

Objectives	Performance Targets	Means of Achievement	Means of Assessment
f) To retain bushland in parcels of a size and configuration that will enable the existing plant and animal communities to survive in the long term	<ul style="list-style-type: none"> Expand Echo Point Park's bushland component and manage the Park in context, recognising that it is too small to be ecologically viable in itself, but that its potential can be maximised and protected as a component link in a chain of discontinuous but compatible reserves 	<ul style="list-style-type: none"> Rationalise adjacent KC landholdings. Include Lots 94, 95 and 139, and Number 2 Allard Avenue and 21 Normac Street in Echo Point Park Plan of Management (as above) Consider reducing width of Babbage Road and replanting part with bush buffer Develop collaborative contacts with management of other compatible reserves within geographical area 	<ul style="list-style-type: none"> Additional lands covered by Plan of Management and managed in accordance with Plan's requirements
g) To protect bushland as a natural stabiliser of the soil surface	<ul style="list-style-type: none"> See (e) above re prevention/minimisation of soil erosion 	<ul style="list-style-type: none"> See (e) above for means to prevent or minimise soil erosion 	<ul style="list-style-type: none"> See (e) above

TABLE 4 – MANAGEMENT OF NATURAL AREA (FORESHORE)

Objectives	Performance Targets	Means of Achievement	Means of Assessment
The core objectives for management of community land categorised as foreshore are:			
a) To maintain the foreshore as a transition area between the aquatic and the terrestrial environment, and to protect and enhance all functions associated with the foreshore's role as a transition area	<ul style="list-style-type: none"> Minimise/prevent foreshore erosion from seaward side 	<ul style="list-style-type: none"> Encourage Waterways Authority signage and enforcement of reduced water speed limits between Roseville Bridge Marina and Roseville Bridge Maximise locally indigenous foreshore vegetation in soil profiles just above mean high water mark <ul style="list-style-type: none"> Investigate means of stabilising foreshore 	<ul style="list-style-type: none"> Regular monitoring to confirm: <ul style="list-style-type: none"> no further erosion just above mean high water mark beach width variation within acceptable range Liaison with Waterways Authority of NSW and Warringah Shire Council
	<ul style="list-style-type: none"> Minimise/prevent foreshore erosion from landward side 	<ul style="list-style-type: none"> Rationalise access to beach: <ul style="list-style-type: none"> restrict informal access paths formalise limited entry points Dissipate stormwater flow at discharge points Stabilise slopes with appropriate methods Manage stormwater flows to minimise sources of erosion 	<ul style="list-style-type: none"> Regularly check to ensure no new informal paths or reuse of old ones Monitor post-rainfall stormwater flow from pipe outlets Slopes stabilised
	<ul style="list-style-type: none"> Maintain/enhance diversity and health of locally indigenous foreshore vegetation 	<ul style="list-style-type: none"> Manage foreshore in accordance with Council's Bushland Plan of Management 	<ul style="list-style-type: none"> Regular monitoring to confirm: <ul style="list-style-type: none"> ongoing presence and diversity of locally typical intertidal species
b) To facilitate the ecologically sustainable use of the foreshore, and to mitigate impact on the foreshore	<ul style="list-style-type: none"> Protect marine and intertidal fauna 	<ul style="list-style-type: none"> Approved NSW Fisheries Department to introduce signage to advise legal consequences of undersize fishing, taking of shellfish and maximum bag catches in accordance with legislation 	<ul style="list-style-type: none"> Seek assistance from NSW Fisheries in regard to <ul style="list-style-type: none"> anglers compliance ongoing satisfactory shellfish numbers
	<ul style="list-style-type: none"> Control domestic animals on beach 	<ul style="list-style-type: none"> Monitor use of beach by domestic animals and respond to complaints 	<ul style="list-style-type: none"> Regular monitoring to check level of compliance
	<ul style="list-style-type: none"> Minimise littering 	<ul style="list-style-type: none"> Install litter bins at Park entry points Remove non-organic debris from mangrove areas 	<ul style="list-style-type: none"> Regular KC servicing of bins
	<ul style="list-style-type: none"> Protect rock platform 	<ul style="list-style-type: none"> Refer (a) above (Rationalise access to beach) Formalise a single path and stairway entry to platform 	<ul style="list-style-type: none"> Monitor rock platform for damage

