A Process for Transforming the Lowland Waterway Network of the Ararira/LII Catchment: Five key stages of co-design & collective action to realise the Vision 2023

CMP CMP = Catchment Management Plan IG = Implementation STATE, PRESSURES **GUIDANCE ON HOW TO IMPLEMENT** VISIONING Guide & SOLUTIONS Create a process for working constructively Help partners & stakeholders bring together contributions across key activity areas together & define the catchment vision & Understand the past & present state, & to successfully implement the solutions aspirations. current & future pressures/challenges to identified in the CMP. develop catchment-specific solutions. The Vision & Aspirations is summarised at the start of This information is contained within the IG. the CMP & IG documents. This information is contained within the CMP. **GETTING STARTED VISION & ASPIRATIONS** STATE & PRESSURES SOLUTIONS **SOCIAL & TECHNICAL ASPECTS** SOCIAL ASPECTS Build relationships & Vision Past state · Catchment-wide Shared · Capacity & capability forums for working solutions direction Regulations · Mission statement Present state together · Site-specific Ensuring a Te - habitat · Consenting & compliance Key values Build processes - water quality solutions/ Tiriti-based Financing for working - ecology interventions approach Operational sequencing collaboratively - cultural values Partnering, · Knowledge, information & insights · Co-design Pressures engaging & communicating · Guidance on monitoring & Facilitation Challenges evaluation Supporting · Guidance on adaptive management collective action **MONITORING, EVALUATION & LEARNING** This occurs at all stages in the process. Includes social & technical aspects. Guidance on this is provided in the CMP & IG documents. Monitoring & evaluation Adaptive management **ACTION REALISE** On-the-ground, in-the-council & in-the-community action, guided by THE the CMP & IG, & constantly adapted to reflect learnings from ongoing VISION monitoring & evaluation.





















Transforming the Lowland Waterway Network of the Ararira/LII Catchment: An overview of the Ararira Catchment Management Plan (CMP) 2023





Vision Statement

The life force of the Ararira catchment is enhanced by the thriving communities who live within it, & their relationship to land & water, now & in the future.

Mission Statement

We will work together to reimagine the Ararira so that it continues to support thriving & resilient communities while enhancing the mauri of the catchment.

Key Value Baskets

- The Mauri & ecosystem health of the lake
- Thriving communities providing for current & future generations
- Healthy lake supports healthy people
- A prosperous land- & waterbased economy is maintained



Past State

Podocarp forest >>> Wetlands >>> Drainage, farming, urban development



- Water quality
- Freshwater ecology
- Cultural values
- Waterway types - defined based on key features

Pressures & Challenges



middle reaches Mainstem - lower reaches

Drains - perennial

Pressures:

- · Land use change & intensification
- Complex flows
- · Climate change

Challenges:

- Excessive macrophytes
- Sediment
- Lack of space
- Flooding & wet ground





Catchment-scale Solutions



- Transformative practice
- Land aguisition & strategic land use change
- Smart systems' for drainage monitoring
- Changing maintenance practices

Site-specific Solutions



Bank reshaping with riparian planting:

- Two stage channel with planting large
- Two stage channel with planting for low cover - small scale
- · Two-stage channel with grass small scale



Wetlands:

- · Large scale
- · Small scale



Sediment traps:

- Inline small scale
- · Event-based inline small scale
- · Large scale



Planting & protective interventions:

- Other riparian planting for mainstem habitat
- Protecting springheads
- · Fencing waterways



Instream habitat:

- · Log vanes large scale & small scale
- Cobble clusters

















Drains - ephemeral

12 Key Areas to Support Effective Catchment Management:

Social **Aspects**

Social &

Key areas underpinning effective implementation of the Catchment Management Plan (CMP) in the Ararira Catchment 2023

Guidance

on how to

implement

the CMP

Both SOCIAL & TECHNICAL aspects are needed for effective implementation of a CMP. All should be considered but, based on circumstances, some will require more emphasis than others.



SHARED DIRECTION - Creating a shared vision, shared values & a process for working constructively together from the start will improve success & increase participation.



ENSURING A TE TIRITI-BASED APPROACH - Engagement, inclusion, & establishment of partnerships with mana whenua are vital components of freshwater governance as it acknowledges the role of Māori as kaitiaki (quardians).



PARTNERING, ENGAGING & COMMUNICATING - Catchment scale water management relies on engagement & partnering at multiple scales, & effective communication with stakeholders.



SUPPORTING COLLECTIVE ACTION - Implementing the CMP requires behaviour change by groups & individuals. Models of behaviour & practice change identify the key factors that need to be present for change to occur.



CAPACITY & CAPABILITY - A mix of technical & social capabilities & capacities will be needed to effectively implement



REGULATIONS - Legislation, regulations & policies will impact or influence implementation of the CMP. Opportunities



CONSENTING & COMPLIANCE - Implementation of the suite of interventions recommended in the CMP is likely to require resource consents. Global consents may help reduce the cost & technical burden & encourage uptake.



FINANCING - Rates revenue funds the current management of the drainage network but is unlikely to fund alternatives that incorporate better environmental or cultural outcomes. However, a spectrum of options exist for financing or subsidising the



OPERATIONAL SEQUENCING - Implementation of the CMP will require a framework which supports diverse stakeholders to work together & plan for outcomes through a logical sequence.



KNOWLEDGE, INFORMATION & INSIGHTS - The collection of baseline data in the catchment will enable the impact of interventions to be shown. Current Council service targets & performance measures in Activity Management Plans may need



MONITORING & EVALUATION - Reliable project performance information improves accountability, & is an important basis for sound management & encourages learning.



ADAPTIVE MANAGEMENT - An adaptive management framework will help catchment managers & stakeholders to react & adapt to changes that occur during implementation. Monitoring & maintenance data will drive engagement &















