

WARRINGAH COUNCIL

Generic Bushland Reserves Plan of Management



**Warringah
Council**

August 2009

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EXECUTIVE SUMMARY

Warringah Council has management responsibility for numerous Council and Crown reserves which support bushland throughout Warringah. Council is legally required to prepare Plans of Management for community land. Council chooses to include Crown Reserves in Plans of Management to allow consistent land management of all reserves. This Plan covers almost 100 bushland reserves throughout Warringah, comprising over 300 ha of bushland.

Bushland in this plan means 'land on which there is vegetation that is either a remainder of the natural vegetation on the land or, if altered, is still representative of the structure and floristics of the native vegetation' (SEPP 19).

The main value of these reserves is for the conservation of remnant bushland in an urban setting. Low-impact recreation is another value. The reserves also have aesthetic and scientific/educational value. In addition, some reserves have value in that they support rare or threatened species or endangered ecological communities.

The Plan's actions and directions focus on protecting these values, with the ecological value of the bushland being the primary value. Council's primary management intention for these reserves is to conserve and restore the bushland through bush regeneration, weed control, fencing, rehabilitation of areas affected by encroachments and the closure of selected tracks.

Reserve Action Plans (RAPs) will be prepared for individual reserves or groups of reserves. These will provide specific management strategies appropriate to individual bushland areas that are consistent with the general strategies and actions in this plan.

The implementation of this plan requires Council to undertake an annual review of each action. All actions within a plan of management are assessed against other areas of Council and final commitment to implementing an action is given once they appear in the Strategic Community Plan and other relevant documents.

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A – C Bushland Reserves in Warringah

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INTRODUCTION

1 What is a Plan of Management?

A Plan of Management provides the framework for managing public land. The *Local Government Act 1993* requires that Council prepare Plans of Management for all land classified as “Community Land”. This classification means that the land is owned by Council and is managed for use by the community. Community land must be categorised in accordance with the *Local Government Act 1993*. A category describes the land and has a set of core objectives. All current and intended uses of the land must comply with the core objectives. Appendix 3 lists the core objectives applying to the categories of community land. Many of these reserves are partly or wholly owned by Council and contain **community land**.

Other reserves are partly or wholly **Crown Reserves** and Warringah Council has the responsibility to manage these reserves under the *Crown Lands Act, 1989*. This Plan will ensure that Crown Land is used and managed in accordance with the purpose for which it has been reserved. It is not a statutory requirement for these reserves to be managed by a Plan of Management however Council has chosen to include these reserves to ensure all reserves are strategically planned and managed.

Council has also chosen to include other bushland reserves for which there is no statutory requirement for a Plan of Management, but which Council is responsible for managing. These include a number of reserves currently owned by the NSW Department of Planning as well as a small number of other reserves owned by other state agencies.

This Plan aims to provide a clear, concise and practical outline for the management of all these reserves. It also aims to assist Council in meeting its broader strategic goals and vision as set out in Council’s *Strategic Community Plan* (2008). This Plan uses a values-based approach to land planning and management and aims to provide strategies that will protect and enhance community values for this land by addressing any issues threatening these values.

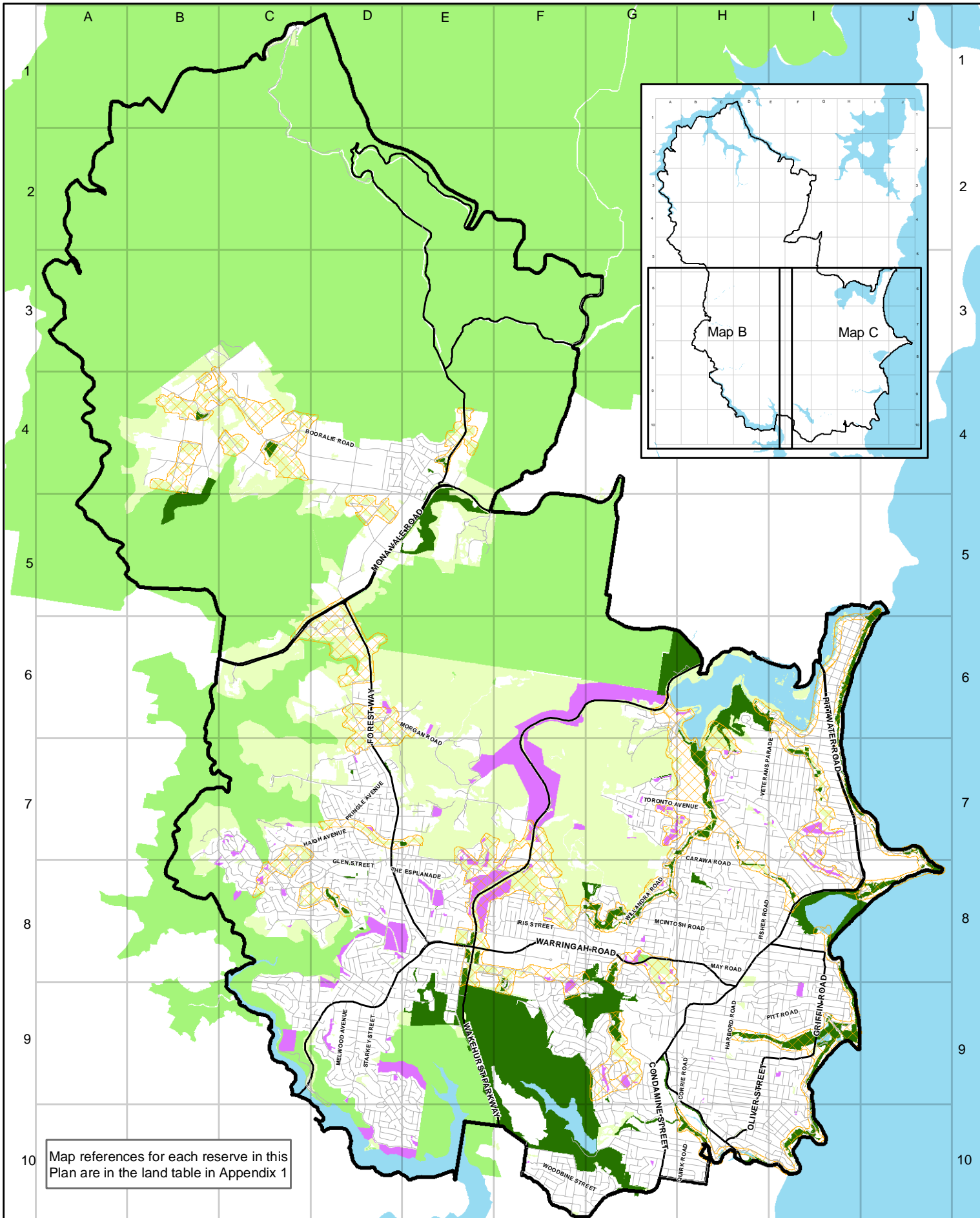
The Plan meets the requirements of the *Local Government Act 1993* and the *Crown Land Act 1989*.

2 What land does this Plan of Management apply to?

This Plan of Management applies to almost 100 reserves, comprising over 300 ha of bushland throughout Warringah. In this context, ‘bushland’ is defined as: ‘land on which there is vegetation that is either a remainder of the natural vegetation on the land or, if altered, is still representative of the structure and floristics of the native vegetation’ (SEPP 19). It includes vegetation communities mapped in Council’s Natural Area Survey (Smith and Smith, 2005) and verified by subsequent field checking as necessary. The location of the reserves covered by this plan is shown on maps A to C on the following pages.

A full land description of these reserves is contained in Appendix 1. The table in Appendix 1 shows the proposed categorisation of the Council owned reserves. Most of these reserves are proposed to be categorised as Natural Area / Bushland. In cases where more than one category is proposed, the reserve has been mapped to clearly show the boundary between categories. These maps are also in Appendix 1. Those parts of the reserves that are not proposed to be categorised as Natural Area / Bushland, have greater value as Park, General Community Use or Sportsground.

Separate Plans of Management have already been prepared for around 20 other bushland reserves which have particular conservation value. These include reserves containing Duffys Forest Ecological Community, an endangered ecological community. Forestville Park and Deep Creek Reserve will be covered by a Plan of Management in the near future. All of these other reserves are also shown on the maps on the following pages, to give an indication of the extent of bushland reserves managed by Warringah Council.



Map A: Management of Key Bushland Areas in Warringah

- LGA
- Vegetation Corridor
- Reserves covered by this PoM
- Other Reserves managed by Council
- National Parks and other Reserves
- Other native vegetation

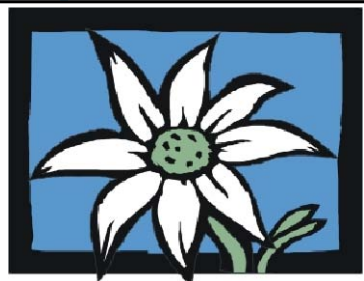
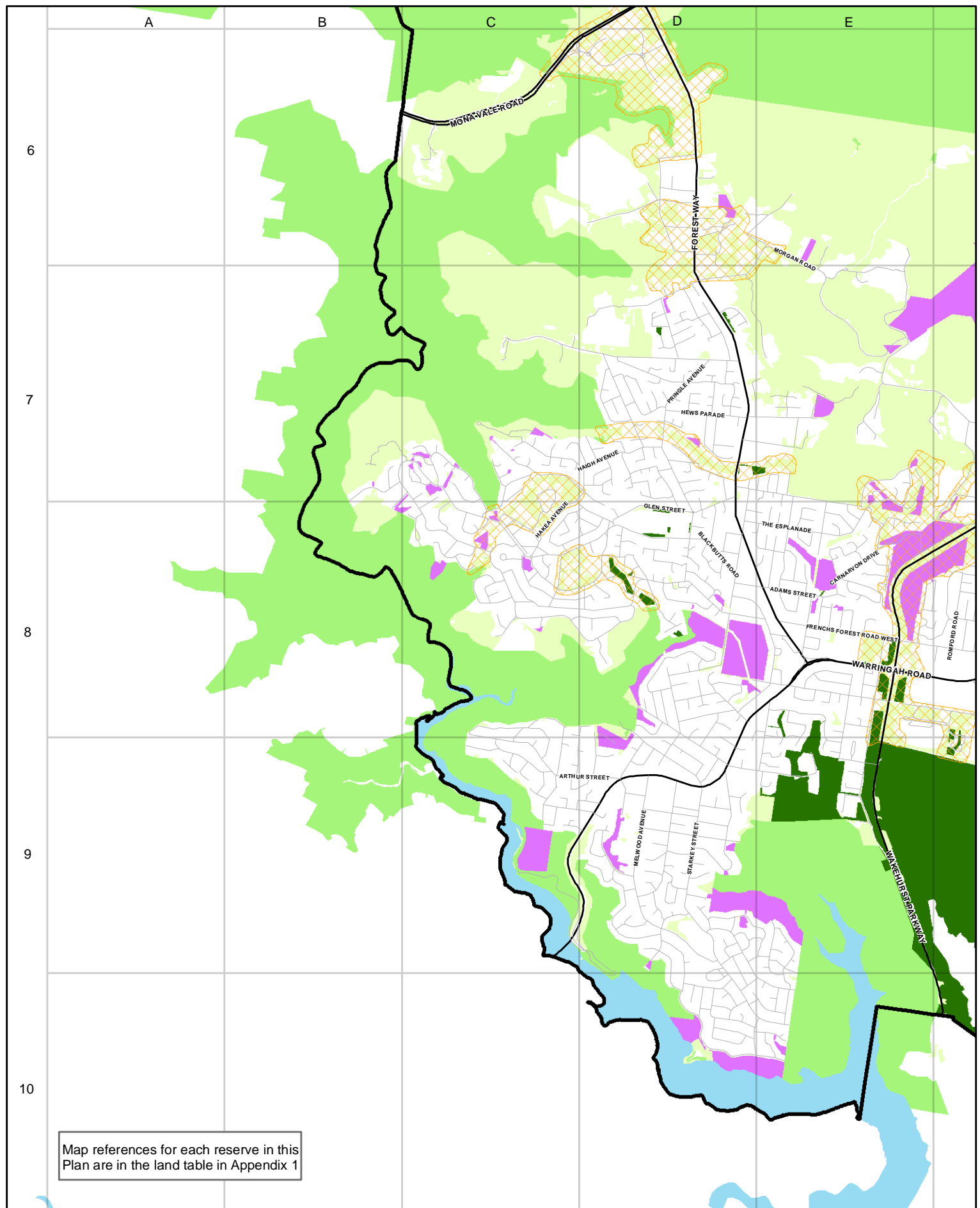
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Scale 1:80 000 (A4)

0 750 1,500 3,000 Meters



Map B: Management of Key Bushland Areas in Warringah

- LGA
- Vegetation Corridor
- Reserves covered by this PoM
- Other Reserves managed by Council
- National Parks and other Reserves
- Other native vegetation

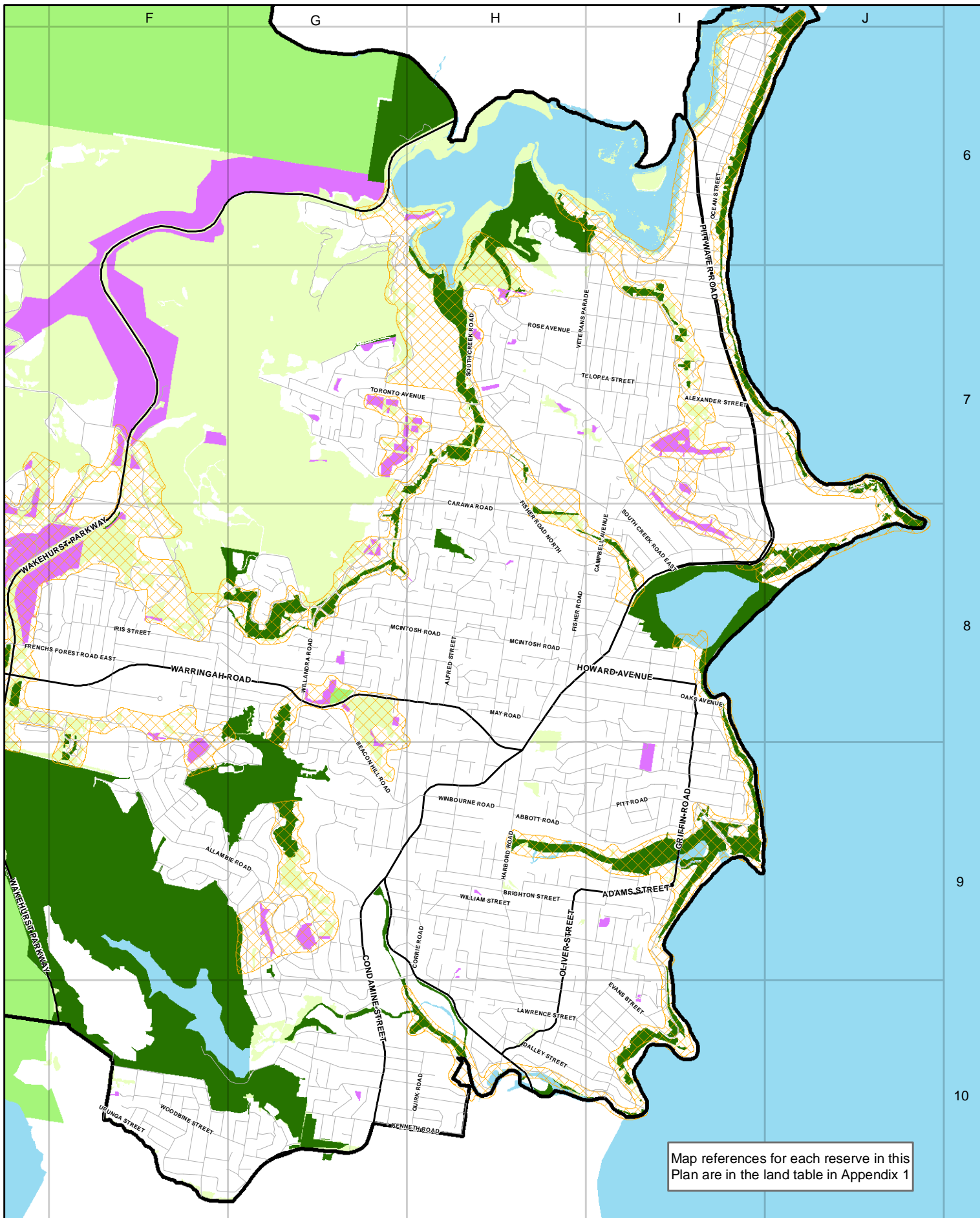
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Map C: Management of Key Bushland Areas in Warringah

-  LGA
-  Vegetation Corridor
-  Reserves covered by this PoM
-  Other Reserves managed by Council
-  National Parks and other Reserves
-  Other native vegetation

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PREPARING THIS PLAN OF MANAGEMENT

3 What legislation is relevant to the development of this plan?

3.1 Local Government Act, 1993

Councils must prepare and adopt plans of management for all community land under the *Local Government Act 1993*. Such a plan must identify:

- The category of the land
- The objectives and performance targets of the plan with respect to the land (strategies)
- The means by which these strategies will be achieved (actions)
- The methods which will be used to assess whether the strategies are being achieved

The plan must also include a description of the condition and use of the land and of any buildings or other improvements on the land, at the date of the adoption of the plan. The purpose for permitted uses and further development of the land or improvement to buildings should be also specified by the plan.

