



WARRINGAH
COUNCIL

ATTACHMENT BOOKLET 5b

ORDINARY COUNCIL MEETING

TUESDAY 27 AUGUST 2013





MANLY WARRINGAH WAR MEMORIAL PARK

Plan of Management



Department of
Primary Industries
Catchments & Lands



WARRINGAH
COUNCIL

CONTROLLED DOCUMENT
"Manly Warringah War Memorial Park Plan of Management"

FINAL DRAFT ISSUE

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This Manly Warringah War Memorial Park Plan of Management
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Warringah Council and the Crown Lands Division

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5 Management Actions

5.1 Overview

This section of the Plan sets out the management strategies – as both policies and management directions or guidelines, as well as more specific on-ground or tangible actions – that Council will implement to realise the Park vision and to achieve the management objectives identified for different parts of the Park (as discussed further below).

5.2 Management Zones – Management Intent and Objectives

The *Manly Warringah War Memorial Park Issues and Directions Discussion Paper 2010* identified six “management zones” for the Park. Management Zones are a way of defining different areas within the Park based on the values that management aims to protect and the types of activities and uses that are permitted. Zoning is a useful way of summarising the broad management intent of particular areas of the Park – describing management objectives and, importantly, management priorities for different Park areas. The following management zones – as shown on Figure 10 – have been identified:

- Bushland Zone;
- Waterbody Zone;
- Day Use Zone;
- Urban Edge Zone;
- Park Management Zone; and
- Golf Course and Tennis Courts Zone.

Management Zones, and the management intent and objectives identified for each, provide the context and an overall management direction within which sit the more specific management actions (as described in the remainder of this chapter).

This Plan of Management aims to give direction to any issues that may arise during the life of the Plan. It is never possible to foresee all the challenges, issues and changing circumstances that may arise in managing a diverse area of public land. Management Zones, and the management intent and objectives identified for each, provide a decision framework against which to consider future unforeseen situations and management issues/challenges each time a new management response is required. In addressing unforeseen issues, it is also important to refer back to the Park’s underlying values. The management directions and actions provided seek to ensure that these values are protected and enhanced

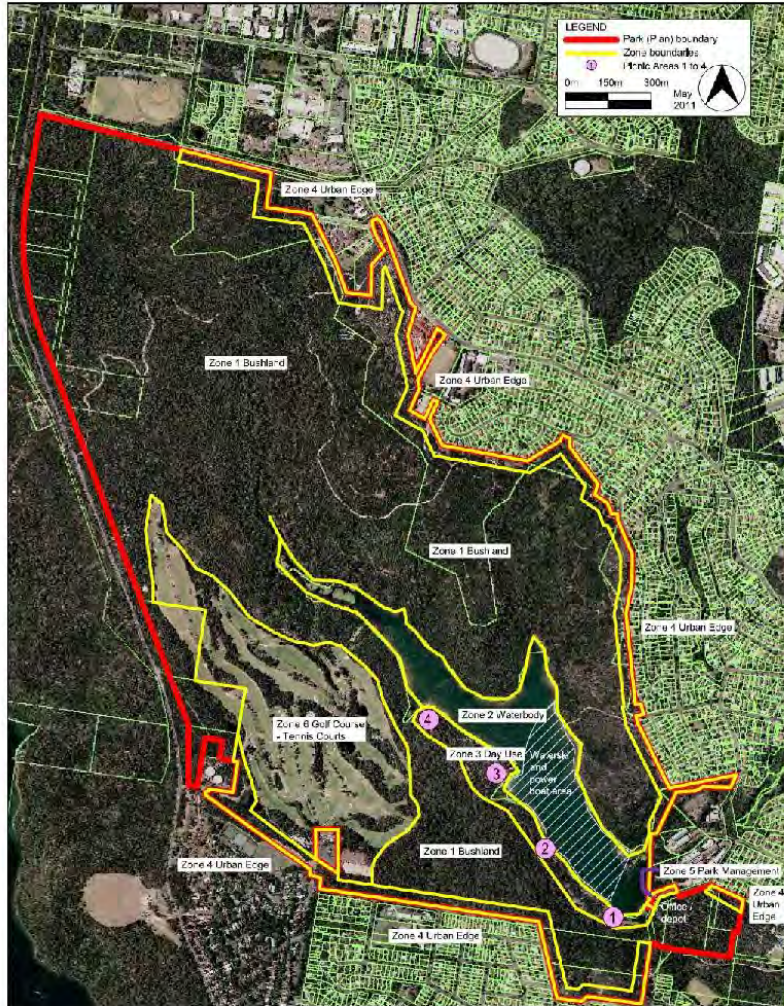


Figure 10
Management
zones

A statement of management intent has been described for each zone, as well as primary and secondary or supporting management objectives – defined as follows:

- primary management objectives are the over-riding or over-arching management objectives for a zone – they are the most important outcomes that management should achieve, and take the main role in driving/shaping management actions, and take priority in the case of any conflicting issues/outcomes; and
- secondary, or supporting, management objectives are other objectives that may be pursued within the primary purpose – once the primary management objectives have been realised, and as long as these secondary actions do not conflict with or compromise the primary purpose.

5.2.1 Bushland Zone

Management Intent – To maintain the greater majority of the Park as natural bushland and a scenic landscape, protecting communities and species of high conservation value, while providing for sustainable dispersed recreational and educational uses without significant impact on natural systems.

Primary management objectives:

- To protect communities and species legislated as having high conservation value.
- To maintain and enhance the natural systems, biodiversity, habitat, and scenic values of a large natural bushland area.
- To provide sustainable opportunities for dispersed track-based recreational, community and educational uses without significant impact on natural systems.
- To provide for visitor safety.

Secondary management objectives:

- To maintain links to adjacent or nearby natural areas.
- To assist in managing water quality in Manly Dam.
- To accommodate occasional “special use” recreational, community and or educational activities, with prior approval.
- To assist in maintaining the Park’s undeveloped bushland skyline, as seen from internal vantage points and use areas.

5.2.2 Waterbody Zone

Management Intent – To manage the waterbody as both a recreational and flood management asset, ensuring that water quality is suitable for swimming, and providing for safe, equitable and sustainable recreational use.

Primary management objectives:

- To collaborate with other agencies involved in the dam’s management, and manage water levels in the dam to meet flood management requirements while also catering for recreational use and visual appeal.
- To manage water quality in the dam suitable for swimming and other “primary contact” uses, and to provide for equitable recreational access to and use of the waterbody catering for a range of sustainable water-based activities and uses.
- To provide for visitor safety.

Secondary management objectives:

- To manage impacts from recreational use of the waterbody on surrounding Park values and uses.
- To accommodate occasional “special use” recreational, community or educational activities, with prior approval.

5.2.3 Day Use Zone

Management Intent – To maintain the existing “picnic areas” along the south-western margin of the dam as the Park’s main vehicle-accessible day-use area, offering a range of attractive recreational settings and facilities varying from landscaped areas with high-level facilities to low-key bushland settings and catering for a range of sustainable low-impact uses.

Primary management objectives:

- To offer a high quality day-use experience for park visitors - providing for visitor vehicle access and accommodating a range of mainly passive day-use recreational activities.
- To provide safe access to the adjacent waterbody.
- To offer a range of recreational settings and standards of facilities, while retaining the low-key and less-developed character of the area.
- To maintain the War Memorial and Remembrance Point facilities as a key part of the Park's identity.
- To provide facilities and access to accommodate use by the elderly, mobility impaired or people with a disability (both individuals and groups).
- To provide for visitor safety.

Secondary Management objectives:

- To maintain the zone as series of separate, day-use areas of differing standards and character.
- To maintain a Council-managed booking service, while also providing access for "impromptu" visitors.
- To provide additional picnic and associated facilities, if warranted by demand and use levels – but only where perceptions of crowding and overdevelopment can be managed/mitigated and quality visitor experiences maintained.
- To rationalise and improve the Park's entry, and vehicle access/parking within this zone, including the introduction of paid parking.
- To promote links (walking and mountain bike tracks) to areas adjoining the Park, between picnic areas and other locations within the Park.
- To accommodate occasional "special use" activities, events and services, with prior approval.

5.2.4 Urban Edge Zone

Management Intent – To manage those sections of the Park boundary adjacent to residential areas and other developments to effectively manage hazards and adverse impacts for Park neighbours, as well as minimising adverse impacts from adjoining land uses on the Park and its values.

Primary management objectives:

- To minimise the risks to life and property posed by occasional wildfires on the Park.
- To reduce direct and indirect impacts on the Park and its values from adjacent land uses, as well as to avoid adverse impacts on Park neighbours from on-Park activities.
- To provide secondary visitor access points.

Secondary management objectives:

- To provide sustainable opportunities for dispersed recreational and educational uses, without significant adverse impacts on adjacent natural areas and systems.
- To assist in managing the quality of stormwater entering the Park.

5.2.5 Park Management Zone

Management Intent – To provide a location for Park staff, management facilities, equipment and administration.

Primary management objective:

- To provide an accessible, efficient low impact area for the location of Park management – with appropriate facilities, equipment, administration and information to the community.
- To provide for staff and visitor safety

Secondary management objective:

- To improve presentation and/or screening of the existing yard and parking area as seen from the Park entrance.
- To assist in management of the Community Native Nursery within the Park Management Zone.

5.2.6 Golf Course and Tennis Courts Zone

Management Intent – To provide for continued operation of the Wakehurst Golf Course and Wakehurst Courvet Tennis Courts, while protecting natural and cultural heritage values across this area and minimising adverse impacts from these facilities and their management on surrounding areas of the Park.

Primary management objectives:

- To provide for continued operation of the Wakehurst Golf Course in accordance with its agreement(s) with Council.
- To provide for continued operation of the Wakehurst Courvet Tennis Courts in accordance with its lease agreement(s) with Council.

Secondary Management objectives:

- To ensure that natural and cultural heritage values across the Golf Course area are protected and appropriately managed.
- To ensure effective management of, and the minimisation of adverse impacts from, activities on the Golf Course and Tennis Courts on the Park, its natural systems, the dam waterbody, and other values.
- To work with Wakehurst Golf Club to manage hazards to visitors in areas adjacent to the Golf Course.

5.3 Management Actions

The following Action Tables present a variety of management actions – comprising both policies and management directions or guidelines, as well as more specific on-ground or tangible actions – that will guide the park's management over the coming 10 years. The management actions have been identified in response to the Park's values, the threats to these values and other management issues, community values and aspirations as expressed through the various community consultation measures during the Plan's preparation, and the stated Park vision and management objectives.

Management Actions have been grouped into specific value or operational areas (which approximate the value descriptions used in the preceding sections of the Plan), as follows:

- Biodiversity, Catchment and Landscape – comprising separate sets of management actions for native flora and vegetation communities and habitats, native fauna, weeds and pests and introduced animals, catchment and water quality, bushland linkages, and landscape and scenic values;
- Cultural Heritage – comprising separate sets of management actions for Aboriginal cultural heritage, historic (non-Aboriginal) heritage, and war memorial and commemorations;
- Visitor Use, Recreation and Enjoyment – comprising separate sets of management actions for tracks and trails, waterbody, day use areas, access, information and interpretation, educational uses, Wakehurst Golf Course, and Wakehurst Couvret Tennis Courts;
- Environmental Management – comprising separate sets of management actions for environmental protection and sustainability, fire management, Park boundary management, surrounding land uses and park neighbours, and easements; and
- Park Management and Administration – comprising separate sets of management actions for Park administration and management activities, co-operation with other agencies, community involvement, leases and licences and special uses and commercial activities, land tenure issues and boundary rationalisation, and finance and revenue generation.

Each value or operational area is preceded by a goal, or goals, and the objectives that the management actions are intended to achieve.

Within the Action Tables, individual management actions are presented in the following style, for ease of reference and use:

- **bold text** – indicates notable initiatives or changes in direction from past management practices;
- *italic text* – indicates management directions that are related to policy, guidelines or processes/procedures; and
- plain text – indicates tangible actions or specific on-ground tasks.

The Action Tables also include an indication of the order of resources required, priority and implementation responsibilities for each management action – as a guide to the Plan's implementation or operation. Resource requirements are generalised according to the

following categories, with more detailed cost estimates and timing for specific management actions identified in Chapter 6:

- high – actions that are significant projects, typically requiring sizeable capital works or other funding;
- moderate – actions that will require special allocations in the Park's or Council's operational budgets, additional resourcing, may extend over a number of funding cycles, and/or require a level of capital works funding;
- negligible or minor – actions that are routinely part of the Park's management and can be met from normal Park or Council operational budgets;
- not applicable (n/a) – actions that are of a policy nature or guidelines, that do not have a resource requirement attached or where implementation/operational costs are part of other actions.

The identified priorities give an indication of both the relative importance, and preferred timing, of each action – as follows.

- **HIGH** – Essential to achievement of the Park's management objectives, or where there is potential for the public to be exposed to an unacceptable level of risk, or there is potential for a serious threat to Park values or the environment and warranting funding consideration until achieved.
- **Medium** – These actions are desirable to enhance achievement of the Park's management objectives, or to address issues that meet a significant community need, or to improve Park management outcomes and ideally should be implemented within the life of this Plan.
- **Low** – These actions are useful for the overall management of the Park or address issues that have longer-term impacts (such as meeting less urgent community needs or improving inefficient services) and should be undertaken if resources permit.
- Where relevant, actions have also been identified as "Continuing" – where the action in question will apply or continue throughout the Park's management and/or the life of this Plan.

Responsibilities for the implementation of each management action have been identified to the very general level only. Responsibility for the majority of management actions has been allocated to Warringah Council, as manager of the Manly Warringah War Memorial Park (R68892) Reserve Trust and the body with primary carriage of the Park's care, control and management. Management actions allocated to Warringah Council, as Trust Manager and therefore on-ground manager, have also been differentiated chiefly by those most likely to be undertaken by the Park's on-site managers and those more likely to be progressed by other parts of Council. Individual Council sections or business units have not been identified, to allow for organisational change and the allocation of tasks to the most appropriate section of Council. Management actions have also been allocated to external agencies or stakeholders where appropriate. Management actions that require works or programmes beyond the Park's boundary, and hence beyond the Trust's control, have been identified as requiring liaison between the Trust and Warringah Council – and Manly Council where relevant – as the responsible local government bodies for the Park's surrounds.

Intended outcomes, and associated performance measures or means of assessing and tracking progress towards the stated management objectives, are identified following the Action Table for each general value or operational area as a whole.

The Masterplan – presented at Figure 11 – summarises the Action Tables and presents the Park's key management directions and actions.

Figure 11 - Park Masterplan – key management directions



Biodiversity, Catchment and Landscape

Value: NATIVE FLORA, VEGETATION COMMUNITIES AND HABITATS

Goal: Maintenance and enhancement of the Park's native flora, vegetation communities and habitats, and the protection of communities and species of high conservation value.

Objectives:

- A. To protect vegetation communities and native flora species legislated as having high conservation value, or assessed as of regional conservation significance.
- B. To maintain and enhance the Park's natural systems, vegetation communities, biodiversity and habitats.
- C. To maintain the greater majority of the Park as a large continuous natural area.

