



LAKE CONJOLA BUSHCARE ACTION PLAN – REVIEW 2016

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Group Name:Conjola BushcareReserve Name:Lake Conjola, Pattimores Lagoon and Valley Drive ReserveReserve Number:SLC912, SLC787 & SLC784Land Tenure:Crown TM, SCC, NSW OEHComm. Land Type:Natural Area

1. BUSHCARE GROUP GOALS

The goals of the Conjola Bushcare Group are as follows:

- 1. Increase biodiversity at the three Bushcare sites through weed control and natural regeneration.
- 2. Control the following weeds through Bush Regeneration techniques including hand spray, hand pull, cut and paint:
 - a. Bitou bush
 - b. Ground Asparagus
 - c. Climbing Asparagus
 - d. Moth Vine
 - e. Boneseed
- 3. Natural regeneration is occurring throughout site, and is to be assisted where required.
- Co-ordinate with NPWS re weed control on neighbouring land owned and managed by NSW Office of Environment and Heritage in Conjola National Park & Narrawallee Nature Reserve.
- 5. Recruit more volunteers to the Conjola Bushcare Group.

2. BUSHCARE GROUP ACHEIVEMENTS TO DATE – (What successes has your Bushcare Group achieved in relation to your achieving the goals and actions in your current Bushcare Group Action Plan and what lessons or new skills/knowledge have you learnt from these achievements?)

Successes/Goals/Actions achieved to date	Lessons learnt
Restoration of 74 hectares of Bangalay Sand Forest Complex,	The group have learnt the importance of secondary follow up
which is listed as an Endangered Ecological Community under	weed control to ensure the control of secondary weed
the NSW Threatened Species Conservation Act 1995.	infestations.
Control of noxious and environmental weeds across 146	The group have learnt the importance of secondary follow up
hectares of coastal dune and woodland vegetation on public land	weed control to ensure the control of secondary weed
over 18 years.	infestations.

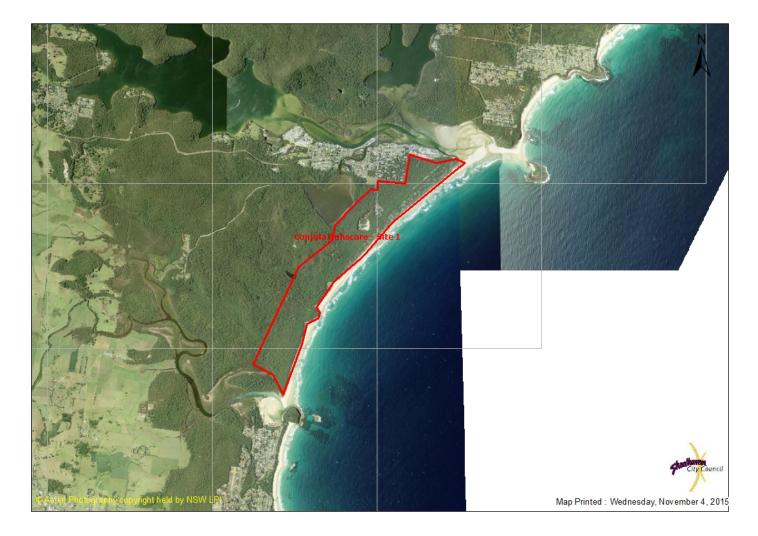
3. SHOALHAVEN BUSHCARE GROUP ACTIVITIES TABLE (to be in conjunction with attached site map) NOTE: Priority should be rated as H = High (within 12 months); M = Medium (1-3 years); L = Low

