Freshwater Team
Date: 26/10/2023



Oroua and Pohangina River Project

Oroua Catchment

Prepared by: Ruby Stevens, Freshwater Team
Date: 22/11/2023

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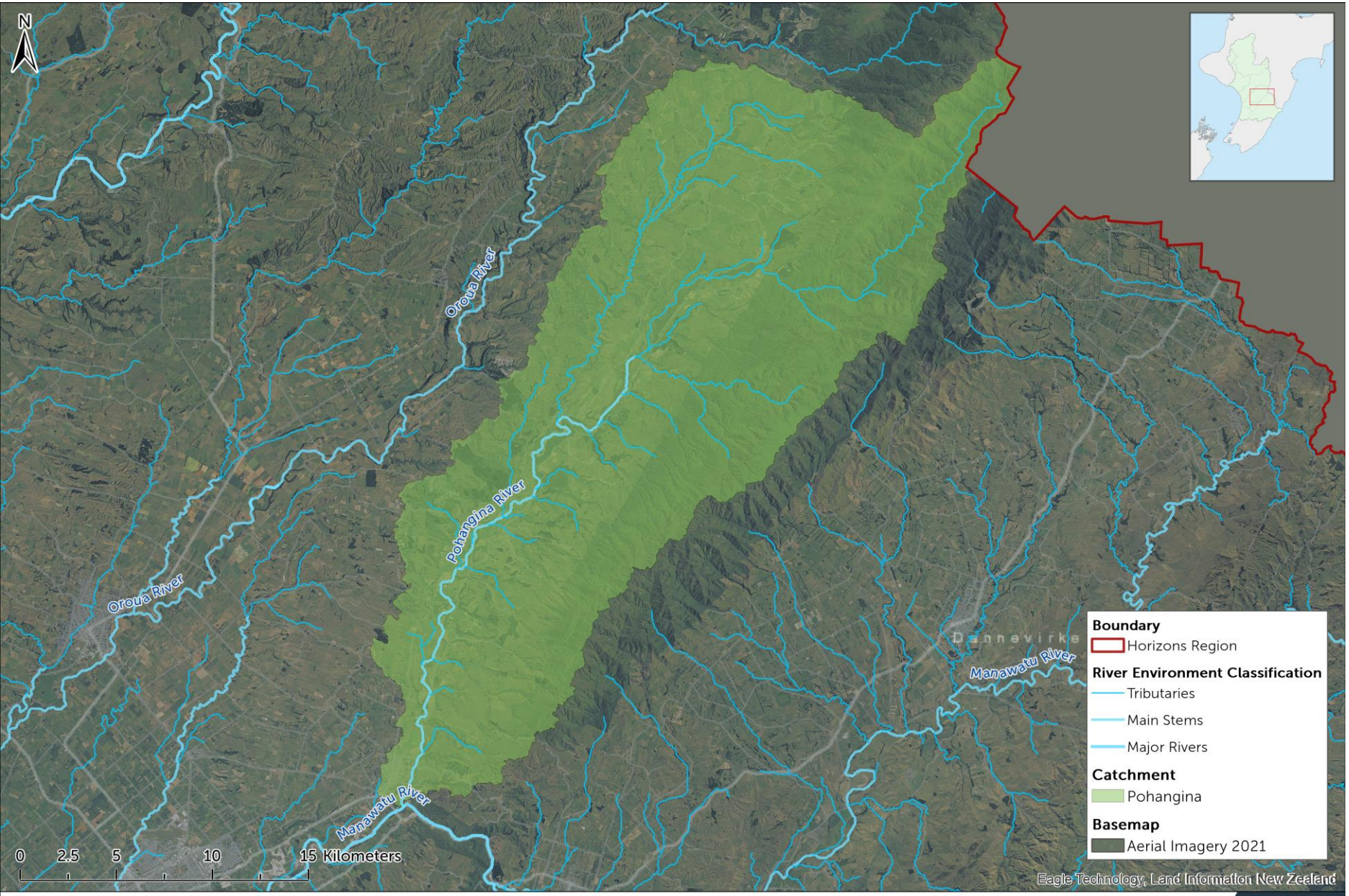