Management Actions, Priorities and Responsibilities (V):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
V1	Manage the greater majority of the Park as bushland - both within the Bushland Zone and elsewhere - to protect and enhance the Park's natural environment, habitats and biodiversity values as well as to assist in maintaining water quality in the dam and contribute to the area's recreation and scenic appeal. (C, B)	n/a	HIGH continuing	Park management Council
V2	Protecting the existing extensive areas of native vegetation and minimising bushland disturbances (to the extent as consistent with other actions identified in this Plan), will be the dominant "passive" management measures employed to maintain native flora, vegetation community and habitat values across most of the Park. (C, B)	n/a	HIGH continuing	Park management Council
V3	Bush regeneration, revegetation and weed control will continue to be the major "active" management measures used to maintain and enhance the Park's native flora, vegetation community and habitat values. Stormwater management and sediment-erosion control/remediation will be important supporting "active" management measures. Fire management (including the use of fire as an ecological management tool) and neighbour education/awareness will also be supporting "active" management measures. (C, B, A)	n/a	HIGH continuing	Park management Council RFS

Action No.	Actions (relevant objectives in brackets)	Implementation	
		Resource Estimation	Priority Responsibility
V4	Undertake special management measures as/where required to protect and conserve the areas of Duffys Forest Endangered Ecological Community, other vegetation communities of conservation significance, and threatened or significant native flora species within the Park – including relevant measures set out in any applicable Approved Recovery Plans under the <i>Threatened Species Conservation Act 1995</i> . This may include limitations on visitor access and use if warranted. Seek management advice from the Office of Environment and Heritage and other specialist agencies, where required. (A) Consolidate the Park's bushland margins, to minimise native vegetation "edges" and revegetate clearings/incursions into the bushland, where practical and consistent with bushfire management and park boundary management objectives. (B, A)	Minor	HIGH Park management Council OEH
V5		Minor	Medium Council Trust Crown Lands Division
V6	<i>Revegetation and supplementary bush regeneration plantings will only use local-provenance endemic species, preferably grown from seeds or vegetative material sourced (under managed conditions) from within the Park.</i> (B, A)	Minor	Medium continuing Park management Council
V7	Undertake or facilitate periodic bushland condition assessments - to assist in formulating, targeting and monitoring bush regeneration and weed control measures as well as to monitor for any outbreaks of Myrtle Rust. (B, A)	Minor	Medium Park management Council Other agencies/institutions
V8	Undertake or facilitate further investigations into the extent, location and status of all threatened or significant native flora species within the Park (A)	Minor	Medium Park management Council Other agencies/institutions
V9	Undertake or facilitate large-scale vegetation surveys across the Park if required for bushfire planning/management or if the opportunity arises as part of wider vegetation survey programmes (by Council, Crown Lands Division, OEH, or others). (B, A)	Minor	Low Park management Council Other agencies/institutions Volunteers

Catchment management actions (refer section C) and park neighbour programmes (refer section S) will also contribute to maintenance and enhancement of the Park's native flora, vegetation communities and habitats.

Performance Measures and Outcomes:

- No long-term reduction in, or further significant fragmentation of, the Park's bushland area – based on survey and monitoring.
- Condition of the Park's bushland maintained or enhanced – based on survey, monitoring and observation.
- Extent, occurrence and condition of significant vegetation communities, listed threatened species, and species of regional conservation significance maintained or enhanced – based on survey, monitoring and observation.
- Increased knowledge of the Park's native vegetation communities, flora and habitats.

Value: NATIVE FAUNA

Goal: An increase in the diversity, abundance and population resilience of native fauna, and the protection of fauna of high conservation value.

Objectives:

- A. To protect native fauna species legislated as having high conservation value, or assessed as of regional conservation significance.
- B. To support an increase in the diversity, abundance and population resilience of native fauna.

Management Actions, Priorities and Responsibilities (F):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
F1	Habitat protection – through protecting the existing extensive areas of native vegetation and minimising bushland disturbances and fragmentation both within the Bushland Zone and elsewhere (to the extent as consistent with other actions identified in this Plan or unless for works otherwise approved in this Plan) – will be the dominant “passive” management measures employed to support native fauna populations within the Park. (B, A)	n/a	HIGH continuing	Park management Council
F2	The central area of the Park – a large and less accessible bushland area contained within the Bushland Zone bounded by the main fire trail (and shared walker/mountain bike route) to the north and east, the Trig Track (and Wakehurst Parkway) in the west, and the upper reaches of the Dam and northern end of Wakehurst Golf Course to the south (as shown in Figure 12) – will be managed as a “core fauna habitat and refuge area”. No further fragmentation, intensification of uses, or new uses or developments will be permitted in this area. This includes no new tracks or trails (including parallel or duplicate trail sections), no additional vegetation clearing, and no new or additional uses/developments including leases, licences and as far as possible easements). That section of the Circuit Track through this area – north from the Dam to the main fire trail – will not be significantly upgraded, and educational signage to be designed and installed. (B, A)	Minor	Medium continuing	Park management Council

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
F3	Undertake special management measures, as/where required to protect and conserve threatened or significant native fauna species within the Park – including relevant measures set out in any applicable Approved Recovery Plans under the <i>Threatened Species Conservation Act 1995</i> . This may include limitations on visitor access and use if warranted. Seek management advice from the Office of Environment and Heritage and other specialist agencies, where required. (A)	Minor	HIGH	Park management Council (OEH)
F4	<i>Wildlife may be actively managed (including relocation or habitat/nest manipulation) in and around the Day Use Zone and at other locations, where/when required, for visitor and public safety reasons. (-)</i>	Negligible	HIGH continuing	Park management
F5	Undertake or facilitate targeted surveys of the Park's threatened or significant native fauna species, as/when required, to support their conservation management. (A)	Minor	Medium	Park management Council (Other agencies/institutions Volunteers)
F6	Undertake or facilitate periodic fauna survey and monitoring within the Park, according to a systematic and structured programme to provide long-term and comparable data on the Park's wildlife. (A)	Minor	Low	Park management Council (Other agencies/institutions Volunteers)

Bushland linkages (refer section B1), park neighbour programmes (refer section S) and catchment management actions (refer section C) will also contribute to protection of the Park's native fauna.

Performance Measures and Outcomes:

- Diversity and abundance of the Park's native wildlife is maintained or enhanced (consistent with naturally occurring/sustainable levels) – based on survey, monitoring and observation.
- Park's native wildlife population is comparable to that of other, ecologically similar, large bushland conservation reserves in the northern Sydney region – based on survey, monitoring and observation.
- Native fauna species or populations listed as threatened, or of regional conservation significance, are maintained or enhanced – based on survey, monitoring and observation.
- Increased knowledge of the Park's native wildlife.

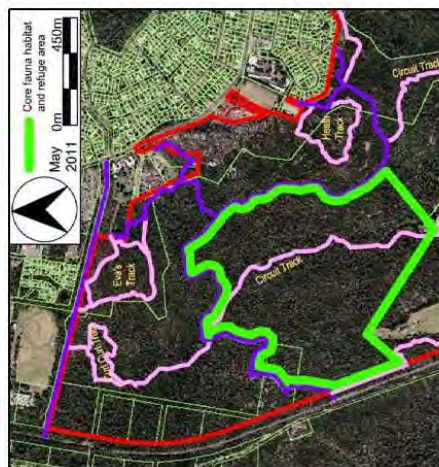


Figure 12 Core fauna habitat and refuge area

Issue: **WEEDS, PESTS AND INTRODUCED ANIMALS**

Goal: Minimal weed and pest numbers and impacts within the Park, and controlled access by approved domestic animals.

Objectives:

A. To reduce the occurrence and impacts of weeds and pests within the Park.

B. To manage domestic animals and their impacts on and within the Park.

Management Actions, Priorities and Responsibilities (WP):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
WP1	<i>Bush regeneration will be used as a primary form of weed control and habitat restoration within the park. (A)</i> Continue to prepare and implement a rolling programme of weed control and bush regeneration efforts within the Park, with adequate on-going commitments to follow-up works at treated sites (both existing sites and future sites) to ensure effectiveness. Priorities for these measures will include: <ul style="list-style-type: none"> declared noxious weeds, and environmental weeds with a high potential for spread; vegetation communities of high conservation significance; habitats/populations of native flora and fauna species of high conservation significance; areas of new weed incursion and/or high resilience disturbed sites and existing weed infestations; areas vulnerable to weed invasion/spread (such as creeklines, roadsides, tracksides and major visitor nodes); park boundaries; and visitor use areas. (A) 	n/a	HIGH continuing	Park management Council
WP2		High	HIGH continuing	Park management Council (Volunteers)
WP3	<i>Bush regeneration and weed control efforts will be linked to stormwater management measures, wherever possible, for maximum effectiveness. (A)</i> A monitoring programme will be prepared and implemented targeting areas vulnerable to the introduction and spread of weeds – including the risk of aquatic weed introduction or spread in/on the waterbody. This will include regular monitoring of the waterbody, Park boundary and high visitor use areas as well as periodic monitoring of Park access roads, fire trails and tracks/trails. (A)	Negligible	HIGH continuing	Park management Council
WP4		Minor	Medium	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
WP5	Continue to participate in co-ordinated regional pest animal control programmes, as well as Council initiated control actions. Foxes, Feral Cats and Rabbits will be priority pest species for control efforts. (B)	Moderate	HIGH continuing	Park management Council
WP6	Continue the periodic monitoring of pest animal populations to inform and target control measures. (B)	Minor	Medium continuing	Park management
WP7	Dogs - <i>excluding guide and assistance dogs - will continue to be prohibited from the Park's internal road network, carparks, and all picnic areas. Dogs will not be permitted to enter any part of the waterbody. This will include regular visitation by Council rangers to 'hotspot' areas such as Nyrange Rd firetrail. (B)</i>	n/a	Medium continuing	Park management Council
WP8	<i>Dogs will be permitted on the Park's track and trail network and on the modified Park edges of the open/grassland Asset Protection Zones along the eastern and southern boundaries, but only if on a leash and under full control. This policy will be periodically reviewed - especially in regard to taking dogs into the Park's more natural areas, possible impacts on the area's birds, visitor safety and nuisance issues, and the perceptions of other visitors - and dogs may subsequently be banned from all or part of the Park. Dog owners/walkers will be required to collect and remove all dog faeces from the Park. (B)</i>	Minor	Medium continuing	Park management Council
WP9	<i>Other domestic animals/pets, including horses, will be prohibited from the Park, and the relevant Council by-laws notified and enforced within the area (by Park and Council staff). (B)</i>	Minor	Medium continuing	Park management Council

Park neighbour programmes (refer section S) and catchment management actions (refer section C) will also contribute to managing weeds and pests and their impacts within the Park.

Performance Measures and Outcomes:

- Weed control and bush regeneration programme in place and regularly reviewed.
- Weeds and pest species regularly monitored.
- Reduction in the extent of weed degraded bushland – based on monitoring, observation and bush regeneration team reporting.
- Reduced incidence of new weed infestations/introductions – based on monitoring, observation and bush regeneration team reporting.
- Participation in regional feral animal control programmes
- Reduced populations of, and adverse impacts of, pest animals – based on monitoring and observation.
- Dogs and other domestic animals effectively managed within the Park – with fewer incidents involving unleashed dogs.

Value: CATCHMENT AND WATER QUALITY

Goal: A protected and managed catchment that contributes to high water quality in Manly Dam, ensuring that the water body is maintained as an important recreational and environmental resource and operates effectively as a flood management asset

Objectives:

- A. To assist in managing water quality in Manly Dam;
- B. To assist in managing the quality of stormwater entering the Park
- C. To manage water quality in the dam suitable for swimming and other "primary contact" uses.
- D. To collaboratively manage water levels in the dam to meet flood management and other water users requirements, while also catering for recreational use and aesthetics.

Management Actions, Priorities and Responsibilities (C):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
C1	<i>Maintaining the greater majority of the Park as bushland will be an important contributor to maintaining water quality in the Dam (refer Section V). (A, C)</i>	n/a	HIGH continuing	Park management Council
C2	The Trust will encourage Council to identify off-Park pollutant sources and major stormwater source/discharge points within the Dam's catchment and progressively undertake (if on Council land) or encourage (if on other tenures) water quality improvement measures and improved stormwater management. Off-Park stormwater and water quality management measures could include signage, "drain stencilling" and other community awareness measures as/where appropriate. (B, A, C)	Moderate	HIGH	Trust Council
C3	The Trust will encourage Council to maintain existing water quality improvement measures on feeder creeks, drainage lines and the urban stormwater system within the Dam's catchment. Install additional stormwater management and water quality improvement measures where warranted (locating any works/infrastructure off-Park as far as possible). (B, A, C)	Moderate	HIGH continuing	Trust Council

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
C4	The Trust will encourage Council to carry out a risk assessment of creek and drainage lines entering the Park to assess the likelihood of toxic materials from a traffic or industrial accident, or other source, entering these watercourses and then the Park. Install interception ponds or other preventative measures (locating any works/infrastructure off-Park as far as possible) where required according to a prioritised programme. (B, A)	Minor (Moderate if works required)	Medium	Trust Council Other agencies
C5	The Trust will encourage Council to establish a reporting and response system, involving Council and notification from other appropriate agencies, in case of an accident that might pollute the creeks or stormwater entering the Park. (B, A)	Negligible	Medium	Trust Council Other agencies
C6	Periodically monitor creeklines and stormwater channels entering the Park for evidence of altered flow regimes and possible pollutants – such as altered/increased flow rates, increased erosion or deposition, gross pollutants, turbidity, or water surface slicks/sheen. (B, A, C)	Minor	Low continuing	Park management Council
C7	The Trust will encourage Council to survey roads and streets adjoining the Park and identify road edge conditions which allow overland flow into the Park's bushland. Prioritise roads for kerb and guttering to re-channel overland flow into the managed stormwater system. (B, A)	Minor	Low	Trust Council
C8	Periodically monitor groundwater from the former landfill site under the Wakehurst Golf Course – and encourage Council to monitor groundwater from the former landfill site under Aquatic Reserve – for the levels of leachate, and other contaminants. Identify and undertake any remediation or control measures, where practical and in collaboration with other agencies, as informed by monitoring results. (A, C, B)	Moderate	Medium continuing	Council Park management Trust
C9	<i>Liaise with Sydney Water regarding the condition and maintenance/upgrading of the sewer main through the Park, and reporting leak detection and repair response times as well as site clean-up/remediation. (A, C)</i>	Negligible	Low continuing	Park management Council Sydney Water
C10	Continue water quality monitoring within the Dam – for algal levels, faecal coliform bacteria and other pollutants – as a part of Council's wider water quality monitoring programme. Undertake more frequent or additional water quality monitoring within the Dam as/when warranted, particularly faecal coliform monitoring. Apply the Australian and New Zealand Environment Conservation Council (ANZECC) revised <i>Australian and New Zealand Guidelines for Fresh Water Quality</i> (2000) as the standard for assessing water quality in the Dam. (A, C)	Moderate	HIGH continuing	Council Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
C11	Continue use of the Council-managed propeller attached to the Dam wall, as a means of preventing or reducing algal blooms in the lower Dam. (C, A)	Minor	HIGH continuing	Park management
C12	Advise visitors - via on-site and off-site/pre-visit means - of any water quality issues and restrictions/recommendations regarding recreational use of the waterbody, when required in response to water quality monitoring and major rainfall/inflow events. (C)	Minor	HIGH continuing	Park management Council
C13	<i>Liaise with the Office of Environment and Heritage regarding possible inclusion of the Dam on that agency's "Harbourwatch" or "Beachwatch" water quality advisory system. (C)</i>	Negligible	Low	Council OEH
C14	<i>Co-operate with other water users to maintain water levels in the Dam within an appropriate range for effective flood mitigation as well as for environmental and aesthetic purposes and to meet the requirements of the other water extractors (including environmental flows in Manly Creek and downstream water users) (refer section O41). (D)</i>	Negligible	HIGH continuing	Council Park management Other agencies
C15	Continue use of the Council-managed scour valve on the Dam wall to help regulate water levels in the dam and to provide for environmental flows downstream in Manly Creek. (D)	Negligible	Medium continuing	Park management Council

Park neighbour programmes (refer section C1) will also contribute to managing water quality within the Park.

