



## CALLALA BUSHCARE ACTION PLAN REVIEW

**Document Number: D15/245505 • Adopted: 22/01/2016 • Minute Number: MIN16.15 • File: 26280E • Produced By: Planning & Development Services Group • Review Date: 22/09/2016**

### CONTACT INFORMATION

<b>Group Name:</b>	<b>Callala Bushcare</b>
<b>Reserve Name:</b>	<b>Various</b>
<b>Reserve Numbers:</b>	<b>CCA305, CCA285, CCA362 &amp; CCA362</b>
<b>Land Tenure:</b>	<b>Council and Crown TM/CC</b>
<b>Comm. Land Type:</b>	<b>Natural Area</b>

### 1. BUSHCARE GROUP GOALS

The Goals of the Callala Bushcare Group Action Plan are as follows:

1. Removal of environmental weeds from public land and the regeneration and protection of natural bushland in the Callala- Myola area.
2. The Group operates public education campaigns to encourage the local community to value and respect surrounding bushland, this has included:
  - Promotion of local bushwalks;
  - Discouraging dumping in Bushland reserves;
  - Providing education to local residents to raise awareness of potential ornamental garden plants that are invasive and can become serious environmental weeds; and
  - Encouraging private landowners to remove environmental and noxious weeds is a key part of the Bushcare Group's strategy.

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

Successes/Goals/Actions achieved to date	Lessons learnt
The successes of the Callala Bushcare Group since the adoption of the original Bushcare Action Plan in 2008 are:	
<p><b>Callala Creek Bushland Reserve (see maps)</b></p> <ol style="list-style-type: none"> <li>1. Restoration of 23.3 hectares of degraded Coastal Saltmarsh which is listed as an Endangered Ecological Community (EEC) under the NSW Threatened Species Conservation Act 1995</li> <li>2. Restoration and protection of 53.3 hectares of SEPP 14 Wetland across the Callala Creek Bushland Reserve.</li> <li>3. Protection of <i>Wilsonia backhousei</i> – Narrow-leaf <i>Wilsonia</i> which is listed as vulnerable under the NSW Threatened Species Conservation Act 1995.</li> <li>4. Installation of 390 metres of steel cable vehicle barrier fencing to protect SEPP 14 Wetland and Saltmarsh from damage caused by trail bikes and 4wds using the Saltmarsh as a skid-pad.</li> <li>5. Installation of 125 metres of low-key boardwalk to allow all weather access to the wetland by bushwalkers.</li> <li>6. Primary and secondary control/removal of all <i>Lantana camara</i> across 148 hectares within the reserve.</li> <li>7. Primary and secondary control/removal of <i>Asparagus aethiopicus</i> and <i>Senna pendula</i> across 57 hectares within the reserve.</li> <li>8. Primary and secondary control/removal of 12.5 hectares of <i>Lonicera japonica</i> within the reserve.</li> <li>9. 6 guided environmental education walks with the Callala Public School.</li> </ol>	<p>The Bushcare Group have learnt the value of involving the community, which was done by engaging with the Callala Public School in educational programs to increase community awareness of the value of the remnant vegetation within Callala Creek Bushland Reserve.</p> <p>The Group has also found that by stopping unauthorised trail bikes and 4wds from driving on the wetland, much of degradation to the estuarine wetland has been reversed.</p>
<p><b>Myola Boat Ramp, Spit and Beach Foreshore Reserves (see maps)</b></p> <ol style="list-style-type: none"> <li>1. Primary and secondary control of <i>Lantana camara</i> across 752 hectares of crown reserves.</li> </ol>	<p>The Bushcare Group and Council have learnt the value of communicating with the Jerrinja Aboriginal Land Council in relation to land management issues effecting the work they do on this land.</p>

