

## 8.7 EXAMPLE OF A COMPLETED SITE-LED PROGRAMME REVIEW

<b>GENERAL INFORMATION</b>	
Programme title:	Maruia Valley
Conservancy and Area:	West Coast/ Greymouth Area
Site(s) being treated:	Maruia Valley catchment. The control area was initially upstream of the Calf Paddock to Lewis Pass, but has now been extended to include downstream from the Sluice Box to Coffee Creek (LINZ funded), Upper Grey Valley including Palmers Road and Robinson Valley to McVicars, Cray Creek, Rahu Creek, Alfred River, Station Creek, Caves Stream, and Maruia River downstream to Frog Flat.
Habitat type(s):	Frost Flats, roadsides, river bed and other disturbed sites.
Contact person:	X
Target weeds:	Gorse, Broom, Russell lupin, Crack willow, blackberry
Programme start and completion dates:	Since early 90s, ongoing.
Control year/s being reviewed:	2004-2009
Review date:	17/06/09
Review team:	X, Y and Z
Date of next review:	17/06/14 or before
File ref (e.g. DOCDM #):	

<b>Step 1: Review SITE RANKING</b>		
	Original	Reviewed
Botanical	5(a,b,c,d, and f)	5(a,b,c,d, and f)
Wildlife	6 (bats)	6 (bats)
Urgency	2.5	2.5
Total	15	15
Site ranking	15	

<b>Step 2: Review PERFORMANCE MEASURES</b>	
What is/was the desired Conservation Outcome? Is progress towards it being achieved?	Frost flat and riverbed plant communities are protected from weed invasion.
Were the annual Operational Targets met?	Control gorse, broom, crack willow, Russell lupin and blackberry to zero density in Lewis Pass National Reserve by 2014 (this is the same as the target set in the CMS). Control same suite of weeds in wider control area as listed above with long term aim of zero density. Control localised invasives wherever possible in particular buddleia, rowan, Spanish heath, barberry, field horsetail, lagarosiphon, aluminium plant.
What was the Planned and Actual Treated Area?	Sustained control was 256ha in 2004. Sustained control area is now (2009): 845ha linz 793ha Maruia (Lewis Pass, Palmers Road, Rahu Ck, Station Creek. 67ha Caves Stream Total sustained control area as at 2009 is 1705ha. The entire sustained control area of 1705ha is searched and controlled annually using a combination of aerial and ground methods.

<b>Step 3: Review SPECIES BEING CONTROLLED</b>	
Species name and abundance	Ulex europaeus
Practicality score:	Original: 5 Revised: 5
Exacerbation of other weeds:	No
Priority ranking:	Original: H Revised: H
Control objective:	Original: Zero density Revised: Zero density

Monitoring type:	Original: Formal Revised: Formal	Explanation: 10 transects established in riverbed to monitor all target species. Re-measure 3 yearly.
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<b>Step 3: Review SPECIES BEING CONTROLLED</b>		
Species name and abundance:	Salix fragilis	
Practicality score:	Original: 5 Revised: 5	Explanation: Zero density can be achieved and maintained within 5 years
Exacerbation of other weeds:	No	
Priority ranking:	Original: H Revised: H	Explanation: Important to protect site values.
Control objective:	Original: Zero density Revised: Zero density	Explanation: Nil adult plants anywhere upstream of the Maruia River SH7 bridge
Monitoring type:	Original: Formal Revised: Formal	Explanation: 10 transects established in riverbed to monitor all target species. Remeasure 3 yearly.

<b>Step 3: Review SPECIES BEING CONTROLLED</b>		
Species name and abundance:	Lupinus polyphyllus	
Practicality score:	Original: 5 Revised: 5	Explanation: Zero density can be achieved and maintained within 5 years
Exacerbation of other weeds:	No	
Priority ranking:	Original: H Revised: H	Explanation: Important to protect site values.
Control objective:	Original: Zero density Revised: Zero density	Explanation: Nil adult plants, but regrowth from seedbanks (and possible illicit spreading of seed) requires ongoing control.