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
Site 1 – Conjola Beach and Narrawallee Nature Reserve (see map) CURRENT AND EXISTING ACTIONS		CURRENT AND EXISTING ACTIONS	
 Undertake follow up control of environmental and noxious weeds across the site targeting the following priority weed species: Chrysanthemoides monilifera sub. sp rotunda (Bitou Bush); Asparagus aethiopicus (Ground Asparagus Fern); Asparagus plumosus (Climbing Asparagus); Araujia sericifera (Moth Vine); 	1. H	 Undertake a combination of manual and chemical control using best practise management control for each weed species. 	1. On- going
 e. Cortaderia selloana (Pampass Grass); and f. Chrysanthemoides monilifera sub sp monilifera (Boneseed). 2. Work cooperatively with NPWS staff to undertake weed control on land owned by NSW OEH. 3. Work with the owner of Lot 2 DP 1126343 on the 	2. H	2. Shoalhaven Bushcare Coordinator to contact NPWS staff to arrange for authority to work on their land for the Bushcare Group.	2. 2016 and onwards
 Eastern side of Pattimores Lagoon to undertake control of environmental and noxious weeds. Targeting the following priority weed species: a. Chrysanthemoides monilifera spp. rotunda (Bitou Bush); and b. Senna pendula spp pendula (Cassia). 	3. H	 Council to write to landholder to seek permission for staff and volunteers to undertake weed control on their land. 	3. 2016

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
Site 2 – Pattimores Lagoon (See map) CURRENT AND EXISTING ACTIONS		CURRENT AND EXISTING ACTIONS	
 Undertake follow up control of environmental and noxious weeds across the site targeting the following priority weed species: Chrysanthemoides monilifera sub. sp rotunda (Bitou Bush); Asparagus aethiopicus (Ground Asparagus Fern); Ochna serrulata (Micky Mouse Plant); and Senna pendula spp pendula (Cassia). NEW ACTIONS Undertake an awareness raising program amongst local residents to reduce property owners from growing invasive plants in their gardens and dumping garden 	1. M	 Undertake a combination of manual and chemical control using best practise management control for each weed species. NEW ACTIONS Undertake letterbox drop of local residents. 	 On- going As needed
waste in the reserve.			
 Site 3 – Conjola Park Creek (See map) CURRENT AND EXISTING ACTIONS 1. Undertake follow up control of environmental and noxious weeds across the site targeting the following priority weed species: 	1. M	CURRENT AND EXISTING ACTIONS 1. Undertake a combination of manual and chemical control using best practise management control for each	1. On- going
 a. Asparagus aethiopicus (Ground Asparagus Fern) b. Senna pendula spp pendula (Cassia) c. Acetosa sagittata (Turkey Rhubarb) d. Rubus fruticosus (Blackberry) e. Jasminum polyanthum (Climbing Jasmine) 		management control for each weed species.	

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
 NEW ACTIONS 1. Contact the owner of 18 Lakeside Drive to seek their cooperation in maintaining a healthy remnant of vegetation along the creek Northern bank. 	1. M	NEW ACTIONS 1. Council to write to land owner.	1. 2016
 Site 4 – West Conjola Park, Conjola National Park CURRENT AND EXISTING ACTIONS 1. Work with NPWS to undertake control of isolated infestations of <i>Chrysanthemoides monilifera sub sp</i> <i>monilifera</i> (Boneseed). 	1. H	CURRENT AND EXISTING ACTIONS 1. Undertake a combination of manual and chemical control.	1. On- going
Volunteer Recruitment NEW ACTIONS 1. Canvas the local Conjola community via letter box drop and notice in the local store to hold an open day for the Bushcare Group holding a site tour and talk of work completed to recruit new volunteers.	1. H	 Council to prepare flyers and hold an introduction day with a tour of the Bushcare site. 	1. 2016

4. CONJOLA BUSHCARE GROUP ACTION PLAN MAP – SITE 1 CONJOLA BEACH & NARRAWALLEE NATURE RESERVE



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5. CONJOLA BUSHCARE GROUP ACTION PLAN MAP – SITE 2 PATTIMORES LAGOON

