

BUNDEWALLAH RESERVE BUSHCARE GROUP ACTION PLAN

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1. RESERVE INFORMATION

Reserve: Bundewallah Reserve

Reserve Number(s): Council Reserve No. NKV172

Land Tenure: Council owned

Community Land Type: Community Land – Natural Area

2. BUSHCARE GROUP GOALS

The goals of the Bundewallah Bushcare Group are to:

- 1. Foster active community participation and support for the restoration of the Bundewallah Reserve.
- 2. Seek funding to assist with the restoration of the Bundewallah Reserve.
- 3. Undertake restoration of the Illawarra Sub-tropical Rainforest Threatened Ecological Community (TEC) vegetation on the reserve as a priority.
- 4. Work with Shoalhaven City Council to improve public walking access to Bundewallah Reserve.

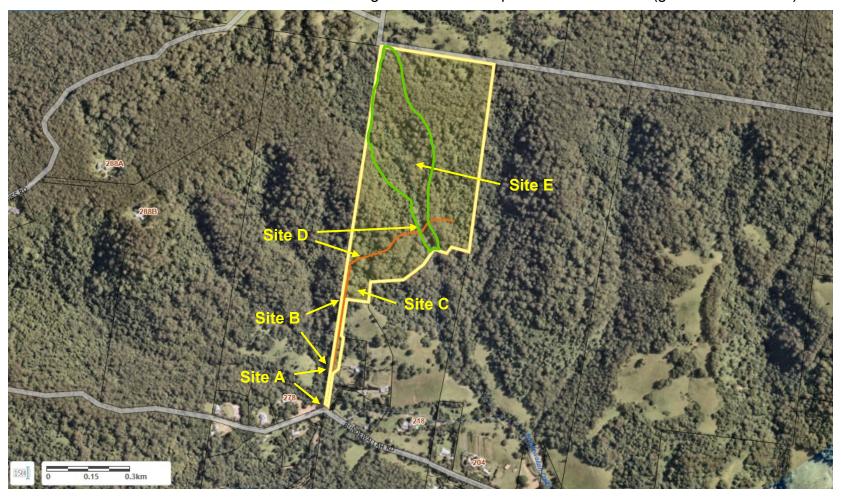
3. SITE ACHIEVEMENTS TO DATE

Actions	Lessons Learnt
Weed Control	Bundewallah Bushcare Group was formed in 2006. Through several years of continuous efforts, Bundewallah Bushcare volunteers have been successful at controlling invasive weeds on Bundewallah Reserve, particularly Lantana, Large-leaved Privet, Tobacco Tree, Mist Flower and Moth Vine especially within the southern areas of the reserve (Sites A, B and D in the maps below) and reducing the impact of these weeds on the area of Illawarra Sub-tropical Rainforest.
	Due to the large geographic extent being managed by the group and limited resources, it has proved difficult to undertake sufficient follow up workdays at all sites to completely eradicate weeds. The group have been successful with managing those weeds mentioned above at various sites.
	Significant parts of the Reserve are too steep for the volunteers to work safely on, and these areas require professional bush regenerators to control weed invasion. There is an increasing presence of Crofton Weed, Mistflower and Bidens particularly in Site C, mainly due to the uncontrolled spread of the weeds from adjacent private property. These weeds need immediate attention to prevent widespread impact on the integrity of the reserve.
Revegetation/rehabilitation	While the group have previously conducted revegetation and planting of native plants, this has been of limited success due to the steep terrain and the difficulty in maintaining new plantings. Natural regeneration has been far more successful. Many of the sites where the group conduct weed control have this capacity for natural regeneration and recruitment due to surrounding native vegetation.