Performance Measures and Outcomes:

- Waterbody continues to meet accepted standards for swimming – based on results of blue-green algae and other water quality testing.
- Improved quality and management of stormwater entering the Park – based on sediment, contaminants and gross pollutant levels.
- Groundwater from old landfill sites monitored, and leachate/contaminants managed to minimise impacts on waterbody and Park values.
- Dam water levels managed to effectively meet multiple objectives across all water users – based on water level monitoring and satisfaction of usage requirements.

Value: BUSHLAND LINKAGES

Goal: Improved links to adjacent or nearby bushland reserves, providing opportunity for fauna movement and the genetic exchange.

Objectives:

- A. To maintain and enhance links to adjacent or nearby natural areas.
- B. To support the protection of native flora and fauna populations both within the Park and within adjacent or nearby natural areas.

Management Actions, Priorities and Responsibilities (BL):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
BL1	<i>Maintain sections/borders of bushland corridors within the Park and/or links to surrounding natural areas. Avoid siting new tracks/trails and facilities, or otherwise disturbing bushland, where this would compromise links to adjacent or nearby natural areas. (A)</i>	Negligible	Medium continuing	Park management Council Other agencies
BL2	<i>The Park's western boundary (opposite Garigal National Park), north-western areas (linking across the Warringah Aquatic Centre site and Aquatic Reserve), eastern boundary (adjacent to Southern Cross Way), and south-east corner (connecting to Condover Reserve) are priority areas for maintaining or reinforcing wildlife corridors or bushland links. (A, B)</i>	Negligible	Medium continuing	Park management
BL3	<i>The Trust will encourage Council to continue – amongst other tree planting initiatives – an indigenous street tree planting programme for streets neighbouring and around the Park (where appropriate, and at least maintaining a minimum native to non-native species ratio and excluding problem exotic species) to provide greater opportunity for fauna movement between the Park and other nearby natural areas. (A)</i>	Minor	Medium	Trust Council Park management

Park neighbour programmes (refer section C) and co-operating with other agencies (refer section OA) will also contribute to maintaining and improving links to adjacent or nearby bushland reserves.

Performance Measures and Outcomes:

- Links to surrounding natural areas are maintained and enhanced.
- Observed increased incidence of indigenous street trees in areas around the Park.

Value: LANDSCAPE AND SCENIC VALUES

Goal: A natural landscape of high scenic quality, from both within the Park and when viewed from outside areas.

Objectives:

- A. To maintain and enhance the scenic values of a large natural bushland area in an urban context.
- B. To promote the maintenance of the Park's largely undeveloped bush skyline, as seen from internal vantage points and visitor use areas.
- C. To maintain the Park as a "peaceful green oasis" with a sense of the being within a natural environment/setting, without the visual and land use intrusions of the urban environment

Management Actions, Priorities and Responsibilities (L):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
L1	Maintaining the greater majority of the Park as bushland will be an important contributor to protecting its scenic qualities and views (refer Section V). (A, C)	n/a	HIGH continuing	Park management Council
L2	The Trust will encourage Council to investigate appropriate planning controls that may be applied in adjoining urban areas (within the Park's visual catchment) to ensure retention of the natural skyline as seen from within the Park and especially from key visitor use areas, and to minimise the visual intrusion/impacts of residential and other urban developments. (B, C)	Negligible	HIGH	Trust Council
L3	The Trust will encourage Council to identify within Council's planning and development approvals system those properties or areas surrounding the Park where development applications will be referred to Park management for comment. (B, C)	Negligible	Medium	Trust Council Park management
L4	Maintain the current dispersed character and largely bushland setting of the existing picnic areas and internal carparks, as well as the small-scale and low-profile character of Park buildings and infrastructure. (A, B)	n/a	HIGH continuing	Park management
L5	Possible impacts on the landscape and scenic values will be considered in all future Park developments – at all scales from tracks/trails to new structures or facilities (and including consideration of the visual impacts of visitor use – such as carpark "glare" and people in the landscape). (A, B)	Negligible	Medium continuing	Park management Council Other agencies

Performance Measures and Outcomes:

- No further visual intrusion/impacts on Park's skyline due to urban development – as assessed by photopoint recording.
- Consideration of Park's visual qualities included in Council's planning and development approvals system.
- Existing low-key bush-setting character of Park maintained – as determined by user/community feedback and landscape/visual assessments.

5.3.1 Cultural Heritage

Value: ABORIGINAL CULTURAL HERITAGE

Goal: Protection of Aboriginal cultural heritage sites and values within the Park, and promotion of Aboriginal heritage to Park visitors.

Objectives:

- A. To manage Aboriginal cultural heritage sites and values in accordance with *National Parks and Wildlife Act 1974*.
- B. To reduce the deterioration of Aboriginal cultural heritage sites within the Park.
- C. To increase visitor awareness of Aboriginal cultural heritage and of the continuing importance of the Park to Aboriginal people today.
- D. To work with appropriate Aboriginal people and groups in management of the Park's Aboriginal cultural heritage sites and values.

Management Actions, Priorities and Responsibilities (ACH):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
ACH1	<i>Ensure Aboriginal heritage sites are appropriately managed throughout the Park, as consistent with the National Parks and Wildlife Act 1974. (A)</i>	Minor	HIGH continuing	Park management
ACH2	Actively manage those Aboriginal heritage sites (in the non-leasehold areas of the Park) which are being impacted by visitor access, or natural factors (such as runoff or overgrowth), to reduce the deterioration and enhance the level of protection of these sites. (A, B)	Minor	HIGH continuing	Park management
ACH3	<i>Liaise with the Office of Environment and Heritage as well as appropriate Aboriginal people/groups (e.g. the Metropolitan Local Aboriginal Land Council, Aboriginal Heritage Office and local Elders) regarding the management and protection of Aboriginal heritage sites within the Park. (A, B, D)</i>	Negligible	Medium continuing	Park management Council Other agencies

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
ACH4	Identify locations/features of high archaeological sensitivity – where there is a greater likelihood of Aboriginal heritage sites remaining (such as rock platforms, creeklines and rock overhangs) – and apply additional precautions for Park maintenance or development works in these locations. (A)	Minor	Medium	Park management
ACH5	Provide advice, with reference to the Office of Environment and Heritage, to the Wakehurst Golf Club Limited regarding the management of known, and potential, Aboriginal heritage sites within the Wakehurst Golf Course lease area (refer section WGC6).	Negligible	Medium continuing	Park management Other agencies
ACH6	Continue to strategically limit visitor knowledge of the location of and access to Aboriginal heritage sites. This is the principal management tool and means of protecting these places. (A, B)	Negligible	Medium continuing	Park management Council
ACH7	Actively involve Aboriginal people in protection and presentation of the Park's Aboriginal cultural heritage. (D, A)	Minor	Medium continuing	Park management
ACH8	Provide interpretive and educational material/resources regarding the Park's use by Aboriginal people, surviving Aboriginal evidence (generically) and continuing importance for Aboriginal people today. (C)	Minor	Medium	Park management Council
ACH9	Investigate possible Aboriginal sites that may be accessed for visitor appreciation – where supported by the Office of Environment and Heritage as well as appropriate Aboriginal people/groups (e.g. the Metropolitan LALC and Aboriginal Heritage Office) and only where adequate management can be provided to protect and present these sites. (C, D, A)	Minor	Medium	Park management Council Other agencies
ACH10	Investigate funding to undertake a systematic survey to identify and record Aboriginal heritage sites. Undertake survey if funding can be secured, and involve the local Aboriginal community in the survey process. (A, D)	Negligible	Low	Park management Council

Performance Measures and Outcomes:

- Compliance with relevant legislation.
- Protective management of Aboriginal heritage sites – as assessed by periodic inspection and condition assessments (in collaboration with appropriate Aboriginal people/groups).
- Suitable public information available regarding Park's Aboriginal heritage values.
- Reduced deliberate and inadvertent visitor damage to Aboriginal heritage sites – as assessed by periodic inspections.
- Effective liaison with the OEH, Metropolitan LALC and Aboriginal people/groups.

Value: **HISTORIC (NON-ABORIGINAL) HERITAGE**

Goal: Recognition and management of historic heritage features, and greater opportunities for visitors to appreciate the Park's recent history and historic features.

Objectives:

- A. To identify and manage historic heritage sites.
- B. To increase visitor awareness of the Park's past and historic heritage sites.

Management Actions, Priorities and Responsibilities (HH):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
HH1	Identify and document historic heritage sites/features within the Park and provide appropriate management and protection for these features where warranted. (A)	Minor	Low	Park management Council Other agencies
HH2	Give greater prominence to the Park's past, and social history, in information and interpretation efforts. (B)	Minor	Medium	Park management Council

Performance Measures and Outcomes:

- Increased knowledge, and active management (if necessary) of historic heritage sites/items.
- Suitable public information available regarding the Park's historic heritage values.

Value: WAR MEMORIAL AND COMMEMORATIONS

Goal: A respectful venue for war memorials and commemorations, and recognition of the Park's origin as a war memorial reserve.

Objectives:

- A. To maintain the War Memorial and Remembrance Point facilities as a key part of the Park's identity.
- B. To continue to accommodate military and related commemorations within the Park.
- C. To improve awareness of the Park's establishment as a War Memorial Park after World War I.

Management Actions, Priorities and Responsibilities (WM):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
WM1	Improve the landscaping and presentation of the existing war memorial located in Picnic Area 1, and the general area and surrounds of Remembrance Point, recognising this memorial as the principal commemorative features/location within the Park. (A)	Minor	HIGH	Park management Manly Warringah War Memorial Park Remembrance Trust
WM2	No additional memorials, other than those already approved, will be established within Picnic Area 1. (A)	n/a	Medium continuing	Park management Council
WM3	Promote the use of the reserve name "Manly Warringah War Memorial Park", as well as Manly Dam, in promotional and interpretive material for the Park. (C)	Negligible	Medium continuing	Park management Council Trust
WM4	Facilitate continued use of the Park for remembrance ceremonies, with the scale of events to be in keeping with the established Park values and low-key setting. (B)	Negligible	HIGH continuing	Park management Council

Performance Measures and Outcomes:

- Improved presentation of Remembrance Point area – as informed by user/community feedback.
- Continued commemorative uses of Park.
- Additional available information, and greater community acknowledgement, of the Park's memorial/commemorative origins and values.

5.3.2 Visitor Use, Recreation and Enjoyment

Value: **TRACKS AND TRAILS**

Goal: A system of tracks and trails that enable a variety of recreational activities, and provide opportunities to experience and appreciate the Park's natural environment, without significant impact on Park values or user conflicts.

Objectives:

- A. To provide sustainable opportunities for dispersed track-based recreational, community and educational uses, predominately in a bushland setting and without significant impact on the Park's natural/cultural heritage, landscape and scenic values.
- B. To provide for the multi-use of fire trails and other tracks where appropriate.
- C. To offer a range of recreational uses – with varying experiences, degrees of challenge and exertion - and continue to cater for both walking and mountain biking within the overall track/trail system.
- D. To provide, as far as practical, a safe track/trail network as consistent with the intended uses and with minimal conflict between users.
- E. To provide for visitor safety

Management Actions, Priorities and Responsibilities (TT):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
TT1	<i>The current extent and configuration of the existing recreational tracks/trails network within the Park will generally be retained – with the additional or modified track/trail sections, changes to approved uses, as set out below (and in sections DU and A) as well as minor re-routings and other works. (A, B, C, D)</i>	n/a	HIGH continuing	Park management
TT2	Continue to maintain a network of safe and sustainably managed routes – of differing track standards/conditions, distance/duration and character – within the Park, to offer a choice of experiences. This network will include bush tracks and fire trails in the Park's bushland areas, sealed or high standard pathways in the Park's more developed areas or along the Park's margins, and cleared asset protection zones along the Park's margins. Track/trail re-routings and works may be undertaken as required for user safety and to minimise adverse impacts on the Park's values (in addition to the works set out below, and in sections DU and A). Informal and unauthorised tracks will be closed and rehabilitated (A, B, C, D, E)	Moderate	HIGH continuing	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
TT3	<i>All fire trails within the Park's bushland zone will normally be available for use by walkers (except when closed due to management, safety or other reasons – refer section TT19 below). (B, E)</i>	Negligible	Medium continuing	Park management
TT4	Upgrade track standards/conditions, signposting and interpretation for all tracks, in particular the Nature Trail and Wildflower Walk to cater for less experienced and less confident users and offer a convenient bushland experience close to the picnic areas. (C, A, E)	Moderate	Medium	Park management Council
TT5	Develop a track link between the Curl Curl Track and Eva's Track in the north of the Park, via the scenic waterfall on the upper reaches of Curl Curl Creek, to provide a greater variety and continuation of tracks in that area. (A, C, D)	High	Medium	Park management Council
TT6	Mountain biking will be permitted on the existing well-established and well-used "loop route" – as shown on Figure 13 and the Masterplan at Figure 11. This route is predominantly fire trails, wide bush tracks and cleared asset protection zones – which can be shared with other users, as has been the situation for many years. It also includes some sections of narrower bush tracks that require various works before they are suitable for shared use, as determined by the 2011 risk assessment. These narrower bush track sections will be approved for mountain bike use only in the immediate term - as shown on Figure 13 and on the Masterplan at Figure 11 (also refer sections TT10 and TT12). Following completion of the works outlined in sections TT10 and TT12 below, the entire mountain bike loop may be shared by mountain bikers and walkers in accordance with the management actions outlined in this section. The full loop route includes several sections outside the Park boundary, may also be under Council management as local roads and open space. (C, B, D, A, E)	High	HIGH continuing	Park management
TT7	The approved mountain biking loop route will be clearly identified on-site to all visitors along with appropriate use and behaviour messages, including displaying a "biking code of conduct" at strategic points, and safety warnings. This will be done through orientation/entry signage, route identification/naming and reinforcement/reminder signage, route marking, direction marking, or other measures as most effective. (D, B, E)	Moderate	HIGH continuing	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
TT8	Existing track treatments on the approved mountain biking loop will be maintained as required – and new or additional track treatments installed – for user safety, to minimise adverse impacts on the Park's values, and to minimise the likelihood of detouring/avoidance and the development of unauthorised alternative tracks (input will be sought from mountain bikers, and other relevant users, regarding the design and siting of track treatments). (D, B, A)	Moderate	Medium continuing	Park management
TT9	<i>Liaise with representatives of mountain bike riders regarding sustainable management and maintenance of the approved mountain biking loop, including catering for a cross section of riders and abilities as well as providing for rider and visitor safety (refer section C).</i> (D, B, A, C, E)	Minor	Medium continuing	Park management Council

