

# MĀNUKA AND KĀNUKA JOIN NEW ZEALAND'S FRESHWATER QUALITY IMPROVEMENT BATTLE

## Native Ecosystems - Water Quality Improvement Trial

This trial will determine if irrigating wastewater onto Mānuka / Kānuka dominated ecosystems will improve water quality in the Waiwiri catchment



Levin wastewater treatment plant



The Pot land treatment of wastewater by irrigation



Diverse native plant ecosystem

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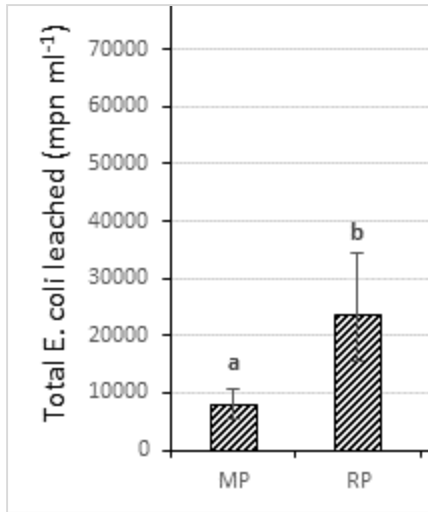


Figure 1: *E. coli* leached after 1 day under mānuka (MP) and pasture (RP)

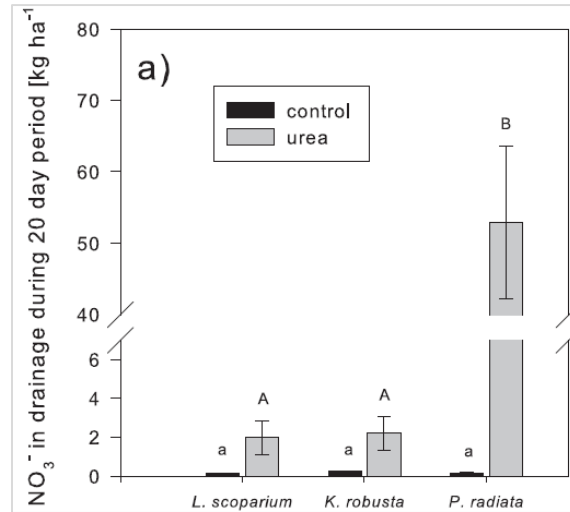


Figure 2: Nitrate drainage after 20 days under mānuka, kānuka and pines

### Collaboration

- Chance to use an operational site
- Pot has 30 year history
- Lot of complementary monitoring
- Multiple partners

### Positive outcomes

- Reduce nitrogen entering waterways
- Treat run off from farms
- Improve land treatment of wastewater and of biosolids
- Provide opportunities for biodiversity and incorporation of threatened species