Community Engagement	Membership of Bundewallah Bushcare is stable. However, new recruits have flagged it is of considerable concern that the average age of our volunteers is over 70 and there is a need to work on getting new, younger members.
	Youth membership is currently non-existent. Direct community engagement could be improved by way of joint activities with Intrepid Landcare and other youth-based groups in the Shoalhaven.
	A previous goal of the Bushcare group was to continue to raise awareness of residents and visitors of the ecological values and biodiversity of Bundewallah Reserve through organised workshops, guided walks and printed information.
Group attendance	Attendance levels are acceptable at each working bee. It is currently improving with a core of regulars, with less regular attendance by other members. This creates a good mix of people on each day.
	The provision of support from a Bushcare Field Officer has previously boosted attendance, but the loss of one of these officers from the Bushcare Team in 2022/23 has been felt keenly by the group and is considered to have led to the loss of some members of our group. Bushcare Field Officers greatly improve the morale of Bushcare Groups and leads to improved outcomes for both group members and within the reserve.

4. SITE MAP AND GROUP ACTION TABLE

MAP 1. Bundewallah Reserve Bushcare showing Illawarra Sub-tropical Rainforest TEC (green area - Site E)



ACTION TABLE - Bundewallah Reserve Bushcare Sites

Priority ratings: H = High, M = Medium, L = Low

GROUP ACTION	PRIORITY	METHOD	TIMING
 Site A – Bundewallah Road to Creek Bushcare Group to assist with follow-up control of weeds including Bidens, and Moth Vine, Mist Flower, Lantana and Small and Large-leaved Privet. Revegetation. 	M M M	Spray, hand pull, cut and paint and scrape and paint. All manual weed control or herbicide use to be conducted as per product labels or APVMA permits. Manually dig/pull/cut. Bag seeds and propagules and dispose to appropriate waste receptacles. Revegetate using appropriate local native species – see Section 9 for guidance.	Seasonal
 Council and the Bushcare group to maintain track by cut and paint and/or hand pull weeds along track, particularly Lantana, Privet, Tobacco Tree, Crofton Weed, Mist Flower, Moth Vine, and inject or frill Large and Small-leaved Privet where required. Bushcare Group to undertake follow up maintenance of areas where contractors or Council staff have done primary weed control. 	Н	Hand pull, cut and paint/scrape and paint. All manual weed control or herbicide use to be conducted as per product labels or APVMA permits. Work from bottom of the Reserve northwards and in achievable chunks.	Spring/Summer Ongoing

GROUP ACTION	PRIORITY	METHOD	TIMING
 Site C – Open paddock area Council to assist the group with spraying Mist Flower, Crofton Weed and Bidens. Bushcare group to support natural regeneration of rainforest edges. 	Н	Herbicide use to be carried out as per product labels or APVMA permits.	Once per year
Site D – Rainforest walking track to Creek crossing 1. Bushcare Group to follow up Council's Privet control with hand weeding of Privet and other weeds.	Н	Hand pull, cut and paint/scrape and paint. All manual weed control or herbicide use to be conducted as per product labels or APVMA permits.	Spring/Summer
	Н	Work from bottom of the reserve northwards and in achievable chunks.	On-going
Site E – TEC area above old rainforest track 1. Bushcare Group to monitor area for weed growth.	L	Walk the area occasionally and treat as required.	On-going

GROUP ACTION	PRIORITY	METHOD	TIME
 Community Engagement, Citizen Science 1. Communication – Community Education Communicate with locals and visitors about: the importance of local bushland and other vegetation in providing habitat for native wildlife (including threatened species and threatened ecological communities). threats to these areas such as weeds, erosion, dumping of garden waste and rubbish and vegetation vandalism. 	M	 By potential use of: Open days and other events. Council brochures. Citizen science programs. Articles in local media/newsletters. Through Council staff, work with schools and other community groups to provide educational opportunities. 	Opportunistically
Explanation of Bushcare group goals/activities, and recruitment of new members.	M	Engage with passers-by and provide information to local community.	Opportunistically
 3. Interact with other Bushcare Groups to: Exchange information and share knowledge about work practices. Build and share skills, knowledge and relationships. Assist each other. 	М	 Shared working bees. Morning teas. Cooperative involvement in community educational events. 	Opportunistically
4. Map/Record local biodiversity.	M	Encourage recording of wildlife observations in Budawang Coast Atlas of Life (see link in Sect. 9 below).	Ongoing

5. BUSHCARE GROUP WORKPLACE HEALTH AND SAFETY

New volunteers must be inducted via Shoalhaven City Council's corporate induction process and volunteers must comply with the Volunteer Induction Handbook.