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
TT10	<p>The following priority works, or other appropriate management measures, will be undertaken in the short term on that section of the approved mountain biking loop from Kirkwood Street, then adjacent to Wakehurst Parkway, north to the Park's main fire trail (known as The Trig Track, as shown on Figure 13 and on the Masterplan at Figure 11):</p> <ul style="list-style-type: none"> • chicanes, or other slowing/warning devices, and signage will be installed at each end of this section, alerting all users to the shared narrow track and applicable precautions; • treatments to improve user safety and reduce potential accidents/conflicts on the higher risk parts of this track will be implemented – such as measures to reduce mountain bike speeds on sharp/blind curves, vegetation trimming to improve sightlines on sections (Park Managers will liaise with mountain bikers, and other relevant users, as to the most effective means to reduce mountain bike speeds and increase user safety – for possible application here and elsewhere in the Park); and • specifying a clockwise (south to north) travel direction only, for mountain bikes. <p>Such works will also be subject to an environmental constraints analysis and environmental assessment, however user safety and risk management will be priority considerations.</p> <p>Prior to the completion of these, or other appropriate, works this section of track will be managed as a mountain bike route only – with walkers and other users prohibited. Following the completion of these works this section of track may be managed as a shared bush track for mountain bikers, walkers and other users. (D, A, C, B, E)</p>	Moderate	HIGH	Park management
TT11	<p>Short sections of alternative track routes, either shared use or for walkers only, may be established around more challenging "technical" sections of existing track on The Trig Track once it is being managed for shared use. These "technical" sections will be appropriately identified on-site as requiring higher mountain biking skill levels. Input will be sought from mountain bikers regarding the identification and management of these "technical" track sections. This approach may also be used on other parts of the approved mountain biking loop. (D, A, C, E)</p>	Minor	Medium	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
TT-12	<p>That section of the approved mountain biking loop from the Roosevelt Avenue fire trail access in the west to Cootamundra Drive in the east (as shown on Figure 13 and on the Masterplan on Figure 11) will be managed, in the immediate term, as a mountain bike route only – with walkers and other users prohibited. This section of track will be upgraded or replaced, in the short term, to make this link suitable, and approved, for shared use by mountain bikers, walkers and other users. This will be realised by:</p> <ul style="list-style-type: none"> • implementing a similar suite of priority works and management measures as identified for The Trig Track (refer section TT10 above) on this section of narrow bush track, including route realignment where necessary and installing additional chicanes or mountain bike slowing measures in the vicinity of the Cootamundra Drive playground; or • establishing a new wider section of shared track (suitable for shared use by mountain bikers, walkers and others) on a more direct route across the gully below Cootamundra Drive to reconnect with the track network below Forbes Place or Monserra Road (and avoiding the Cootamundra Drive playground); or • establishing dual tracks in this area, with a dedicated mountain bike only route on a more direct lower alignment to Forbes Place or Monserra Road and away from nearby residences, and a walkers and other users only route that connects via Cootamundra Drive and the playground; or • a combination of these measures. <p>Such works will also be subject to an environmental constraints analysis and environmental assessment, however user safety and risk management will be priority considerations.</p> <p>Mountain biker access to the technical section and rock ledge/jump (known as “the nineteenth hole”) will be provided for in each of the above alternatives. Any new track construction in this area will also be accompanied by weed control and bush regeneration measures in the degraded gully below Cootamundra Drive as an important part of these works. (D, A, C, B, E)</p>	Moderate	HIGH	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
TT13	User safety and erosion on the two sections of the approved mountain biking loop to be upgraded or redeveloped as shared routes (for mountain bikers, walkers and other users) – the Trig Track and in the Roosevelt Avenue/Cootamundra Drive to Nyrang – Wandella Rd area – will be monitored for at least 12 months following the opening of these routes to shared use and the risks associated with shared use of these sections reassessed at the end of this period. If the safety record of these sections, or their risk assessment, is unacceptable then either section may revert to mountain bike use only or additional safety measures implemented. (D, A, C, B, E)	Minor	HIGH	Park management
TT14	The short section of track from Kirkwood Street to the vantage point (and Wakehurst Golf Course service access) east of the water reservoirs will be upgraded to accommodate both walker and mountain bike traffic. Duplication of this short section of the approved mountain biking loop track, or other route realignment in this area (including east to Bantry Reserve and Upper Clontarf Street), will be considered to separate walkers and mountain bikers. (A, D, E)	Minor	Medium	Park management
TT15	<i>Liaise with the neighbouring institutions regarding possibly re-routing that section of the approved mountain biking loop further south (downslope, and off the Park) and away from residences at the south end of Marooa Crescent. Measures to improve user safety will also be discussed with neighbouring institutions in relation to that section of the approved mountain biking loop outside the Park in the Marooa Crescent, Wandella Road and Mermaid Pool area. (D, A, E)</i>	Negligible (Minor to Moderate if implemented)	HIGH	Park management Council Other agencies
TT16	Investigate the practicality and implications of relocating that section of the identified mountain biking loop now located outside the Park along the northside of Manning Street (opposite Balgowlah North Public School) to a new section of mountain bike only track a short distance inside the Park boundary in this area. Implement if feasible, and the environmental impacts are acceptable and funding available. (D, A)	Negligible (Moderate if to be implemented)	HIGH	Trust Park management
TT17	Night mountain bike riding will not generally be permitted in the Park. (A, D, E)	Negligible	HIGH continuing	Park management
TT18	Investigate and implement, if possible, rerouting track away from, Duffys Forest EEC west of Wakehurst Golf clubhouse.	Minor	HIGH continuing	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
TT19	<i>Continue to allow the use of the tracks and trails network for community and recreational uses and events – where consistent with the values of the surrounding Park areas – with prior approval (and subject to permit approval, with conditions, as appropriate – refer section LL), where other users are not unduly disadvantaged and Park neighbours unduly effected, without unacceptable impacts on the tracks/trails and associated infrastructure. (Refer to section LL in relation to managing commercial activities on the tracks and trails network.) (A, C)</i>	Negligible	Medium continuing	Park management
TT20	All approved tracks and trails will be maintained through a programmed system of inspections and maintenance, supported by responsive maintenance works as required. All maintenance, preventative and other works will be documented. Informal and unauthorised tracks will be closed and rehabilitated – and track alignment, design and treatments will endeavour to minimise the likelihood of the creation of unauthorised/alternative tracks. (A, B, D)	Moderate	HIGH continuing	Park management
TT21	The approved mountain biking loop and other tracks/trails may be temporarily closed due to wet weather, for maintenance or other Park management operations, for visitor safety, or as determined by the Park Manager. Closures of the mountain biking track will be notified via Council's web site and social media pages. (A, B, D, E)	Negligible	HIGH continuing	Park management Council
TT22	<i>The Trust will encourage Council to liaise with Manly Council regarding that section of the approved mountain bike loop located between Bartry Reserve, the Seaforth Bowling Club and Kirkwood Street (within the Manly Local Government Area) to ensure a co-ordinated and consistent approach to the route's maintenance, management and use. (D, A)</i>	Negligible	HIGH continuing	Trust Council Park management Manly Council
TT23	<i>The Trust will encourage Council to liaise with the University of NSW regarding that section of the approved mountain bike loop located on the university's land to ensure a co-ordinated and consistent approach to the route's maintenance, management and use. (D, A)</i>	Negligible	Medium continuing	Trust Council Park management University of NSW
TT24	<i>Liaise with other agencies (such as the Rural Fire Service, electricity utilities and Sydney Water - refer section U1) as required regarding maintenance scheduling, standards and environmental safeguards that should, preferably, be applied on those sections of the Park's fire trail and tracks network that are subject to maintenance by other agencies.</i>	Negligible	Medium continuing	Park management Council Other agencies

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
TT25	<i>The Trust will encourage Council to liaise with the National Parks and Wildlife Service regarding linking tracks between the Park and Garigal National Park. (A, C)</i>	Negligible	Low	Trust Park management Council NPWS (OEH)

Performance Measures and Outcomes:

- Track network maintained at least at current extent – as assessed by occasional route mapping.
- Maintenance programme in place with tracks maintained to planned/determined standards – as assessed by regular track condition audits, works reporting and user feedback.
- Track safety standards achieved – as assessed by number of reported incidents/accidents.
- Track use restrictions (including compliance with designated mountain bike circuit) and track closures observed/enforced – as assessed by observed compliance levels, and required enforcement actions.
- Priority works undertaken on The Trig Track and Roosevelt Avenue/Cootamundra Drive section of mountain bike circuit – works complete, tracks safe and re-opened for shared use when approved.
- Additional track upgrading works, and new links, progressively implemented – works complete.
- Track usage levels maintained, or growing, but within acceptable environmental impact limits – as assessed by regular track use surveys and impacts monitoring.
- Increased stakeholder involvement in track management – as assessed by participation hours and projects.
- Progress made in collaborative track management with adjoining landholders.

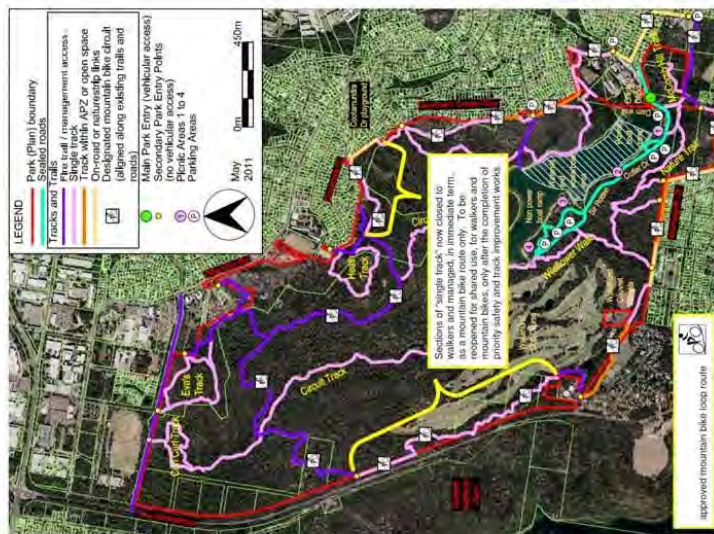


Figure 13 Approved mountain bike loop route

- Value:** **WATERBODY**
- Goal:** A waterbody that is enjoyed for recreation - providing for safe, equitable and sustainable visitor use and enjoyment without impairing other Park values.
- Objectives:**
- A. To provide for equitable recreational access to and use of the waterbody, catering for a range of sustainable water-based activities, events and uses.
 - B. To provide for visitor safety.
 - C. To manage impacts from recreational use of the waterbody on surrounding Park values and uses.

Management Actions, Priorities and Responsibilities (W):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
W1	<i>Continue to ensure that water quality in the Dam meets accepted recreational use standards – through catchment management (bushland protection, stormwater management and off-Park measures) and water “mixing” use of the propeller (refer Section C). (A, B)</i>	(refer Section C)	HIGH continuing	(refer Section C)
W2	<i>Manage the Dam waterbody as a multi-use area catering for a variety of recreational uses (as below) - as well as visual, environmental and flood management roles (refer Sections C and L). (A, B)</i>	n/a	HIGH continuing	Park management Council Other agencies
W3	<i>The existing designated and marked waterskiing and powerboat zone will remain in place and at its current extent. (A, B)</i>	Minor	HIGH continuing	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
W4	Standard approved times for waterskiing and powerboat use within the designated waterskiing and powerboat zone, per week, will be as follows: <ul style="list-style-type: none"> three (3) weekdays and Saturday, during daylight saving times – 9am to 6pm; and three (3) weekdays and Saturday, during non-daylight saving times – 9am to 4pm. (A, B, C) Occasional waterskiing and powerboat use of the designated waterskiing and powerboat zone, outside of these standard approved days and times, may be permitted on a case-by-case basis and with prior approval including for major and special event uses. <i>A maximum of two power boats will be permitted to use the designated waterskiing and powerboat zone at any given time. (A, B, C)</i>	Minor	HIGH continuing	Park management
W5	<i>A maximum of two power boats will be permitted to use the designated waterskiing and powerboat zone at any given time. (A, B, C)</i>	Negligible	HIGH continuing	Park management
W6	<i>Waterskiing or powerboat use will not be permitted on the waterbody on two (2) weekdays and Sundays (except by prior approval refer section W4), and other non-motorised users will be permitted access to and through the designated waterskiing and powerboat zone on these days. (A, B, C)</i>	Minor	HIGH continuing	Park management
W7	<i>Waterskiing or powerboat use will not be permitted on Christmas Day, Australia Day, New Years Day, Anzac Day and Remembrance Day (except by prior approval refer section W4). (A, B, C)</i>	Negligible	Medium continuing	Park management
W8	<i>Waterskiing and powerboat use may be cancelled, at the Park Manager's discretion, on other public holidays, peak use days or in response to park crowding or safety concerns as well as to accommodate special events or permit-approved uses of the waterbody. The Park Manager will also have the discretion to extend approved waterskiing times, or for permit-approved uses of the waterbody. (A, B, C)</i>	Negligible	HIGH continuing	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
W9	<p><i>The Manly Warringah Water Ski Club's use and management of the designated waterskiing and powerboat zone will be formalised under an annual licence/agreement with Council, to be in place within one year of this Plan's commencement. The licence/agreement will address, among other matters:</i></p> <ul style="list-style-type: none"> • the Club's usage rights and management role in relation to the approved designated waterskiing and powerboat zone; • the timing and duration of waterskiing slots; • the fair and equitable allocation of all available waterskiing slots between Club members and non-Club members (across weekdays and Saturdays, mornings and afternoons, and over any single one month period); • managing access to and use of the ski jump for competitions and by non-Club members; • booking protocols for non-Club members (such as promotion and intending user awareness, how far in advance bookings will be allocated, expression of interest procedures if warranted and measures for allocating over-subscribed slots, and other operational matters) to ensure transparency and fairness in the allocation of slots; • safety requirements and applicable rules and regulations for use; • usage fees and charges, for both Club-members and non-Club members; • "in-kind" contributions to the area's management by the Club, if appropriate; • boat registration and crewing requirements; • insurance requirements – addressing the type and level of coverage required, and the situations/locations for which coverage is necessary (rather than nominating a preferred insurer); • the provision and maintenance of on-water infrastructure (specifically the ski jump, zone boundary marker buoys, slalom course markers and other assets as agreed with Council); • compliance and infringement procedures; and • annual reporting. <p><i>The licence/agreement will be subject to annual review or as required. (A, B, C)</i></p>	Minor	HIGH	Park management Council