<ol style="list-style-type: none"> <li>2. Installation of fencing and gates at Myola Foreshore Reserve to protect the 38.1 hectares of Bangalay Sand Forest EEC.</li> <li>3. Primary and secondary control of <i>Dipogon lignosus</i> (Dolichos Pea) from the Myoloa Spit</li> <li>4. Primary and secondary control of <i>Bryophyllum delagoense</i> (Mother of Millions) and <i>Asparagus aethiopicus</i> (Ground Asparagus Fern) over 3 hectares of bushland at Myola boat ramp crown reserve.</li> </ol>	
<p><b>Emmett St Reserve – Boorawine Creek</b></p> <ol style="list-style-type: none"> <li>1. Primary and secondary control/removal of <i>Asparagus aethiopicus</i> (Asparagus Fern), <i>Lantana camara</i> (Lantana), <i>Lonicera japonica</i> (Japanese Honeysuckle), <i>Rubus fruticosus</i> (Blackberry) and <i>Senna pendula spp. pendula</i> (Cassia) within the Emmett St Reserve.</li> <li>2. Installation of timber bollards to protect 1,736 square metres of remnant vegetation along the riparian zone.</li> <li>3. Planting of 400 local native plants along the creek in cooperation with the Callala Public School.</li> </ol>	<p>Communication with the adjoining residents that back onto the reserve cannot be undervalued as the work the Bushcare Group are doing directly affects the adjoining residents on a daily basis.</p>
<p><b>Old Tip Site</b></p> <ol style="list-style-type: none"> <li>1. Primary control of 1.8 hectares of <i>Ageratina adenophora</i> (Crofton Weed), <i>Senna pendula spp. pendula</i> (Cassia) and <i>Rubus fruticosus</i> (Blackberry) on the old tip site on private land.</li> </ol>	<p>Working with the landholder is key to ensuring that the large volume of weed propagules that this site holds is controlled and contained and does not affect other bushland and Bushcare sites in the local area.</p>

2. **SHOALHAVEN BUSHCARE GROUP ACTIVITIES TABLE (to be read in conjunction with the 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
<p><b>Site A – Callala Creek Bushland Reserve (see map)</b>  <b>CURRENT AND EXISTING ACTIONS</b></p> <p>1. Follow up control/removal of the following noxious and environmental weeds from the Southern, Eastern and Northern sections of the reserve in the following priority:</p> <ul style="list-style-type: none"> <li>a. <i>Lantana camara</i> (Lantana)</li> <li>b. <i>Senna pendula</i> spp. (Cassia)</li> <li>c. <i>Asparagus aethiopicus</i> (Ground Asparagus)</li> <li>d. <i>Rubus fruticosus</i> (Blackberry)</li> <li>e. <i>Ageratina adenophora</i> (Crofton Weed)</li> <li>f. <i>Lonicera japonica</i> (Japanese Honeysuckle)</li> <li>g. <i>Ipomoea indica</i> (Blue Morning Glory)</li> <li>h. <i>Passiflora edulis</i> (Passionfruit)</li> <li>i. <i>Lagunaria patersonii</i> (Norfolk Island Hibiscus)</li> <li>j. <i>Physalis peruviana</i> (Cape Gooseberry)</li> <li>k. <i>Stenotaphrum secundatum</i> (Buffalo Grass)</li> <li>l. <i>Thunbergia alata</i> (Black-eyed Susan)</li> </ul> <p>2. Bushcare Group and Council seek cooperation from adjoining private landowners surrounding the reserve to assist and/or give permission for volunteers and/or staff/contractors to control the above weeds on private property.</p> <p>3. Bushcare Group and Council continue education activities to increase the awareness levels of the surrounding property</p>	<p>1. H</p> <p>2. M</p> <p>3. H</p>	<p>1. Undertake a combination of manual and chemical control techniques depending on weed species, density and abundance of weeds</p> <p>2. Council in cooperation with Bushcare Group to write to landholders seeking cooperation</p> <p>3. Letter box drop of</p>	<p>1. As needed</p> <p>2. As needed</p> <p>3. As needed</p>

