



Tiromoana Bush Advisory Group

Tiromoana Bush Year 5 (2009-2010) Work Plan

Introduction

The following Year 5 Work Plan is based on the indicative time-line outlined in the Tiromoana Bush Restoration Project Management Plan (Section 8.8; referred to as the 'Management Plan' in this work plan). Year 5 actions are to be undertaken in the 2009/10 financial year commencing 1 July 2009. The preparation of this Year 5 Work Plan involved the Tiromoana Bush Advisory Group who reviewed the restoration activities undertaken during Year 4 (2008/09) and then approved the present work plan (see Section 10.4 of the Management Plan) at their 4 August 2009 meeting.

1. Management Planning

Action 1.1: Annual Work Plan Preparation

- Complete review of 2009/10 restoration work.
- Prepare 2010/11 work plan in time for the June 2010 Tiromoana Bush Advisory Group meeting.

Action 1.2: Tiromoana Advisory Group Meetings

- Hold Advisory Group meetings in December-February 2009 (Tiromoana Bush) and June 2010 (Christchurch - review of 2009/10 work and approval of 2010/11 work plan).

Action 1.3: GIS database and project management

- Finish updating GIS files relating to management work (e.g., photo point and monitoring site locations, threatened and uncommon plant locations) and transfer these to the CWS GIS system.
- Finish updating notes on monitoring methods to facilitate subsequent remeasurement.

2. Monitoring

Action 2.1: Photopoints

- Re-photograph existing photopoints in December 2009.
- Re-photograph all permanent vegetation plot photopoints and restoration plot photopoints.

Action 2.2: Permanent Plots

- Establish five permanent plots in areas of gorse shrubland.
- Establish five permanent plots in grassland (stratified by distance from kanuka remnants and aspect).
- Establish two additional permanent plots to monitor restoration plantings once they are established (see Section 9.3 of the Management Plan).
- Remeasure existing restoration monitoring plots.

Action 2.3: Faunal Monitoring

- Monitor lizard shelters.
- Establish baseline monitoring for wetas using weta motels.
- Undertake a further bird monitoring survey.

3. Plant and Animal Pest Control

Action 3.1: Weed Control

- Continue mapping and removal of woody weeds (including an autumn check for deciduous species)
- Eradicate willows from upper Kate Valley (above Kate Pond)

Action 3.2: Animal Pest Control

- Maintain an ongoing review of rabbit and hare numbers and instigate control as required.
- Undertake Canada goose control if numbers dictate.
- Undertake deer and goat control if numbers dictate in consultation with adjacent land owners (especially with regard to the possible presence of goats in Teviotdale forest).

Action 3.3: Fencing

- Continue to maintain boundary fences including starting to replace the existing boundary fence with deer fencing in an effort to provide long-term security from the effects of goats and deer.

4. Plant Restoration

Action 4.1: Restoration Propagation

- Continue beech propagation work with the goal of establishing at least 300 black beech plants in propagation, and if seedlings are ready.
- Undertake initial restoration of black beech.
- Continue with collection of seeds/cuttings for general restoration plantings.
- Plant *ca.* 2000 plants in the field and instigate appropriate maintenance for earlier plantings.

5. Recreation and Community Relations

Action 5.1: Public Walking Track

- Complete the two short link tracks (Ella Pond Junction to Forestry Junction, and from Rocky Ridge Junction to Kate Pond Weir).
- Ongoing maintenance of walkway.

Action 5.2: Newsletter, Brochures and Web Page

- Work with CWS to complete a full revision of the Tiromoana Bush web site.
- Contribute material to the Transwaste Canterbury newsletter as required.

Action 5.3: School Liaison

- Work with Untouched World Foundation to further Tiromoana Bush restoration goals and provide education to participating students.
- Make presentation on Tiromoana Bush project to interested staff and students at relevant high schools.

Action 5.4: Voluntary Workers

- Facilitate voluntary input from individuals and groups to assist with the Tiromoana Bush project as arises.

Action 5.5: Research

- Support ENSIS research on direct seeding (Nick Ledgard).
- Instigate field trial assess the effect of opening out of the kanuka canopy on understorey regeneration and the establishment of planted totara (UC student).
- Support other research relevant to the objectives of the Tiromoana Bush project on a case-by-case basis.