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
W10	<i>If the above licence agreement between the Manly Warringah Water Ski Club and Council is not in place within one year of the commencement of this Plan, recreation management of the designated waterskiing and powerboat zone will revert to Council and use of this area managed at Council's discretion (including its continued use for waterskiing or otherwise). (A, B, C)</i>	Minor	HIGH	Park management Council
W11	<i>If, during the life of this Plan, the Manly Warringah Water Ski Club no longer seeks usage rights and a management role in relation to the designated waterskiing and powerboat zone, recreation management of this area will revert to Council. Council may seek the participation of other interested parties in using and managing this area as a waterskiing venue – applying a similar annual licence arrangement and conditions as described above. Council may also consider managing waterskiing and powerboat use of the zone itself, but only if this can be achieved in a cost-effective manner without compromising other management priorities for the Park or the administrative efficiency of the Council's wider reserves booking system. (A, B, C)</i>	Minor	Medium	Park management Council
W12	Work with the Manly Warringah Water Ski Club and other waterskiing and powerboat users, to develop a code of conduct for waterskiing and powerboating on Manly Dam. The code of conduct for waterskiing and powerboating will be distributed to all booked and intending users of the designated waterskiing and powerboat zone, as well as clearly displayed at the southern (motorised) boat ramp and made available on the Park's (Council's) website. (A, B, C)	Minor	HIGH	Park management
W13	To enable use of the designated waterskiing and powerboat zone Council will be responsible for maintenance and management of the southern (motorised) boat ramp as well as all safety and regulatory signage (both land and water based). (A, B)	Minor	HIGH continuing	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
W14	<i>Non-motorised uses of the waterbody will continue to be permitted in the lower and upper reaches of the Dam (during normal Park opening hours). Non-motorised uses of the designated waterskiing and powerboat zone will be permitted, all day, on two (2) weekdays and Sundays each week (during normal Park opening hours). Non-motorised uses of the designated waterskiing and powerboat zone will be prohibited during standard approved times for waterskiing and powerboat use and during any Council approved events outside of these times. (A, B, C)</i>	Negligible	HIGH continuing	Park management
W15	<i>The lower/eastern end of the waterbody will continue to be managed as the Dam's principle swimming and waterplay area, with shoreline management and other facilities appropriate to support this use. (A, B, C)</i>	Minor	HIGH continuing	Park management
W16	<i>Alert recreational users – through on-site signs and other measures – of the upper/western headwaters of the waterbody to the conservation significance of the artificial wetland community on the Dam's upper reaches, and measures or applicable restrictions to minimise their impacts on this shoreline vegetation. (C)</i>	Negligible	Medium	Park management
W17	<i>Continue to allow the use of the waterbody for community and recreational uses and events – where consistent with the area's values – with prior approval (and subject to permit approval, with conditions, as appropriate – refer section LL), where other users are not unduly disadvantaged. (Refer to section LL in relation to managing commercial activities on or around the waterbody.) (A, B, C)</i>	Negligible	Medium continuing	Park management
W18	<i>Signage and other on-site information, as well as off-site/pre-visit information, will be used to make visitors aware of the safety issues around the waterbody and to take reasonable measures to ensure their own safety. (B)</i>	Minor	HIGH continuing	Park management
W19	<i>Continue to provide suitable lifesaving equipment at strategic locations around the waterbody. (A, B)</i>	Minor	HIGH continuing	Park management
W20	<i>Continue to monitor and manage the waterbody shoreline to minimise any occurrence and effects of wake/wash erosion, undercutting, informal/trample access points, and other pressures. (C)</i>	Minor	Medium continuing	Park management

Performance Measures and Outcomes:

- Waterbody serving as a multiple-use recreation venue – as assessed by observed/approved recreational activities, and user feedback.
- Waterbody usage levels maintained, or growing, but within acceptable environmental impact limits – as assessed by regular usage surveys and impacts monitoring.
- Amended waterskiing and powerboat permitted use timetable in place and operational.
- New annual licence with Manly Warringah Water Ski Club in effect within one year, or specified alternative arrangements in place.

- Infrastructure and facilities, including lifesaving equipment, in place and maintained to support recreational use of waterbody – as assessed by regular facilities and safety audits, and user feedback.

Value: DAY USE AREAS

Goal: Continued management of the Manly Dam picnic areas as a regionally unique and highly valued passive recreation venue, offering predominantly low-key facilities in attractive bushland settings catering for a range of sustainable low-impact uses.

Objectives:

- A. To maintain the Day Use Zone as a series of discrete, and largely separate, picnic/day-use areas.
- B. To offer a range of recreational settings and standards of facilities, while retaining the bushland setting and un-crowded natural character of the picnic precinct as a whole.
- C. To manage Picnic Areas 2, 3 and 4 as bushland setting, low-key and less-developed or formalised venues.
- D. To manage Picnic Area 1 as the more landscaped and developed venue with a higher standard of visitor facilities.
- E. To provide for equitable access to the picnic/day-use areas.
- F. To provide for visitor safety.

Management Actions, Priorities and Responsibilities (DU):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
DU1	<i>The existing four picnic areas, and the extent of mown grass within each picnic area, will not be significantly expanded during the life of this Plan. (A, B, C, D)</i>	n/a	HIGH continuing	Park management
DU2	Picnic Area 1 will continue to be managed as the Park's more developed, landscaped, modified and intensively managed picnic setting. (A, B, D)	Moderate	HIGH continuing	Park management
DU3	Picnic Areas 2, 3 and 4 will be maintained in accordance with their existing character - as low-key, dispersed layout, bushland settings. (A, B, C)	Moderate	HIGH continuing	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
DU4	Wood-burning barbeques will continue to be provided, and firewood will continue to be supplied to centralised points. Use of the wood-burning barbeques will be subject to fire bans/restrictions as necessary (refer section FM5). (B)	Minor	HIGH continuing	Park management
DU5	Refurbish or rebuild the three existing amenities blocks to a more presentable and functional standard, in accordance with Council's Public Amenity Improvement Programme, and improve accessibility. An increase in the footprint of each building is acceptable in any redevelopment/rebuilding of these facilities as long as that increase is in keeping with the intended character of the picnic area in which it is located. The priorities for upgrading will be – the amenity block in Picnic Area 1 (to be the highest standard amenities block in the Park), the amenities block in Picnic Area 3, and the small amenities block in Picnic Area 4. Showers will be included as part of the amenities blocks in Picnic Areas 1 and 3. No amenities block will be developed in Picnic Area 2. (B, C, D)	High	HIGH	Park management Council
DU6	Introduction of pay and display parking system	High	HIGH	Park management Council
DU7	All visitor facilities and infrastructure within the Day Use Zone will be maintained in a safe, serviceable and presentable condition through a programmed system of maintenance and replacement, supported by responsive and opportunistic maintenance works, as required. (A, B, F)	Moderate	HIGH continuing	Park management
DU8	Existing picnic tables will be replaced as maintenance, condition and safety requires. (B)	n/a	HIGH continuing	Park management
DU9	Shade shelters may be built over selected individual picnic tables as needed, especially in exposed sites. Natural shade will also be employed where suitable. (B, C, D, F)	Minor	Medium	Park management
DU10	A high-standard pathway (with a hardened/sealed surface, including boardwalk) will be progressively developed to extend from Picnic Area 1 to Picnic Area 4 - to provide dedicated pedestrian access between these areas, and move pedestrians away from the picnic area access road. (A, B, F)	Moderate	HIGH	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
DU11	Minor improvements to the picnic areas will be progressively implemented – such as signage or fencing upgrading, or installing waste/recycling stations to replace rows of “wheelie bins” – but only in keeping with the intended character and capacity of the individual picnic area in question. (A, B, C, D, F)	Minor	Medium	Park management
DU12	<i>The existing playground in Picnic Area 1 will be retained and maintained. No additional playground facilities will be developed elsewhere in the Day Use Zone. (D, B, F)</i>	n/a	Medium continuing	Park management
DU13	A booking system, with fees, will continue to be offered for picnic tables, group shelters and open space areas within all picnic areas. However some “non-bookable” picnic tables will be retained in each of the four picnic areas, to cater for more casual or impromptu visitor use. The reservation period for picnic table bookings may be reviewed and, if practical, modified to accommodate increased “turnover” and use of the picnic area. (E)	Minor	Medium continuing	Park management Council
DU14	<i>Continually improve the reservation and payment system for picnic table and other bookings. (B, E)</i>	Negligible	Low	Park management Council
DU15	Include advice regarding the table/shelter booking system, and the availability of some unreserved tables on a “first-come” basis in the Park’s pre-visit information. (E)	Negligible	Medium	Park management Council
DU16	<i>Continue to allow use of the existing picnic areas for community and recreational uses and events – where consistent with the areas’ values and character – with prior approval (and subject to permit approval, with conditions, as appropriate – refer section LL), without unacceptable impacts on an area’s on-going amenity and visitor infrastructure, where other users are not unduly disadvantaged. (Refer to section LL in relation to managing commercial activities on the tracks and trails network.) (B, E)</i>	Negligible	Medium continuing	Park management

Performance Measures and Outcomes:

- Day use area usage levels maintained, or growing, but within acceptable social and environmental impact limits – as assessed by regular usage surveys and impact monitoring.
- Existing character of the four picnic areas maintained, and incremental development avoided – as assessed by regular facilities audits and user feedback.
- Visitor facilities/infrastructure within the four picnic areas maintained as safe, serviceable (consistent with relevant standards), presentable and meet community expectations – as assessed by regular facilities audits, and user feedback.
- Amenities blocks refurbished or replaced.

- High-standard pathway constructed from Picnic Area 1 to Picnic Area 4.
- Picnic table and group booking system continuously improved, and some "non-bookable" picnic tables identified.

Value: ACCESS

Goal: Safe, improved, convenient and equitable access to the Park across a range of transport modes.

Objectives:

- A. To ensure safe visitor access.
- B. To accommodate use by the elderly, mobility impaired and people with a disability (both for individuals and groups).
- C. To rationalise and improve the Park's main entrance, and vehicle access/parking within the Day Use Zone.
- D. To provide secondary visitor access points and ready access to the Park from surrounding areas.

Management Actions, Priorities and Responsibilities (A):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
A1	Provide additional accessible parking bays – for elderly and mobility impaired visitors – within the existing car parking areas, and especially in proximity to the more developed facilities of Picnic Area 1. (B, A)	Minor	HIGH	Park management
A2	Redesign and upgrade the Park's main King Street entrance, with provision for improved traffic management at peak times and including a footpath along King Street to provide safe pedestrian access to the Park. The Trust will liaise with Council regarding any works, or elements thereof, for this entry upgrading that would be located on parts of King Street beyond the Park boundary. A concept plan, giving one possible solution for upgrading the main park entry, is shown on Figure 14. (C, A)	High	Medium	Park management Council Trust
A3	Investigate the feasibility of realigning the Sir Roden Cutler VC Memorial Drive (accessing the picnic areas) away from Picnic Area 3 and onto the higher/western side of the existing carpark - to remove through traffic from the picnic area's vicinity. Implement if feasible, and the environmental impacts are acceptable and funding available. (C, A)	Minor (High if to be implemented)	Low	Council Park management Other agencies

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
A4	Maintain the Park's internal roads and carparks through a programmed system of maintenance, supported by responsive and opportunistic maintenance works, as required. (C, A)	Moderate	HIGH continuing	Council Park management
A5	Reseal and upgrade the larger parking area for Picnic Area 1 in the short term – including improved drainage, traffic barriers, signage and other treatments appropriate for a bush-setting carpark. (C, A)	High	Medium	Council Park management
A6	Retain the existing Nyrang Road parking area as a secondary Park access point, but this site will not be expanded during the life of this Plan. (D)	Minor	HIGH continuing	Park management Council
A7	The Trust will encourage Council to liaise with the Roads and Traffic Authority regarding measures to deter roadside parking on Wakehurst Parkway at the north-western entry to the Park's main fire trail (while ensuring that this entry is kept clear as a management and emergency access point). (D, A)	Minor	Medium	Trust Park management Council RTA
A8	The Trust will encourage Council to promote the existing off-street carpark at the southern end of Gibbs Street as a Park access point, but only for use outside school hours of an evening and on weekends. Provide additional screening for adjacent residences if warranted. (D, A)	Minor	Medium	Trust Park management
A9	The Trust will encourage Council to promote the existing off-street carpark on Upper Clontarf Street at the eastern side of Bantry Bay Reserve (before the entrance to the Wakehurst Golf Course) as a Park access point to the approved mountain bike loop – especially as a weekday access point. (D, A)	Minor	Medium	Trust Park management
A10	<i>The Trust will encourage Council to liaise/negotiate with Manly Council regarding the development of a contained informal (unsealed) parking area off Kirkwood Street (within the Manly Local Government Area) as an additional access point to the approved mountain bike loop and the Park generally. Develop if feasible/agreed (as joint project or with possible Council contribution). (D, A)</i>	Negligible (Moderate if to be implemented)	Low	Trust Council Park management Manly Council
A11	Rationalise, upgrade, formalise and/or realign the Park's entry points, which may include new connections to/from Aquatic Reserve playing fields, Wakehurst Parkway, Condover and David Thomas Reserve and investigating dual purpose use for new and existing walking and mountain bike use on/to track network. (D, A)	Moderate	Medium	Park management
A12	Continue to operate a booking system for most picnic tables and group shelters, and open space areas, within all picnic areas (but with some "non-bookable" tables), and also for large group bookings (refer section DU).	(refer section DU)	Medium continuing	(refer section DU)

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
A13	Continue to review opportunities to enhance the Park's accessibility for a broad range of community and user groups. (B)	Negligible	Low continuing	Park management

Performance Measures and Outcomes:

- Additional accessible parking bays in place across all on-park parking areas.
- Larger Picnic Area 1 parking area resealed and upgraded.
- Main King Street entrance upgraded with improved traffic management and pedestrian safety.
- Internal vehicle access and carparking operates safely and efficiently – as assessed by observed congestion, accidents/incidents and user feedback.
- Secondary Park entry points, with carparking, promoted and receiving increased use – as assessed by ad hoc monitoring and observations.
- Park accessible to a broad range of community/user groups – as assessed by regular user surveys/observations, and range of users evident.



Figure 14 Possible upgrading of main Park entry (concept only)

Value: INFORMATION AND INTERPRETATION

Goal: Improved opportunities for visitor awareness provided within the Park and in Park promotional material

Objectives:

- A. To improve visitor awareness in relation to safety, usage and protocols for recreation within the Park and on the waterbody.
- B. To provide interpretive signage along the track and trail system, improving visitor awareness of the Park's natural and cultural heritage and other values.
- C. To ensure appropriate dissemination of information relating to water quality, track closures and other park use and management issues.
- D. To improve on-site face-to-face interpretive services.

Management Actions, Priorities and Responsibilities (I):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
I1	Provide improved welcome, orientation and visitor information signage at the main Park entry. (A, B, C)	Minor	Medium	Park management
I2	Maintain Park entry, orientation, visitor information and regulatory signs at existing and additional secondary Park entry points and other key locations. (A, B, C)	Minor	Medium continuing	Park management
I3	Update the Park brochure, website information and other promotional/pre-visit information as/when required – to ensure that intending visitors have easy access to the latest information concerning the Park. (A, C)	Minor	HIGH continuing	Park management Council
I4	Maintain and update – and supplement where appropriate – the Park's existing comprehensive range of web-based and hard-copy interpretive brochures and information. (A, C)	Minor	Medium continuing	Park management Council
I5	<i>Provide water quality advice to dam users as/when warranted (refer section C).</i>	Negligible	HIGH continuing	Park management
I6	<i>Provide information regarding track closures to Park users as/when required (refer section IT). (C)</i>	Negligible	HIGH continuing	Park management

Performance Measures and Outcomes:

- Positive visitor/user feedback regarding Park information and interpretation.
- Adequate and effective on-site signage maintained – as assessed by regular facilities audits, and user feedback.
- Pre-visit and off-site Park information provided – as assessed by user feedback, and comparable service standards to other Council information provision.

- Current access and safety information provided for visitors, and intending visitors, in a timely and efficient manner – as assessed by user feedback and enforcement requirements.