Further information relating to the management of community land is included in Appendix 3.

3.2 Categorisation of land

The *Local Government Act* (1993) requires that all community land be categorised. A category describes the land and has a set of core objectives. All current and future uses of the land must comply with the core objectives. A description of each of these categories and their core objectives are listed in Appendix 3.

This Plan of Management relates to open space categorised as 'Natural Area, Bushland'. Some land parcels in this PoM contain sections of land which would be better managed as 'Park', 'Sportsground' or 'General Community Use'. In order to protect and manage the values and uses of these areas, it is important that the individual portions of land are identified and categorised appropriately. A combination of site visits and analysis of Council's Geographical Information System was conducted to identify the category boundaries. These parcels are referred to as having 'dual categories'. Land with dual categories will be managed through whichever relevant Generic PoMs relate to their categories. Any parcels of land where more than one category is proposed have been mapped and are shown in Appendix 1.

3.3 Crown Lands Act, 1989

Management of Crown land in accordance with the *Crown Lands Act 1989* stresses the conservation of natural resources and their management in an ecologically sustainable manner while providing for appropriate opportunities for public use.

Lands to which the *Crown Lands Act 1989* applies are not subject to the same classification requirements as the *Local Government Act 1993* and appropriate uses are determined by the public purpose nominated for the land. This means that the land must provide a public benefit and all use, development and agreements must be consistent with the public purpose.

To provide consistent management within this Plan of Management, Council has adopted the view that lands owned by the Crown will be treated as though categorised. These lands will be managed in accordance with the core objectives of the identified category. However the 'Public Purpose' of the reserve is the basis for planning and management of all Crown Reserves and all land use must either support or be ancillary to the public purpose.

Further information relating to the management of Crown Land is included in Appendix 3.

3.4 Instruments made under the Environmental Planning and Assessment Act 1979

State Environmental Planning Policy (Infrastructure) 2007 (the "SEPP") generally applies to land in New South Wales and aims to facilitate the effective delivery of infrastructure across the State.

The SEPP relevantly specifies a range of developments that may be carried out by or on behalf of Council without consent on a public reserve under the control of or vested in Council, including outdoor recreational facilities, landscaping, amenity facilities, and environmental management works. If threatened species are present, any proposal on these reserves will still be subject to an environmental assessment under Part 5 of the *Environmental Planning and Assessment Act 1979*.

If there is an inconsistency between the SEPP and any other environmental planning instrument (including Warringah Local Environmental Plan 2000) whether made before or after the commencement of the SEPP, the SEPP would ordinarily prevail to the extent of the inconsistency (though it will not in certain circumstances including those set out in clause 8 of the SEPP).

State Environmental Planning Policy 19: Urban Bushland (SEPP 19) aims to protect and preserve bushland within urban areas including Warringah. It establishes requirements for assessing the impact of management activities or proposed developments on remnant bushland.

4 Values

4.1 Community Views

A number of recent consultation exercises and surveys have been drawn upon to identify the values attached to these reserves. In particular, the results of Warringah's *State of the Environment Survey* (2005) indicate that a high proportion of the community (89%) are concerned 'a great deal' or 'a fair amount' about environment problems. The *Warringah Community Survey* (2007) showed that the environment is one of the three major 'top-of-mind' issues of concern identified for Warringah over the next 5-10 years. More specially, caring for bush areas was mentioned among the top environmental concerns.

As well as drawing on these surveys, consultation with relevant community members and groups was carried out to identify values and any issues associated with these areas. In addition to the consultation surveys above, Council also:

- Researched previous community correspondence and relevant information
- Consulted relevant agencies and government bodies
- Commissioned a detailed bushland and infrastructure survey of each reserve
- Researched relevant Council studies and documentation (see Appendix 4 for details)
- Carried out preliminary consultation with interested members of the public and relevant local community groups (see Appendix 2 for details)

4.2 Community Values

This plan takes a values-based approach to land use planning and management. This approach allows the key values, role and purpose to be identified so that they may be protected and enhanced. Values can simply be described as "what is important about a place" (Department of Land and Water Conservation & Manidis Roberts, 1996).

Community consultation has confirmed that these reserves are considered to be a valuable resource. The primary value of these reserves is the conservation of bushland in an urban environment. Other values of these reserves include: the link they may provide in a local wildlife corridor, passive or low key recreation or access opportunities, catchment protection, biodiversity conservation, protection of natural features, aesthetic and educational values.

4.3 Statement of Significance

Council's bushland reserves are significant because:

- They have important natural values including conservation of **biodiversity**.
- They provide important **habitat** for native plants and animals which would otherwise become locally or regionally extinct, some reserves also contribute to corridors for the movement of migratory and nomadic animals, particularly birds, through the urban area.
- They provide a 'green space' in the built environment, contributing to the landscape quality and **scenic** amenity of urban areas as well as providing mental health benefits.
- They contain **watercourses** which support aquatic biodiversity and which also contribute to improved water quality.
- They enable urban residents to undertake **recreational** pursuits in a bushland setting.
- They provide context and protection for Aboriginal and European cultural **heritage sites**.
- They are important for **scientific** studies, providing a record of the original landscape and vegetation and the changes wrought by urban development.
- They are an important **educational** resource, often the first point of contact with nature for many urban residents and providing nearby schools and other educational institutions with natural areas which can be visited and studied.
- They provide a range of other **ecosystem functions and services**, including carbon cycling and the trapping of nutrients.



Bushland reserves provide habitat for wildlife, such as this Blue-tongue lizard

5 Council's management goals

There is a framework that guides and underpins the way Council manages bushland reserves. It is made up of a range of Council policy documentation, all of which is consistent with relevant legislative requirements. Council's management goals for bushland reserves are set by this framework. Relevant details are as follows:

5.1 Overall Strategic Framework

In 2005 Council worked in partnership with the community to develop a shared vision for Warringah. The *Strategic Community Plan* sets out this vision:

Warringah – A vibrant community, improving our quality of life by living in balance with our special bush and beach environment

To be able to achieve such a vision a series of goals were developed in four main areas. The following goals are relevant to the urban bushland reserves covered by this Plan and provide direction for the Plan:

- **Living Environment Goal 1.** To maintain the diversity of natural environments at their current levels or better.
- **Living Spaces Goal 2** – To provide recreational access to natural areas while ensuring the sustainability of the natural environment.

In achieving these goals, Council is bound by state legislation and guided by other Council strategies and plans which set out a range of aims and requirements for bushland management. In satisfying these, Council aims for excellence in the management of our bushland reserves, in line with current best practice methods.

5.2 Other Strategies, Plans and Legislation guiding the Management of Bushland Reserves

A number of Council policies and strategies guide the management of bushland reserves in Warringah. As well, Council's management of bushland reserves must satisfy the requirements of a range of state legislation. Details of these are outlined below, to show the underlying aims and goals which underpin Council's management of bushland reserves.

Warringah Bushland Policy

Bushland in Warringah is managed according to Council's **Bushland Policy**. The Policy sets out Council's goals for bushland management and Council's approach to managing bushland areas:

Council's Goals for Bushland Management Programs are to:

- Re-establish fully functioning, self sustaining native ecosystems by providing the optimal ecological conditions for this to occur;
- Protect, conserve and restore fauna habitat and wildlife corridors;
- Prioritise restoration of bushland based on conservation significance of vegetation communities and populations of plants and animals as identified in the latest version of the Natural Area Survey (Smith and Smith 2005);
- Protect residential properties on the bushland reserve boundaries by developing and maintaining access for fire fighting agencies;
- Maximise the effectiveness of pest animal and noxious weed control programs on public and private land by coordinating with other land management agencies, adjacent local government areas and residents;

- Provide sustainable recreational access to bushland reserves with a focus on environmental interpretation of features with special ecological and cultural significance where appropriate;
- Integrate bushland restoration goals with natural area management projects undertaken by other sections of Council;
- Foster community knowledge of Warringah's special natural environment, the threats to its survival, and the actions and behaviour patterns needed for a sustainable environment by integrating environment education with every aspect of Council's bushland management program.

Council's Approach to Managing Bushland Areas

- In general, bushland restoration work on public land will only be undertaken by professional contractors and professionally supervised volunteer groups. Council's safe work practices will not permit volunteers to work alone in isolated areas.
- Council will only allow work to take place on public bushland if it is satisfied that there is adequate resourcing to achieve a sustainable long-term improvement in bushland condition. This may require resourcing from Council to underwrite the cessation of work commenced by volunteers.
- Restoration projects will aim to restore bushland to a condition that is as self-sustaining as possible. It is acknowledged that many areas of restored bushland will always require some level of maintenance due to irreversible changes in environmental conditions.
- Bushland restoration programs will give consideration to addressing the causes of bushland degradation as well as the symptoms. The impacts of stormwater runoff, absence of an ecologically suitable fire regime and damage from adjacent residential development are common causes of bushland degradation in Warringah.
- Weed control works will be undertaken in a staged process so that short-term loss of fauna habitat within the immediate locality, in particular structural cover and shelter is minimised. Weed control projects within wildlife corridors will not commence until a work plan has been developed to prevent a significant short term loss of fauna habitat. Where suitable, shelter and cover for fauna may be constructed at the sites of restoration projects.
- Revegetation will only be considered if the likelihood of natural regeneration from the endemic seedbank and vegetative reproduction on site is low. Revegetation should use local provenance species. Revegetation projects must allocate a satisfactory level of resourcing to weed control and supplementary planting works following completion of the main planting phase. Council recognises that revegetation sites will not become self-sustaining ecosystems and accordingly a level of maintenance will always be required.

Warringah Local Habitat Strategy

Council's **Local Habitat Strategy** (2007) also provides guidance on the management of bushland in Warringah. In relation to bushland reserves, it contains actions Council can take, in partnership with the community, to preserve, protect, enhance and restore our habitat areas. Chief among these is to identify and protect remnant vegetation in public open space, with priority given to rare and threatened habitat and crucial linkages.

State Environmental Planning Policy 19 (SEPP 19)

Under SEPP 19 Council has responsibility to protect and preserve bushland within urban areas, as part of the natural heritage or for recreational, educational and scientific purposes. In particular, attention must be paid to matters such as reducing hazard from bushfire, preventing degradation of bushland (including degradation through alteration of drainage patterns, rubbish dumping, infestation with weeds and exotic plants or the intrusion of vehicles) and restoring and regenerating degraded areas of bushland.

Threatened Species Conservation Act 1995 (TSC Act)

The TSC Act aims to conserve biodiversity and protect threatened species, populations, communities and their habitats at the landscape scale. Actions have been developed under the Act to encourage recovery of threatened species and communities and to reduce the threats to bushland throughout NSW. Key Threatening Processes are also identified under the TSC Act. Council has incorporated all relevant actions and threats into managing Warringah's bushland reserves.

Local Government Act 1993 (LG Act)

Council's bushland reserves are generally categorised as Natural Area / Bushland under the LG Act. Council's management must satisfy the objectives for the management of community land categorised as Natural Area / Bushland, as set out in the Act. The actions recommended in this plan aim to satisfy these objectives. These objectives include:

- To conserve biodiversity and maintain ecosystem function in respect of the land, or the feature or habitat in respect of which the land is categorised as a natural area
- To maintain the land, or that feature or habitat, in its natural state and setting
- To provide for the restoration and regeneration of the land
- To provide for community use of and access to the land in such a manner as will minimise and mitigate any disturbance caused by human intrusion
- To assist in and facilitate the implementation of any provisions restricting the use and management of the land that are set out in recovery plan or threat abatement plan prepared under the Threatened Species Conservation Act 1995 or the Fisheries Management Act 1994
- To ensure that on-going ecological viability of the land by protecting the ecological biodiversity and habitat values of the land, the flora and fauna (including invertebrates, fungi and micro-organisms) of the land and other ecological values of the land
- To protect the aesthetic, heritage, recreational, educational and scientific values of the land
- To promote the management of the land in a manner that protects and enhances the values and quality of the land and facilitates public enjoyment of the land, and to implement measures directed to minimising or mitigating any disturbance caused by human intrusion
- To restore degraded bushland
- To protect existing landforms such as natural drainage lines, watercourses and foreshores
- To retain bushland in parcels of a size and configuration that will enable the existing plant and animal communities to survive in the long term
- To protect bushland as a natural stabiliser of the soil surface.

DESCRIPTION OF THE RESERVES

6 Spatial Characteristics

6.1 Location and Size

The reserves covered by this Plan of Management are located throughout Warringah, as shown on maps A to E. Because of their geographic spread throughout Warringah, they represent a wide range of geologies, land forms and vegetation communities. A large reserve, such as the Middle Creek Reserves, forms a significant habitat area in its own right. Other reserves which may be smaller but are located in relative proximity to one another (as is the case in the suburb of Davidson) can be important as they may assist in extending the range of certain species. There are other reserves, small and relatively isolated that are important remnants of a particular vegetation community. For example, Woolrych Reserve contains Yellow Top Mallee Ash.

6.2 Corridor Function

Some reserves are extremely important because of their location within a wildlife corridor (see maps A to E). These reserves facilitate movement of flora and fauna between areas of core bushland. Nandi and Wakehurst Parkway Reserves fall into this category. The Middle Creek Reserves, on the other hand, act as a corridor within a larger area of bushland because of the creek running through them. Creeks are particularly important for habitat and biodiversity conservation because of the high diversity of micro-environments present.



Yellow-Top Ash Mallee at Davidson

7 Natural Features

7.1 Vegetation Communities

There are a diverse range of ecosystems found in the bushland reserves covered by this plan. This is due to the rugged landscape of the area and the interfaces between aquatic and terrestrial environments. Of the 37 native vegetation communities found in Warringah outside the National Parks, 13 are found within these reserves. The table below shows which vegetation communities are represented by these reserves.

Vegetation Community	Reserves		Status
Bangalay Slopes Forest	Anzac Avenue Reserve	Lantana Avenue Reserve	W
Swamp Oak Forest	Davidson Park Rec'n Area	Middle Creek Reserve (1)	N
Coachwood Rainforest	Consul Road Reserve Middle Creek Reserve (2)	Parkes Rd. Reserve No 1	W
Peppermint-Angophora Forest	Belrose Reservoir Consul Road Reserve Corymbia Crt Reserve Cromer Rd Reserve Davidson Park Rec'n Area Fitzpatrick Avenue Reserve Gilles Reserve Goroka Park Grover Ave Reserve Gumbooya Reserve Hyde Avenue Reserve Jindabyne Reserve Kentwell Rd Reserve Killarney Drive Reserve Lady Davidson Reserve Lae Reserve Lantana Avenue Reserve Londonderry Drive Reserve	Maybrook Avenue Bushland Reserve Middle Creek Reserve (1) Middle Creek Reserve (2) Moonarie PI Reserve Morgan Rd Reserve Nandi Reserve Northcliffe Avenue Reserve Orara Reserve Oxford Falls Rd Reserve Peppercorn Park Rabbett Reserve Springvale Reserve Tipperary Avenue Reserve Wakehurst Pwy Res (No2) Willow Way Reserve Windermere Park Winslea Place Reserve Yanco Close Reserve no 1	L
Heart-leaved Stringybark Mallee	Woolrych Crescent Reserve		A
Sandstone Heath	Belrose Reservoir Consul Road Reserve Corella Street Reserve Corymbia Crt Reserve Cromer Rd Reserve Fitzpatrick Avenue Reserve Goroka Park Gumbooya Reserve Haigh Avenue Reserve Londonderry Drive Reserve Maybrook Ave Reserve Middle Creek Reserve (1)	Middle Creek Reserve (2) Morgan Rd Reserve (no. 2) Nandi Reserve Peppercorn Park Perentie Reserve Suffolk Ave Reserve Tipperary Avenue Reserve Wakehurst Pwy Res (No2) Wayne Schimanski Reserve Wellman Reserve Willandra Reserve Wingala Reserve	L
Yellow-top Ash Mallee	Mathews St Reserve No 1 Middle Creek Reserve (2)	Woolrych Crescent Reserve	R
Sandstone Swamp	Corymbia Crt Reserve Fitzpatrick Avenue Reserve Middle Creek Reserve (1)	Middle Creek Reserve (2) Nandi Reserve Wellman Reserve	W
Angophora Woodland	Anzac Avenue Reserve Grover Ave Reserve Lincoln Avenue Reserve Middle Creek Reserve (2)	Moonarie PI Reserve Parkes Rd. Reserve no 1 Pinduro Place Reserve Washington Ave Reserve	L

Vegetation Community	Reserves		Status
Bloodwood Scribbly Gum Woodland	Allworth Dr Reserve Ashworth Avenue Reserve Belrose Reservoir Corymbia Crt Reserve Cromer Rd Reserve Davidson Park Rec'n Area Fitzpatrick Avenue Reserve Forestville Playing Fields Goroka Park Government Rd Reserve (1) Government Rd Reserve (2) Grover Ave Reserve Gumbooya Reserve Gwarra Reserve Haigh Avenue Reserve Harper Place Jindabyne Reserve Killarney Drive Reserve Lady Davidson Reserve Londonderry Drive Reserve Macfarlane Reserve Maybrook Ave Reserve Middle Creek Reserve (1)	Middle Creek Reserve (2) Moonarie PI Reserve Morgan Rd Reserve Morgan Rd Reserve (no. 2) Nandi Reserve Orara Reserve Oxford Falls Peace Park Peppercorn Park Perentie Reserve Spence Place Reserve Suffolk Ave Reserve Tipperary Avenue Reserve Vincent Place Reserve (no 1) Vincent Place Reserve (no 2) Wakehurst Pwy Res (No2) Washington Ave Reserve Wayne Schimanski Reserve Wellman Reserve Willandra Rd Reserve Willandra Reserve Wingala Reserve Yindela Reserve	L
Swamp Mahogany Forest	Anzac Avenue Reserve	Lantana Avenue Reserve	N
Bangalay Alluvial Forest	Lantana Avenue Reserve Middle Creek Reserve (1)	Middle Creek Reserve (2)	N
Water Fern Swamp	Middle Creek Reserve (1)	Middle Creek Reserve (2)	N
Palm Woodland	Middle Creek Reserve (1)	Middle Creek Reserve (2)	N

Status: A = threatened in Australia, N = threatened in NSW, R = rare in Australia, W = threatened in Warringah, L = local habitat

Further information on these vegetation communities is contained in the [Warringah Natural Area Survey – Vegetation Communities and Plant Species \(2005\)](#).