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
<p>owners/residents of the negative effects of dumping garden refuse/mower clippings and growing invasive plants on their properties.</p> <p><b>NEW ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Council to maintain the 385 metres of steel cable fencing and gates to prevent unauthorised vehicles accessing and degrading the saltmarsh/mangrove vegetation.</li> <li>2. Bushcare Group to use hand held GPS unit to map weed infestations and control works on the reserve.</li> <li>3. Bushcare Group to undertake on-going monitoring to assess regeneration of bushland following weed control and undertake necessary control of emergent weeds as required.</li> <li>4. Assist Council in the establishment of an all-weather loop walk, as per the Shoalhaven Walking Track Strategy.</li> <li>5. Bushcare Group to maintain existing educational signage along the existing boardwalk.</li> </ol>	<p>4. H</p> <p>5. M</p> <p>6. H</p> <p>7. L</p> <p>8. L</p>	<p>surrounding residents on a needs-be basis</p> <p><b>NEW ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Council to maintain</li> <li>2. Council to assist Bushcare volunteer in training in GPS use</li> <li>3. Council to provide training to Bushcare volunteers in monitoring</li> <li>4. Seek grant funding to construct walking track extension</li> <li>5. Bushcare Group to maintain and replace signs as required</li> </ol>	<p>1. As needed</p> <p>2. 2016</p> <p>3. 2016</p> <p>4. As needed</p> <p>5. As needed</p>
<p><b>Site B – Myola Foreshore and Boat Ramp (see map)</b></p> <p><b>CURRENT AND EXISTING ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Work with the Jerrinja Aboriginal Land Council to regenerate the bushland</li> <li>2. Shoalhaven Council and Bushcare Group to undertake</li> </ol>	<p>1. H</p> <p>2. H</p>	<ol style="list-style-type: none"> <li>1. On-going communication with JALC</li> <li>2. Undertake a combination of</li> </ol>	<ol style="list-style-type: none"> <li>1. As needed</li> <li>2. As</li> </ol>

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
<p>follow up control/removal of the noxious and environmental weeds in the following priority order:</p> <ol style="list-style-type: none"> <li>a. <i>Lantana camara</i> (Lantana)</li> <li>b. <i>Chrysanthemoides monilifera ssp. rotunda</i> (Bitou Bush)</li> <li>c. <i>Asparagus aethiopicus</i> (Ground Asparagus Fern)</li> <li>d. <i>Bryophyllum delagoense</i> (Mother of Millions).</li> </ol> <ol style="list-style-type: none"> <li>3. Shoalhaven Council and Bushcare Group to seek cooperation from adjoining private landowners with weed control.</li> <li>4. Bushcare Group to maintain the Myola Beach Foreshore Reserve fence alongside the shared pathway from Callala Beach to Myola.</li> <li>5. Council to maintain signage and gates along fence.</li> </ol> <p><b>NEW ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Bushcare Group to use hand held GPS to map weed infestations and control works on the reserve.</li> <li>2. Bushcare Group to undertake on-going monitoring to assess regeneration of bushland following weed control and undertake necessary control of emergent weeds as required.</li> </ol>	<p>3. M</p> <p>4. M</p> <p>5. H</p>	<p>manual and chemical control techniques depending on weed species, density and abundance of weeds.</p> <ol style="list-style-type: none"> <li>3. Council in cooperation with Bushcare Group to write to landholders seeking cooperation.</li> <li>4. Bushcare Group to undertake minor repairs as required.</li> <li>5. Council to maintain.</li> </ol> <p><b>NEW ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Council to assist Bushcare volunteer in training in the use of the GPS.</li> <li>2. Council to provide training to Bushcare volunteers in monitoring.</li> </ol>	<p>needed</p> <ol style="list-style-type: none"> <li>3. As needed</li> <li>4. As needed</li> <li>5. As needed</li> </ol> <ol style="list-style-type: none"> <li>1. 2016</li> <li>2. 2016</li> </ol>
<p><b>Site C – Emmett St Reserve – Boorawine Creek</b> <b>CURRENT AND EXISTING ACTIONS</b></p>			