Value: EDUCATIONAL USES

Goal: Improved educational use opportunities within and in relation to the Park.

Objectives:

- A. To encourage and promote the use of the Park for education.
- B. To improve recognition, understanding and appreciation of the Park and its values.

Management Actions, Priorities and Responsibilities (E):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
E1	<i>Encourage and continue to accommodate use of the Park as a venue and asset for environmental, outdoor and other educational uses – including community-based environmental education projects. (A, B)</i>	Minor	Medium continuing	Park management
E2	Provide opportunities for environmental education along the track and trail network, with walking tracks in the Park's east and south a priority area ahead of the approved mountain bike loop. (A, B)	Minor	Medium	Park management
E3	Expand on-site interpretive and information services and facilities – including possible features such as "outdoor classrooms", group seating areas and additional on-site interpretation (both signs and other media). Consider the visual and environmental impact of these actions prior to approval and implementation. (A, B)	Minor	Medium	Park management
E4	Continue talks to students and interest groups on an as needed basis. This may or may not be on a fee-paying basis (A, B)	Minor	Low	Park management
E5	<i>The Trust will encourage Council to foster relationships with the Coastal Environment Centre and Manly Environment Centre in relation to educational ventures. (A, B)</i>	Negligible	Low	Trust Park management

Performance Measures and Outcomes:

- Increased educational use of Park – as assessed by booking data, requests, user surveys and observation.
- Increased capacity to deliver educational activities/use, and additional infrastructure facilities provided to support educational activities/uses – as assessed by regular facilities audits, and user feedback.
- Increased delivery of face-to-face educational services – as assessed by staff time commitments to education services, and user feedback.

Value: WAKEHURST GOLF COURSE

Goal: Continued operation of the Wakehurst Golf Course, while protecting natural and cultural heritage values across this area and minimising adverse impacts from these facilities and their management on surrounding areas of the Park

Objectives:

- A. To provide for continued operation of the Wakehurst Golf Course in accordance with their lease agreement with Council.
- B. To ensure that natural and cultural heritage values across the Golf Course area are protected and appropriately managed.
- C. To ensure that any adverse impacts from the Golf Course, and the management of these facilities, on surrounding areas of the Park (including the Dam) and neighbours are effectively managed and minimised.
- D. To provide for visitor safety in the Golf Course vicinity

Management Actions, Priorities and Responsibilities (WGC):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
WGC1	Continue management of the Wakehurst Golf Course consistent with its present lease with Council. (A)	n/a	Medium continuing	Council Wakehurst Golf Club
WGC2	The Wakehurst Golf Course will not be expanded beyond its current footprint during the life of this Plan – beyond minor adjustments, preferably on a give-and-take basis, to take account of current inconsistencies in boundary definition and the developed/used course area. (B, C, D)	n/a	HIGH	Council Wakehurst Golf Club
WGC3	Negotiate a set of environmental management criteria and reporting requirements with the Wakehurst Golf Club Limited during renewal of their lease agreement with Council. The lease agreement will define and set limits on any further development within the lease area. (A, B, C)	Minor	HIGH	Council Park management Wakehurst Golf Club

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
WGC4	Wakehurst Golf Club Limited will be required to prepare an Environmental Management Plan for the operation, management and maintenance of the golf course within two years of the commencement of this Plan. The Environmental Management Plan is to be approved by Council and the Crown Lands Division. (B, C)	Negligible	HIGH	Council Park management Crown Lands Division Wakehurst Golf Club
WGC5	Ensure run off from the Golf Course site does not negatively impact on water quality in the dam or downslope vegetation. (C)	Minor	HIGH	Park management Wakehurst Golf Club
WGC6	Advise Wakehurst Golf Club Limited on appropriate improved/additional management measures to protect those Aboriginal heritage sites within the lease area, with reference to the Office of Environment and Heritage. (B)	Negligible	Medium	Park management Wakehurst Golf Club Other agencies

Performance Measures and Outcomes:

- Wakehurst Golf Course managed within its current footprint and to an agreed lease – as assessed by extent of Golf Course, and compliance with current/new lease.
- Environmental Management Plan prepared and endorsed for Golf Course's operation, including protection of on-site and surrounding values – EMP approved by Council and Crown Lands Division.
- Off-site impacts from Golf Course site and operation managed/minimised – as assessed by impact monitoring and observation.

Value: **WAKEHURST COUVRET TENNIS COURTS**

Goal: Continued operation of the Wakehurst Couvret Tennis Courts, while minimising adverse impacts from these facilities and their management on surrounding areas of the Park

Objectives:

- A. To provide for continued operation of the Wakehurst Couvret Tennis Courts in accordance with appropriate sub-lease or lease agreements;
- B. To ensure that any adverse impacts from the tennis courts, and the management of these facilities, on surrounding areas of the Park (including the dam) and neighbours are effectively managed and minimised.

Management Actions, Priorities and Responsibilities (WCT):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
WCT1	<i>Continue management of the Wakehurst Couvret Tennis Courts as a tennis facility consistent with its present sub-lease with Wakehurst Golf Club Limited. (A, B)</i>	n/a	Medium continuing	Council Wakehurst Couvret Tennis
WCT2	<i>The Wakehurst Couvret Tennis Courts, and associated facilities within the current sub-lease area, will not be expanded beyond their current footprint during the life of this Plan – beyond minor adjustments, preferably on a give-and-take basis, to take account of current inconsistencies in boundary definition and the facility's developed/used area. (A, B)</i>	n/a	HIGH	Council Wakehurst Couvret Tennis
WCT3	<i>At expiry of the current sub-lease with the Wakehurst Golf Club Limited, negotiate renewal of the Wakehurst Couvret Tennis Courts lease agreement directly with Council and include a set of environmental management criteria and reporting requirements. The new lease agreement will define and set limits on any further development within the lease area. (A, B)</i>	Minor	HIGH	Council Park management Wakehurst Couvret Tennis
WCT4	<i>Ensure run off from the Wakehurst Couvret Tennis Courts site does not negatively impact on surrounding vegetation. (C)</i>	Minor	HIGH	Park management Wakehurst Couvret Tennis

Performance Measures and Outcomes:

- Wakehurst Couvret Tennis Courts managed within its current footprint and to agreed sub-lease, and renewed lease directly with Council
 - as assessed by extent of complex, and compliance with current/new lease.
- Environmental management criteria and reporting requirements included in lease when renewed.

5.3.3 Environmental Management

Issue: ENVIRONMENTAL PROTECTION AND SUSTAINABILITY

Goal: Effective management of the Park to support environmental protection and sustainability

Objectives:

- A. To apply minimum impact, sustainability and reversibility principle as far as practical in the Park's management.
- B. To ensure future development within the Park is approved and in keeping with the Park's management intent, character and values and is implemented without significant impact on the Park's values.

Management Actions, Priorities and Responsibilities (EP):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
EP1	<i>All major new works or major maintenance projects undertaken on the Park, likely to entail significant environmental impacts, will be subject to appropriate environmental impact assessment and approval procedures. (A, B)</i>	Minor	HIGH continuing	Park management Council

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
EP2	<p>Park development proposals must address the following (among other/site specific issues):</p> <ul style="list-style-type: none"> • environmental sustainability and reversibility; • the protection of identified values; • demonstrate a clear connection with the Park's role and natural bushland setting; • public accessibility and equity (where applicable); • consistency with the character and scale of a site and any existing facilities; • aesthetic impacts, both to and from the Park; • site amenity and public and staff safety; • pollution impacts and risks; • traffic and access matters (where applicable); • indigenous planting/landscaping or screening; and • impact amelioration and remediation measures. (A, B) 	Minor	HIGH continuing	Park management Council
EP3	Maintenance and upgrading work of walking tracks, mountain bike track, fire trails and other park facilities will be carried out under the direction of the Park Manager. Works in environmentally sensitive areas to be undertaken by Park Staff or other specialists. (A, B)	n/a	HIGH continuing	Park management
EP4	Continue to implement standard designs for track/trail development, track signage, interpretive signage, park structures, park furniture and park brochures. Designs are to be in keeping with the Park's low-key character and natural setting. (A, B)	n/a	Medium continuing	Park management Council
EP5	Preference will be given to the use of recycled products and natural construction materials wherever possible and fit-for-purpose. (A)	Negligible	Medium continuing	Park management
EP6	Detailed design and construction specifications for the provision of new or upgraded facilities will include environmental protection measures and bushland restoration provisions (where undertaken in natural areas). (A, B)	Minor	HIGH continuing	Park management
EP7	Local indigenous native species will be employed in any landscaping carried out within the Park (with the exclusion of turf and grasses where essential, and cultural plantings associated with the Park's role as a war memorial). (A, B)	Minor	Medium continuing	Park management

Performance Measures and Outcomes:

- Minimum environmental impact/disturbance due to Park developments and maintenance works – as assessed by pre and post works impact observation/recording, and inclusion of impact mitigation/amelioration or remediation measures.

- Adequate environmental evaluation of Park development proposals, as commensurate with type/level of development and potential – as assessed by proposal assessment documentation and policy/regulatory compliance.
- Compliance with relevant standards and best practice guidelines – as assessed by project reporting, and regular facilities audits.

Value: FIRE MANAGEMENT

Goal: Effective management of fire hazards to minimise damage from wildfires, to the Park and its assets/values and to Park neighbours.

Objectives:

- A. To minimise the risks to life and property posed by occasional wildfires in the Park.
- B. To manage fire trails to ensure protection of assets and minimal impact on bushland or water quality.

Management Actions, Priorities and Responsibilities (FM):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
FM1	<i>Continue to manage fire hazards in accordance with the Rural Fires Act, directions set out in the Warringah Pittwater Bush Fire Risk Management Plan and other relevant policies and legislation. (A)</i>	Minor (Moderate by others)	HIGH continuing	Park management Council RFS Other agencies
FM2	Implement the key directions of the Park's Fire Management Plan (2006) and update as needed in response to fire incidents and ongoing fire management – includes hazard reduction activities and any associated environmental assessment/approval requirements. (A)	Moderate	HIGH continuing	Park management Council RFS Other agencies
FM3	<i>The Trust will encourage Council to liaise with Park neighbours to assist in the management of fire risks to their properties and explain on-Park fire hazard management measures. (A)</i>	Minor	Medium continuing	Trust Park management Council
FM4	<i>Ensure that fire trails are managed, both by Park managers and other agencies/utility providers, as far as practicable to reduce adverse bushland, water quality and visual impacts. (B)</i>	Minor (Moderate by others)	Medium continuing	Park management RFS Other agencies
FM5	<i>Manage visitors' use of wood-burning barbecues in the picnic areas in accordance with prevailing fire hazard ratings, and notify and enforce total fire bans as required. (A)</i>	Negligible	HIGH continuing	Park management

Performance Measures and Outcomes:

- Successful completion of annual hazard reduction measures – as assessed against programme targets.
- Reduced incidence of damage to on-Park, and neighbouring, assets.
- Environmentally sensitive management of fire trails – as assessed by pre and post works impact observation/recording, and compliance with best practice guidelines.
- Increased neighbour awareness and implementation of fire hazard reduction measures – as demonstrated by greater incidence of private property hazard reduction efforts.

Value: PARK BOUNDARY MANAGEMENT

Goal: Management of the Park boundary to maximise protection of the natural environment and other values within the Park while not adversely impacting Park neighbours.

Objectives:

- A. To manage the Park's edge to ensure protection of natural environment and biodiversity values.
- B. To minimise adverse impacts on Park neighbours from on-Park activities.

Management Actions, Priorities and Responsibilities (B):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
B1	Continue to manage sections of the Park's eastern and southern boundaries, where abutting residential properties, as open grassed Asset Protection Zones to reduce fire risks to adjacent properties (also refer to section FM). (A, B)	Minor	HIGH continuing	Park management
B2	Remove dumped rubbish along the Park boundary as soon as possible after its detection. (A, B)	Minor	Medium continuing	Park management
B3	Exercise vigilance in detecting weed infestations and risks, stormwater and sediment sources, potential fire risks, pollution sources, unauthorised clearing or track creation, encroachments and other adverse impacts/pressures along the Park boundary. Implement appropriate protection, control, remediation, enforcement or preventative/education measures as required (refer sections	(refer sections WP, C, FM, TT and S)	HIGH continuing	(refer sections WP, C, FM, TT and S)

	WP, C, FM, TT and S). (A, B)	(refer section T)	Medium	(refer section T)
B4	Identify opportunities to minimise and consolidate the Park's "exposed" bushland edge (refer section T). (A)			
B5	The existing playground off Cootamundra Drive, within the Park, may be retained and will be maintained (and the play equipment replaced as/when necessary), but with no significant expansion of the playground's footprint. (A, B)	Minor	Medium continuing	Council

Park neighbour programmes (refer section S) will also significantly contribute to management of the Park's boundaries.

Performance Measures and Outcomes:

- Maintenance of open grassed Asset Protection Zones.
- Reduced incidence of dumped rubbish along the Park's boundary – as assessed by ad hoc monitoring and observations, and community reports.
- Reduced incidence of adverse impacts along the Park's boundary – as assessed by monitoring, observations and enforcement actions
- Cootamundra Drive playground maintained.

Issue: SURROUNDING LAND USES AND PARK NEIGHBOURS

Goal: Increased awareness by Park neighbours of their possible impacts on the Park and its values, and their co-operation/support to reduce these effects.

Objectives:

- A. To reduce the effect of surrounding land uses on the Park and its values.
- B. To reduce the on-Park impacts of weeds and pest/introduced animals within areas surrounding the Park.
- C. To further promote awareness and support for the Park and its values among neighbours.

Management Actions, Priorities and Responsibilities (S):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
S1	The Trust will encourage Council to continue responsible "bush neighbour", catchment protection and environmental educational information, awareness and education programmes in areas surrounding the Park to encourage neighbours' co-operation and involvement in the Park's management. Priority information to provide for park neighbours includes - responsible pet ownership, suitable indigenous plants for gardens, minimising fertiliser use, responsible disposal of garden waste, urban wildlife, stormwater management and environmentally responsible fire protection measures. (A, B, C)	Minor	HIGH continuing	Trust Council Park management
S2	Police encroachments, swimming pool overflows/discharges, green waste dumping, general rubbish dumping and other detrimental actions along the Park's urban boundaries. (A, B)	Minor	HIGH continuing	Park management Council
S3	The Trust will encourage Council to negotiate improved weed control programmes, managed water and fertiliser use, and the staged removal/replacement of introduced plant species (and in particular species with weed or high spread potential) within the Dam's catchment on land not managed by Park staff – in particular Aquatic Reserve and the Frenchs Forest Business Park. Similar measures will be pursued for Wakehurst Golf Course (refer section GC). (A, B, C)	Negligible	Medium continuing	Trust Council Park management
S4	The Trust will encourage Council to liaise with Manly Hydraulics Laboratory and Water Research Laboratory regarding bush regeneration and weed control on their lands adjacent to the Park. (A, B)	Negligible	Medium continuing	Trust Park management Council

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
S5	<i>The Trust will encourage Council to ensure all development adjacent to or in areas around the Park complies with relevant DCPs, Water Sensitive Urban Design criteria and requirements for planting local native species. (A, B)</i>	Negligible	Medium continuing	Trust Council

Performance Measures and Outcomes:

- Greater neighbour/community awareness of Park values and increased incidence of positive/supportive behaviours – as assessed by ad hoc monitoring /observations, community reports, and participation in volunteer activities.
- Reduced incidence of green waste: dumped rubbish swimming pool discharge and other impacts along the park's residential boundary – as assessed by ad hoc monitoring and observation, enforcement levels, and community reports.
- Reduced incidence and severity of encroachments – as assessed by ad hoc monitoring and observations, enforcement actions and community information.
- Enhanced complementary management of bushland and stormwater on adjacent lands/developments – as assessed by greater co-operative management and reduced off-site impacts for Park.