Some reserves support endangered ecological communities and/or threatened plants and animals listed under State and Federal legislation, Rare or Threatened Australian Plants (ROTAP), locally threatened plants and locally threatened vegetation communities (listed in Warringah Council NAS 2005). A number of reserves provide habitat for threatened species, as shown in the table below:

Threatened species	Common Name	Reserves
<i>Acacia terminalis ssp terminalis</i>		Gumbooya Reserve, Allambie, Ronald and Quarrie Reserves, Freshwater
<i>Eucalyptus camfieldii</i>	Heart-leaved Stringybark	Woolrych Reserve, Davidson
<i>Tetratheca glandulosa</i>		Wakehurst Parkway Reserve No 2, Frenchs Forest

7.2 Habitat for fauna

These reserves provide important habitat for a wide range of fauna. Outside the national parks, 300 species have been recorded in Warringah in habitats away from the coast, and a further 40 are restricted to coastline and estuarine habitats. About a quarter of Warringah's fauna are considered threatened at national, state, regional or local level.

In particular, records exist for the endangered Southern Brown Bandicoot (*Isodon obesulus* subsp *obesulus*) within the Oxford Falls and Red Hill areas, adjacent to several of the reserves in this

plan. These reserves may provide habitat requirements for the Southern Brown Bandicoot. Other reserves, including Lincoln Avenue Reserve, are potential habitat for the Glossy Black Cockatoo (*Calyptorhynchus lathami*).

Further information on Warringah's fauna is contained in [Warringah Natural Area Survey – Fauna Survey \(2005\)](#)

7.3 Other Features

A range of **landform features** are represented in these reserves, from waterways and creeks (Middle Creek Reserves, Davidson Park Recreation Area, Anzac Avenue Reserve) to cliffs and caves (Londonderry and Tipperary Reserves, Killarney Heights, Suffolk and Lincoln Reserves, Collaroy).

Gumbooya Reserve has Aboriginal rock engravings, which are currently managed with barriers and interpretive signage. Given the number of reserves with broad open rock ledges and overhangs, it is highly likely there are other examples of Aboriginal rock engravings or other **Aboriginal heritage** sites in these reserves, as yet unrecorded. As well, these reserves contain a number of **European heritage** sites associated with early settlement in the area.

The remnant vegetation provides protection for aboriginal and European heritage sites. In-situ management ensures the cultural value, integrity and context of these important heritage sites is maintained.

8 Current Use

A number of the reserves are used for **recreational walking or access**, from small reserves with 'desire line' access tracks through them (such as Corella and Pinduro Reserves) to larger reserves with informal walking tracks, (such as Londonderry Drive Reserve) often linking with tracks through other bushland, including National Parks.

The reserves are also an important **educational and scientific resource**, with a significant number close to schools (including Anzac Avenue and Orara Reserve) which present opportunities for educational use of the reserve.

Some reserves provide expansive **views**, either from the reserve (eg Gumbooya, Lincoln, Wingala and Corymbia Circuit Reserves) or looking onto the reserve from surrounding areas (eg Middle Creek Reserves). Other reserves provide a secluded bushland environment (such as Yanco Close and Jindabyne Reserve) for local residents.

MANAGEMENT OF THE RESERVES

9 Managing Bushland Reserves

The management of Warringah's bushland reserves will be prioritised according to a combination of factors including: conservation status; location with respect to surrounding bushland, habitat corridors or position within the catchment; vegetation condition; size of reserve; presence of special features of heritage, scenic or natural value, etc.

9.1 Reserve Action Plans (RAPs)

As stated in section 5, the bushland reserves in this Plan of Management will be managed in accordance with the framework of strategic documentation and legislative requirements that forms the basis of Warringah Council's approach to bushland management. Within the context of climate change, this means that the reserves will be managed to be as resilient as possible so they can exist sustainably in the face of changing pressures caused by climate change. Maintaining resilience in each reserve will be achieved through the use of Reserve Action Plans (RAPs). RAPs will be prepared for each reserve or group of reserves. They will be consistent with the aims and objectives of this Plan and will provide specific bushland management strategies to be applied to individual bushland areas. In general, RAPs will contain an inventory of the reserve, including an

outline of specific management issues and threats to native biodiversity. Based on this inventory and analysis, they will also contain a prioritised schedule and costing of specific site works. Where possible, all works and management activities will be integrated to maximise their effectiveness.

RAPs will be the key to managing Warringah's bushland reserves. They are described in more detail in Appendix 5.

9.2 General Bushland Management Issues

Certain processes and activities significantly threaten the health and viability of all bushland areas covered by this Plan of Management. They include:

- High frequency fire
- Infection of native plants by the fungus *Phytophthora cinnamomi*
- Removal of dead wood, dead trees and logs
- Habitat loss and degradation
- Habitat fragmentation
- Pathogens and disease
- Altered soil nutrient levels
- Altered hydrological and fire regimes
- Invasion by exotic plants
- Recreational use – bicycles, motorbikes, excessive pedestrian use and horse-riding
- Over collection of native seed resource
- Physical damage from illegal access, dumping, tree removal, encroachments, illegal clearing for fire management or view enhancement, etc.

Addressing these threatening processes and activities will form the basis of Council's approach to managing these bushland reserves. In addressing the points above, Council's approach to bushland management will incorporate:

- Natural Area Restoration
- Sustainable Recreational Access
- Community Education and Involvement
- Heritage Management
- Fire Management
- Pest Species (plants and animals) Management
- Leases and Licences
- Biodiversity Surveys, Monitoring and Inventories



Community involvement in managing bushland reserves is encouraged

9.3 Issues specific to individual Reserves

The overall approach to bushland management is the same in each reserve, however certain reserves have specific needs that deserve special mention. These are outlined below.

Bangaroo Reserve, Balgowlah (map 3) –The reserve in its current form was created as a result of a Council decision at its meeting on 11th April 2006 to reclassify Council land and create a number of allotments. The riparian buffer strip was retained as public open space. It is to be managed for its natural bushland values. Part of Bangaroo Reserve is already classified as community land and, following the Council decision, the remainder of the reserve is in the process of being classified as community land. The entire reserve is included in this Plan of Management to show Council's intent to manage it holistically for natural values.

Hews Parade Reserve, Belrose – This reserve is adjacent to the Belrose Road Corridor development, where a habitat corridor has been incorporated into the subdivision design. The bushland in this reserve and the bushland in the habitat corridor will be managed in coordination with each other, as they form a continuous belt of important habitat.

Maybrook Avenue Bushland Reserve, Jersey Place, Cromer Heights – This reserve is adjacent to a retirement village and is the subject of a Court decision (Maybrook Manor Pty Limited v Warringah Council [2008] NSWLEC 1160) which requires an easement burdening the reserve for the purpose of asset protection works that benefit the retirement village. Accordingly, the reserve has been categorised as General Community Use where the works are to be undertaken and Natural Area / Bushland over the remainder of the reserve(see map 17 in Appendix 1). The nature of the works is limited to that permitted by Development Consent DA 2005/0321. Essentially the asset protection works involve maintaining cleared areas and specified plantings of certain species.

9.4 Issues arising from the NSW Threatened Species Conservation Act 1995 and Commonwealth Environmental Planning and Biodiversity Conservation Act 1999

The following reserves contain threatened species or endangered ecological communities. As such, a number of special actions have been identified for these reserves, designed to protect the threatened entities and meet Council's obligations under the NSW Threatened Species Conservation (TSC) Act and Commonwealth Environmental Planning and Biodiversity Conservation (EPBC) Act.

Gumbooya Reserve, Allambie, Ronald and Quarrie Reserves, Freshwater –these reserves support the threatened species *Acacia terminalis ssp terminalis*. There are a number of special actions for these reserves, designed to protect this species and meet Council's obligations under the TSC Act and EPBC Act. The RAPs prepared for these reserves must address site specific processes that threaten *Acacia terminalis ssp terminalis*. Where appropriate, they must also outline access restrictions to prevent trampling and dumping on sites; targeted bush regeneration works where required and appropriate fire regime practices. As well, Council must ensure that planning and maintenance staff are aware of the species and that processes are in place to avoid impacting upon it.

Woolrych Reserve, Davidson – this reserve supports the threatened species *Eucalyptus camfieldii*. There are a number of special actions for this reserve, designed to protect this species and meet Council's obligations under the TSC Act and EPBC Act. Council must survey recorded sites to assess threats and determine appropriate recovery strategies, including priority sites for protection and management. These will be detailed in the RAP for this reserve. In particular, the RAP will identify areas for priority weed control, identify where access should be controlled to protect plants and outline appropriate fire regimes and suitable methods for this species. In addition, Council will develop and implement a population health and threat abatement management monitoring program in consultation with DECCW.

Davidson Park Recreation Area, Forestville – the lower margins of this reserve support Swamp Oak Floodplain Forest, an endangered ecological community. There are a number of special actions for this reserve, designed to protect this community and meet Council's obligations under the TSC Act. Council will conduct targeted field surveys and ground truthing to clarify the condition of the remnant in this reserve. Any specific threats will be identified and prioritised and appropriate on-ground site management strategies will be implemented where required.

Middle Creek Reserves 1 and 2, Middle Creek, Anzac Avenue Reserve, Collaroy, Lantana Avenue Reserve, Wheeler Heights – parts of these reserves supports Swamp Sclerophyll Forest, an endangered ecological community. There are a number of special actions for these reserves, designed to protect this community and meet Council's obligations under the TSC Act. Council will conduct targeted field surveys and ground truthing to clarify the condition of the remnant in these reserves. Any specific threats will be identified and prioritised and appropriate on-ground site management strategies will be implemented where required. In particular, Council will undertake weed control for any bitou bush or boneseed in priority sites in accordance with the approved Threat Abatement Plan and associated Priority Action Statement (PAS) actions.

Wakehurst Parkway Reserve No 2, Frenchs Forest – part of this reserve supports the threatened species *Tetratheca glandulosa*. There are a number of special actions for this reserve, designed to protect this species and meet Council's obligations under the TSC Act. Council must identify and map priority sites for protection and management. These will be detailed in the RAPs for this reserve. In particular, the RAP will identify areas for priority weed control, identify where access should be controlled to protect plants, identify appropriate fire management guidelines, and outline threat management works including stormwater management works if appropriate. In addition, Council will develop and implement a population health and threat abatement management monitoring program in consultation with DECCW.

Maybrook Reserve, top of Maybrook Ave, Cromer Heights, Morgan Road Reserve, Oxford Falls, Jindabyne and Corymbia Circuit Reserves, Frenchs Forest – these reserves are in the vicinity of areas where evidence of *Isodon obesulus* ssp *obesulus* (Southern Brown Bandicoot) has been found. These reserves may provide habitat for this endangered species. Management actions for these reserves will need to incorporate the objectives in the DECCW 2006 Recovery Plan for Southern Brown Bandicoot.

10 What are Council's intentions for the Future Use of the Land?

Council's primary management intention for the reserves in this Plan of Management is to conserve the bushland while providing for recreation and education opportunities which do not compromise the ecological integrity of the reserves.

10.1 Future Use, Development and Activities for the Land

This Plan outlines activities that comply with the core objectives of the categorisation and that are permissible under WLEP 2000 where the zoning and development controls on these lands reflects Council's management aims for bushland reserves. As Council considers necessary, development allowable under this Plan of Management may include the following:

- Bushland and wetland regeneration and restoration including weed control and soil seedbank translocation;
- Landscaping and reclamation of surplus grassed areas for bush regeneration, restoration or planting of wildlife corridors;
- Tree planting, removal and maintenance;
- Maintenance, closure and upgrade of walking tracks;
- Minor erosion control and soil stabilisation works;
- Feral animal control programs;
- Signage including interpretive signage;
- Provision of facilities ancillary to existing uses including seating, picnic and barbecue facilities, shelters, drainage, irrigation, fencing, and pathways;
- Asset maintenance such as renewal / replacement of assets;
- Works and studies that promote the scientific or educational value of bushland.

10.2 Authorised Development

In accordance with the *Local Government Act, 1993*, Council must expressly authorise any proposed buildings and improvements on the land. This authorisation within a plan of Management gives 'in principle' support for an activity to proceed, if required, to the development assessment stage. This plan **does not grant development consent under the *Environmental Planning and Assessment Act***. Under the *Local Government Act*, this plan authorises the following developments:

- Rationalisation of tracks and access as appropriate within reserves – this includes track closure, track realignment/remediation and track construction.
- Telecommunication infrastructure.

11 Management Actions

11.1 Implementation

Actions in this Plan of Management will be assessed on a yearly basis for inclusion in Council's *Strategic Community Plan*.

It should be noted that the implementation of these management actions depends on available Council resources and funding. As such, projects and actions identified in this Plan will be assessed against the other priorities of Council when the *Strategic Community Plan* is being prepared each year. Commitment to implementing particular actions is given once these actions appear in Council's *Strategic Community Plan* and in related annual planning documents (such as the Capital Expenditure Program). As priorities change, actions may need to be altered, given another priority or even rejected, through a formal review process.

The fact that an action is in this Plan of Management is not a guarantee that it will be implemented within the life of this plan. However the priority system and the annual review process are designed to make sure that the actions are continually assessed and considered.

Where more than one service area within Council is listed in the Responsibility column, the service area listed first is the one with the main responsibility for carrying out the action.

What do the priorities mean?

The actions have been given priorities as the Plan of Management contains a very large list of actions and Council does not have the resources to undertake all of them immediately.

- **High (H)** - Actions with high priority are to be considered in Council's funding processes annually until they can be resourced, then included in the Management Plan and relevant unit's 'Business Plan' each year until completed.
- **Medium (M)** - These actions are to be reviewed by the responsible Council Unit each year as to their current importance. This will be based on completion of previous actions and any new directions. When relevant these actions will be considered for capital expenditure and/or placement in the relevant plans. They should be implemented within the life of this Plan.
- **Low (L)** – These actions are important and are necessary for the overall management and improvement of these Reserves. However they may not be allocated appropriate resources until they are formally reviewed or until resources are available for such actions. Relevant Council Units are to consider including these actions in their Business Plans each year.

11.2 Action Tables

The Local Government Act 1993 describes a set of “core objectives” for each category and it is a requirement under the Act that the Plan of Management describes how each of the core objectives will be achieved. The following maps and actions tables have been developed to address the objectives of the Natural Area – Bushland category. The tables also indicate how Council will be able to assess whether the objectives have been met.

Note that the actions only apply as appropriate to each reserve – for example actions relating to watercourses or stormwater will only apply in reserves containing these features.

Community land categorised as Park, Sportsground or General Community Use in this plan will be managed in accordance with the principles in the Generic Parks, Generic Sportsground or General Community Use Plans of Management respectively.