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
<ol style="list-style-type: none"> <li>1. Shoalhaven Council and Bushcare Group to undertake follow up control/removal of the noxious and environmental weeds in the following priority order:               <ol style="list-style-type: none"> <li>a. <i>Rubus fruticosus</i> (Blackberry)</li> <li>b. <i>Lantana camara</i> (Lantana)</li> <li>c. <i>Senna pendula ssp. pendula</i> (Cassia)</li> <li>d. <i>Asparagus athiopicus</i> (Ground Asparagus)</li> <li>e. <i>Lonicera japonica</i> (Japanese Honeysuckle)</li> <li>f. <i>Crassula ovata</i> (Stonecrop)</li> </ol> </li> <li>2. Bushcare Group and Council to work with local residents living around the reserve to gain support for the regeneration of the remnant vegetation and raise awareness of the negative aspects of garden refuse dumping, invasive garden plants and clearing/mowing of native vegetation.</li> <li>3. Bushcare Group to undertake supplementary/replacement planting of areas on the creek side of the existing bollards and along creek line using species from this plan's suggested revegetation list in section 11.</li> <li>4. Shoalhaven Council to maintain timber bollards placed on the reserve to protect riparian vegetation as required.</li> </ol>	<ol style="list-style-type: none"> <li>1. H</li> <li>2. H</li> <li>3. M</li> <li>4. H</li> </ol>	<ol style="list-style-type: none"> <li>1. Undertake a combination of manual and chemical control techniques depending on weed species, density and abundance of weeds</li> <li>2. Letter box drop to surrounding residents on a needs-be basis</li> <li>3. Planting as required</li> <li>4. Maintain as required</li> </ol>	<ol style="list-style-type: none"> <li>1. As needed</li> <li>2. As needed</li> <li>3. As needed</li> <li>4. As required</li> </ol>
<p><b>Site D – Greenway Rd Dunes and Quay Rd Dunes (see map)</b>  <b>CURRENT AND EXISTING ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Work with private landholders along Quay Rd &amp; Callala Beach dunes to control noxious and environmental weeds.</li> <li>2. Shoalhaven Council and Bushcare Group to undertake follow up control/removal of the noxious and environmental weeds on Greenway Rd and Quay Rd dunes in the following</li> </ol>	<ol style="list-style-type: none"> <li>1. H</li> <li>2. H</li> </ol>	<ol style="list-style-type: none"> <li>1. Council in cooperation with Bushcare Group to write to landholders seeking cooperation</li> <li>2. Undertake a combination of</li> </ol>	<ol style="list-style-type: none"> <li>1. As require</li> <li>2. As needed</li> </ol>

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
<p>priority order:</p> <ol style="list-style-type: none"> <li>a. <i>Chrysanthemoides monilifera ssp. rotunda</i> (Bitou Bush)</li> <li>b. <i>Lantana camara</i> (Lantana)</li> <li>c. <i>Senna pendula ssp. pendula</i> (Cassia)</li> <li>d. <i>Asparagus aethiopicus</i> (Ground Asparagus)</li> </ol> <p><b>NEW ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Shoalhaven Council and Bushcare Group to continue to raise awareness of the value of dune vegetation in protecting property and assets to the residents along Greenway Rd &amp; Quay Rd.</li> </ol>	<p>1. M</p>	<p>manual and chemical control techniques depending on weed species, density and abundance of weeds</p> <p><b>NEW ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Send out educational and awareness raising material to adjoining landholders</li> </ol>	<p>1. As required</p>
<p><b>Site E – Old Callala Tip Site (see map)</b></p> <p><b>NEW ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Seek cooperation and work with private landholder to undertake follow up control of the noxious and environmental weed species to reduce seed source in the area as follows: <ol style="list-style-type: none"> <li>a. <i>Lantana camara</i> (Lantana)</li> <li>b. <i>Ageratina adenophora</i> (Crofton Weed)</li> <li>c. <i>Senna pendula ssp. pendula</i> (Cassia)</li> </ol> </li> </ol>	<p>1. H</p>	<p><b>NEW ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Council and Bushcare Group write to landholders seeking their cooperation and agreement.</li> </ol>	<p>1. As needed</p>
<p><b>Site F – Red Point to Carama Inlet</b></p> <p><b>NEW ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Seek cooperation and partnerships with NSW NPWS and Jerrinja Aboriginal Land Council to undertake primary and secondary control of noxious and environmental weed species as follows: <ol style="list-style-type: none"> <li>a. Red Point</li> </ol> </li> </ol>	<p>1. H</p>	<p><b>NEW ACTIONS</b></p> <ol style="list-style-type: none"> <li>1. Council and Bushcare Group contact JALC to seek cooperation in weed control</li> </ol>	<p>1. As needed</p>



GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
<ul style="list-style-type: none"> <li>i. <i>Lantana camara</i> (Lantana)</li> <li>ii. <i>Chrysanthemoides monilifera ssp. rotunda</i> (Bitou Bush)</li> <li>iii. <i>Asparagus aethiopicus</i> (Ground Asparagus)</li> <li>b. Beach Front up to Carama Inlet               <ul style="list-style-type: none"> <li>i. <i>Euphorbia paralias</i> (Sea Spurge)</li> </ul> </li> </ul>			