Oroua and Pohangina River Project

Pohangina Catchment

Prepared by: Ruby Stevens, Freshwater Team
Date: 22/11/2023

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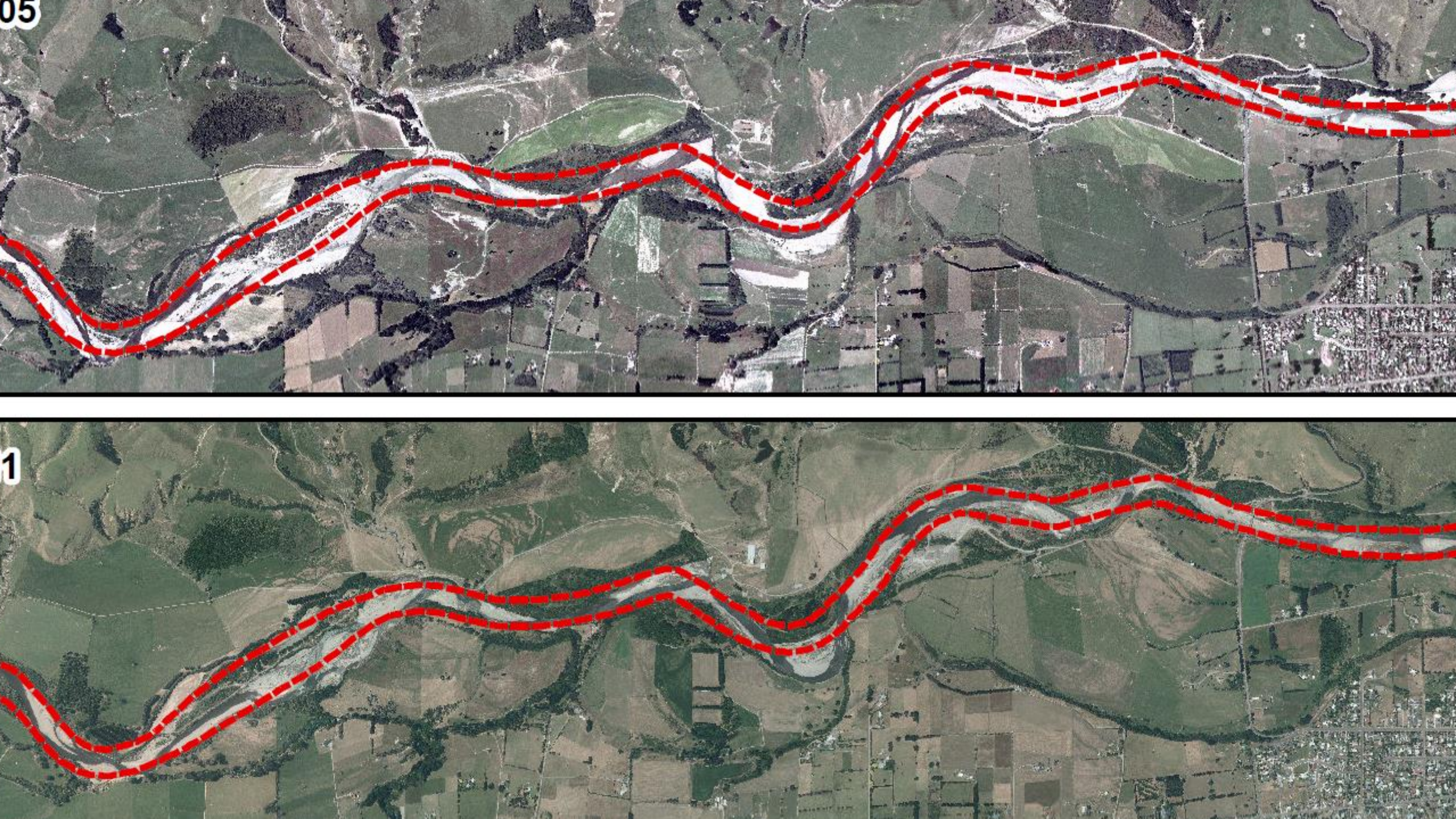
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NEXT STEPS

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or freephone Horizons on **0508 800 800**