Action Tables Abbreviations	
<i>Council Services</i>	
AI	Asset Information Team
Comp	Compliance Services
DA	Development Assessments
Legal	Legal Team
NEU	Natural Environment Unit
PCD	Property and Commercial Development
PDS	Planning and Development Services
PRF	Parks, Reserves and Foreshores
S&P	Strategy & Policy
SP	Strategic Planning
<i>Other Agencies</i>	
DECCW	NSW State Department of Environment, Climate Change & Water
RFS	NSW Rural Fire Service
<i>Other Abbreviations</i>	
DFEC	Duffys Forest Endangered Ecological Community
TSC Act	<i>Threatened Species Conservation Act 1995</i>

Value: Biodiversity

Objective: Manage the Reserves' scenic, environmental, and recreational values to promote ecological sustainable management practices

Means of Assessment: Regular assessment of bushland condition against baseline

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Reliable monitoring of management actions and reserve condition	1. Establish and document baseline bushland conditions and monitoring points to measure management effectiveness, based on reserve priority.	High	\$3000 per reserve + staff time	NEU
	2. Link monitoring to any contracts and management actions (including management of fire, pest species, urban runoff, bush regeneration, etc) by way of appropriate briefs, specifications and project plans.	High	Staff time	NEU
	3. Ensure the Natural Area Survey is regularly updated to provide best available information and practices for reserve planning and management.	High	Staff time	NEU
	4. Ensure all threatened and rare flora and fauna species are regularly recorded on the Warringah Council GIS and reported to DECCW for inclusion on the Atlas of NSW Wildlife.	High	Staff time	NEU
	5. Conduct sampling for <i>Phytophthora cinnamomi</i> when necessary in accordance with sampling guidelines and procedures provided by DECCW.	High	Staff time	NEU
Integrated planning to ensure no conflict of goals and outcomes	6. Integrate conservation planning with other management planning and maintenance programs undertaken by Council and where possible with other land management agencies and utilities (for example when track maintenance is planned by utility providers or where reserves adjoin National Parks or other managed bushland).	High	Staff time	NEU, PRF
	6a. At Hews Parade Reserve , conservation planning is to be integrated with management planning and maintenance programs undertaken in association with the neighbouring Belrose Road Corridor development.	High	Staff time	NEU
Management consistent with the values of the reserve	7. Approach the Department of Lands to authorise dual reservation of all Crown reserves in this Plan of Management for the additional purpose of Environmental Protection.	Medium	Staff time	S&P
	8. In areas supporting an endangered ecological community or threatened species, allow only activities consistent with any draft or adopted Recovery Plan or Priority Action Statement.	High	Staff time	NEU, PRF
	8a. In reserves supporting <i>Acacia terminalis</i> ssp <i>terminalis</i> (including Gumbooya, Ronald Avenue and Quarrie Reserves): The RAPs prepared for these reserves must address site specific processes that threaten <i>Acacia terminalis</i> ssp <i>terminalis</i> . Where appropriate, they must also outline access restrictions to prevent trampling and dumping on sites; targeted bush regeneration works where required and appropriate fire regime practices. As well,	High	Staff time	NEU

	planning and maintenance staff must be made aware of the species and that processes are in place to avoid impacting upon it.			
8b.	In reserves supporting <i>Eucalyptus camfieldii</i> (including Woolrych Reserve): Council must survey recorded sites to assess threats and determine appropriate recovery strategies, including priority sites for protection and management. These will be detailed in the RAP for this reserve. In particular, the RAP will identify areas for priority weed control, identify where access should be controlled to protect plants and outline appropriate fire regimes and suitable methods for this species. In addition, Council will develop and implement a population health and threat abatement management monitoring program in consultation with DECCW.	High	Staff time	NEU
8c.	In reserves supporting <i>Tetratheca glandulosa</i> (including Wakehurst Parkway Reserve No 2): The RAP will identify areas for priority weed control, identify where access should be controlled to protect plants, identify appropriate fire management guidelines, and outline threat management works including stormwater management works if appropriate. In addition, Council will develop and implement a population health and threat abatement management monitoring program in consultation with DECCW.	High	Staff time	NEU
8d.	In reserves supporting Swamp Oak Floodplain Forest, (including Davidson Park Recreation Area): Council will conduct targeted field surveys and ground truthing to clarify the condition of the remnant in this reserve. Any specific threats will be identified and prioritised and appropriate on-ground site management strategies will be implemented where required.	High	Staff time	NEU
8e.	In reserves supporting Swamp Sclerophyll Forest, (including Middle Creek Reserves 1 and 2, Anzac Avenue Reserve, Lantana Avenue Reserve): Council will conduct targeted field surveys and ground truthing to clarify the condition of the remnant in these reserves. Any specific threats will be identified and prioritised and appropriate on-ground site management strategies will be implemented where required. In particular, Council will undertake weed control for any bitou bush or boneseed in priority sites in accordance with the approved Threat Abatement Plan and associated PAS actions.	High	Staff time	NEU
8f.	In reserves supporting <i>Isodon obesulus</i> ssp <i>obesulus</i> (Southern Brown Bandicoot) habitat,: Council will manage Southern Brown Bandicoot habitat in accordance with the 2006 DECCW Southern Brown Bandicoot Recovery Plan.	High	Staff time	NEU

Value: Biodiversity
Objective: Maintain the biodiversity of the land
Means of Assessment: Regular fauna surveys / observations
 Regular audit of feral animal activity
 Pre and post fire monitoring
 Regular assessment of bushland data against baseline

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Recover original ecological processes	9. Prepare a Reserve Action Plan for each reserve or group of reserves, based on reserve priority, highlighting priorities and annual costings. The plan should be consistent with the Bushland Policy, Local Habitat Strategy and Natural Area Survey and take into account baseline condition and issues raised during public consultation. These plans should augment existing programs developed in accordance with Fire Regime Management Plans and Urban Bushland Boundary Program.	Medium to high based on reserve priority	Average \$3000 per reserve	NEU
	10. Prepare and implement a bush regeneration contract based on priorities identified in the Reserve Action Plan.	High	Based on findings of bush regeneration plan	NEU
Management of noxious and environmental weeds in reserve	11. On-going implementation of the Weed Management Strategy for the Sydney Metropolitan Catchment Management Authority 2007-2011.	High	Staff time/project costs	NEU
	12. Co-ordinate noxious weed education and control programs in private land prioritising land adjacent to high priority bushland areas and bush regeneration project sites.	High	Staff time	NEU
	13. Continuation of Urban Bushland Boundary weed control program in each reserve as appropriate.	High	Dependent on the condition of bushland within the reserves and outcome of the individual Reserve Action Plans	NEU
Management of pest animal species	14. Undertake feral animal control as required.	High /On-going	Staff Time	NEU
Management of native fauna	15. Undertake fauna survey, produce fauna list and develop appropriate conservation actions for each reserve in wildlife corridor or other strategic fauna location. Update as required.	High	\$5,000 - \$15,000 per survey, depending on size	NEU

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Management of Stormwater	16. Maintain integrity of existing stormwater infrastructure and install new infrastructure when appropriate to minimise pollutant impact on bushland.	Ongoing	Staff time	NEU
	17. Respond to any illegal connections to stormwater.	Low	Staff time	Comp
Management of appropriate fire regimes	18. Coordinate ecological burns with the Rural Fire Service and NSW Fire Brigade to maintain appropriate fire regime for all vegetation communities and threatened species within each reserve, following appropriate assessment of environmental impact including impact on heritage.	On-going	Staff time	NEU, RFS

Value: Biological corridors and linkages

Objective: Bushland in parcels of a size and configuration (individually and collectively) that will enable the existing plant and animal communities to survive in the long term

Means of Assessment: Regular update of Council's Natural Area Survey
Regular assessment of bushland condition against baseline
Regular fauna survey/observations

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Promote opportunities to acquire, or sympathetic management of, adjoining lands	19. Minimise the adverse impact of activities and development on land adjacent to the reserves through appropriate development conditions, planning controls and guidelines.	As required	Staff time	NEU, DA, SP
	20. Identify opportunities to work with adjacent landholders (such as the development of partnerships or incentives, provision of education on appropriate landscaping plants, etc) to conserve buffer zones and significant habitat on adjacent land.	High	Staff time	NEU
	21. Continue negotiations to have Department of Planning land transferred to Council ownership as community land, to be categorised as per this plan. This includes Northcliffe Reserve, parcels in the Cromer Bushland Reserves and Nandi Reserve. In addition, request landholders to give Council management control and resources for bushland management purposes over the following parcels of land: Orara Reserve, Allambie Heights – Department of Education Oxford Falls Road Quarry – Department of Land	Medium	Staff time	PCD, NEU
	22. Identify any road reserves that are unwanted as roads and have value as bushland, including Northcliffe Ave, Beacon Hill and Fitzpatrick Ave West, Salerno Ave and Rabbett St, Frenchs Forest. Initiate proceedings to have these lands classified as community land and rezoned as Public Open Space. Add these lands to the bushland management program pending their classification and rezoning.	Medium	Staff time	NEU

	23. Develop criteria for future open space provision and dedications from development or subdivisions, considering conservation significance, habitat value, bushland condition, location with respect to corridor or core bushland, etc. Criteria should be developed in line with DECCW Biobanking Assessment Guidelines and other current best practice models.	Medium	Staff time	NEU
Planning/management for biological corridors and linkages	24. Maintain and improve corridor habitat when undertaking restoration works in reserves within wildlife corridors and in assessment of development proposals within corridor adjacent to reserves.	As required	Staff time	NEU, DA

Value: Integrity and sustainability of the reserve

Objective: Ensure reserves are managed in a way that does not conflict with identified values and the interest of future generations are protected

Means of Assessment: Regular assessment of bushland and track condition against baseline

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Reserves protected from activities that will degrade or reduce the viability of the site and genetic integrity of flora protected	25. Address illegal dumping through education and enforcement strategies. Monitor dumping and other urban boundary issues with regular assessment by contactors and bushland staff.	Ongoing	Staff time	NEU, Comp
	26. Identify boundaries with adjacent private lands and mark clearly on the ground.	Medium	Staff time	NEU
	27. Develop a strategic approach to dealing with encroachments (including illegal clearing, mowing, private infrastructure, etc) throughout all bushland reserves covered by this PoM based on bushland condition / conservation value and the level of impact of encroachment.	High	Staff time	NEU, Comp
	28. Progressively address encroachments in reserves in line with strategic approach developed in action above.	Ongoing	Staff time	Comp
	29. Delineate boundaries between bushland and Council-mown areas in the Reserve Action Plan. Ensure that mowing does not 'creep' into bushland areas. Regenerate areas where mowing has encroached into bushland areas according to priority.	High	As part of Reserve Action Plan	NEU, PRF
	30. Ensure the use of locally indigenous native species where practical in nearby amenity plantings in reserves.	Ongoing	Staff time	PRF, NEU
	31. Ensure that the collection of all seed and propagules from areas covered by the TSC Act is licensed by the DECCW. Council will develop licensing conditions for the collection of seeds from non-threatened bushland areas.	High	Staff time	NEU
	32. Liaise with utility providers regarding service and maintenance of utility infrastructure located within bushland reserves.	High	Staff time	NEU

Value: Educational Research and Community Awareness
Objective: Management that identifies, promotes and protects the educational and scientific values of the land
Means of Assessment: Update of Council's General Community Perception of the Environment Survey
 Level of use of reserves for recreational and educational activities

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Promote best management practice and community awareness of the conservation of bushland reserves	33. Allow and assist agencies and educational institutions to carry out research and educational activities related to natural resource management in reserves, with results of research available for use by Council.	As required	Staff time	NEU
	34. Educate and encourage the involvement of adjacent residents, bushfire brigades, recreational user groups and the local community in the protection of the reserve.	As required/ low	Staff time	NEU
	35. Install interpretive signs at strategic sites for community awareness and environmental education. Consider visual and environmental impact prior to approval of interpretive signs.	As required	Staff time	NEU

Value: Recreation and Access
Objective: Land, and its features and habitats, retained in its natural state and setting
Means of Assessment: Regular assessment of bushland and track condition against baseline

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Sustainable recreation facilities	36. Monitor use, condition and cumulative environmental impact of existing trails in the reserves and rationalise or maintain as appropriate. Trails to be designed and built to appropriate Australian Standard and best practice to ensure trail sustainability and minimal maintenance.	High	Staff time	NEU, PRF
	37. Formalise commercial or not-for-profit use of these reserves through reserve bookings or other user agreements as appropriate.	Medium	Staff time	NEU, PCD
	38. Investigate risk management issues associated with recreational use of reserves. This may include initial and ongoing inspections and preliminary risk assessment as well as a subsequent risk assessment study. Address issues that are identified. Investigations may indicate that a risk assessment study should be commissioned.	High	Staff time and resources for inspections and any preliminary risk assessment. Total costs will depend on likely extent of	NEU

			further investigation and action and the extent to which Council considers it necessary to engage consultants and contractors.	
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Value: Scenic / Aesthetic / Cultural
Objective: Land, and its features and habitats, retained in its natural state and setting
Means of Assessment: Regular assessment of bushland and track condition against baseline

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Protect psychological and social values of reserve	39. Recognise and take into account visual significance when planning and designing facilities and opportunities in reserves.	On-going	Staff time	NEU
	40. Consult with the Aboriginal Heritage Office or other heritage advisors regarding the cultural significance of caves, overhangs, rock outcrops etc, and items of European heritage and manage appropriately.	Medium	Staff time	NEU
	41. Review the naming of relevant bushland reserves, in collaboration with local Indigenous people, with a view to increasing the visible acknowledgment of the Guringai people, as recommended by Council's Reconciliation Action Plan.	Medium	Staff time	NEU

Value: Environmental Protection
Objective: Protect existing landforms such as natural drainage lines, watercourse and foreshores
Means of Assessment: Regular assessment of existing landforms against baseline

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Procedures and development control processes that protect the reserve	42. Ensure correct legislative procedures are followed and appropriate licences are obtained when conducting environmental works or research in the reserve.	High	Staff time	NEU, Comp

Value: Environmental Protection
Objective: Measures directed to minimising or mitigating any disturbance caused by human intrusion
Means of Assessment: Regular audit of implementation of Council's Environmental Management Plan
Regular assessment of bushland condition against baseline

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Ensure activities do not damage reserves	43. Implement appropriate site management controls for reserve improvement activities and ensure temporary structures are removed at completion of works.	High	Staff time	NEU
	44. Consult with neighbours and stakeholders about site management works undertaken by Council.	Ongoing	Staff time	NEU

Value: Hazard Management
Objective: To protect life and property from bushfire and other hazards
Means of Assessment: Regular audit of reserve bush fire hazard against Warringah Pittwater District Bush Fire Risk Management Plan and bush fire prone land map
Assessment of land stability against baseline.

Performance Targets	Management Actions	Priority	Resources Estimation	Responsibility
Manage bushfire hazards while protecting the environmental values of the reserves	45. Develop Fire Regime Management Plans for Reserves mapped as moderate to high bush fire hazard and/or high conservation reserves.	High	\$10,000 / Plan	NEU
	46. Implement Fire Regime Management Plans.	Ongoing	\$3,000/plan/year	NEU, RFS
	47. Undertake hazard reduction activities including hazard reduction burns and manual fuel removal in Asset Protection Zones and Fire Management Access Zones areas as appropriate and as recommended by updated Warringah Pittwater Bushfire Risk Management Plan (WPBRMP). Ensure manual fuel hazard reduction works are as sustainable as possible, incorporating selected vegetation removal and erosion control.	Medium	Depends on recoms in WPBRMP.	NEU, RFS
	48. Council will undertake appropriate environmental assessments for all hazard reduction burn proposals. Full REFs will be prepared for high conservation and selected high priority reserves. The RFS Environmental Assessment Code Guidelines will be followed for all other reserves.	Medium	RFS Code: staff time REF: \$5000 – 7000	NEU

Protect community members from hazard while maintaining the environmental values of the reserves	49. Assess safety issues associated with landslip and land stability where relevant. This may include initial and ongoing inspections and preliminary risk assessment as well as a subsequent risk assessment study. Carry out remedial works as appropriate.	High	Resources for consultant (and staff to supervise contracts) for site assessment. Total costs will depend on likely extent of further investigation and action and the extent to which Council considers it necessary to engage further consultants and contractors.	NEU
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12 Leases, Licences and Other Estates

12.1 Community Lands

In accordance with Section 46A of the *Local Government Act 1993* a plan of management is to specify in relation to Community Land any purpose for which a lease, licence or others estate may be granted. This section of the Plan of Management describes the leases, licences and other estates permitted on the land covered by this Plan.

The *Local Government Act* requires Council to consider what activities may require granting of a lease, licence or other estate during the life span of a plan of management. These activities may be short or long term and the authorisation is intended to allow occasional events and to promote the multiple uses of community facilities and resources. The authorisation allows for the consideration, and granting if appropriate, of the prescribed activity. Development must also be in accordance with the *Local Government Act 1993* and the Warringah Local Environment Plan 2000. The following section provides information regarding existing lease and licences, restrictions to activities and authorisations of licences and other estates considered appropriate for the land covered by this Plan.

12.2 Crown Lands

Section 102 and 102A of the *Crown Lands Act 1989* authorises a reserve trust to enter into leases and licences for reserves under their management, subject to Ministerial consent in most cases. Such leases and licences must be in accordance with any dedication or purpose that applies to the land. Under Section 122 of the *Crown Lands Act 1989* reserve trusts must report on activities on the reserve, as detailed in Clause 33 of the Crown Lands regulation, and maintain financial records.

12.3 Licences and Other Estates Authorised for the land in this Plan of Management

This Plan of Management expressly authorises the granting of a licence or other estate for the range of purposes listed below. In all cases the undertaking of any activity authorised by the licence or other estate must not compromise the purpose of the reserve (if Crown Reserve) or the core objectives of the category of the land (if Community Land). As well, agreements must take into consideration any other relevant Council policies and strategies relevant to community land categorised as Natural Area, including the Bushland Policy and Local Habitat Strategy (2007).