3. **BUSHCARE GROUP ACTION PLAN MAPS**  
a. **Site A - Callala Creek Bushland Reserve Map**





**b. Callala Bushcare Site B – Myola Foreshore, Boat Ramp and Black Swamp**

c. Callala Bushcare Site C – Emmett St Reserve



d. Callala Bushcare Site D – Greenway Rd and Callala Beach – Quay Rd



e. Callala Bushcare Site E – Old Callala Tip



f. Callala Bushcare Site F – Red Point to Carama Inlet



**4. BUSHCARE GROUP WHS & EQUIPMENT REQUIREMENTS**

Type of Activity	Yes	SWMS name included
Manual weed control (cut & paint, scrape and paint etc.)	√	SWMS1127
Chemical control (spraying of herbicides)	√	SWMS1127
Planting	√	SWMS1265
Minor construction (walking track, fencing, outdoor furniture)	√	SWMS1205
Propagation & seed collection	√	SWMS1265
Education (school groups, field days etc.)	√	NA
Other		

**5. COUNCIL SUPPORT**

Supply of personal protection equipment and other Work, Health and Safety equipment identified in SWMS and/or site specific risk assessment.

2. Supply of other materials and equipment within budgetary constraints.
3. Assistance with Primary weed control in various location where budgets allow.
4. Assistance with grant project application, administration and management.
5. Supply of on-site Bushcare Field Officer for 3 hours per month to assist with WHS and technical aspects.
6. Assist with communication and liaison with private landholders regarding Bushcare matters.
7. Assist with communication and negotiations with NSW Office of Environment and Heritage regarding Bushcare works on NPWS land.
8. Assistance with communication and negotiations Jerrinja Aboriginal Land Council regarding Bushcare work on their land and Aboriginal heritage issues and future land management.
9. Training in GPS operation and use and production of maps from existing software.

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

Yes                      √                      No                     

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

PPE Equipment Required	Date issued
------------------------	-------------



First Aid Kit	2015
Gloves	2015
Sunscreen	2015
Insect repellent	2015

## 8. POSSIBLE FUTURE FUNDING

Project	Funding source
Extension of Callala Creek Bushland Reserve Walking Track	Various

## 9. PLAN WILL BE REVIEWED EVERY THREE YEARS

**Next review due:**

22/01/2016

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

Name of document	Year it was produced	Produced by
Foreshore Reserve Policy	2005	Shoalhaven City Council
Generic Plan of Management for Natural Reserves	2001	Shoalhaven City Council

## 11. BUSHCARE SITE RECOMMENDED PLANTING/REVEGETATION SPECIES LIST

### a. Sites A & B – Callala Creek Bushland Reserve & Myola Boat Ramp and Foreshore Crown Reserves Planting List

<b>OVERSTOREY TREES</b>	
<b>Botanical</b>	<b>Common</b>
<i>Angophora hispida</i>	Rough Barked Apple
<i>Banksia integrifolia</i>	Coastal Banksia
<i>Banksia serrata</i>	Saw Tooth Banksia
<i>Corymbia gummifera</i>	Bloodwood
<i>Eucalyptus botryoides</i>	Bangalay Gum
<i>Eucalyptus pilularis</i>	Blackbutt
<i>Eucalyptus robusta</i>	Swamp Mahogany
<i>Leptospermum laevigatum</i>	Coastal Tea Tree
<i>Melaleuca linariifolia</i>	Snow in Summer
<b>SHRUBS</b>	
<b>Botanical</b>	<b>Common</b>
<i>Acacia longifolia ssp. longifolia</i>	Sydney Golden Wattle
<i>Acacia mearnsii</i>	Black Wattle
<i>Acacia suaveolens</i>	Sweet Scented Wattle
<i>Acacia ulicifolia</i>	Prickly Mosses
<i>Allocasuarina littoralis</i>	Black Wattle
<i>Bursaria spinosa</i>	Blackthorn
<i>Elaeocarpus reticulatus</i>	Blueberry Ash
<i>Gahnia clarkei</i>	Sword Grass
<i>Goodenia ovata</i>	Hop Bush
<i>Pittosporum revolutum</i>	Rough fruited Pittosporum
<b>UNDERSTOREY (grasses, herbs, climbers)</b>	
<b>Botanical</b>	<b>Common</b>
<i>Dianella caerulea</i>	Native Flax Lily
<i>Hardenbergia violacea</i>	Happy Wonderer
<i>Hibbertia scandens</i>	Native Guinea Flower
<i>Isolepis nodosa</i>	Nodding Rush
<i>Juncus kruassii</i>	Sea Rush
<i>Lomandra longifolia</i>	Spiny Matt Rush
<i>Microlaena stipoides</i>	Weeping Grass
<i>Parsonsia straminea</i>	Monkey Rope Vine
<i>Phragmites australis</i>	Native Reed
<i>Pimelea linifolia</i>	Rice Flower