Based on the activities included in this action plan, a new site hazard and risk assessment will be completed. Volunteers are to be inducted on this revised risk assessment with the adoption of this plan. The risk assessment is to be revised as needs be, for example, upon the identification of a new hazard, or of a new control measure for an existing hazard.

- **6. COUNCIL SUPPORT**Supply tools, herbicide and materials within the constraints of budget.
 - Training and technical advice.
 - Administration support.
 - Assistance with grant applications, administration and management.
 - Assistance with events.
 - Support from Council's Bush Regeneration staff as resources allow.
 - Weed bags and large rubbish removal.
 - Recognition of the group's stewardship of the areas under this plan and undertaking from Council to communicate with Group and seek groups' participation in any planned works by Council, where appropriate.
 - Council to mow the parking area and surrounding area to provide safe off-road parking for at least three vehicles. Council to assist with the control of weeds including Bidens, and Moth Vine, Mist Flower, Lantana and Small and Large-leaved Privet (Site A).
 - Council to assist Group with spraying Mist Flower, Crofton Weed and Bidens. Council to clear suspended timber to allow access for weed control (Site C).
 - Council to cut and paint Privet within 20 metres each side of the old logging track (Site D). Council to splatter gun larger areas of weeds in Site D and liaise with adjoining landholder to restore vegetation.

7. POSSIBLE FUTURE FUNDING

The following projects may be considered as funding opportunities become available:

Restoration of the Illawarra Sub-tropical Rainforest TEC remnant (State and Federal grants).

Improvement of public walking access especially over the creek (Site A) in the south of the reserve including improved signage

8. REVIEW

This plan will be reviewed six years from its adoption but can be reviewed sooner if agreed.

REGIONAL MANAGEMENT PLANS OR STRATEGIES

Name of document	Year it was produced	Produced by
Bushcare / Parkcare Policy	2022	Shoalhaven City Council
Generic Community Land Plan of Management – Natural Areas	Revised 2016	Shoalhaven City Council
Local Strategic plan 2021- 2026	2021	South East Local Land Services
Broughton Creek Catchment Management Plan	2000	Shoalhaven Catchment Management Committee

9. RECOMMENDED REVEGETATION SPECIES

Botanical name	Common name	
OVERSTOREY TREES		
Acacia maidenii	Maiden's Wattle	
Brachychiton acerifolius	Illawarra Flame Tree	
Dendrocnide excelsa	Giant Stinging Tree	
Eucalyptus saligna/E. botryoides	Southern Blue Gum	
Livistona australis	Cabbage Palm	
Melia azedarach	White Cedar	
Toona ciliata	Red Cedar	
S	HRUBS	
Acacia binervata	Two-veined Hickory	
Acacia maidenii	Maiden's Wattle	
Breynia oblongifolia	Coffee Bush	
Ficus coronata	Sandpaper Fig	
Glochidion ferdinandi	Cheese Tree	
Hymenanthera dentata	Tree Violet	
Homalanthus populifolius	Bleeding Heart	
Myoporum acuminatum	Boobialla	
Myrsine variabilis	Muttonwood	
Pittosporum undulatum	Sweet Pittosporum	
Solanum aviculare	Kangaroo Apple	
Syzygium smithii	Lilly Pilly	
Trema aspera	Native Peach	
UNDERSTOREY (grasses, herbs, orchids)		
Carex appressa	Tall Sedge	
Cissus antarctica	Kangaroo Vine	
Eustrephus latifolius	Wombat Berry	
Microlaena stipoides var stipoides	Weeping Grass	

New records are continually being made using the Budawang Coast Atlas of Life (BCAL) database. Bushcare Volunteers and community members are encouraged to record their flora and fauna observations in this database.

To see an up-to-date record of sightings, register with BCAL by using the following link: https://budawangcoast.org.au/

Records of other taxa can also be viewed using the BCAL platform.