Purpose of Licence or other Estate	Additional Conditions of Licences or other Estates
<p>This Plan of Management expressly authorises the granting of a licence or other estate for the purpose of recreational, community, educational or scientific activities. This authorisation may include activities such as:</p> <ul style="list-style-type: none">• Recreational activities (including scouting, guiding or other similar pursuits)• Private gatherings including weddings• Scientific research/data collection• Educational activities• Rural Fire Service operations• Seed collection (licences issued under the National Parks and Wildlife Act 1974 or the	<p>The undertaking of the activity authorised by the licence or other estate must not compromise the purpose of the reserve (if Crown Reserve) or the core objectives of the category of the land (if Community Land).</p> <p>Agreements must take into consideration any other relevant Council policies and strategies relevant to community land categorised as Natural Area, including the Bushland Policy and Local Habitat Strategy (2007)</p>

Threatened Species Conservation Act 1985 may also be required).	
<p>This Plan of Management allows Council to grant 'an estate' over community land for the purpose of a 'public road' under the following conditions:</p> <ul style="list-style-type: none"> • where the provision of that road is consistent with the core objectives; • where that road is necessary to facilitate enjoyment of the land or any facility on that land; and • where other means of access other than public road access have been considered. 	<p>The undertaking of the activity authorised by the licence or other estate must not compromise the purpose of the reserve (if Crown Reserve) or the core objectives of the category of the land (if Community Land).</p> <p>Agreements must take into consideration any other relevant Council policies and strategies relevant to community land categorised as Natural Area, including the Bushland Policy and Local Habitat Strategy (2007)</p>
<p>This Plan of Management expressly authorises the granting of a licence or other estate for the purpose of telecommunications facilities where the installation of these facilities would not be inconsistent with the category or public purpose of the land.</p>	<p>Agreements must be in accordance with relevant legislation and take into consideration any other relevant Council policies, strategies and procedures.</p>
<p>This Plan of Management expressly authorises the granting of an easement for the purpose of asset protection works that burdens the part of Maybrook Reserve categorised as General Community Use and benefits Lot 911, DP 1031528, as contemplated in Development Consent DA 2005/0321.</p>	<p>The nature of the works carried out within the easement is limited to that permitted by Development Consent DA 2005/0321.</p>

Appendix 1 Land Covered by this Plan of Management

Table 1: Reserves covered by this Plan of Management

(Land parcels with more than one category have been highlighted in yellow)

Map Ref	Reserve Name	Address	Suburb	Lot	DP	Ccl Reg #	Owner	Public Purpose	Category (or mgmnt intent)
Allambie, Manly Vale and North Balgowlah Bushland Reserves									
F10	Bangaroo St Reserve	Bangaroo St	Nth Balgowlah	Part 1	130467	75/3	WC		NA/B
F10	Bangaroo St Reserve	Bangaroo St	Nth Balgowlah	Part 2	873792	75/15	WC		NA/B
G9	Gumbooya Reserve	Allambie Rd	Allambie Heights	2635	752038	70I/2	Crown	Public Recn & Preservation of Aboriginal Carvings & Drawings	NA/B
G10	Highview Reserve	Horning Pde	Manly Vale	150	11320	76/5A	WC		NA/B
G10	Kentwell Rd Reserve	Kentwell Rd	North Manly	7097	1081897	70E/4	Crown	Public Recreation	NA/B
F10	Lone Pine Reserve	Lone Pine Pl	Nth Balgowlah	22		75/13	WC		NA/B
G9	Orara Reserve	Lyly Rd	Allambie Hts	1720	752038	70I/4	Dept Education	Childrens Playground	NA/B
G9	Wandella Reserve	Carinya Close	Allambie Hts	7128	1029129	70E/1	Crown	Public Recreation	NA/B, Park
G9	Wandella Reserve	Carinya Close	Allambie Hts	7	242893	70E/2	WC		NA/B
Beacon Hill and Narraweena Bushland Reserves									
G8	Birinta Street Reserve (1)	Birinta St	Narraweena		32387	51/2E	Crown	Public Recreation	NA/B
G8	Consul Road Reserve	Consul Road	Brookvale	12	1101677	63E/10	WC		NA/B
G8	Gilles Reserve	Lanai Pl	Beacon Hill	30	201290	52/2	WC		NA/B
G8	Gilles Reserve	Carolyn Ave	Beacon Hill	10	205199	52/4A	WC		NA/B
G8	Gilles Reserve	Carolyn Ave	Beacon Hill	11	205199	52/4B	WC		NA/B
F9	Goroka Park	Ethie Place	Beacon Hill	1535	752038	61H/1	Crown	Public Recreation	NA/B, Park
F9	Goroka Park	Goroka Pl	Beacon Hill	16	29701	61H/8	WC		NA/B, Park
F8	Lae Reserve	Arnhem Rd.	Allambie Hts	1532	752038	61I/1	Crown	Public Recreation	NA/B, Park
G8	Northcliffe Avenue Reserve	Northcliffe Ave	Narraweena	91	12200	63E/9F	Dept Planning	Public park etc	NA/B
G8	Northcliffe Avenue Reserve	Northcliffe Ave	Narraweena	86	12200	63E/9A	Dept Planning	Public park etc	NA/B
G8	Northcliffe Avenue Reserve	Northcliffe Ave	Narraweena	87	12200	63E/9B	Dept Planning	Public park etc	NA/B
G8	Northcliffe Avenue Reserve	Northcliffe Ave	Narraweena	88	12200	63E/9C	Dept Planning	Public park etc	NA/B

Map Ref	Reserve Name	Address	Suburb	Lot	DP	Ccl Reg #	Owner	Public Purpose	Category (or mgmnt intent)
G8	Northcliffe Avenue Reserve	Northcliffe Ave	Narraweena	89	12200	63E/9D	Dept Planning	Public park etc	NA/B
G8	Northcliffe Avenue Reserve	Northcliffe Ave	Narraweena	90	12200	63E/9E	Dept Planning	Public park etc	NA/B
G8	Quarry Reserve	Warringah Rd.	Beacon Hill	B	339280	62H/3A	WC		NA/B
G8	Quarry Reserve	Warringah Rd.	Beacon Hill	C	386737	62H/3B	WC		NA/B, Park
H8	Rowena Rd Reserve	Rowena Rd	Narraweena	44	27573	53/7	WC		NA/B
G8	Willandra Rd Reserve	Willandra Rd	Cromer	16	729342	51/12A	Crown	Public Recreation	NA/B
G8	Willandra Rd Reserve	Willandra Rd	Cromer	15	729342	51/12B	Crown	Public Recreation	NA/B
G8	Willandra Rd Reserve	Willandra Rd	Cromer	17	729342	51/12C	Crown	Public Recreation	NA/B
G8	Willandra Rd Reserve	Willandra Rd	Cromer	18	729342	51/12D	Crown	Public Recreation	NA/B
G8	Willandra Reserve	Willandra Rd	Beacon Hill	7095	1069200	52/1A	Crown	Public Recreation	NA/B, SG, GCU
Belrose and Davidson Bushland Reserves									
C8	Allworth Dr Reserve	Twynam Rd	Davidson	7029	752038	109/1	Crown	Public Recreation	NA/B
C7	Ashworth Avenue Reserve	Ashworth Ave	Belrose	20	708368	6463/2	Crown	Public Recreation	NA/B
C8	Davidson Bush Fire Brigade	Borgnis St	Davidson	PT	247495	6459/2	Crown	Bush-Fire Brigade	NA/B, GCU
C7	Finch Pl Reserve	Stone Pde	Davidson	2769	752038	109/11B	Crown	Public Recreation	NA/B
C7	Grimes Reserve	Grimes Pl	Davidson	43sec195	251101	6462/3	Crown	Public Recreation	NA/B
C7	Haigh Avenue to Ashworth Avenue Reserve	Haigh Ave	Belrose	10	712774	6463/4	WC		NA/B
C7	Haigh Avenue Reserve	Haigh Ave	Belrose	21	528243	95/8	WC		NA/B
D7	Hews Reserve	Hews Pde	Belrose	12	587071	6558/5	WC		NA/B
C8	Harper Place	Harper Place	Frenchs Forest	99	263490	87/14	Land & Housing Corp	Children's playground	NA/B
C7	Kambora Ave Reserve (No 2)	Finch Pl.	Davidson	2770	752038	109/11	Crown	Public Recreation	NA/B
C7	Langham Place Reserve	Langham Pl	Belrose	10	244693	6463/1	WC		NA/B
B8/C8	Macfarlane Reserve	Sir Thomas Mitchell Dr	Davidson	2757	249600	6461/3	Crown	Public Recreation	NA/B, SG
B7	Mathews St Reserve No 1	Matthews St	Davidson	38 Sec 198	252815	6462/1	Crown	Public Recreation	NA/B
C7	Sir Thomas Mitchell Res (1)	Sir Thomas Mitchell Dr	Davidson	12	260686	109/13A	Crown	Public Recreation	NA/B
C7	Spence Place Reserve	Haigh Ave	Belrose	10	809324	6463/3	WC	Public Recreation	NA/B
C7	Vincent Place Reserve (no 1)	Furber Pl	Davidson	66	262297	109/12	Crown	Public Recreation	NA/B
C7	Vincent Place Reserve (no 2)	Sir Thomas Mitchell Dr	Davidson	14	260686	109/13B	Crown	Public Recreation	NA/B
C7	Wayne Schimanski Reserve	Grimes Pl	Davidson	2761	752038	6461/5	Crown	Public Recreation	NA/B, Park

Map Ref	Reserve Name	Address	Suburb	Lot	DP	Ccl Reg #	Owner	Public Purpose	Category (or mgmnt intent)
C8	Woolrych Crescent Reserve	Sir Thomas Mitchell Dr	Davidson	1	40425	6459/1	Crown	Public Recreation	NA/B
D7	Wyatt Reserve	Wyatt Ave	Belrose	1631	752038	6631/1	WC		NA/B, SG, Park
C8	Yindela Reserve	Pound Ave	Frenchs Forest	PT1	40426	6186/1	Crown	Public Recreation	NA/B, Park
C8	Yindela Reserve	Pound Ave	Frenchs Forest	2768	752038	6186/2	Crown	Children's playground	NA/B, Park
Collaroy Bushland Reserves									
I7	Anzac Avenue Reserve	Anzac Ave	Collaroy	55	223914	46/4	WC		NA/B, GCU
I7/I8	Lincoln Avenue Reserve	Coutts Crescent	Collaroy	56	236457	47/5	WC		NA/B
I7/I8	Lincoln Avenue Reserve	Coutts Crescent	Collaroy	55	236457	47/6	WC		NA/B
I7/I8	Lincoln Avenue Reserve	Lincoln Ave	Collaroy	760	734944	47/2	WC		NA/B
I7	Suffolk Ave Reserve	Suffolk Ave	Collaroy	67	212835	47/4	WC		NA/B
Corymbia Circuit and Oxford Falls Bushland Reserves									
E7/E8	Corymbia Crt Reserve	Corymbia Crt	Oxford Falls	88	869624	49/29	WC		NA/B
E7/E8	Corymbia Crt Reserve	Corymbia Crt	Oxford Falls	88	869624	49/29	WC		NA/B
E7/E8	Corymbia Crt Reserve	Corymbia Crt	Oxford Falls	90	869624	49/31	WC		NA/B
E7/E8	Corymbia Crt Reserve	Corymbia Crt	Oxford Falls	94	869624	49/35	WC		NA/B
E7/E8	Corymbia Crt Reserve	Corymbia Crt	Oxford Falls	94	869624	49/35	WC		NA/B
E7/E8	Corymbia Crt Reserve	Corymbia Crt	Oxford Falls	4	869624	49/36	WC		NA/B
F8	Oxford Falls Peace Park	Wakehurst Pwy	Oxford Falls	2869	824056	49/17	Crown	Public Recreation	NA/B, GCU
F8	Oxford Falls Peace Park	Wakehurst Pwy	Oxford Falls	1	853151	49/20	Crown	Public Recreation	NA/B, GCU
F8	Oxford Falls Peace Park	Wakehurst Pwy	Oxford Falls	2	853151	49/21	Crown	Community Purposes	NA/B, Park
F8	Oxford Falls Peace Park	Wakehurst Pwy	Oxford Falls	2867	853153	49/22	Crown	Public Recreation	NA/B
F8	Oxford Falls Rd Reserve	Oxford Falls Rd	Beacon Hill	10	238751	57/12	WC		NA/B
Cromer Bushland Reserves									
G7	Cromer Rd Reserve	Cromer Rd	Cromer	2	774288	5132/5	WC		NA/B
G7	Cromer Rd Reserve	Cromer Rd	Cromer	3	774288	5132/6	WC		NA/B
G7	Cromer Rd Reserve	Cromer Rd	Cromer	21	859782	5132/7	WC		GCU , NA/B
G7/H7	Government Rd Reserve (1)	Wabash Rd	Cromer	2sec4	1818	4161/7	WC		NA/B
G7/H7	Government Rd Reserve (2)	Government Rd	Cromer	122	237862	4782/1	WC		NA/B
G7/H7	Government Rd Reserve (1)	Wabash Rd	Cromer	20sec2	1818	4161/5A	Dept Planning	public park	NA/B

Map Ref	Reserve Name	Address	Suburb	Lot	DP	Ccl Reg #	Owner	Public Purpose	Category (or mgmnt intent)
G7/H7	Government Rd Reserve (1)	Wabash Rd	Cromer	21sec2	1818	4161/5B	Dept Planning	public park	NA/B
G7/H7	Government Rd Reserve (1)	Wabash Rd	Cromer	22sec2	1818	4161/5C	Dept Planning	public park	NA/B
G7/H7	Government Rd Reserve (1)	Wabash Rd	Cromer	23sec2	1818	4161/5D	WC		NA/B
G7/H7	Government Rd Reserve (1)	Wabash Rd	Cromer	24sec2	1818	4161/5E	Dept Planning	public park	NA/B
G7	Grover Ave Reserve	Cleveland Ave	Cromer	31sec8	1818	4161/1A	Dept Planning	public park	NA/B
G7	Grover Ave Reserve	Cleveland Ave	Cromer	30sec8	1818	4161/1B	Dept Planning	public park	NA/B
G7	Grover Ave Reserve	Cleveland Ave	Cromer	29sec8	1818	4161/1C	Dept Planning	public park	NA/B
G7	Grover Ave Reserve	Cleveland Ave	Cromer	28sec8	1818	4161/1D	Dept Planning	public park	NA/B
G7	Grover Ave Reserve	Cleveland Ave	Cromer	10sec8	1818	4161/1E	Dept Planning	public park	NA/B
G7	Grover Ave Reserve	Cleveland Ave	Cromer	11sec8	1818	4161/1F	Dept Planning	public park	NA/B
G7	Grover Ave Reserve	Cleveland Ave	Cromer	33sec8	1818	4161/3	WC		NA/B
G7	Grover Ave Reserve	Cleveland Ave	Cromer	27sec8	1818	4161/8A	WC		NA/B
G7	Grover Ave Reserve	Cleveland Ave	Cromer	26sec8	1818	4161/8B	WC		NA/B
G7	Moonarie PI Reserve	Cleveland Ave	Cromer	503	710696	50A/13	WC		NA/B
G7	Moonarie PI Reserve	Cleveland Ave	Cromer	52	239139	6654/1	WC		NA/B
G7	Truman Reserve	Truman Rd.	Cromer	1	529290	5131/1	WC		NA/B, SG, Park
G7	Washington Ave Reserve	Washington Ave	Cromer	29sec4	1818	4161/10	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	15sec6	1818	4161/11A	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	11sec6	1818	4161/11B	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	14sec6	1818	4161/2A	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	13sec6	1818	4161/2B	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	10sec6	1818	4161/2C	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	30sec6	1818	4161/4A	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	29sec6	1818	4161/4B	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	33sec4	1818	4161/6A	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	32sec4	1818	4161/6B	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	35sec4	1818	4161/9A	Dept Planning	public park	NA/B
G7	Washington Ave Reserve	Washington Ave	Cromer	34sec4	1818	4161/9B	Dept Planning	public park	NA/B
East Forest Way Bushland Reserves									
D6	Belrose Reservoir	Forest Way	Belrose	6	700298	101/2A	Crown	Public Recreation	NA/B
E6	Morgan Rd Reserve (no. 2)	Morgan Rd	Belrose	2	550326	49/11	Crown	Public Recreation	NA/B
E7	Perentie Reserve	Perentie Rd	Belrose	964	752038	49/2	Crown	Public Recreation	NA/B

Map Ref	Reserve Name	Address	Suburb	Lot	DP	Ccl Reg #	Owner	Public Purpose	Category (or mgmnt intent)
	Fitzpatrick Avenue Reserve								
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	PT4	9081	85/18A	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	PT5	9081	85/18B	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	PT6	9081	85/18C	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	11	9081	85/1A	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	PT10	9081	85/1B	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	9	9081	85/1C	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	8	9081	85/1D	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	12	9081	85/1E	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	13	9081	85/1F	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	14	9081	85/1G	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	15	9081	85/1H	WC		NA/B
D8/E8	Fitzpatrick Avenue Reserve	Fitzpatrick Ave W	Frenchs Forest	1166	752038	85/22	WC		NA/B
D8	Springvale Reserve	Young Cres	Frenchs Forest	2	629775	89/14B	WC		NA/B, Park
D8/E8	Wellman Reserve	Wellman Rd	Forestville	46	29792	85/2A	WC		NA/B, Park
D8/E8	Wellman Reserve	Grace Ave	Forestville	28	200710	85/2B	WC		NA/B
	Forestville Bushland Reserves								
D9	Cook St Reserve	Cook St	Forestville	2717	241135	84/12	Crown	Public Recreation	NA/B, Park
D9	Cook Street Reserve No 2	Cook St	Forestville	5	239036	84/8	Crown	kindergarten and public recreation	NA/B
D9	Forestville Playing Fields	Melwood Ave Forestville 2087	Forestville	2666	752038	96/1A	Crown	Public Recreation	NA/B, SG, Park
D9	Forestville Playing Fields	Melwood Avenue	Forestville	2590	752038	96/1B	Crown	Public Recreation	NA/B, SG, Park, GCU
D8/D9	Gwarra Reserve	Davidson Ave	Forestville	7068	1060678	97/1	Crown	Public Recreation and Access	NA/B, Park
	Frenchs Forest Bushland Reserves								
E8	Bluegum Reserve	Sylvia Pl	Frenchs Forest	106	30700	58/7	WC		NA/B, Park
E8	Jindabyne Reserve	Rabbett St	Frenchs Forest	5	205483	58/10	WC		NA/B, Park
E8	Jindabyne Reserve	Rabbett St	Frenchs Forest	88	216410	58/11	WC		NA/B
E8	Jindabyne Reserve	Dundilla Rd	Frenchs Forest	3	205483	89/10	WC		NA/B
E8	Rabbett Reserve	Rabbett St	Frenchs Forest	105	30700	58/9	WC		NA/B, Park
F8	Winslea Place Reserve	Karabah Pl	Frenchs Forest	19	217924	57/1	WC		NA/B, Park