TABLE 5 – MANAGEMENT OF PARK

Objectives	Performance Targets	Means of Achievement	Means of Assessment
The core objectives for management of community land categorised as a park are:			
a) To encourage, promote and facilitate recreational, cultural, social and educational pastimes and activities	<ul style="list-style-type: none"> • Manage Park to enhance its value as a regional recreational resource, within its user capacity • Ensure Park Management is compatible with the management objectives of an Area of Cultural Significance • Install signage at appropriate locations in Park to direct, interpret and prescribe to Park users in a simple, unobtrusive and appropriate manner • Ensure that Park signage acknowledges pre-European site settlement and history • Retain all existing formal (controlled access) paths and steps. Remove existing and future informal (uncontrolled access) paths except where otherwise indicated on plan • Ensure all paths, walls and steps are safe and in good repair 	<ul style="list-style-type: none"> • Monitor recreational use to identify major uses and maximum capacities. Develop management mechanisms to ensure resources do not degenerate. • Refer Tables 6 and 7 • Analyse existing signage and identify deficiencies • Develop and implement a program of signage upgrade • Install orientation ('You are here') signage at main entrance, southern end Babbage Road • Install directional signage at other entries, at major path intersections and at junctions with Two Creeks and Middle Harbour Foreshore Tracks • Install site interpretation sign at main entrance (brief outlines of Aboriginal occupation, non-indigenous site history, flora and fauna, and request for visitor protection of environmental values) • Install prescriptive signage re legal responsibilities of damaging Aboriginal sites. • Replace Bicentennial wall plaque on cliff / road cutting at main entrance, as it refers to first site settlement as European • Refer Table 3(c) (Bushland) for recommendations concerning removal of informal paths • Refer Table 7 (Area of Cultural Significance – Non-indigenous) for recommendations concerning repairs to paths, walls and steps • Replace rotting timber sleepers on steps at Playground • Replace rotting or broken timbers on footbridges • Provide handrails to steep steps if necessary • Address drains and pipes which cause bogginess in some path sections • Demolish redundant exposed steel piping 	<ul style="list-style-type: none"> • Ongoing monitoring by KC to assess balance between Park use and capacity • Ongoing monitoring by KC to ensure Park use and management protect rather than damage items and areas of cultural significance • Sign installation • Monitor signage effectiveness and modify as necessary • Bicentennial wall plaque replaced • Regular site inspections to monitor upgraded path network and maintain to design standards

Objectives	Performance Targets	Means of Achievement	Means of Assessment
	<ul style="list-style-type: none"> Maintain existing historic and visual character of circulation system 	<ul style="list-style-type: none"> Any repairs or new construction are to employ materials and methods equal to existing or in accordance with Icomos guidelines. 	<ul style="list-style-type: none"> Materials used are appropriate
	<ul style="list-style-type: none"> Provide equitable access as far as possible, acknowledging that site is steep and not accessible to all visitors in accordance with Council's DCP No. 31 'Access' 	<ul style="list-style-type: none"> Ensure that circulation system is consistent where possible with KC's Access Policy Provide disabled access to playground Facilitate disabled access from playground to second grass terrace Investigate possibility of access to all to Waterfront. That Council use its best endeavours to achieve access to the waterfront for people with disabilities. 	<ul style="list-style-type: none"> Survey users to determine level of satisfaction with access to and within the Park
	<ul style="list-style-type: none"> Provide hierarchy of site entrances 	<ul style="list-style-type: none"> Visually enhance major entrances (especially main entrance at southern end Babbage Road and playground entrance) Maximise access at these two entrances within site constraints Refer signage recommendations (below) 	<ul style="list-style-type: none"> Condition of entrances
	<ul style="list-style-type: none"> Provide clear links between site paths and the Two Creeks and Middle Harbour Foreshore Tracks 	<ul style="list-style-type: none"> Install signage to indicate path junctions Investigate options for linking southern end of Park (near Roseville Bridge Marina) to Middle Harbour Foreshore Track 	<ul style="list-style-type: none"> Liaison with Willoughby Council Signage installed
	<ul style="list-style-type: none"> Provide a range of structures, furniture and facilities that adequately meets user requirements and adds a valuable amenity to the Park, while maintaining existing informal and aesthetic quality 	<ul style="list-style-type: none"> Analyse existing structures, furniture and facilities in terms of user requirements and appropriateness of use value, style and design Develop and implement prioritised plan for rationalising, refurbishing, replacing, relocating or removing existing facilities or installing new one. Investigate feasibility of providing access to the southern part of the Park for small boats. 	<ul style="list-style-type: none"> Monitor facility use to ensure objective is being fulfilled
	<ul style="list-style-type: none"> Ensure all structures, furniture, facilities and signage are visually pleasing, thematically consistent, sympathetically located and compatible with Park's heritage values and informal character 	<ul style="list-style-type: none"> Continue to develop appropriate colours, forms and materials for park structures, furniture and facilities 	<ul style="list-style-type: none"> Visitor survey to assess aesthetic response
b) To provide for passive recreational activities or pastimes and for the casual playing of games and to improve the land in such a way as to promote and	<ul style="list-style-type: none"> Playground should be attractive, varied, interesting and with soft-fall ground surface 	<ul style="list-style-type: none"> Play equipment to relevant standards and in response to identified need 	<ul style="list-style-type: none"> Playground is consistent with Council's Playground Compliance Plan
	<ul style="list-style-type: none"> Provide secure fencing 	<ul style="list-style-type: none"> Install fencing in locations identified and prioritised in risk assessment of Park 	<ul style="list-style-type: none"> Appropriate fencing has been installed Appropriate facilities provided Use levels and user satisfaction
	<ul style="list-style-type: none"> Ensure adequate seating in playground 	<ul style="list-style-type: none"> Review adequacy of existing seating and provide extra if necessary 	