Issue: EASEMENTS

Goal: The sympathetic management of easements within the Park.

Objectives:

- A. To minimise adverse impacts from the presence and management of utility easements within the Park.
- B. To avoid the creation of any additional easements through the Park.

Management Actions, Priorities and Responsibilities (U):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
U1	Develop effective and on-going communication protocols with utility providers operating easements through the Park regarding their management requirements/operations and measures to reduce impacts on the Park and its values – especially in relation to service access, track maintenance, unauthorised or undesirable access, soil erosion, vegetation clearing, visual impacts and visitor safety. Negotiate access, maintenance and remediation agreements, standards or protocols where possible. (A)	Negligible	HIGH continuing	Park management Council
U2	Oppose the creation of any non essential additional (foreign) utility easements through the Park. (B)	n/a	HIGH continuing	Trust Council

Performance Measures and Outcomes:

- Effective communication protocols in place between utility providers and Park Managers/Council.
- Reduced adverse impacts from easement presence/management – as assessed by ad hoc monitoring and observation, and user/community reports.
- No new non essential easements established.

5.3.4 Park Management and Administration

Issue: PARK ADMINISTRATION AND MANAGEMENT ACTIVITIES

Goal: Management of the Park in an effective and efficient manner, and improved presentation of the Park Office/Depot.

Objectives:

- A. To provide an on-site management presence.
- B. To provide an effective and efficient Park management, administration and reporting regime.
- C. To provide a safe, accessible, efficient, low-impact area for the location of Park management facilities, equipment and administration.
- D. To improve presentation and/or screening of the existing yard and parking area as seen from the Park entrance.

Management Actions, Priorities and Responsibilities (PA):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
PA1	Carry out additional landscaping and screening along the Park Office/Depot's southern side to improve its presentation and screening from the Park entry road. (D)	Minor	Medium	Park management
PA2	Continue the provision of an on-site Ranger team presence, and ensure adequate staffing levels and Ranger availability, as essential for the Park's effective, efficient and safe management. (A)	High	HIGH continuing	Council
PA3	Continue staff professional development activities, and liaison with the managers of adjacent natural lands where appropriate, to stay up-to-date regarding natural area and recreation management. (A)	Minor	Medium continuing	Council Park management
PA4	Continue the lock-up of the Park's main entry outside opening hours. (B)	Minor	HIGH continuing	Park management
PA5	Continue after hours security patrols of the Park each day as required (A)	Minor	HIGH continuing	Park management
PA6	Waiver-only access to the Dam wall will continue to be permitted during Park opening hours. Outside of these hours the dam wall gates are to be locked at each end. (B)	Minor	HIGH continuing	Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
PA7	Investigate risk management issues associated with recreational use of the Park and other risk issues – including initial and ongoing risk assessment as required. Address any issues identified. (B)	Moderate	HIGH continuing	Park management Council
PA8	Ensure there is adequate management and emergency vehicular access to and within the Park. (B)	Minor	HIGH continuing	Park management
PA9	Continue the periodic monitoring of park usage, including monitoring the levels of visitor use of the waterbody and the track/trail network. (B)	Minor	Medium continuing	Park management
PA10	Continue to liaise with Council's Compliance section to ensure enforcement of Park regulations on an as needs basis. (B)	Minor	Medium continuing	Park management Council
PA11	Continue to apply waste minimisation, recycling and energy efficiency practices across all aspects of Park management. (B)	Minor	Medium continuing	Park management
PA12	Continue to catalogue Park reports, studies and other information. The Trust will encourage Council to have these available on Warringah's library data bases and libraries (with advice regarding the best means of identifying, protecting and presenting relevant material). Investigate opportunities to make this information available on Council's website. (B)	Negligible	Low continuing	Council Trust
PA13	Progressively collate all relevant educational material, environmental, historical, usage and other data in relation to the Park and make this readily accessible to the community. (B)	Negligible	Low continuing	Council Park management
PA14	Continue to support research activities in relation to the Park, with results of research available to Council. (B)	Minor	Low continuing	Park management Council
PA15	Maintain the status-quo of Park management – with the Park under the day-to-day care, control and management of Warringah Council. (B)	Negligible	HIGH continuing	Council Crown Lands Division
PA16	Liaise with the Crown Lands Division regarding their investigations into potentially formalising a single Reserve Trust for the Park, for both Reserve 68892 and that part of Reserve 83492 within the Park, for subsequent Council consideration. (B)	Negligible	HIGH	Council Crown Lands Division
PA17	Prepare an annual report for the Minister for Lands – as required under the Crown Lands Act 1989 – that includes details of income, expenditure, assets, liabilities, improvements effected, leases and licences granted or in force, uses made of the Reserve, any particulars of pecuniary interests recorded and other matters as set out in the Act. (B)	Minor	HIGH continuing	Trust Council Park management

Performance Measures and Outcomes:

- Adequate Park staffing and management levels – as assessed by the total (paid) time inputs of Ranger, and other Council staff, committed to the Park's management.
- Continued provision of an on-site Ranger management presence.
- Serviceable Park management access network maintained.
- Recreational, and other, risks effectively managed – as assessed by ongoing completion of risk assessments as/when required, and implementation of risk management actions.
- Park usage and values data collected, compiled and applied in operational and future management.
- Reduced levels of vandalism and anti-social/after-hours behaviour.
- Park office/depot screened from entry road.
- Park management reporting commitments met.
- Park continues to be managed by Warringah Council.
- Annual report prepared for the Minister for Lands – as assessed by compliance with statutory requirements.

Issue: CO-OPERATION WITH OTHER AGENCIES

Goal: Advantages for the Park's management, and mutual benefits, through co-operation with other agencies.

Objectives:

- A. To work co-operatively with other relevant agencies, to benefit the Park and its management.
- B. To reduce any impacts from the activities of other agencies on the Park and its values.

Management Actions, Priorities and Responsibilities (OA):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
OA1	<i>Liaise as required with representatives from Sydney Water, Manly Hydraulics Laboratory, Water Research Laboratory regarding their involvement/interest in the Park, its resources/values and management. (A, B)</i>	Negligible	Medium continuing	Park management Council Other agencies
OA2	<i>Liaise with the Roads and Traffic Authority regarding sympathetic management of that section of Wakehurst Parkway along the Park's western boundary - particularly regarding weed, stormwater and sediment control as well as</i>	Negligible	Medium continuing	Park management Council RTA

	<i>measures to address rubbish dumping. (A, B)</i>			
OA3	<i>Liaise as required with Manly Council regarding sympathetic management of those areas of the Manly Local Government Area that adjoin the Park (also refer to section TT20 regarding that section of the approved mountain bike loop within the Manly Local Government Area). (A, B)</i>	Negligible (refer section U)	Low continuing	Council Park management Manly Council
OA4	<i>Liaise as required with utility providers operating easements through the Park (refer section U). (A, B)</i>		HIGH continuing	(refer section U)
OA5	<i>Liaise with the National Parks and Wildlife Service regarding management of the adjoining area of Garigal National Park, as well as the management of those values within the Park values for which the National Parks and Wildlife Service (and Department of Environment, Climate Change and Water) has a legislative role/responsibility. (A, B)</i>	Negligible	Low continuing	Park management Council NPWS (OEH)

Also refer to community involvement (refer section C1) regarding working with volunteers, stakeholders and the community to benefit the Park's management.

Performance Measures and Outcomes:

- Improved management co-operation between agencies with operations below the dam wall.
- Improved management of the Park's western boundary – as assessed by an observed reduction in on-Park impacts from Wakehurst Parkway and closer management integration with Garigal National Park.
- Observed reduction in on-Park impacts from management of Bantry Bay Reserve and adjacent areas in Manly Council LGA.
- Ongoing liaison and co-operation with the NPWS (OEH).

Value: **COMMUNITY INVOLVEMENT**

Goal: Successful volunteer programmes and community involvement aimed at protecting the Park and its values and benefiting the Park's management.

Objectives:
A. To improve community involvement in protection of the Park and its values.
B. To strengthen the community's ties with the Park and its protection.

Management Actions, Priorities and Responsibilities (CI):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
C11	Continue a "Friends of the Park" or similar programme to encourage volunteer activities including bush regeneration, participation in "clean-up" days and walks in the Park. (A, B)	Minor	HIGH continuing	Park management Council Volunteers
C12	Liaise with representatives of mountain bike riders and other relevant groups using the Park to provide input to Council's decision-making in regard to the planning, design and maintenance of walking and mountain biking opportunities within the Park and sustainable management with a minimum of environmental impact and disruption to other users and Park neighbours. (A, B)	Minor	Medium continuing	Park management Council Volunteers
C13	Use volunteers in track/trail maintenance and development, on approved projects and under the supervision and direction of Park management. (A, B)	Minor	Medium continuing	Park management Volunteers
C14	Continue to involve the community in recording and monitoring Park's native vegetation and wildlife - through Community Wildlife Surveys, plant identification, weed reporting, significant species alerts, other initiatives. (A, B)	Minor	Low continuing	Park management Volunteers
C15	The Trust will encourage Council to promote volunteer initiatives, such as "streamwatch" and the stormwater "drain stencilling" programmes (refer section C2) in streets around the Park. (A, B)	Negligible	Medium continuing	Trust Council Volunteers

Performance Measures and Outcomes:

- Increased volunteer participation in Park management – as assessed by total participation hours, and range of tasks featuring community/volunteer involvement.
- Increased volunteer numbers.
- Greater up-take of off-Park sustainability initiatives benefiting the Park – assessed as part of Council's wider environmental sustainability reporting.

Issue: LEASES AND LICENCES, SPECIAL USES AND COMMERCIAL ACTIVITIES

Goal: Equitable use of the Park and the protection of Park values

Objectives:

- A. To recognise current leases and licences, and provide guidelines for future leasing or licencing within the Park.
- B. To accommodate occasional special uses, events or activities, with prior approval.
- C. To ensure any leases, licences or additional use agreements protect the Park's values, have minimal impact on other users, and can be effectively managed.
- D. To contribute to revenue generation.

Management Actions, Priorities and Responsibilities (LL):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
LL1	<i>The existing lease agreement with Wakehurst Golf Club Limited for the management and use of the Wakehurst Golf Course (refer section WGC) is expressly authorised by this Plan - until the end of its current term. (A, D)</i>	n/a	HIGH continuing	Park management Council
LL2	<i>The re-issue of the lease with Wakehurst Golf Club Limited - for largely the same area as now occupied by the Wakehurst Golf Course (refer section WGC2), but excluding the Wakehurst Court Tennis Courts sub-lease area (refer sections LL3 and LL4 below), and with the conditions as identified in this Plan and as otherwise identified by Council - is expressly authorised by this Plan. (A, C, D)</i>	Negligible	HIGH continuing	Council Park management
LL3	<i>The existing sub-lease agreement for the Wakehurst Court Tennis Courts (with Wakehurst Golf Club Limited, refer section WCT) is expressly authorised by this Plan - until the end of its current term. (A, D)</i>	n/a	HIGH continuing	Park management Council
LL4	<i>The re-issue of a new lease, directly with Council, for the Wakehurst Court Tennis Courts - for the same area as now occupied by the Tennis Courts and associated facilities (refer sections WCT2 and WCT3), and with the conditions as identified in this Plan and as otherwise identified by Council - is expressly authorised by this Plan. (A, C, D)</i>	Negligible	HIGH continuing	Council Park management
LL5	<i>Beyond the approved leases (or current sub-lease) for the Wakehurst Golf Course (LL1 and LL2 above) and the Wakehurst Court Tennis Courts (LL3 and LL4 above), no new leases affording long-term exclusive use of any part of the Park will be authorised during the life of this Plan. (A)</i>	n/a	HIGH continuing	Council Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
LL6	The existing licence agreement with Wakehurst Golf Club Limited, to draw irrigation water from the dam waterbody, is expressly authorised by this Plan - until the end of its current term. Upon expiry the on-going reissue of this licence for individual licence periods of no more than 3 years at a time, is expressly authorised by this Plan (with any appropriate conditions Council or the Crown Lands Division require). (A, C, D)	Negligible	HIGH continuing	Council Park management
LL7	<p><i>This plan expressly authorises the granting of – licences for periods of up to 3 years (by Council and with concurrence of the Minister for Lands where required), temporary licences (up to 12 months duration), once-off or set (short) duration activity or event permits, and other estates/approvals (excluding leases) – for educational, scientific, community, social, recreational or park management activities (such as fire management or seed collection). Licences will only be granted as consistent with the provisions of the Crown Lands Act 1989 and the Crown Lands Regulation 2006.</i></p> <p>Licences and permits will not be granted for activities that:</p> <ul style="list-style-type: none"> - may have a negative impact on natural areas; on endangered ecological communities or threatened species; on historical or cultural sites; or - are inconsistent with an area's values, or have unacceptable effects on the Park's values or intended character and settings; or - exclude or unduly disadvantage other users, or are likely to impair an area's reasonable enjoyment by others; or <p><i>In addition, licences and permits will only be granted for activities that are consistent with the management intent, objectives and uses of the Park Management Zones (as described in Section 5.2 of this Plan) within which the activity will operate/occur. Licences, permits and activity applications will be subject to particularly stringent assessments within the Bushland Zone.</i></p> <p>Licences will only be issued for commercial activities where these are:</p> <ul style="list-style-type: none"> - consistent with, or ancillary to, the Park's current reservation purpose (and any additional reservation purpose); and - do not involve the erection of any permanent building or other permanent substantial structure, or permanent advertising that detracts from the visual qualities of the Park. <p>(A, B, C, D)</p>	n/a	HIGH continuing	Council Park management

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
LL8	Licences and permits will not be granted for activities that are purely commodity or product marketing oriented. (A, C)	n/a	HIGH continuing	Council Park management
LL9	Inquiries and use/activity applications from commercial interest or organised ("members only") groups will be assessed and reviewed to ensure that the Park's values, intended character and settings, and visitor experiences are not compromised; and on-going exclusive use arrangements are not created. (A, B, C)	n/a	HIGH continuing	Park management Council
LL10	Licences or permits will be granted for filming within the Park, as required by the Filming Related Legislation Amendment Act 2008, and as consistent with relevant Council policies. (A, B, C, D)	n/a	HIGH continuing	Park management Council

Performance Measures and Outcomes:

- Continuation, with amendments upon renewal, of the current two leases and one licence agreement.
- Licences, permits and other estates comply with specified guidelines and restrictions.
- Financial impacts

Issue: LAND TENURE ISSUES AND BOUNDARY RATIONALISATION

Goal: Identification of boundary land tenure and consolidation with the Park where appropriate

Objectives:

- A. To clarify Park boundary and land tenure issues.
- B. To provide a more effective management "edge" for the Park.
- C. To expand the Park's reservation purpose to include recognition of the area's environmental and conservation values.
- D. To provide statutory planning recognition of the Park's environmental and conservation values.