Map Ref	Reserve Name	Address	Suburb	Lot	DP	Ccl Reg #	Owner	Public Purpose	Category (or mgmnt intent)
	Harbord and Curl Curl area Bushland Reserves								
I9	Corella Street Reserve	Corella St	Harbord	490	802011	66/15	Crown	Public Recreation	NA/B, Park
H9	Nenagh Street Drainage Reserves	Nenagh St	North Manly	14	27569	72/4A	WC		NA/B
H9	Nenagh Street Drainage Reserves	Nenagh St	North Manly	15	27569	72/4B	WC		NA/B
H9	Quarrie Reserve	Amourin St	North Manly	7145	1023247	68/1	Crown	Public Recreation	NA/B, Park
I10	Ronald Ave Reserve	Ronald Ave	Harbord	7 sec152	239844	73/29A	Crown	Public Recreation	NA/B
I10	Ronald Ave Reserve	Ronald Ave	Harbord	3 sec 153	239844	73/29B	Crown	Public Recreation	NA/B
I9	Wingala Reserve	Headland Rd	North Curl Curl	360	752038	65E/4	Crown	Public Recreation	NA/B, GCU, Park
	Lady Davidson Reserve								
D8	Lady Davidson Reserve	Keldie St	Forestville	15	220182	97/10	WC		NA/B
D8	Lady Davidson Reserve	Keldie St	Forestville	26	223946	97/11	WC		NA/B
D8	Lady Davidson Reserve	Brown St	Forestville	14	226436	97/12	WC		NA/B
D8	Lady Davidson Reserve	Brown St	Forestville	75	221367	97/2	WC		NA/B
D8	Lady Davidson Reserve	Prince Charles Rd	Frenchs Forest	2	234196	91/16	WC		NA/B
D8	Lady Davidson Reserve	Lady Davidson Crt	Frenchs Forest	44	221578	97/15	WC		NA/B
D8	Merrilee Crescent Reserve	Merrilee Cres	Frenchs Forest	23	234788	91/11	WC		NA/B
D8	Yanco Close Reserve no 1	Yanco Close	Frenchs Forest	2746	752038	91/15	Crown	Children's Playground	NA/B, Park
	Middle Creek Reserves								
F6/F7/G7/H7	Middle Creek Reserve (1)	Wakehurst Pwy	Oxford Falls		752038	49/4C	Crown		NA/B
	Middle Creek Reserve (1)	Wakehurst Pwy	Oxford Falls		752038	49/4D	Crown	Public recreation and road corridor	NA/B
	Middle Creek Reserve (1)	Wakehurst Pwy	Cromer		752038	49/4E	Crown	Public recreation and road corridor	NA/B, Park
E7/F7/F6/G6	Middle Creek Reserve (2)	Wakehurst Pwy	Frenchs Forest	1061	752038	49/1A	WC		NA/B
	Middle Creek Reserve (2)	Wakehurst Pwy	Frenchs Forest	1060	752038	49/1B	WC		NA/B
	Middle Creek Reserve (2)	Wakehurst Pwy	Oxford Falls		752038	49/4B	Crown		NA/B
	Middle Creek Reserve (2)	Wakehurst Pwy	Oxford Falls	A	354369	49/8A	WC		NA/B
	Middle Creek Reserve (2)	Wakehurst Pwy	Oxford Falls	B	354369	49/8B	WC		NA/B

Map Ref	Reserve Name	Address	Suburb	Lot	DP	Ccl Reg #	Owner	Public Purpose	Category (or mgmnt intent)
E7	Morgan Rd Reserve	Wakehurst Pwy	Oxford Falls	1498	752038	49/4A	Crown	Public recreation and road corridor	NA/B, GCU
Middle Harbour Bushland Reserves									
D9	Downpatrick Road Reserve	Downpatrick Rd	Killarney Hts		752038	105/1	Crown	Public Recreation	NA/B
E10	Hyde Avenue Reserve	Hyde Avenue	Killarney Hts	666	217209	83/5C	WC		NA/B, Park
D10/E10	Killarney Drive Reserve	Killarney Dr	Killarney Hts	73	235355	83/10	WC		NA/B
D10/E10	Killarney Drive Reserve	Killarney Dr	Killarney Hts	341	215538	83/12	WC		NA/B
D10/E10	Killarney Drive Reserve	Killarney Dr	Killarney Hts	2	215007	83/2	WC		NA/B
D10/E10	Killarney Drive Reserve	Killarney Dr	Killarney Hts	26	232313	83/3	WC		NA/B
D10/E10	Killarney Drive Reserve	Killarney Dr	Killarney Hts	667	217209	83/5A	WC		NA/B
D10/E10	Killarney Drive Reserve	Killarney Dr	Killarney Hts	27	232313	83/8	WC		NA/B
D10/E10	Killarney Drive Reserve	Killarney Dr	Killarney Hts	72	235355	83/9	WC		NA/B
D9/E9	Londonderry Drive Reserve	Londonderry Dr	Killarney Hts	751	222208	104/2B	WC		NA/B
D9/E9	Londonderry Drive Reserve	Londonderry Dr	Killarney Hts	754	222208	104/2C	WC		NA/B
D9/E9	Londonderry Drive Reserve	Londonderry Dr	Killarney Hts	782	231927	104/2D	WC		NA/B
D9/E9	Tipperary Avenue Reserve	Londonderry Dr	Killarney Hts	784	231927	104/1	WC		NA/B
D9/E9	Tipperary Avenue Reserve	Athlone Cres	Killarney Hts	719	220167	104/10	WC		NA/B
D9/E9	Tipperary Avenue Reserve	Londonderry Dr	Killarney Hts	281	231927	104/13	WC		NA/B
D9/E9	Tipperary Avenue Reserve	Londonderry Dr	Killarney Hts	874	235514	104/14	WC		NA/B
D9/E9	Tipperary Avenue Reserve	Londonderry Dr	Killarney Hts	749	222208	104/2A	WC		NA/B
D9/E9	Tipperary Avenue Reserve	Londonderry Dr	Killarney Hts	6	526164	104/3	WC		NA/B
D9/E9	Tipperary Avenue Reserve	Londonderry Dr	Killarney Hts	8	234948	104/6	WC		NA/B
D9/E9	Tipperary Avenue Reserve	Athlone Cres	Killarney Hts	731	220165	104/7	WC		NA/B
D9/E9	Tipperary Avenue Reserve	Athlone Cres	Killarney Hts	748	231927	104/8	WC		NA/B
D9/E9	Tipperary Avenue Reserve	Athlone Cres	Killarney Hts	783	231927	104/9	WC		NA/B
C9	Davidson Park Rec'n Area	Warringah Rd.	Forestville	797	752038	96/5	WC		NA/B
C9	Davidson Park Rec'n Area	Boree Rd	Forestville		1	86/2	Crown	Public Recreation	NA/B
C9	Davidson Park Rec'n Area	Bridgeveiw Ave	Forestville		752038	96/4	Crown		NA/B
D9	Willow Way Reserve	Willow Way	Forestville	11	27432	84/13	WC		NA/B

Map Ref	Reserve Name	Address	Suburb	Lot	DP	Ccl Reg #	Owner	Public Purpose	Category (or mgmnt intent)
Nandi and Carnarvon Dr Reserves									
E8	Peppercorn Park	Carnarvon Dr	Frenchs Forest	38	863357	58/22	WC		NA/B
E8	Peppercorn Park	Wearden Rd	Frenchs Forest	2	47703	58/25	Crown		NA/B
E8/F8	Nandi Reserve	Wakehurst Pwy	Frenchs Forest	5	506463	58/1	Dept Planning	passive rec'n purposes pub park reserve rec'n	NA/B
E8/F8	Nandi Reserve	Nandi Ave	Frenchs Forest	21	221359	58/13	WC		NA/B
E8/F8	Nandi Reserve	Nandi Ave	Frenchs Forest	3	610663	58/14	WC		NA/B
E8/F8	Nandi Reserve	Wakehurst Pwy	Frenchs Forest	1	1037868	58/16	Dept Planning	pub pk pub reserve, pub rec'n	NA/B
E8/F8	Nandi Reserve	Frenchs Forest Rd East	Frenchs Forest	64	218592	58/2	WC		NA/B
E8/F8	Wakehurst Pwy Res (No2)	Lot 11 Dreadnought Rd	Oxford Falls	11	810343	49/10	WC		NA/B
E8/F8	Wakehurst Pwy Res (No2)	Wakehurst Pwy	Frenchs Forest	1	625683	58/17	WC		NA/B
E8/F8	Wakehurst Pwy Res (No2)	Wakehurst Pwy	Frenchs Forest	81	852584	58/21	WC		NA/B
E8/F8	Wakehurst Pwy Res (No2)	Wakehurst Pwy	Frenchs Forest	71	871903	58/24	WC		NA/B
E8/F8	Wakehurst Pwy Res (No2)	Wakehurst Pwy	Frenchs Forest	3023	1035325	58/30	WC		NA/B
Wheeler Ck Reserves									
F7	Maybrook Ave Reserve	Maybrook Ave	Cromer			49/9	Crown	Public Recreation	NA/B
G7	Maybrook Avenue Bushland Reserve	Jersey Pl	Cromer	902	790296	49A/8	WC		NA/B/GCU
G7	Pinduro Place Reserve	Pinduro Pl	Cromer	31	809944	5131/5	WC		NA/B
G7	Pinduro Place Reserve	Pinduro Pl	Cromer	16	814291	5131/3	WC		NA/B
G7	Pinduro Place Reserve	Pinduro Pl	Cromer	333	869613	5131/4	WC		NA/B
Wheeler Heights Bushland Reserves									
H7	Ambleside Reserve	Ambleside St	Wheeler Hts	96	223849	44H/1	WC		NA/B, Park
H7	Gilmore Ave Reserve	Middleton Rd	Cromer	28	28882	45/5	WC		NA/B
H7	Grasmere Reserve	Grasmere Cres	Wheeler Hts	17	201593	44E/5	WC		NA/B, Park
H7	Lantana Avenue Reserve	Greystoke St	Wheeler Hts	79	209118	44E/1	WC		NA/B
H7	Lantana Avenue Reserve	Lantana Ave	Wheeler Hts	108	209117	44E/2	WC		NA/B
I7	Parkes Rd Reserve no 2	Parkes Rd	Collaroy Plat	20	27915	45/6	WC		NA/B
H7	Parkes Rd. Reserve no 1	Middleton Rd	Collaroy Plat	52	788811	45/8	WC		NA/B
H7	Windermere Park	Rose Ave	Wheeler Hts	63	209826	44E/3A	WC		NA/B
H7	Windermere Park	Rose Ave	Wheeler Hts	62	209826	44E/3B	WC		NA/B

There are 33 reserves that contain parcels of land with more than one category of land. Although Bangaroo Reserve is entirely categorised as Natural Area Bushland, it has been mapped to show the location of community land within this Council property. The location of these reserves is shown in the table below in alphabetical order and illustrated on maps on the following pages.

Table 2: Mapped land parcels

map #	Reserve Name	Suburb	Lot	DP	Ccl Reg #	Category (or mgmnt intent)	PoM for other category(ies) not covered by this PoM
1	Ambleside Reserve	Wheeler Hts	96	223849	44H/1	NA/B, Park	Generic Parks
2	Anzac Avenue Reserve	Collaroy	55	223914	46/4	NA/B, GCU	n/a
3	Bangaroo St Reserve	Nth Balgowlah	Part 2	873792	75/15	NA/B	n/a
			Part 1	130467	75/3	NA/B	n/a
4	Bluegum Reserve	Frenchs Forest	106	30700	58/7	NA/B, Park	Generic Parks
5	Cook St Reserve	Forestville	2717	241135	84/12	NA/B, Park	Generic Parks
6	Corella Street Reserve	Harbord	490	802011	66/15	NA/B, Park	Generic Parks
7	Cromer Rd Reserve	Cromer	21	859782	5132/7	NA/B, GCU	n/a
8	Davidson Bush Fire Brigade	Davidson	PT 23sec160	247495	6459/2	NA/B, GCU	Generic Parks
9	Forestville Playing Fields	Forestville	2666	752038	96/1A	NA/B, SG, Park	Generic Sportsgrounds
			2590	752038	96/1B	NA/B, SG, Park, GCU	Generic Sportsgrounds draft Generic Community Buildings
10	Goroka Park	Beacon Hill	1535	752038	61H/1	NA/B, Park	Generic Parks
			16	29701	61H/8	NA/B, Park	Generic Parks
11	Grasmere Reserve	Wheeler Hts	17	201593	44E/5	NA/B, Park	Generic Parks
12	Gwarra Reserve	Forestville	7068	1060678	97/1	NA/B, Park	Generic Parks
13	Hyde Avenue Reserve	Killarney Hts	666	217209	83/5C	NA/B, Park	Generic Parks
14	Jindabyne Reserve	Frenchs Forest	5	205483	58/10	NA/B, Park	Generic Parks
15	Lae Reserve	Allambie Hts	1532	752038	61I/1	NA/B, Park	Generic Parks
16	Macfarlane Reserve	Davidson	2757	249600	6461/3	NA/B, SG	Generic Sportsgrounds
17	Maybrook Avenue Bushland Reserve	Cromer	902	790296	49A/8	NA/B, GCU	n/a
18	Middle Creek Reserve (1)	Cromer		752038	49/4E	NA/B, Park	Generic Parks
19	Morgan Rd Reserve	Oxford Falls	1498	752038	49/4A	NA/B, GCU	n/a
KEY: NA/B = natural area / bush; GCU = general community use; SG = sportsground							

map #	Reserve Name	Suburb	Lot	DP	Ccl Reg #	Category (or mgmnt intent)	PoM for other category(ies) not covered by this PoM
20	Oxford Falls Peace Park	Oxford Falls	2869	824056	49/17	NA/B, GCU	n/a
			1	853151	49/20	NA/B, GCU	draft Generic Community Buildings
			2	853151	49/21	NA/B, Park	draft Generic Community Buildings
21	Quarrie Reserve	North Manly			68I/1	NA/B, Park	Generic Parks
22	Rabbett Reserve	Frenchs Forest	105	30700	58/9	NA/B, Park	Generic Parks
23	Springvale Reserve	Frenchs Forest	2	629775	89/14B	NA/B, Park	Generic Parks
24	Truman Reserve	Cromer	1	529290	5131/1	NA/B, SG, P	Generic Sportsgrounds
25	Wandella Reserve	Allambie Hts	7128	1029129	70E/1	NA/B, Park	Generic Parks
26	Wayne Schimanski Reserve	Davidson	2761	752038	6461/5	NA/B, Park	Generic Parks
27	Wellman Reserve	Forestville	46	29792	85/2A	NA/B, Park	Generic Parks
28	Willandra Reserve	Beacon Hill	7095	1069200	52/1A	NA/B, SG, GCU	Generic Sportsgrounds, draft Generic Community Buildings
29	Wingala Reserve	North Curl Curl	360	752038	65E/4	NA/B, GCU, Park	Generic Parks
30	Winslea Place Reserve	Frenchs Forest	19	217924	57/1	NA/B, Park	future Generic Parks PoM
31	Wyatt Reserve	Belrose	1631	752038	6631/1	NA/B, SG, Park	Generic Sportsgrounds
32	Yanco Close Reserve no 1	Frenchs Forest	2746	752038	91/15	NA/B, Park	Generic Parks
33	Yindela Reserve	Frenchs Forest	PT1	40426	6186/1	NA/B, Park	Generic Parks
			2768	752038	6186/2	NA/B, Park	Generic Parks
34	Quarry Reserve	Beacon Hill	B	339280	62H/3A	NA/B, Park	future Generic Parks PoM
KEY: NA/B = natural area / bush; GCU = general community use; SG = sportsground							



Bushland Reserves Plan of Management Map 1- AMBLESIDE RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 15 30 60 Metres

1:2,000
(@ A5)



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Bushland Reserves Plan of Management Map 2 - ANZAC AVENUE RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 45 90 180 Metres

1:5,250
(@ A5)



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Bushland Reserves Plan of Management Map 3 - BANGAROO STREET RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 5 10 20 Metres

1:1,000
(@ A5)



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Bushland Reserves Plan of Management Map 4 - BLUEGUM RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 5 10 20 Metres

1:1,000
(@ A5)



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Bushland Reserves Plan of Management Map 5 - COOK STREET RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 5 10 20 Metres

1:1,000
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Bushland Reserves Plan of Management Map 6 - CORELLA STREET RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 5 10 20 Metres

1:1,000
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Bushland Reserves Plan of Management Map 7 - CROMER ROAD RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 25 50 100 Metres

1:3,158
(@ A5)



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Bushland Reserves Plan of Management Map 8 - DAVIDSON BUSH FIRE BRIGADE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 12.5 25 50 Metres

1:1,250
(@ A5)



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Bushland Reserves Plan of Management Map 9 - FORESTVILLE PLAYING FIELDS

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 30 60 120 Metres

1:4,000
(@ A5)



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Bushland Reserves Plan of Management Map 10 - GOROKA RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 15 30 60 Metres