0 55 110 220 330 m

Map Printed : Tuesday, November 3, 2015 Conjola Bushcare - Site 2



6. CONJOLA BUSHCARE GROUP ACTION PLAN MAP – SITE 3 CONJOLA PARK CREEK

7. CONJOLA BUSHCARE ACTION PLAN MAP - SITE 4 CONJOLA NATIONAL PARK, WEST CONJOLA



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. BUSHCARE GROUP WHS & EQUIPMENT REQUIREMENTS

Type of Activity	Yes	SWMS name included
Manual weed control (cut & paint, scrape and paint etc.)	\checkmark	SWMS1276
Chemical control (spraying of herbicides)		SWMS1276
Planting		SWMS1265

9. COUNCIL SUPPORT

Shoalhaven Council will provide the following support:

- Materials and equipment within budget constraints;
- Grant application and management support;
- Printing and graphic design services;
- One Bushcare Support Trainer to assist the group on site 3 hours per month for 11 months per year; and
- Some assistance with pest plant control as resources permit.

10. HAS A SITE HAZARD AND RISK ASSESSMENT BEEN COMPLETED FOR THE BUSHCARE SITE?

Yes $\sqrt{}$ No \square

11. LIST THE PERSONAL PROTECTION EQUIPMENT REQUIRED FOR VOLUNTEERS WHILST WORKING ON THE SITE

PPE Equipment Required	Date issued
First Aid Kit	2016
Gloves	2016
Sunscreen	2016
Insect repellent	2016

12. POSSIBLE FUTURE FUNDING

Project	Funding source
Assistance with on-going weed control and bushland restoration	Various

8.

13. PLEASE LIST OTHER LOCAL OR REGIONAL MANAGEMENT PLANS OR STRATEGIES THAT THIS PLAN RELATES TO

Name of document	Year it was produced	Produced by
Generic Community Land Plan of Management – Natural Areas	2001	Shoalhaven City Council
Foreshore Reserves Policy	2013	Shoalhaven City Council
Lake Conjola Estuary Management Plan Review	2015	Shoalhaven City Council

14. BUSHCARE SITE RECOMMENDED PLANTING/REVEGETATION SPECIES LIST

OVERSTOREY TREES		
Botanical	Common	
Acacia mearnsii	Black Wattle	
Acmena smithii	Lilly Pilly	
Casuarina glauca	Swamp Oak	
Eucalyptus botryoides	Bangalay	
S	HRUBS	
Botanical	Common	
Melaleuca ericifolia	Swamp Paperbark	
Pittosporum revolutum	Rough Fruited Pittosporum	
Pittosporum undulatum	Native Daphne	
Myrsine variabilis	Brush Muttonwood	
Trema aspera	Native Peach	
UNDERSTOREY (g	grasses, herbs, climbers)	
Botanical Common		
Aphanopetalum resinosum	Gum Vine	
Clematis aristata	Old Man's Beard	
Hibbertia scandens	Native Guinea Flower	
Lomandra longifolia	Spiny Matt Rush	
Microlaena stipoides	Weeping Grass	
Oplismenus aemulus	Basket Grass	
Parsonsia straminea	Silkpod Vine	
Rubus rosifolius	Native Raspberry	

Noxious	Environmental	Control Method
<i>Chrysanthemoides</i> <i>monilifera sub.</i> <i>rotunda</i> (Bitou Bush)		Spot spray with 1:100 glyphosate360:water or cut and paint large isolated plants with 1:3 glyphosate360:water
Chrysanthemoides monilifera sub. monilifera (Boneseed)		Spot spray with 1:100 glyphosate360:water or cut and paint large isolated plants with 1:3 glyphosate360:water
<i>Asparagus aethiopicus</i> (Ground Asparagus Fern)		Isolated plants can be manually removed by digging out the rhizome and placing in bag and removing from site. Larger infestations can be chemically controlled
Asparagus plumosus (Climbing Asparagus)		Isolated plants can be manually removed by digging out the rhizome and placing in bag and removing from site. Larger infestations can be chemically controlled
Rubus fruticosus (Blackberry)		Scrape and paint canes with 1:3 ratio of glyphosate360:water or chemically control
	<i>Araujia sericifera</i> (Moth Vine)	Hand pull plants and leave on site
	<i>Cortaderia</i> <i>selloana</i> (Pampass Grass)	Chemical control
	Senna pendula spp pendula (Cassia)	Cut and paint larger plants with 1:3 ratio of glyphosate360:water or hand pull smaller plants
	<i>Acetosa sagittata</i> (Turkey Rhubarb)	Chemical control
	Conyza bonariensis (Flebane)	Hand pull
	<i>Sida rhombifolia</i> (Paddy's Lucerne)	Hand pull
	Jasminum polyanthum (Climbing Jasmine)	Chemical control