10. BUSHCARE SITE SPECIES LIST

The following flora species and weed list (Section 13) have been recorded on the site (largely recorded by Kevin Mills as part of the Illawarra Vegetation Studies 'Plants and vegetation of Bundewallah Reserve, Berry, Shoalhaven Region, NSW, 2019):

Botanical name	Common name	
OVERSTOREY TREES		
Acmena smithii	Lilly Pilly	
Acronychia oblongifolia	Common Acronychia	
Alectryon subcinereus	Native Quince	
Alphitonia excelsa	Red Ash	
Brachychiton acerifolius	Illawarra Flame Tree	
Casuarina glauca	Swamp Oak	
Casuarina littoralis	Black She Oak	
Ceratopetalum apetalum	Coachwood	
Cinnamomum oliveri	Oliver's Sassafras	
Citronella moorei	Churnwood	
Corymbia gummifera	Red Bloodwood	
Diploglottis australis	Native Tamarind	
Cryptocarya glaucescens	Native Laurel	
Cryptocarya microneural	Murrogun, Brown Jack	
Doryphora sassafras	Sassafras	
Eucalyptus quadrangulate	Coastal White Box	
Eucalyptus saligna/ E. botryoides	Southern Blue Gum	
Glochidion ferdinandi	Cheese Tree	
Guioa semiglauca	Guioa	
Ficus obliqua	Small-leaved Fig	
Litsea reticulata	Bolly Gum	
Livistona australis	Cabbage Palm	
Melia azedarach	White Cedar	
Melicope micrococca	White Euodia	
Pennantia cunninghamii	Brown Beach	
Schizomeria ovata	Crabapple	
Scolopia braunii	Flintwood	
Sloanea australis	Maiden's Blush	
Synoum glandulosum	Scentless Rosewood	
Toona ciliata	Red Cedar	

Botanical name	Common name	
SHRUBS AND SMALL TREES		
Abrophyllum ornans	Native Hydrangea	
Acacia binervata	Two-veined Hickory	
Acacia maidenii	Maiden's Wattle	
Backhousia myrtifolia	Grey Myrtle	
Baloghia inophylla	Brush Bloodwood	
Billardiera scandens	Apple Berry	
Breynia oblongifolia	Coffee Bush	
Callicoma serratifolia	Black Wattle	
Cassinia trinerva	Three-veined Cassinia	
Claoxylon australe	Brittlebush	
Clerodendrum tomentosum	Hairy Clerodendrum	
Commersonia fraseri	Brush Kurrajong	
Coprosma quadrifida	Prickly Coprosma	
Diospyros australis	Black Plum	
Diospyros pentamera	Myrtle Ebony	
Elaeocarpus kirtonii	Pigeonberry Ash	
Elaeodendron australe	Red Olive-berry	
Epacris pulchella	NSW Coral Heath	
Ehretia acuminata	Koda	
Eupomatia laurina	Bolwarra	
Ficus coronata	Sandpaper Fig	
Glochidion ferdinandi var. ferdinandi	Cheese Tree	
Leucopogon parvifolius	Coast Beard Heath	
Maclura cochinchinensis	Cockspur Thorn	
Notelaea venosa	Large Mock Olive	
Homalanthus populifolius	Bleeding Heart	
Pimelea linifolia	Slender Rice Flower	
Pittosporum multiflorum	Orange Thorn	
Pittosporum revolutum	Rough Fruit Pittosporum	
Pittosporum undulatum	Sweet Pittosporum	
Plectranthus parviflorus	Cockspur Flower	
Polyosma cunninighamii	Featherwood	
Polyscias murrayi	Pencil Cedar	
Pomaderris aspera	Hazel Pomaderris	
Maclura cochinchinensis	Cockspur Thorn	
Melaleuca hypericifolia	Hillock Bush	
Morinda jasminoides	Morinda	
-	Boobialla	
Myoporum acuminatum	Brush Muttonwood	
Myrsine howittiana		
Myrsine variabilis Ozothamnus diosmifolius	Muttonwood Pill Flower Dogwood	
	Pill Flower, Dogwood	
Psychotria loniceroides	Hairy Psychotria	
Rhagodia candolleana	Seaberry Saltbush	
Rubus moluccanus var. trilobus	Broad-leafed Bramble	
Rubus nebulosus	Bush Lawyer	
Rubus parvifolius Rubus rosifolius	Native Raspberry Rose-leaf Bramble	