1:2,000
(@ A5)



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Bushland Reserves Plan of Management **Map 11 - GRASMERE RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 5 10 20 Metres

1:1,000
(@ A5)



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Bushland Reserves Plan of Management **Map 12 - GWARRA RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 25 50 100 Metres

1:2,750
(@ A5)



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Bushland Reserves Plan of Management **Map 13 - HYDE AVENUE RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 10 20 40 Metres

1:1,500
(@ A5)



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Bushland Reserves Plan of Management **Map 14 - JINDABYNE RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 20 40 80 Metres

1:2,500
(@ A5)



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Bushland Reserves Plan of Management **Map 15 - LAE RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 7.5 15 30 Metres

1:1,445
(@ A5)



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Bushland Reserves Plan of Management **Map 16 - MACFARLANE RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 10 20 40 Metres

1:1,669
(@ A5)



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Bushland Reserves Plan of Management Map 17 - MAYBROOK AVENUE BUSHLAND RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 7.5 15 30 Metres

1:1,500
(@ A5)



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Bushland Reserves Plan of Management Map 18 - MIDDLE CREEK RESERVE (1)

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 25 50 100 Metres

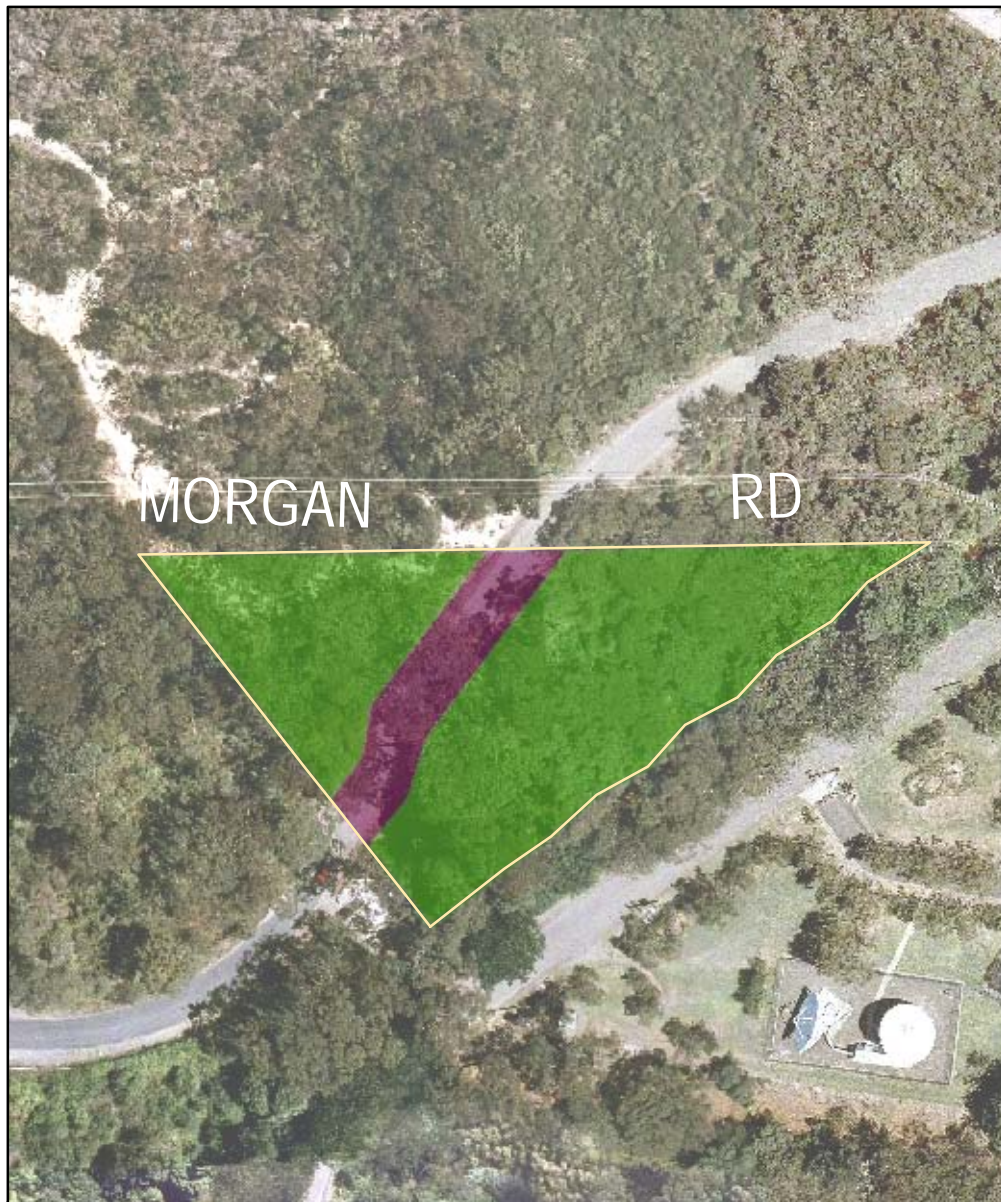
1:4,000
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Bushland Reserves Plan of Management **Map 19 - MORGAN ROAD RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 7.5 15 30 Metres

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Bushland Reserves Plan of Management **Map 20 - OXFORD FALLS PEACE PARK**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 12.5 25 50 Metres

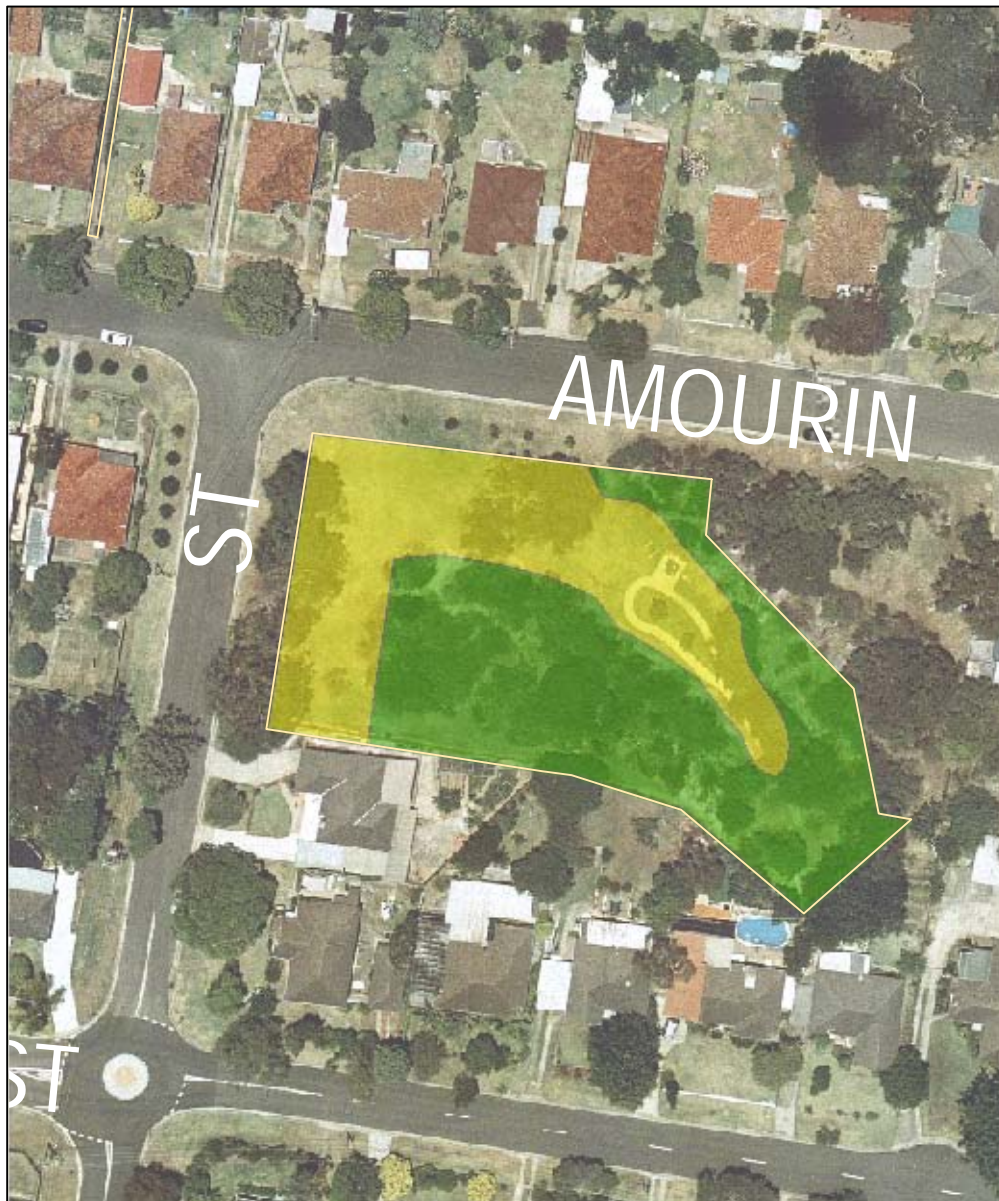
1:2,000
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Bushland Reserves Plan of Management Map 21 - QUARRIE RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 7.5 15 30 Metres

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Bushland Reserves Plan of Management Map 22 - RABBETT RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 5 10 20 Metres

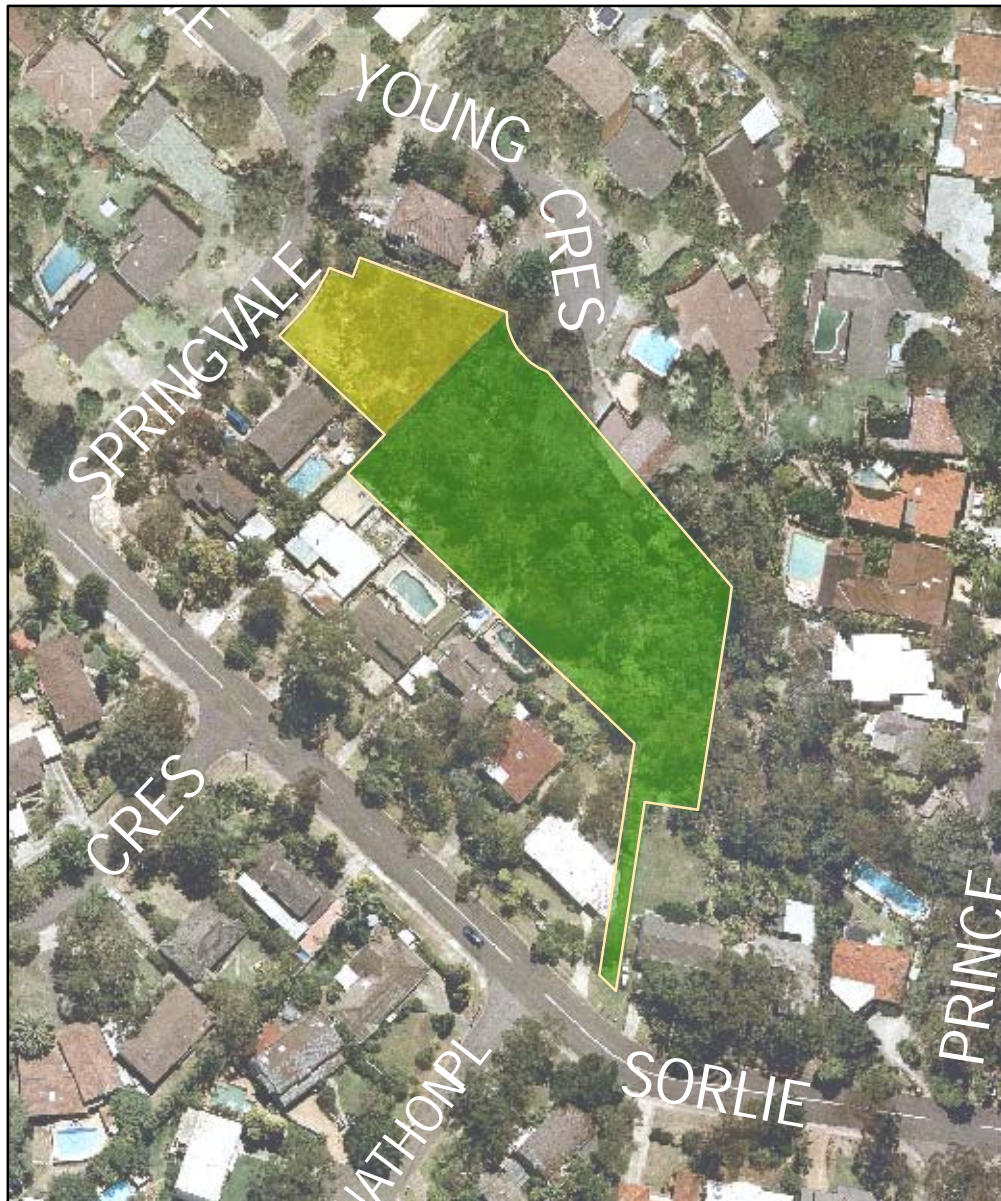
1:1,000
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Bushland Reserves Plan of Management **Map 23 - SPRINGVALE RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 12.5 25 50 Metres

1:1,500
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Bushland Reserves Plan of Management **Map 24 - TRUMAN RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 12.5 25 50 Metres

1:1,500
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Bushland Reserves Plan of Management **Map 25 - WANDELLA RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 5 10 20 Metres

1:1,200
(@ A5)



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Bushland Reserves Plan of Management **Map 26 - WAYNE SCHIMANSKI RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 4 8 16 Metres

1:1,200
(@ A5)



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Bushland Reserves Plan of Management **Map 27 -WELLMAN RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 7.5 15 30 Metres

1:1,000
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Bushland Reserves Plan of Management **Map 28 - WILLANDRA RESERVE**

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 10 20 40 Metres

1:2,700
(@ A5)



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Bushland Reserves Plan of Management Map 29 - WINGALA RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 5 10 20 Metres

1:2,000
(@ A5)



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Bushland Reserves Plan of Management Map 30 - WINSLEA PLACE RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 5 10 20 Metres

1:2,000
(@ A5)



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Bushland Reserves Plan of Management Map 31 - WYATT RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 5 10 20 Metres

1:2,000
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Bushland Reserves Plan of Management Map 32 - YANCO CLOSE RESERVE NO 1

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 2.5 5 10 Metres

1:1,000
(@ A5)



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Bushland Reserves Plan of Management Map 33 - YINDELA RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 7.5 15 30 Metres

1:1,200
(@ A5)



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Bushland Reserves Plan of Management Map 34 - QUARRY RESERVE

Community Land Categories

- Natural Area Bushland
- Park
- Sportsground
- General Community Use

0 3.75 7.5 15 Metres

1:1,000
(@ A5)



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Appendix 2 Results of Preliminary Public Consultation

Council staff made themselves available for two half-days (Tuesday 23rd September 2008 from 4pm to 7 pm at Dee Why library and Wednesday 24th September 2008 from 9.30am to 12.30am in the Civic Centre, Dee Why) for the public to come in and talk about bushland reserves in Warringah. Although this was advertised in the Manly Daily and 18 letters were sent out to local Progress Associations, Environment Groups and Bushwalking Groups, only 4 people took the opportunity to attend a face to face session. However, a number of phone calls were also received. Comments and issues that relate to the reserves in this Plan of Management are shown below.

GENERAL COMMENTS

Issue	Comments
Values of the bush include education, diversity of species, habitat (including dead trees), heritage, protection of natural features (rock features, drainage lines)	This Plan of Management confirms Council's intention to manage these reserves for these values.
'Reserve Action Plans' or some similar form of strategic work plan would be helpful for each reserve (similar to the model in use at Willoughby Council where they are initially produced by staff, then discussed with the relevant Bushcare group (if existing), and residents prior to adoption). This would help groups to know what they are working towards and produce more targeted work, and also to get grants.	Reserve Action Plans are identified as an integral part of bushland reserve management in this Plan, see action 9 and Appendix 5.
Council should aim to manage the bush in road reserves adjacent to bushland reserves	Action 22 reflects this issue.
Mowing creep is an issue that should be addressed (eg by mowing barriers such as logs)	Action 29 reflects this issue.
Encroachments into reserves should be addressed, including but not limited to, mowing creep (by Council or adjoining residents)	Actions 26 to 29 address this issue.
Asset protection zones around the boundary of reserves – should be 20m from buildings, however people take it upon themselves to clear 20m into the reserve from their property boundary. Need for clear guidelines on what type of clearing is appropriate, ie doesn't need to be totally cleared.	Action 47 reflects the issue of asset protection zones. Illegal clearing by neighbours is dealt with in action 27.
New developments adjacent to bushland reserves should be designed so APZ is within private property not on council reserve. Also natural drainage patterns should not be ignored in new developments.	Action 19 reflects the issue of appropriate development conditions, planning controls and guidelines for adjacent properties.
Drainage – need to consider the impacts of drainage from upstream of the reserve when deciding on management actions.	Reserve Action Plans will consider off-site impacts, see Appendix 5.