15. BUSHCARE SITE WEED LIST (The following weeds have been recorded on the site)

16. CONJOLA BEACH DUNES BUSHCARE SITE SPECIES LIST (The following species have been recorded on the site using a 50 metre vegetation transect see appendix 1 for location details)

OVERSTOREY TREES		
Botanical	Common	
Banksia integrifolia	Coastal Banksia	
Banksia serrata	Saw-toothed Banksia	
Corymbia gummifera	Bloodwood	
Eucalyptus botryoides	Bangalay	
Eucalyptus pilularis	Blackbutt	
	RUBS	
Botanical	Common	
Acacia implexa	Hickory	
Acacia longifolia ssp. longifolia	Sydney Golden Wattle	
Acacia maidenii	Maidens Blush	
Breynia oblongifolia	Coffee Bush	
Glochidion ferdinandi	Cheese Tree	
Leucopogon lanceolatus	Lance Beard Heath	
Leucopogon parviflorus	Coastal Beard Heath	
Monotoca elliptica	Tree Broom Heath	
Solanum stelligerum	Devils Neddles	
	asses, herbs, orchids)	
Botanical	Common	
Austrofestuca littoralis	Beach Fescue	
Centella asiatica	Centella	
Commelina cyanea	Scurvy Weed	
Coronidium oxylepis	Paper Daisy	
Dichondra repens	Kidney Weed	
Ficinia nodosa	Knobbly Club Rush	
Gastrodia sesamoides	Bootlace Orchid	
Gonocarpus micranthus spp. micranthus	Raspwort	
Hibbertia diffusa	Wedge Guinea Flower	
Hibbertia linearis	Showy Guinea Flower	
Imperata cylindrica	Blady Grass	
Lepidosperma laterale	Sword Sedge	
Lomandra longifolia	Spiny Matt Rush	
Microlaena stipoides	Weeping Grass	
Oplismenus aemulus	Basket Grass	
Öxalis rubens	Native Oxalis	
Pelargonium australe	Coastal Geranium	
Pratia purpurascens	Whiteroot	
Pteridium esculentum	Bracken Fern	
Spinifex sericeus	Coastal Spinifex	
Viola hederacea	Ivy-leaf Violet	
UNDERSTOREY (vines & climbers)		

Botanical	Common
Clematis aristata	Old Man's Beard
Eustrephus latifolious	Wombat Berry
Marsdenia rostrata	Milkpod Vine
Stephania japonica	Snake Vine

