



Mangapārae Papakainga

# Restoration Progress Report 2021-2022 For WWF CCF

Mangapārae Papakainga Restoration

11 Te Whiwhi Steet, Whatatutu

Gisborne

Virginia Tamanui and Sjimmy Fransen

## Introduction

Te Kooti Arikirangi Te Turuki prophesied over the lands at Mangatū concerning its erosion which our whānau in 2017 interprets, underpins the basic need for kaitiakitanga and healing in the wake of colonization, land loss, deforestation, farming and mismanagement of our whenua that has led to an erosion of our ways of knowing and being associated with uninterrupted tenancy, and caring for the whenua, over many generations. Our whānau led and managed restoration project hopes to address the loss of this mātauranga and, to have an opportunity, to demonstrate our commitment of relationship with our whenua toward wellness and flourishing for the land and the people.

Since 2018 we have planted 10000 Tōtara, Kahikatea, Mānuka, Kānuka, Karaka, Pūriri, Rewarewa, Rimu, Tītoki and other native species and wetland species. This will encourage the return and species improvement of native pigeon the Kererū, Weka and Tui. Mangapārae will be a haven for endangered birds and plants including Ngutukākā. In addition, we are building spaces for reflection, a way-finding loop with boardwalks and accessible walkways.



Mangapārae Papakainga

## Progress report



Planted 900 trees, shrubs and grasses

### *Species plated 2021-2022*

300 X *Dacrycarpus dacrydoides* ST160 or RX90

100 X *Sophora tetraptera* - NZ Kowhai

500 X Wetland native grasses

## Monitoring May 7<sup>th</sup>, 2022

**Monitoring team: Sjimmy Fransen, Virginia Tamanui, observers Percy Milner, Ngaire Clark**  
 Advanced Plot Method, to provide a statistically robust estimate of survival and early growth. X 1 plot (3) with permanent peg at the centre of each plot and mark out a circular area with a 5-metre-long piece of string to create a 10 m diameter plot.



Mangaparae Papakainga Native Tree planting and monitoring			
Total Trees planted 400			
<i>Survival by species and Species and approx. numbers planted</i>			
Date of monitoring		07/05/2022	
Methodology	Advanced Plot Method, to provide a statistically robust estimate of survival and early growth. The Advanced Plot Method is based on sampling a small proportion of planted native trees using a network of plots placed across a representative area of the planting site.	Established grid across planted area with plot at each intersect of grid. Require minimum of six 10m diameter plots per planting.	Marked out the plots place a permanent peg at the centre of each plot and mark out a circular area with a 5-metre-long piece of string to create a 10 m diameter plot.
Species name	<b>Average height (in centimetres)</b>	<b>Subjective assessment of plant vigour</b> 1. Poor 2. Struggling 3. Average 4. Good	<b>Season planted</b>
<b>Plot 1</b>			<b>21 trees in plot</b>
<p><b>SAMPLE PLOT LAYOUT</b></p>		<p><b>SAMPLING LARGE-SCALE PLANTED AREAS</b></p>	

<b>Plot 3</b>			<b>15 trees in plot</b>
Kapuka	1.5	Good	2022
Rimu	1.9	Good	2022
kohukohu	1.2	poor	2022
Kanuka	1.4	Good	2022
rewarewa		dead	2022
karomiko	1.3	poor	2022
Kanuka	1.9	poor	2022
manuka	1.6	Good	2022
Hoheria Angustifolia	1.6	Good	2022
Tarata	1.3	poor	2022
rewarewa	1.5	poor	2022
Kahikatea	1.5	Good	2022
Kanuka	1.4	Good	2022
Kahikatea	1.5	Good	2022
Kanuka	1.6	Good	2022

### Key moves 2021-22

- Removal of noxious plants and pests completed
- Planting and releasing completed of large kahikatea, kowhai and wetland grasses

*Planting team: Moeawa, Sjimmy-Zev, Apenti, Kito, Ngawari, Sjimmy, Virginia, Manuao, Maiangi, Apenti*

- Driveway repaired
- Fencing maintained
- Bird count completed
- Water quality testing
- Watercress propagated



*Figure 1 Water Cress*

- Truck and mower repaired
- Equipment maintained

- Gates repaired
- New entry to wetland completed
- Whare wananga built and named Te Piringa



*Figure 2 Manuao painting Te Piringa signage*

- Health and safety and COVID
- Mangaparae Community response: COVID sponsorship of masks at Mangatu Marae vaccination event
- Website updated [www.mangaparae.com](http://www.mangaparae.com)
- Signage completed



Figure 3 Papatipu o Mangapārae signage design

Photographic documentation 2022



Figure 4 Te Uru Rākau site visit

