Monitoring type:	Original: Formal Revised: Formal	Explanation: 10 transects established in riverbed to monitor all target species. Remeasure 3 yearly
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<b>Step 3: Review SPECIES BEING CONTROLLED</b>		
Species name and abundance:	Cytisus scoparius	
Practicality score:	Original: 5 Revised: 5	Explanation: Zero density can be achieved and maintained within 5 years
Exacerbation of other weeds:	No	
Priority ranking:	Original: E Revised: E	Explanation: Urgent to protect site values.
Control objective:	Original: Zero density Revised: Zero density	Explanation: Nil adult plants, but regrowth from seedbanks and persistent reintroduction through gravel/ grit movement requires ongoing control.
Monitoring type:	Original: Formal Revised: Formal	Explanation: 10 transects established in riverbed to monitor all target species. Remeasure 3 yearly.

<b>Step 3: Review SPECIES BEING CONTROLLED</b>		
Species name and abundance:	Rubus fruticosus	
Practicality score:	Original: 5 Revised: 5	Explanation: Zero density can be achieved and maintained within 5 years
Exacerbation of other weeds:	No	
Priority ranking:	Original: H Revised: H	Explanation: Important to protect site values.
Control objective:	Original: Zero density Revised: Zero density	Explanation: Nil adult plants, but regrowth from seedbanks and persistent reintroduction mainly through bird dispersal requires ongoing control.

Monitoring type:	Original: Formal Revised: Formal	Explanation: 10 transects established in riverbed to monitor all target species. Re-measure 3 yearly.
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<b>Step 4: Review MONITORING RESULTS</b>	
Is the monitoring appropriate for achieving the monitoring objectives?	Yes. Transects with photopoints have been suitable for assessing the success of control.
Have monitoring results been successfully incorporated into weed control operations?	Yes. Monitoring has helped to indicate where additional control has been needed.
Do monitoring results indicate that the control programme is achieving what it set out to achieve?	Yes, definitely. In fact if anything it is probably ahead of target with the control programme being extended into new areas.

<b>Step 5: Review CONTROL METHODS</b>	
Has the work gone according to plan?	Yes, no problems. Area now has a well equipped spray vehicle which has made a big difference to what can be achieved.
Have treatment methods been effective?	Yes.
Are there alternative methods to consider?	Ground control vs aerial control, and the opportunity to treat some areas twice per year to ensure seedlings do not reach maturity in the first year. Also Brad is looking at employing 2 IEC staff to be stationed mostly at Springs Junction for a large part of the summer mostly to deliver the weed control in the area through intensive repeated visits to each site.

<b>Step 6: Review NON-TARGET EFFECTS</b>	
Has non-target species impact been as expected:	Yes, negligible effects

Have appropriate steps been taken to minimise risk:	Yes, stop work when windy, operate according to SOPs and Growsafe
What changes should be made to reduce non-target effects?	None

**Step 7: Review COSTING**

Are funds adequate, insufficient or excessive to meet operational costs?

Running to budget. Operational budget is adequate at the current time. Will need to ensure ongoing funding support for this project in the future.

**Step 8: Review OTHER ISSUES**

S are doing more than they have in the past and the T has agreed to the control of willows adjacent to their property after this been an issue for many years. May need to utilise personnel with rope skills to undertake control of some weeds (especially broom) on steep banks. Gorse at Flat Creek (below Maruia Gorge) should be targeted for control in the future. Other localised weed species need to be controlled as listed in the Performance Measures section above.

**Step 9: Provide RECOMMENDATIONS**

Continue with the programme, ensuring resources remain sufficient to sustain the gains made so far as well as to continue to make progress.

Recommended action	Continue with programme.
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Checklist: remember to...	Done	N/A
Make appropriate changes to the Tech Specs:	Greymouth Area to do this	
Add new information to the BioWeb/Weeds Database:		✓
Provide copy of this review to your TSO:	✓	
Release review to interested parties:		✓
Update the Monitoring spreadsheet:		✓
Add this review to the: Review spreadsheet.	✓	

Authorisation Signatory:

Area Manager

Date

Conservator

Date