### b. Site C – Emmett St Reserve Planting List

<b>SHRUBS</b>	
<b>Botanical</b>	<b>Common</b>
<i>Allocasuarina littoralis</i>	Black She Oak
<i>Homalanthus populifolius</i>	Bleeding Heart
<i>Myoporum acuminatum</i>	Boobialla
<i>Syzigium paniculatum</i>	Magenta Cherry
<b>UNDERSTOREY (grasses, herbs, climbers)</b>	
<b>Botanical</b>	<b>Common</b>

<i>Dianella caerulea</i>	Blue Flax Lily
<i>Gahnia clarkei</i>	Sword Grass
<i>Gahnia melanocarpa</i>	Sword Grass
<i>Goodenia ovata</i>	Hop Goodenia
<i>Hibbertia scandens</i>	Native Guinea Flower
<i>Lomandra longifolia</i>	Spiny Matt Rush
<i>Oplismenus imbecillis</i>	Basket Grass
<i>Persoonia mollis</i>	Soft Leaf Geebung
<i>Pimelea spicata</i>	Slender Rice Flower
<i>Viola hederacea</i>	Native Violet

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

<b>Noxious</b>	<b>Environmental</b>	<b>Control Method</b>
<i>Lantana camara</i> (Lantana)	<i>Senna pendula</i> (Winter Senna)	Chemical and manual control
<i>Rubus fruticosus</i> (Blackberry)	<i>Lonicera japonica</i> (Japanese Honeysuckle)	Chemical and manual control
<i>Ageratina adenophora</i> (Crofton Weed)	<i>Asparagus asparagoides</i> (Ground Asparagus)	Chemical and manual control
<i>Chrysanthemoides monilifera</i> spp. <i>rotunda</i> (Bitou Bush)	<i>Lagunaria Patersonia</i> (Norfolk Island Hibiscus)	Chemical and manual control
	<i>Stenotaphrum secundatum</i> (Buffalo Grass)	Chemical and manual control
	<i>Ipomoea indica</i> (Blue Morning Glory)	Chemical and manual control
	<i>Passiflora edulis</i> (Passionfruit)	Chemical and manual control
	<i>Thunbergia alata</i> (Black Eyed Susan)	Chemical and manual control
	<i>Euphorbia paralias</i> (Sea Spurge)	Chemical and manual control
	<i>Bryophyllum delagoense</i> (Mother of Millions)	Chemical and manual control
	<i>Crassula ovata</i> (Stonecrop)	Chemical and manual control
	<i>Gazania linearis</i> (Treasure Flower)	Chemical and manual control

**13. BUSHCARE SITE SPECIES LIST (The following species have been recorded on the site by undertaken a random 50 metre transect across each site)**

