

LIVING

WATER

VISION: A sustainable dairy industry is part of healthy functioning ecosystems that enrich the lives of all New Zealanders

WAIRUA SITE FOCUS: Reducing sediment loads into the Wairua River using solutions that both improve hydrologic functioning and build ecological resilience of the catchment.

Critical Issues

- Significant loss of wetland and freshwater ecosystems and lowland habitat
- Poor water quality - high levels of suspended sediment
- Highly modified hydrology in the lower catchment (Flood Scheme) to reduce the threat of flooding for landowners in the catchment
- Modification of the landscape in the catchment has impacted on cultural identity and activities
- Society has increased expectations of farmers/agricultural land owners in relation to water quality
- Landowners have an opportunity to engage more

Inputs

- DOC & Fonterra staff
- Funding \$300k/year
- Technical input
- Network of participating farmers
- Participation of key stakeholders, including iwi,

Activities

- **On-farm:** Baseline reports, assessing biodiversity, QEII covenants, riparian projects, free plants
- **Sub-catchment approach:** Working with landowners to take action towards agreed freshwater outcomes
- **Tool trials:** Trialling detention dams, water quality & aquatic biodiversity monitoring, Ecosystem Services Report
- **Strategic partnerships:** working with mana whenua, operational agencies and others
- Monitoring progress, telling our story and championing change

Outputs

- Farm Environment Plans (FEP), Biodiversity Assessments
- QEII covenants, fencing, riparian and wetland planting
- Beetle bio-control trial
- Silt detention bunds trial
- Tool and intervention trials
- Strategic Partnerships – Wairoa Freshwater Improvement Fund, Mana Enhancing Agreement
- Sharing learnings through website, social media, professional forums, community events

Outcomes/Impacts

Short term (by 2020)

- All Fonterra farmers in the Okarika Pocket are implementing actions in their FEP's and are participating in trials for freshwater management on-farm
- Sediment reduction tools are being trialled and effectiveness monitoring is ongoing
- Okarika Pocket landowners are working towards an agreed freshwater outcome
- Living Water staff are using their partnership experience and successfully contributing to the Wairua FIF programme and governance
- Mana whenua are actively involved in Living Water projects and mātauranga māori is integrated into our work
- Increased evidence base about tools and practices informing decision-making for Living Water project team iwi, farmers, strategic partners and wider stakeholders

Medium term (by 2023)

- All Fonterra farmers in the Okarika Pocket understand what difference their management activities have on freshwater
- The hydrological and ecological functioning of the Okarika pocket water network has improved
- Sediment reduction tools have been trialled at scale in the Okarika pocket to demonstrate if a measurable reduction in sediment can be achieved
- Living Water tool and solutions have been scaled up to other Northland catchments

Long Term Outcomes

- Healthy lowland freshwater ecosystems
- Responsible profitable dairying
- A shared understanding of the interdependence of agricultural, economy and environment by the boarder community