Objectives	Performance Targets	Means of Achievement	Means of Assessment
facilitate its use to achieve the other core objectives for its management	<ul style="list-style-type: none"> Increase summer shade to playground 	<ul style="list-style-type: none"> Plant locally indigenous shade trees near play equipment and seating. 	
	<ul style="list-style-type: none"> Improve access from Babbage Road to playground, especially for prams and disabled persons 	<ul style="list-style-type: none"> Ensure level access adjacent to existing double gate at playground, or modify gate driveway 	<ul style="list-style-type: none"> Playground accessibility
	<ul style="list-style-type: none"> Retain extensive lawn areas for passive recreational activities (eg informal games, kite flying, bocce, casual play) 	<ul style="list-style-type: none"> Maintain existing open character of terraces and former-Baths site 	<ul style="list-style-type: none"> Use levels and user satisfaction
	<ul style="list-style-type: none"> Ensure ongoing opportunity for fishing from rocks and seawall at former-Baths site 	<ul style="list-style-type: none"> Maintain status quo 	
	<ul style="list-style-type: none"> Ensure variety of quiet seating areas 	<ul style="list-style-type: none"> Ensure seat placement in variety of locations – open / enclosed, sunny / shady / views etc 	
	<ul style="list-style-type: none"> To provide sufficient parking to meet the needs of Park users and the local community 	<ul style="list-style-type: none"> Monitor car parking usage levels to confirm provision is meeting demand 	<ul style="list-style-type: none"> Monitor levels of car parking in Babbage Road associated with Park usage
	<ul style="list-style-type: none"> Enhance aesthetic experience of Park 	<ul style="list-style-type: none"> Identify major viewing points, views and view corridors in the Park Maximise water views by ensuring no planting higher than 1.2m in identified view corridors Supplement ornamental planting in terraced garden beds, and in formal garden beds near former-Baths site Plant shade trees on former-Baths site, taking care to avoid historic building footings and allowing for informal games (including bocce) Investigate relocation of power pole at top of sandstone steps near main entrance to improve view from entrance 	<ul style="list-style-type: none"> Site inspection and report to verify development and installations; and removal of light pole Periodic assessment by open space staff Visitor survey to assess aesthetic response
	<ul style="list-style-type: none"> Manage Park vegetation in a manner consistent with protection of site's 'Bushland' and 'Foreshore' vegetation 	<ul style="list-style-type: none"> Develop Park planting and maintenance program Exotic mature trees which are non-invasive may be retained Mature native (but not locally indigenous) trees which are non-invasive may be retained 	<ul style="list-style-type: none"> Monitor and control spread of exotic and native (but not locally indigenous) plants

TABLE 6 – MANAGEMENT OF AREA OF CULTURAL SIGNIFICANCE (INDIGENOUS)

Objectives	Performance Targets	Means of Achievement	Means of Assessment
<p>The core objectives for management of community land categorised as an area of cultural significance are to retain and enhance the cultural significance of the area (namely its Aboriginal, aesthetic, archaeological, historical, technical or research or social significance) for past, present or future generations by the active use of conservation methods.</p> <p>Those conservation methods may include any or all of the following methods:</p>			
<p>a) The continuous protective care and maintenance of the physical material of the land or of the context and setting of the area of cultural significance</p>	<ul style="list-style-type: none"> Determine number, nature and extent of sites (if any) in Lots 52 and 53 (C and B), 94, 95 and 139 (bushland area bounded by Normac Street, Allard Avenue and Babbage Road) 	<ul style="list-style-type: none"> Conduct survey when bush regeneration in these Lots improves accessibility. Undertake discreet test excavations after consultation with NPWS and MLALC. Report any newly identified sites to the NPWS Director-General for assessment and documentation 	<ul style="list-style-type: none"> Findings of a survey reported to NPWS following consultation with MLALC
	<ul style="list-style-type: none"> Prevent damage to Aboriginal sites 	<ul style="list-style-type: none"> Establish a baseline recording of the condition of the sites for comparison during ongoing monitoring Prepare and implement program for regular monitoring of the condition of sites with priority given to those most threatened with human impact or natural deterioration Formulate and implement strategies for stabilising and conserving sites in line with Koettig's policies (1988,1994) and with <i>Echo Point Park: Heritage Assessment Report</i> (2002) 	<ul style="list-style-type: none"> As long as the status quo is maintained, monitoring by an archaeologist and an Aboriginal community representative should be required only once every five years. In the event of adverse impacts being noted, however, professional and Aboriginal community advice should be sought immediately.