Botanical name	Common name	
Senecio linearifolius	Fireweed Groundsel	
Sigesbeckia orientalis	Indian Weed	
Solanum stelligerum	Devil's Needles	
Stenocarpus salignus	Scrub Beefwood	
Streblus brunonianus	Whalebone Tree	
Symplocus thwaitesii	Buff Hazelwood	
Syzygium australe	Brush Cherry	
Syzygium smithii	Lilly Pilly	
Tasmannia insipida	Brush Pepperbush	
Trema tomentosa var. viridis	Native Peach	
Tristaniopsis collina	Mountain Water Gum	
Wilkiea huegeliana	Veined Wilkiea	
Zieria smithii	Sandfly Zieria	
	January Zionia	
	rasses, herbs, orchids)	
Adiantum diaphanum	Filmy Maidenhair Fern	
Adiantum formosum	Giant Maidenhair Fern	
Adiantum hispidulum	Rough Maidenhair Fern	
Aneilema acuminatum	Pointed Aneilema	
Arthropteris beckleri	Hairy Climbing Fishbone Fern	
Arthropteris tenella	Jointed Fern	
Asplenium australasicum	Birds Nest Fern	
Asplenium flabellifolium	Necklace Fern	
Asplenium polyodont	Sickle Spleenwort	
Blechnum cartilagineum	Gristle Fern	
Blechnum patersonii	Strap Fern	
Callitriche muelleri	Rounded Water Starwort	
Calochlaena dubia	Common Ground Fern	
Carex appressa	Tall Sedge	
Carex longebrachiata	Bergalia Tussock	
Cayratia clematidea	Slender Grape	
Christella dentata	Binung Fern	
Cyathea australis	Rough Tree Fern	
Cyathea leichhardtiana	Prickly Tree Fern	
Cyperus laevigatus	Smooth Flat Sedge	
Davallia solida var. pyxidata	Hare's Foot Fern	
Dendrobium pugioniforme	Dagger Orchid	
Dendrobium speciosum	Rock Orchid	
Dennstaedtia davallioides	Lacy Ground Fern	
Deparia petersenii subsp. congrua	Japanese Lady Fern	
Deparia peterseriii subsp. congrua Dicksonia antarctica	Soft Tree fern	
Dicksonia antarctica Diplazium australe	Austral Lady Fern	
<u> </u>		
Doodia aspera	Rasp Fern	
Doodia caudata	Small Rasp Fern	
Echinopogon ovatus	Tufted Hedgehog Grass	
Einadia hastata	Saloop, Berry Saltbush	
Einadia trigonos	Fishweed	
Entolasia marginata	Bordered Panic	
Coronium homoonum	Cranachill	