**Site A Callala Creek Bushland Reserve Site**

<b>OVERSTOREY TREES</b>	
<b>Botanical</b>	<b>Common</b>
<i>Angophora floribunda</i>	Rough Barked Apple
<i>Eucalyptus robusta</i>	Swamp Mahogany
<i>Melaleuca linariifolia</i>	Snow in Summer
<b>SHRUBS</b>	
<b>Botanical</b>	<b>Common</b>
<i>Acacia longifolia ssp. longifolia</i>	Sydney Golden Wattle
<i>Acacia suaveolens</i>	Sweet Scented Wattle
<i>Allocasuarina littoralis</i>	Black Wattle
<i>Banksia integrifolia</i>	Coastal Banksia
<i>Breynia oblongifolia</i>	Native Privet
<i>Gahnia clarkei</i>	Sword Grass
<i>Glochidion ferdinandi</i>	Cheese Tree
<i>Gonocarpus teucroides</i>	Raspwort
<i>Goodenia ovata</i>	Hop Bush
<b>UNDERSTOREY (grasses, herbs, orchids)</b>	
<b>Botanical</b>	<b>Common</b>
<i>Goodenia heterophylla</i>	
<i>Goodenia stelligera</i>	Star Hair Goodenia
<i>Hydrocotyle peduncularis</i>	
<i>Lomandra longifolia</i>	Spiny Matt Rush
<i>Phragmites australis</i>	Native Reed
<i>Pimelea linifolia</i>	Rice Flower
<i>Pratia purpurascens</i>	Pratia
<i>Pteridium esculentum</i>	Bracken Fern
<i>Pultenaea linophylla</i>	
<b>UNDERSTOREY (vines &amp; climbers)</b>	
<b>Botanical</b>	<b>Common</b>
<i>Billardiera scandens</i>	Apple Dumpling
<i>Glycine clandestina</i>	Love Creeper
<i>Hardenbergia violacea</i>	Happy Wanderer
<i>Hibbertia scandens</i>	Native Guinea Flower
<i>Parsonsia straminea</i>	Monkey Rope Vine

**Site B: Myoloa Boat Ramp & Myoloa Foreshore Crown Reserve**

<b>OVERSTOREY TREES</b>	
<b>Botanical</b>	<b>Common</b>
<i>Angophora floribunda</i>	Rough Barked Apple Gum
<i>Avicennia marina</i>	Grey Mangrove
<i>Banksia integrifolia</i>	Coastal Banksia

<i>Banksia serrata</i>	Saw Tooth Banksia
<i>Corymbia gummifera</i>	Bloodwood
<i>Eucalyptus botryoides</i>	Bangalay Gum
<i>Eucalyptus pilularis</i>	Blackbutt
<i>Leptospermum laevigatum</i>	Coastal Tea Tree

### SHRUBS

Botanical	Common
<i>Acacia mearnsii</i>	Black Wattle
<i>Acacia ulicifolia</i>	Prickly Mosses
<i>Banksia serrata</i>	Saw Tooth Banksia
<i>Breynia oblongifolia</i>	Native Privet
<i>Bursaria spinosa</i>	Blackthorn
<i>Elaeocarpus reticulatus</i>	Blueberry Ash
<i>Leucopogon juniperinus</i>	Bearded Heath
<i>Lomatia silaifolia</i>	Crinkle Bush
<i>Monotoca elliptica</i>	Pigeon Berry Ash
<i>Notalea longifolia ssp. longifolia</i>	Mock Olive
<i>Pittosporum revolutum</i>	Rough Fruited Pittosporum

### UNDERSTOREY (grasses, herbs, orchids)

Botanical	Common
<i>Acianthus fornicatus</i>	Pixie Orchid
<i>Dianella caerulea</i>	Native Flax Lily
<i>Galium propinquum</i>	Bedstran
<i>Goodenia ovata</i>	Native Hops
<i>Isolepis nodosa</i>	Nodding Rush
<i>Juncus kraussii</i>	Sea Rush
<i>Lepidosperma limicola</i>	Jointed Rush
<i>Leptospermum deanei</i>	
<i>Livistona australis</i>	Cabbage Palm
<i>Lomandra longifolia</i>	Spiny Matt Rush
<i>Microlaena stipoides</i>	Weeping Grass
<i>Pimelea linifolia</i>	Slender Rice Flower
<i>Pteridium esculentum</i>	Bracken Fern
<i>Tetragonia tetragonoides</i>	Warrigal Green

### UNDERSTOREY (vines & climbers)

Botanical	Common
<i>Billardiera scandens</i>	Apple Dumpling
<i>Glycine clandestina</i>	Love Creeper
<i>Hibbertia scandens</i>	Native Guinea Flower
<i>Parsonsia straminea</i>	Monkey Rope Vine
<i>Rubus parvifolius</i>	Native Raspberry