Management Actions, Priorities and Responsibilities (T):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
T1	Liaise with the Crown Lands Division to include "flora and fauna protection", or "environmental protection", or similar, as an additional secondary/supporting Reservation Purpose for those Crown Lands comprising the Park and, where appropriate, for future Crown Land additions to the Park. (C)	Minor	Medium	Trust Council Crown Lands Division
T2	Identify opportunities to consolidate the Park's boundary – and realise these as/where practical – to minimise the amount of bushland edge exposed to pressures and impacts from adjacent urban or disruptive land uses. (B, A)	Minor (but any land transfer or acquisition costs undetermined)	Medium	Park management Council
T3	Liaise with the Crown Lands Division regarding incorporation of the following unmade road reserves, following necessary road closures, into the Park: - the eastern end of Manning Street (north of, behind, Warringah Street); and - the road reserve between Kalai Street and Water Reserve Road. (A, B)	Minor (but any land transfer or acquisition costs undetermined)	HIGH	Council Trust Crown Lands Division
T4	Liaise with the Crown Lands Division regarding formal closure of those Crown Road Reserves now within Park (remaining as unmade roads) and their consolidation into the wider area of the Park.	Minor	Medium	Council Trust Crown Lands Division
T5	Liaise with the Crown Lands Division regarding addition of the small triangular land parcel north-west of Condover Reserve and off the northern end of Water Reserve Road - owned by the former Department of Infrastructure, Planning and Natural Resources, and containing part of the Park's management trail network and the mountain bike circuit - into the Park. (A, B)	Minor (but any land transfer or acquisition costs undetermined)	Medium	Council Trust Crown Lands Division

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
T6	Survey and describe those part lots/portions, now included within the Park, as discrete lots/portions (to comply with the requirement for Trust areas to follow defined cadastral boundaries, and to simplify Trust reporting obligations).	Minor	Medium	Council Crown Lands Division
T7	<i>Avoid the addition of narrow, irregular or outlying land parcels to the Park where these do not offer major conservation benefits. (B)</i>	n/a	HIGH continuing	Council Trust Park management
T8	The Trust will encourage Council to investigate the practicality of incorporating the bushland areas of Condover Reserve into the Park as per the <i>Condover Reserve Plan of Management</i> Action: C5 "investigate the possibility of managing the bushland in Condover Reserve together with the Manly Warringah War Memorial Park as one continuous bushland reserve". Implement if practical, and following consultation with the Crown Lands Division.	Negligible	Low	Trust Council Crown Lands Division
T9	<i>Identify and prioritise other possible sites/actions for Park boundary consolidation, as opportunities arise. (A, B)</i>	Negligible	Medium	Park management Council
T10	<i>The Trust will encourage Council to liaise with the Roads and Traffic Authority regarding the boundary of the Wakehurst Parkway Road Reserve along the Park's western boundary, and any implications this holds regarding the location and management of Park facilities and visitor use sites. Resolve any land tenure anomalies and management responsibilities if possible, without further compromising the Park boundary. (A, B)</i>	Minor	Medium	Trust Park management Council RTA
T11	<i>Negotiate with the Metropolitan Local Aboriginal Lands Council regarding the status of land claims affecting small parts of the Park. (A)</i>	Minor	Medium	Council Metropolitan LALC Crown Lands Division
T12	<i>Investigate the suitability of rezoning parts of the Park as "E2 Environmental Conservation" under the applicable Warringah Local Environmental Plan (preferably as part of a Council-wide consideration of potential E2 rezonings if practical). Rezone if appropriate. (D)</i>	Negligible	Low	Council

Performance Measures and Outcomes:

- Reservation Purpose amended.
- Identified land parcels added to the Park.
- Park boundary rationalised, to improve values protection and effective management, where/when practical.
- Wakehurst Parkway boundary clarified and any tenure, management or facility anomalies resolved.
- Aboriginal land claims intentions clarified and outstanding claims resolved, without impacting on the Park's values.
- Appropriate parts of the Park rezoned as "E2 Environmental Conservation" under the Warringah LEP.

Issue: FINANCE AND REVENUE GENERATION

Goal: Improved revenue generation from Park usage and other sources

Objectives:

- A. To improve revenue generated from use of the Park.
- B. To increase revenue generation options, where in keeping with the Park's values.

Management Actions, Priorities and Responsibilities (R):

Action No.	Actions (relevant objectives in brackets)	Implementation		
		Resource Estimation	Priority	Responsibility
R1	<i>The Trust will encourage Council to amend Council's current interim policy on the Commercial Use of Reserves in relation to the Park, and investigate a wider range of possible commercial and other revenue generation options (that are consistent with the licence/permit provisions of section LL and values of the Park). (A, B)</i>	Negligible	Medium	Trust Council
R2	<i>Introduce a cost-effective system of park fees, including paid parking – focused on the Day Use Zone, and including measures to accommodate regular/repeat visitors if practical. (A, B)</i>	Moderate	Medium	Council Park management
R3	<i>Increase the Park's range of environmental education and other services, and venues, to include fee for service activities. (A, B)</i>	Minor	Medium	Park management
R4	<i>Consider revenue generation during all lease renewal negotiations, and as standard licence and permits conditions (consistent with Council's policies). (A)</i>	Negligible	Medium continuing	Park management Council
R5	<i>Continue to support filming in the Park, consistent with Council's policies regarding fees and charges (also refer section LL10). (A)</i>	Negligible	Medium continuing	Park management Council
R6	<i>Continue to review Park fees, booking and usage fees, bonds and other fees and charges annually (as part of Council's wider annual publication of fees and charges). (A, B)</i>	Negligible	Medium continuing	Council Park management
R7	<i>Regularly pursue grant funding assistance in areas relevant to the Park's values and management. (B)</i>	Minor	Low continuing	Park management Council

Performance Measures and Outcomes:

- Additional revenue generated, without compromising Park values or management.
- Additional revenue generation opportunities identified and realised, without compromising Park values or management.
- Interim policy on the Commercial Use of Reserves clarified in relation to the Park.

6 Funding and Implementation

6.1 Funding

This Plan of Management contains a substantial list of management actions.

Some of these are management guidelines, providing policies or directions to guide future decision-making for the Park's management.

However many are physical actions that will require the commitment of Council funds or resources – such as staff time – to implement. Council does not have the capacity to undertake all of these, more resource-intensive, management actions immediately. Management and development of the Manly Warringah War Memorial Park will ultimately be reliant on, and largely determined by, the funding and resources available to Council. As such the Park's management actions must be assessed against the other priorities of Council, and budget allocations assigned as part of Council's wider Warringah Community Strategic Plan 2023, annual budget cycles and business planning for Council's various units.

Council's current *Delivery Program* includes the 2013-14 budget as well as four year forward budgets and works programmes for Council's key service areas (of which the Parks, Reserves and Foreshores and Natural Environment areas are the service areas most applicable to the Park's management). The plan also includes a schedule for works under the Section 94A Developer Contributions Plan. Funding has been allocated for capital or major works at the Park from all of these funding sources – as identified in Table 7 below.

Council also provides funds for the operational management of the Park – including staff salaries, contract services, repairs and maintenance and the like (in the order of \$600,000 per annum) – and raises a modest income from usage and licence fees and other minor income sources (in the order of \$50-\$60,000 per annum). Warringah Council supports and funds the Park's management far in excess of any revenue generated by the area. The Crown Lands Division's policy in respect of Crown Reserves is that income generated by a Trust should be reinvested in those reserves under the Trust's management – supported by annual income and expenditure reporting obligations. It is also current Crown Lands Division policy that 15% of any proceeds from leases or licences are paid to the Public Reserve Management Fund (over a threshold of \$15,000 value, and where this disbursement of 15% of the lease/licence proceeds is specified in the lease/licence documentation) – and so are not available for "reinvestment" on the Park.

In view of these financial realities/constraints a priority has been assigned to each management action – as shown in the actions Tables in Chapter 5 – to reflect their relative importance and implementation timing in order to achieve the Plan's objectives (but also noting that actions which are of a more management guideline, policy or direction-setting character may not require the direct allocation of resources).

In terms of the resourcing and timing of management, the assigned priorities can be described as follows.

HIGH – Considered “essential”, and will be considered in Council’s funding processes annually until they can be resourced, then included in the Management Plan and business plan of the relevant unit within Council each year until completed.

Medium – Considered “desirable”, and should be implemented within the life of this Plan and will be reviewed by the responsible unit within Council each year as to their current relevance/importance and consideration for resourcing and/or placement on relevant work plans.

Low – Considered “useful” or longer-term actions, and should be undertaken if resources permit but may not be allocated appropriate resources until formally reviewed or until resources are available for such actions and relevant units within Council should consider including these actions in their respective work plans each year.

Actions can be single tasks or identified as “continuing” – where the action in question will require funding throughout the Park’s management and/or the life of this Plan.

Recognising that funding and resources may come from many sources, including volunteer involvement or specific-purpose grant funding, identified Management Actions of different priority may proceed in differing orders or at different rates – and high priority actions need not necessarily precede lower-priority actions. Implementation of some actions may also be contingent on or influenced by the results of other actions, changing management circumstances or opportunities to gain management efficiencies. In some cases, the resources to deliver a longer-term action may be available before a high priority action. This may be due to the amount of money required, or the project being funded from resources other than Council funds, or factors outside of Council’s control.

6.2 Implementation

Many of the management actions set out in the Action Tables in Chapter 5 are continuing or routine Park management operations, or are policies and guidelines for application when the given issues or circumstances arise. However others are tangible works, many involving a considerable commitment of funds and resources and so need to be programmed into a prioritised forward “works” schedule.

As a guide to the Plan’s implementation Table 7 presents those significant management actions identified in Chapter 5 considered high or medium priorities for funding, and noting if a task is already included in Council’s budget or forward works planning. Existing identified funding for initiatives/actions at the Park over the 2013 to 2017 period (as detailed in Table 7) includes over \$1.4m from Council’s capital works programme. Actions that can be expected to be funded within Council’s normal operating budget for the Park have not been listed. Note also that some major new initiatives or directions contained in this Plan, such as changes to recreational access and use of the waterbody, do not figure in Table 7 as they do not entail significant cost component.

**Table 7 Implementation, High and Medium Priority Management Actions
(excluding routine Park management operations)**

ACTION		FUNDING and SOURCE
Site-specific or One-off Management Actions		
HIGH Priority Actions		
Additional off-Park water quality improvement measures and improved stormwater management. (C2)		For future consideration
Water quality monitoring within the dam - for algal levels (continuing), faecal coliform bacteria and other pollutants. (C10)		Funded in Manly Dam's annual operational budget and included in a LGA-wide water monitoring programme
Priority safety and upgrading works including to develop the Trig Track for shared use. (TT10)		Contribution of \$190,898 from 2013-14 Capital Works budget
Priority safety and upgrading works including to develop the Roosevelt Ave - Cootamundra Dr to Nyrang - Wandella Rd sections of mountain bike circuit for shared use (TT12 & 13)		
Priority safety and upgrading works to develop Manning Street sections of mountain bike circuit for shared use (TT16)		
Refurbish 3 amenities blocks in existing picnic areas. (DU5)		Contribution of \$550,000 from 2015-16 Capital Works budget
Progressively develop high-standard path from Picnic Area 1 to Picnic Area 4. (DU10)		Partially funded *
Introduce cost-effective system of park use fees. (R2)		To be considered in future budgets.
Medium Priority Actions		
Upgrade walking tracks and directional signage, in particular the Nature Trail and Wildflower Walk. (TT4)		Partially funded *
Construct track link, bridge and other required track works in the area of Curl Curl Track and Eva's Track (TT5 & A11)		To be considered in future budgets.
Redesign and upgrade King Street entry and provide safe pedestrian access. (A2)		Contribution of \$375,000 from 2015-16, 2016-17 Capital Works budgets
Upgrade car parking at Picnic Area 1. (A5)		
Continuing Management Actions		
HIGH Priority Actions		
Rolling programme of weed control and bush regeneration efforts (including adequate follow-up maintenance works). (WP2)		Contribution from Manly Dam's annual operational budget
Maintenance of existing off-Park water quality improvement and stormwater management measures. (C3)		For future consideration
Maintenance of safe and sustainable track and trail network. (TT2, TT6, TT8 & TT19)		Funded in Manly Dam's annual operational budget
Maintenance of signage on approved mountain biking loop route. (TT7)		Funded in Manly Dam's annual operational budget
Maintenance of the existing picnic areas and associated facilities. (DU2, DU3 & DU6)		Funded in Manly Dam's annual operational budget
Maintenance (minor) of internal roads and carparks. (A4)		Funded in Council's annual operational budget
Rolling programme of bushfire hazard management and		Funded in Council's annual

ACTION	FUNDING and SOURCE
implementation of Fire Management Plan. (FM2)	operational budget
Monitoring and management of recreational use and other risks. (PA7)	Funded in Manly Dam's annual operational budget
Medium Priority Actions	
Participate in co-ordinated regional pest control programmes, and Park-specific pest control measures. (VP5)	Funded in Manly Dam's annual operational budget
Monitor groundwater from former landfill sites and undertake any required remediation or control measures. (C8)	For future consideration

* = Partially funded under Capital Works allocations for "Manly Dam renewals – tracks, trails, pathways in picnic areas" of, \$77,026 in 2013-14, \$78,673 in 2014-15, \$79,585 in 2015-16 and \$81,972 in 2016-17

Glossary

Bush Track	A narrow, unsealed, defined and cleared route through bushland passable to walkers (and other non-motorised users subject to design standards, and if approved).
Continuing	As required throughout the life of this Plan.
EEC	Endangered ecological community (as listed under the <i>Threatened Species Conservation Act, 1995</i>)
Fire Trail	A constructed, usually unsealed, management access passable to vehicles (typically by 4WDs).
High Priority	Management actions essential to achievement of the Park's management objectives, or where there is potential for the public to be exposed to an unacceptable level of risk, or there is potential for a serious threat to Park values or the environment – to be considered in Council's funding processes annually until resourced.
Immediate Term	12 months or less.
LALC	Local Aboriginal Land Council
Long Term	6 years and beyond.
Loop Route (mountain biking)	The 11 kilometre route encircling Manly Dam (and Approved Mountain Biking Loop surrounding areas) which is identified and promoted as permissible for mountain bike (and bicycle) traffic.
Low Priority	Management actions useful for the overall management of the Park or addressing issues having longer-term impacts - to undertake if resources permit.
Medium Priority	Management actions desirable to enhance achievement of the Park's management objectives, or to address issues that meet a significant community need, or to improve Park management outcomes – to be implemented within the life of this Plan.
OEH	Office of Environment and Heritage
Path/Pathway	A high standard route, usually sealed or hardened, typically through a landscaped open space or bushland setting easily passable to walkers (and other non-motorised users if approved).
RFS	Rural Fire Service
RTA (RMS)	Roads and Traffic Authority (now part of the Department of Transport, Roads and Maritime Services - RMS)
Short term	1-2 years.
Single Track	A narrow, unsealed, defined and cleared route through Track bushland passable to walkers (and other non-motorised Trail users subject to design standards, and if approved).
Trample Track	Unplanned and unauthorised pedestrian or other (non-motorised) route developed and maintained through usage, typically following "desire lines" or short-cuts.
Weekdays	Monday to Fridays (inclusive)

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