Cranesbill

Geranium homeanum

Botanical name	Common name	
Gymnostachys anceps	Settler's Flax	
Hedycarya angustifolia	Native Mulberry	
Hydrocotyle laxiflora	Stinking Pennywort	
Hypolepis glandulifera	Downy Ground Fern	
Hypolepis muelleri	Harsh Ground Fern	
Juncus usitatus	Common Rush	
Lastreopsis acuminatum	Shiny Sheild fern	
Lastreopsis decomposita	Trim Sheild fern	
Lastreopsis microsora	Creeping Sheild fern	
Lobelia purpurascens	Lobelia Pratia	
Microlaena stipoides var stipoides	Weeping Grass	
Microsorum pustulatum	Kangaroo Fern	
Microsorum scandens	Fragrant Fern	
Oplismenus imbecillis	Basket Grass	
Pellaea falcata	Sickle Fern	
Pellaea nana	Dwarf Sickle Fern	
Peperomia tetraphylla	Peperomia	
Persicaria hydropiper	Water Pepper	
Platycerium bifurcatum	Elkhorn	
Plectorrhiza tridentata	Tangle Orchid	
Pollia crispata	Pollia	
Polyphlebium venosum	Veined Bristle Fern	
Pseuderanthemum variabile	Pastel Flower	
Pteridium esculentum	Common Bracken	
Pteris tremula	Tender Brake	
Pteris umbrosa	Jungle Brake	
Pyrrosia rupestris	Rock Felt Fern	
Rumex brownii	Swamp Dock	
Sarcochilus hillii	Little Gem Sarcochilus	
Stellaria flaccida	Forest Starwort	
Urtica incisa	Stinging Nettle	
Veronica plebeia	Creeping Speedwell	
Viola hederacea	Ivy-leaved Violet	
UNDERSTOREY (vines and climbers)		
Aphanopetalum resinosum	Gum Vine	
Apocissus hypoglauca	Five-leaf Water Vine	
Cayratia clematidea	Slender grape	
Celastrus australis	Staff Vine	
Cephalaralia cephalobotrys	Climbing Panax	
Cissus antarctica	Water Vine	
Clematis aristata	Traveller's Joy	
Eustrephus latifolius	Wombat Berry	
Fieldia australis	Fieldia	
Geitonoplesium cymosum	Scrambling Lily	
Glycine microphylla	Small-leaved Glycine	
Hibbertia scandens	Climbing Guinea Flower	
Legnephora moorei	Round-leaf Vine	
Lepidosperma concavum	Sandhill Sword Sedge	
•		

Botanical name	Common name
Marsdenia flavescens	Hairy Milk Vine
Marsdenia rostrata	Common Milk Vine
Palmeria scandens	Anchor Vine
Pandorea pandorana	Wonga Vine
Parsonsia straminea	Common Silkpod
Piper hederaceum	Giant Pepper Vine
Ripogonum album	White Supplejack
Smilax australis	Austral Sarsaparilla
Smilax glyciphylla	Thornless Sarsaparilla
Stephania japonica var discolor	Snake Vine
Trophis scandens	Burny Vine
Tylophora barbata	Bearded Tylophora
Viola hederacea	Native Violet

11. BUSHCARE SITE THREATENED ECOLOGICAL COMMUNITY LIST

A Threatened Ecological Communities (TEC) is recorded for the site:

Illawarra Sub-tropical Rainforest occurs in Site E.

12. BUSHCARE SITE THREATENED SPECIES LIST

No threatened native flora or fauna species records were found for this site.

13. BUSHCARE SITE WEED LIST

The following weeds have been recorded on the sites.

Botanical name	Common name
Ageratina adenophora	Crofton Weed
Ageratina riparia	Mist Flower
Anthoxanthum odoratum	Sweet Vernal grass
Araujia sericifera	Moth Vine
Axonopus fissifolius	Narrow-leaf Carpet Grass
Bidens pilosa	Cobblers Pegs
Bromus catharticus	Prairie Grass
Cenchrus clandestinus	Kikuyu Grass
Cerastium fontanum	Mouse-ear Chickweed
Cyclospermum leptophyllum	Slender Celery
Cirsium vulgare	Spear Thistle
Conyza spp.	Fleabane
Ehrharta erecta	Panic Veldt Grass
Galium aparine	Cleavers
Holcus lanatus	Yorkshire Fog
Hypochaeris radicata	Flatweed

Botanical name	Common name
Isolepis prolifera	Budding Club-rush
Lantana camara	Lantana
Ligustrum lucidum	Large Leaf Privet
Ligustrum sinense	Small Leaf Privet
Lolium sp.	Ryegrass
Lysimachia arvensis	Blue Pimpernel
Passiflora edulis	Passionfruit
Plantago lanceolata	Ribbed Plantain
Rubus fruticosus	Blackberry
Rumex sagittatus	Turkey Rhubarb
Senecio madagascariensis	Fireweed
Senna pendula var. glabrata	Easter Cassia
Sida rhombifolia	Paddy's Lucerne
Solanum mauritianum	Tree Tobacco
Solanum nigrum	Blackberry Nightshade
Solanum pseudocapsicum	Madeira Winter Cherry
Stellaria media	Chickweed
Trifolium repens	White Clover
Verbena bonariensis	Purpletop