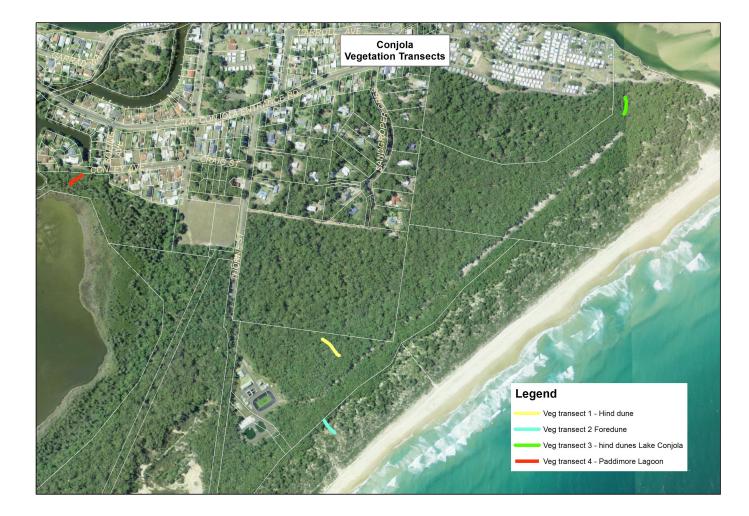
17. CONJOLA PARK BUSHCARE SITE SPECIES LIST (The following species have been recorded on the site using a 50 metre vegetation transect see appendix 2 for location details)

OVERSTOREY TREES		
Botanical	Common	
Acacia mearnsii	Black Wattle	
Acmena smithii	Lilli Pilli	
Casuarina glauca	Swamp Oak	
Eucalyptus botryoides	Bangalay	
SHRUBS		
Botanical	Common	
Cassine australis	Red Fruited Plumb	
Melaleuca ericifolia	Swamp Paperbark	
Pittosporum revolutum	Rough Fruited Pittosporum	
Pittosporum undulatum	Native Daphne	
Myrsin variabilis	Brush Muttonwood	
Trema aspera	Native Peach	
UNDERSTOREY (grasses, herbs, orchids)		
Botanical	Common	
Einadia hastata		
Histiopteris incisa	Batswing Fern	
Microlaena stipoides	Weeping Grass	
Oplismenus aemulus	Basket Grass	
Plectranthus parviflorus	Cockspur Flower	
Senecio linearifolius	Native Groundsel	
UNDERSTOREY (vines & climbers)		
Botanical	Common	
	Common Gum Vine	
Botanical		
Botanical Aphanopetalum resinosum	Gum Vine	
Botanical Aphanopetalum resinosum Clematis aristata	Gum Vine Old Man's Beard Native Guinea Flower Silkpod Vine	
Botanical Aphanopetalum resinosum Clematis aristata Hibbertia scandens	Gum Vine Old Man's Beard Native Guinea Flower	

18. PADDIMORES LAGOON BUSHCARE SITE SPECIES LIST (The following species have been recorded on the site using a 50 metre vegetation transect see appendix 1 for location details)

OVERSTOREY TREES		
Botanical	Common	
Casuarina glauca	Swamp Oak	
Eucalyptus botryoides	Bangalay	
SHRUBS		
Botanical	Common	
Acacia longifolia ssp. longifolia	Sydney Golden Wattle	
Allocasuarina littoralis	Forest She Oak	
Banksia integrifolia	Coastal Banksia	
Melaleuca ericifolia	Swamp Paperbark	
Melaleuca hypericifolia	Hillock Bush	
Pittosporum revolutum	Rough Fruited Pittosporum	
Pittosporum undulatum	Native Daphne	
UNDERSTOREY (grasses, herbs, orchids)		
Botanical	Common	
Baumea juncea	Twig Rush	
Centella asiatica	Centella	
Cynoden dactylon	Common Couch	
Ficinia nodosa	Knobbly Club Rush	
Lepidosperma limicola		
Lobelia alata	Lobelia	
Lomandra longifolia	Spiny Matt Rush	
Oplismenus aemulus	Basket Grass	
Phragmites australis	Phragmites	
Pteridium esculentum	Bracken Fern	
UNDERSTOREY (vines & climbers)		
Botanical	Common	
Cassytha pubescens	Devils Twine	
Hibbertia scandens	Native Guinea Flower	
Stephania japonica	Snake Vine	

Appendix 1 – Location of 50 metre vegetation transects – Conjola Beach dunes and Paddimores Lagoon



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Appendix 2 – Location of 50 metre vegetation at West Conjola

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