### Site C: Emmett St Reserve

### OVERSTOREY TREES

Botanical	Common
<i>Angophora floribunda</i>	Rough Bark Apple
<i>Casuarina glauca</i>	Swamp Oak
<i>Corymbia gummifera</i>	Red Bloodwood
<i>Eucalyptus agglomerata</i>	Narrow Leaf Stringybark
<i>Eucalyptus botryoides</i>	Bangalay Gum
<i>Eucalyptus longifolia</i>	Woollybutt

<i>Melaleuca linariifolia</i>	Snow
SHRUBS	
Botanical	Common
<i>Acacia binervata</i>	Two Veined Hickory
<i>Acacia falcata</i>	
<i>Allocasuarina littoralis</i>	Black She Oak
<i>Avicennia marina</i>	Grey Mangrove
<i>Homalanthus populifolius</i>	Bleeding Heart
<i>Myoporum acuminatum</i>	Boobialla
<i>Pittosporum undulatum</i>	Sweet Daphne
<i>Syzygium paniculatum</i>	Magenta Cherry
UNDERSTOREY (grasses, herbs, orchids)	
Botanical	Common
<i>Adiantum aethiopicum</i>	Maiden Hair Fern
<i>Austrodanthonia pilosa</i>	Wallaby Grass
<i>Breynia oblongifolia</i>	Native Privet
<i>Dianella caerulea</i>	Blue Flax Lily
<i>Dichondra repens</i>	Kidney Weed
<i>Gahnia clarkei</i>	Sword Grass
<i>Gahnia melanocarpa</i>	Sword Grass
<i>Goodenia ovata</i>	Hop Goodenia
<i>Hydrocotyle peduncularis</i>	
<i>Imperata cylindrical</i>	Blady Grass
<i>Lomandra longifolia</i>	Spiny Matt Rush
<i>Oplismenus imbecillis</i>	Basket Grass
<i>Persoonia mollis</i>	Soft Leaf Geebung
<i>Pimelea spicata</i>	Slender Rice Flower
<i>Selliera radicans</i>	Shiny Swamp - Mat
<i>Viola hederacea</i>	Native Violet
UNDERSTOREY (vines & climbers)	
Botanical	Common
<i>Billardiera scandens</i> var. <i>scandens</i>	Apple Berry
<i>Hibbertia scandens</i>	Native Guinea Flower
<i>Parsonsia straminea</i>	Monkey Rope Vine
<i>Polymeria calycina</i>	Swamp Bindweed
<i>Rubus parvifolius</i>	Native Raspberry

**Site D Greenway Rd and Quay Rd Foreshore Areas**

OVERSTOREY TREES	
Botanical	Common
<i>Banksia integrifolia</i>	Coastal Banksia
<i>Banksia serrata</i>	Saw Tooth Banksia
<i>Eucalyptus botryoides</i>	Bangalay Gum
<i>Leptospermum laevigatum</i>	Coastal Tea Tree
<i>Monotoca elliptica</i>	Tree Broom Heath
SHRUBS	
Botanical	Common
<i>Acacia longifolia</i> ssp. <i>sophorae</i>	Coastal Wattle
UNDERSTOREY (grasses, herbs, orchids)	

<b>Botanical</b>	<b>Common</b>
<i>Ammophila arenaria</i> *	Marram Grass
<i>Carpobrotus glaucescens</i>	Pig Face
<i>Correa alba</i>	White Correa
<i>Dianella caerulea</i>	Blue Flax Lily
<i>Isolepis nodosa</i>	Knobbly Club Rush
<i>Lomandra longifolia</i>	Spiny Matt Rush
<i>Pteridium esculentum</i>	Bracken Fern
<i>Spinifex sericeus</i>	Beach Spinifex
<i>Themeda triandra</i>	Kangaroo Grass
<b>UNDERSTOREY (vines &amp; climbers)</b>	
<b>Botanical</b>	<b>Common</b>
<i>Billardiera scandens</i> var, <i>scandens</i>	Apple Berry
<i>Hibbertia scandens</i>	Native Guinea Flower
<i>Kennedia rubicunda</i>	Dusky Coral Pea

\* *Ammophila arenaria* has been planted on the Callala Beach dunes as part of a beach stabilisation program and is not a native species