Council should aim to minimise the impacts of infrastructure providers . For example, an energy provider has cleared vegetation in Deep Creek Reserve and Manly Dam Reserve (Nerang Ave to Sthn Cross Drive and near retirement home).	Action 32 reflects this issue.
Any new creeks that are discovered in reserves should be added to the Creek Study for completeness, as the Creek Study missed a number of small creeks.	Council's GIS is continually being updated. Any new features that are identified as a result of site investigations carried out for the Reserve Action Plans (see Appendix 5) will be entered into Council's GIS.
The protection of soil is of utmost importance – seed source, erosion protection.	Noted, this Plan is consistent with this issue.
Maps should have coordinates (so locations can be verified with GPS) as well as care taken to ensure accurate scale and legend.	Noted, care has been taken to ensure accurate mapping, including scale and mapping. Coordinates (for subsequent GPA verification) are not included, however interested members of the public can contact Council for more detailed information on locations, coordinates, etc.
Volunteer bush regenerators should be encouraged not discouraged – recognise they need OH&S training and can't work alone for safety reasons, but Council should be sensitive when communicating this.	Action 34 addresses the issue of members of the public being involved in the protection of the reserve.

RESERVE SPECIFIC COMMENTS

Anzac Reserve, Collaroy – need for strategic direction for the bushcare group. The group of about 6 have been working in 2 small areas for 5 or 6 years, however not sure if they are working in the areas of the reserve that most need work. They would like a longer term plan of where they should be working.	The introduction of the Reserve Action Plan (Appendix 5) will assist this and other bushcare groups with strategic direction.
Bangaroo Reserve, Balgowlah – all the land parcels along the creek should be managed holistically. The creek foreshore needs to be managed as such, need to allow for the top of bank when categorising this reserve.	The reserve will be managed for its riparian values, this will be covered in further detail in the Reserve Action Plan for this reserve.
Hews Parade Reserve, Belrose – the bushland in this reserve should be managed in coordination with the bush corridor in the Belrose Road Corridor development.	Action 6a addresses this issue.
Maybrook Reserve, upper Oxford Falls – significant track erosion, leading to problems downstream in Middle Creek catchment. The	Action 36 addresses the issue of track condition on all reserves.

old fire trail to the west of Maybrook Reserve is well made with little erosion. However newer tracks, including a very recent one, do not appear to have adequate erosion control measures. Bikes cause erosion on tracks. Significant gully erosion is forming on these tracks. This issue relates to a lot of the bush in the Middle Creek catchment.	
Orara Reserve, Allambie – has aboriginal heritage and a rare plant, as found by a Department of Education study.	Noted, it is proposed to manage this reserve for bushland values, according to action 21.
Concern that no reserves in Killarney Heights would be sold or developed.	No reserves in Killarney Heights are proposed for sale or development.

Appendix 3 Legislation and Statutory Requirements

Local Government Act (1993) – Management of Community Land

What are the principles of community land management?

All land owned by Council must be managed in accordance with the *Local Government Act 1993*, including the *Community Land Management Amendment Act 1998*. The Act requires that councils must classify public land as “operational” or “community” and that plans of management must be prepared for Community Land. The ways in which Community Land can be used and managed are strictly governed in accordance with the adopted plan of management and any law permitting the use of the land for a specified purpose or otherwise regulating the use of the land.

Under legislative requirements of the *Local Government Act 1993*, Section 36(a) – (n), councils must prepare and adopt plans of management for all Community Land. A Plan may apply to one or more areas of Community Land, providing all the Act’s requirements are fulfilled.

The Act states that the Plan must identify the following:

- The category of the land
- The objectives and performance targets of the plan with respect to the land
- The means by which Council proposes to achieve the plan’s objectives and performance targets
- The manner in which Council proposes to assess its performance with respect to the plan’s objectives and performance targets

Categorisation of community land

The Local Government Act requires that all Community Land be categorised. There are core objectives for each category. All current and intended uses of the land must comply with the core objectives.

A combination of categories may be used for one parcel of land. Accordingly, this Plan of Management has identified the following categories for these bushland reserves:

- Park
- Sportsground
- General Community Use
- Natural Area
- Natural Area – Bushland

The definitions of each of the categories relevant to this Plan of Management are provided below as described in the Local Government (General) Regulation 1999:

(a) Park

Land that is, or is proposed to be, improved by landscaping, gardens or the provision of no-sporting equipment and facilities for use mainly for recreational, social, educational and cultural pursuits that do not unduly intrude on the peaceful enjoyment of the land by others.

(b) Sportsground

Land is used or proposed to be used primarily for active recreation involving organised sports or the playing of outdoor games.

(c) General Community Use

Land should be categorised as general community use if the land:

- May be made available for use for any purpose for which Community Land may be used, whether by the public at large or by specific sections of the public
- Is not required to be categorised as a natural area, or does not satisfy the guidelines for categorisation as a sportsground, a park or an area of cultural significance

(d) Natural Area

Land which, whether or not in an undisturbed state, possesses a significant geological feature, geomorphological feature, landform, representative system or other natural feature or attribute that would be sufficient to further categorise the land as bushland, wetland, escarpment, watercourse or foreshore. Community Land that has been declared critical habitat or which is directly affected by a recovery plan or threat abatement plan under the Threatened Species Conservation Act 1995 or the Fisheries Management Act 1994 must be categorised as a natural area.

Natural Area – Bushland

Land that contains primarily native vegetation and that vegetation is:

- The natural vegetation or a remainder of the natural vegetation of that land
- Is still representative of the structure and/or floristics of the natural vegetation in the locality

Core Objectives of Community Land

(e) 36E Core objectives for management of Community Land categorised as a natural area

- To conserve biodiversity and maintain ecosystem function in respect of the land, or the feature or habitat in respect of which the land is categorised as a natural area
- To maintain the land, or that feature or habitat, in its natural state and setting
- To provide for the restoration and regeneration of the land
- To provide for community use of and access to the land in such a manner as will minimise and mitigate any disturbance caused by human intrusion
- To assist in and facilitate the implementation of any provisions restricting the use and management of the land that are set out in recovery plan or threat abatement plan prepared under the Threatened Species Conservation Act 1995 or the Fisheries Management Act 1994

(f) 36F Core objectives for management of Community Land categorised as a sportsground

- To encourage, promote and facilitate recreational pursuits in the community involving organised and informal sporting activities and games
- To ensure that such activities are managed having regard to any adverse impact on nearby residences

(g) 36G Core objectives for management of Community Land categorised as general community use

To promote, encourage and provide for the use of the land, and to provide facilities on the land, to meet the current and future needs of the local community and of the wider public:

- in relation to public recreation and the physical, cultural, social and intellectual welfare or development of individual members of the public, and
- in relation to purposes for which a lease, licence or other estate may be granted in respect of the land (other than provision of public utilities and works associated with or ancillary to public utilities).

(h) 36I Core objectives for management of Community Land categorised as a park

- To encourage, promote and facilitate recreational, cultural, social and educational pastimes and activities
- To provide for passive recreational activities or pastimes and for the casual playing of games
- To improve the land in such a way as to promote and facilitate its use to achieve the other core objectives for its management

(i) 36J Core objectives for management of Community Land categorised as bushland

- To ensure that on-going ecological viability of the land by protecting the ecological biodiversity and habitat values of the land, the flora and fauna (including invertebrates, fungi and micro-organisms) of the land and other ecological values of the land
- To protect the aesthetic, heritage, recreational, educational and scientific values of the land
- To promote the management of the land in a manner that protects and enhances the values and quality of the land and facilitates public enjoyment of the land, and to implement measures directed to minimising or mitigating any disturbance caused by human intrusion
- To restore degraded bushland
- To protect existing landforms such as natural drainage lines, watercourses and foreshores
- To retain bushland in parcels of a size and configuration that will enable the existing plant and animal communities to survive in the long term
- To protect bushland as a natural stabiliser of the soil surface

What dealings can a Council have in Community Land?

Council has no power to sell, exchange or otherwise dispose of Community Land, except for the purpose of enabling that land to become, or to be added to, a Crown Reserve or land reserved or dedicated under the National Parks and Wildlife Act 1974.

Council may grant a lease or licence on Community Land, but only in accordance with the Local Government Act 1993. A Council may grant any other estate in Community Land to the extent permitted by the Local Government Act 1993.

Crown Land Act 1989 – Management of Crown Land

Requirements of the Crown Lands Act, 1989

The Crown Lands Act, 1989 is the principle Act in NSW controlling the management and use of Crown Land. : Plans of Management are instruments prepared under the Act to implement the objectives of the Act. The requirements of the Act in relation to the preparation of plans of management are set out in this section.

Objects of the Act

Section 10 of the Crown Lands Act, 1989 sets out the objects of the Act as follows:

The objects of this Act are to ensure that Crown Land is managed for the benefit of the people of New South Wales and in particular to provide for:

1. a proper assessment of Crown Land;
2. the management of Crown Land having regard to the principles of Crown Land management contained in this Act;
3. the proper development and conservation of Crown Land having regard to those principles;
4. the regulation of the conditions under which Crown Land is permitted to be occupied, used, sold, leased, licensed or otherwise dealt with;
5. the reservation or dedication of Crown land for public purposes and the management and use of the reserved or dedicate land, and
6. the collection, recording and dissemination of information in relation to Crown Land.

What is “Public Purpose”?

It is an essential requirement in preparing a plan of management that the public purpose of the Reserve is identified and used as a basis for planning and management. It is a further requirement that all land uses must either support or be ancillary to the Reserve’s public purpose. The *Crown Lands Act 1989* provides for the reservation and dedication of Crown land for a range of public purposes including: Access, Community Purposes, Environmental Protection, Heritage Purposes and Public Recreation. The schedule of Public Purposes continues to be revised and amended and includes a number of other items.

Principles of Crown Reserve Management

Section 11 of the *Crown Lands Act 1989* provides a set of principles for Crown Land management as follows:

- Environmental protection principles be observed in relation to the management and administration of Crown land
- The natural resources of Crown land (including water, soil, flora, fauna and scenic quality) be conserved wherever possible
- Public use and enjoyment of appropriate Crown land be encouraged
- Where appropriate, multiple use of Crown land be encouraged
- Where appropriate, multiple use of Crown land be encouraged
- Where appropriate, Crown land should be used and managed in such a way that both the land and its resources are sustained in perpetuity
- Crown land be occupied, used, sold, leased, licensed or otherwise dealt with in the best interests of the State consistent with the above principles

Furthermore, when preparing a plan of management for Crown land, the trust manager must comply with the following requirements of the *Crown Lands Act 1989*:

- Direction of the Minister or request by Trust for plan of management preparation;
- Drafts circulated for comment
- Exhibition of draft Plan
- Draft Plan exhibition notices provided

With the following outcomes:

- The Minister shall consider timely comment
- Ministerial adoption of the Plan
- Trust must follow the Plan and
- All operations must be in accordance with it

Leasing and licenses

Section 102 of the Act establishes requirements for the sale, lease or licensing of Crown land. Land cannot be sold, leased or a licence issued without the approval of the Minister. Section 102A provides that the Trustee may lease or issue a licence for reserved land where the Minister has approved the Trustee to do so. Section 108 also enables licenses to be issued for temporary purposes.

Section 106 of the Act requires that proceeds from the sale, lease or licensing of reserves must be used either as directed by the Minister, or for the management of the reserve by the Trustee.

Requirements for Plans of Management

Section 112 enables Plans of Management to be prepared for Crown reserves either by the Minister or by the reserve trust. Where a reserve trust manager, with the Minister's consent, prepares a plan of management, Section 112 of the Act requires the plan to specify or deal with the following matters:

1. the condition of the reserve (including the condition of any buildings or other improvements on the reserve);
2. the existing use of the reserve (including the existing use of any buildings or other improvements on the reserve);
3. the nature and scale of the proposed additional purpose;
4. the nature, scale and term of any lease, licence or other arrangement that is intended to be granted or entered into in relation to the additional purpose;
5. any submissions made in relation to the draft plan as a result of the consultation process and public exhibition requirements under section 113.

Section 113 establishes requirements for referrals, public display and submissions. Section 114 provides for the adoption of a Plan of Management by Council. Once a Plan of Management is adopted, no operations may be undertaken on or in relation to the reserve unless they are in accordance with the plan.

Reporting

Section 122 establishes requirements for reserve trusts to report to the Minister, as required by the Regulations.

Appendix 4 Previous Studies, Background Information & References

Warringah Natural Area Survey: Vegetation Communities and Plant Species

Report prepared for Warringah Council – Smith, Peter and Smith, Judy (2005)

The Warringah Natural Area Survey surveyed and mapped the native vegetation of the Warringah Local Government Area outside Ku-ring-gai Chase and Garigal National Parks. Thirty-seven native vegetation communities were distinguished, thirteen of which do not appear to be represented in either of the two national parks. Fifteen of the communities are threatened in NSW i.e. they form part of endangered ecological communities listed in the Threatened Species Conservation Act (1995).

Warringah Natural Area Survey: Vegetation History and Wildlife Corridors

Report prepared for Warringah Council – Smith, Peter and Smith, Judy (2005)

This Report draws upon the vegetation community survey and mapping to estimate the distribution of native vegetation types in the Warringah Local Government Area prior to European Settlement in comparison with their present distribution. The report also identifies existing and potential wildlife corridors linking larger bushland remnants in Warringah. These corridors are prioritised according to their importance to ground fauna moving between core bushland areas. Bantry Bay Reserves form part of a priority one corridor and Rhoker Reserve is located within a priority two corridor.

Development of an Assessment of Bushland Condition/Site Resilience and Review of Bush Regeneration Record Keeping Format for Warringah Council

Report prepared by Michael Clark: Ecological Restoration Company (1999)

This report reviewed bushland condition/site resilience assessments used by a range of organisations and developed an assessment that best suited the characteristics of Warringah's bushland. This assessment was trialled on a variety of bushland management project sites and subsequently refined. The report also standardised a bush regeneration record keeping format for use in regular reporting on the progress of bush-regeneration contracts.

Mapping and Reports for Warringah Council

Reports prepared by Ecological Australia (2006)

These reports and maps were prepared for each reserve in this Plan of Management, and include the vegetation condition and infrastructure and encroachment maps reproduced in this plan.

State Environmental Planning Policy 19: Urban Bushland (SEPP 19)

Protects and preserves bushland within certain urban areas, as part of the natural heritage or for recreational, educational and scientific purposes. The policy is designed to protect bushland in public open space zones and reservations, and to ensure that bush preservation is given a high priority when local environmental plans for urban development are prepared.

Appendix 5 Reserve Action Plans

This Generic Bushland Plan of Management applies to a large number of bushland reserves throughout Warringah. The specific way some of the actions in this plan are implemented in each reserve will vary depending on the individual characteristics of each reserve. To overcome this uncertainty, the plan recommends that Reserve Action Plans (RAPs) be prepared for individual reserves or groups of reserves (action G9). The RAPs will be consistent with the aims and objectives of this plan and will provide the specific bushland management strategies to be applied to individual bushland areas. They will be prepared in consultation with reserve neighbours.

Priorities for RAP Preparation

RAPs will be prepared in order of reserve priority. Priority will be determined by a number of factors, including conservation status, presence of threatened species or endangered ecological communities, location in relation to wildlife corridors and core bushland, size, position within the catchment, intensity of use, presence of heritage items, etc. This will enable resources and management effort to be focussed where it will have most effect.

RAPs will consist of an outline of any specific management issues, a plan detailing the specific works required and a schedule and costing of specific site works. These plans will be developed progressively following the adoption of the Plan of Management.

Content of RAP

An *Inventory* of reserve, including map and text identifying and describing features and management issues including:

- Condition and conservation status of **vegetation** communities, including location of any threatened species and known ROTAP species.
- Location of creeks or other **waterways**, including any stormwater outlets.
- Location of any **special features** of the reserve, including historical heritage items (Aboriginal or European) and natural heritage items (such as significant rock formations, caves, waterfalls, unusual plant communities, etc)
- Any **hazard** zones or areas including bushfire or land slip areas, and individual risk areas such as rock faces, cliff lines, etc
- Location of any Council **assets** or facilities, including walking trails, picnic facilities, etc.
- Any **existing works programs**, including bush regeneration, threatened species management, targeted noxious weed control, urban boundary weed removal, manual hazard reduction works and Friends of the Bush sites, with details of site history that might affect current management.
- Detailed condition mapping of bushland areas highlighting areas requiring regeneration / restoration and the degrading influence(s) involved. These degrading influences might include:
 - **management history** (including past management practices, fire hazard management, etc);
 - **boundary issues / edge effects**, (including swimming pools that could discharge into the reserve, stormwater outlets, sewage overflows and any activities on adjacent land that might affect the reserve)
 - **illegal activities** (including dumping, tree vandalism, neighbour encroachments, trail bike riding, etc); .
- Any significant **erosion** areas which require treatment

- Any other **threats to native biodiversity**, including weed infestations (and the suspected cause), feral animals, presence of companion animals and recreational activities.

A *Plan of works* for the reserve, including prioritised schedule and costing of specific site works. The plan of works will be based on an analysis of the reserve's features and the management issues that have been identified. It will contain strategies which, where possible, integrate all works and management activities to maximise their effectiveness. Typically, a plan of work will contain actions such as:

- Practical measures **to address the causes** of processes that threaten plant communities and or locally significant species, such as weed infestations, encroachments, etc.
- **Stabilisation** program for eroding areas
- A staged outline of **bush regeneration** required
- Measures to protect any **heritage items** and other values of the reserve
- Site specific strategies to address any management issues associated with Council **assets**.

The aim of the RAP is to ensure that work in each reserve is prioritised to achieve the greatest management benefit. It will promote wholistic management of the reserve and focus action on the causes rather than the effects of degradation. For example, if an area of bushland is being covered by sediment and weeds from an eroding track further uphill, the RAP will recommend addressing the track erosion and weed transport before any bush regeneration is carried out in the degraded area of bushland down the hill.