Objectives	Performance Targets	Means of Achievement	Means of Assessment
	<ul style="list-style-type: none"> • Minimise erosion of middens • Protect bushland and foreshore as contextual landscape settings for items of cultural significance and as areas of cultural significance in their own right 	<p>Options include</p> <ul style="list-style-type: none"> • Stabilising midden edges • Minimising pedestrian activity in middens • Formalise a single path and stairway access to rock platform and other selected locations • Refer to Table 4 (Foreshore) for prevention of foreshore erosion • Refer Tables 3 and 4 (Natural Area - Bushland and Foreshore) 	<ul style="list-style-type: none"> • Regular monitoring to confirm sites intact and strategy implemented • NPWS and MLALC approval • Inspection report to confirm removals and construction • Refer Tables 3 and 4 (Natural Area – Bushland and Foreshore)
b) The restoration of the land, that is, the returning of the existing physical material of the land to a known earlier state by removing accretions or by reassembling existing components without the introduction of new material	<ul style="list-style-type: none"> • N.A. 	<ul style="list-style-type: none"> • N.A. 	<ul style="list-style-type: none"> • N.A.
c) The reconstruction of the land, that is, the returning of the land as nearly as possible to a known earlier state	<ul style="list-style-type: none"> • N.A. 	<ul style="list-style-type: none"> • N.A. 	<ul style="list-style-type: none"> • N.A.
d) The adaptive reuse of the land, that is, the enhancement or reinforcement of the cultural significance of the land by the introduction of sympathetic alterations or additions to allow compatible uses (that is, uses that involve no changes to the cultural significance of the physical material of the area, or uses that involve changes that are substantially reversible or changes that require minimum impact)	<ul style="list-style-type: none"> • Interpret Aboriginal sites to Park visitors in a manner which is culturally sensitive and consistent with their conservation • Ensure that any significance assessment, conservation planning, protection, interpretation and promotion of Echo Point Park's Aboriginal heritage is culturally acceptable to the Aboriginal community and consistent with NPWS requirements 	<ul style="list-style-type: none"> • In consultation with NPWS and MLALC, determine desired level of public information and access to sites and then formulate strategies • Ongoing liaison between NPWS and MLALC • Upon discovery during works of any possible indigenous artefact at the site work is to cease and consultation with MLALC is to be implemented. 	<ul style="list-style-type: none"> • NPWS approval • MLALC consultation • Assess implementation of agreed action • NPWS and MLALC are consulted as part of process

Objectives	Performance Targets	Means of Achievement	Means of Assessment
<p>e) The preservation of the land, that is, the maintenance of the physical material of the land in its existing state and the retardation of deterioration of the land.</p> <p>A reference to land includes a reference to any buildings erected on the land.</p>	<ul style="list-style-type: none"> • Protect bushland and foreshore 	<ul style="list-style-type: none"> • Refer Tables 3 and 4 (Natural Area – Bushland and Foreshore) 	<ul style="list-style-type: none"> • Refer Tables 3 and 4 (Natural Area – Bushland and Foreshore)

TABLE 7 – MANAGEMENT OF AREA OF CULTURAL SIGNIFICANCE (NON-INDIGENOUS)

Objectives	Performance Targets	Means of Achievement	Means of Assessment
<p>The core objectives for management of community land categorised as an area of cultural significance are to retain and enhance the cultural significance of the area (namely its aesthetic, archaeological, historical, technical or research or social significance) for past, present or future generations by the active use of conservation methods.</p> <p>Those conservation methods may include any or all of the following methods:</p>			
<p>a) The continuous protective care and maintenance of the physical material of the land or of the context and setting of the area of cultural</p>	<ul style="list-style-type: none"> • Protect the existing landscape as contextual setting of non-indigenous items and area of cultural significance 	<ul style="list-style-type: none"> • Refer to Tables 3, 4 and 5(c) (Bushland, Foreshore and Park) for landscape protection and management recommendations 	<ul style="list-style-type: none"> • Refer to Tables 3, 4 and 5(c) (Bushland, Foreshore and Park) for means of assessment

Objectives	Performance Targets	Means of Achievement	Means of Assessment
significance	<ul style="list-style-type: none"> • Protect remaining pre-1920 cultural items associated with the site's early farming history. These include: <ul style="list-style-type: none"> – boxed-out recesses in sandstone outcrop in position of former timber jetty – possible farm cottage foundations below grass level on second terrace – possible 'midden' of 19th century farm artefacts at southern end of lowest grass terrace – possible remnant orchard trees or stumps – creek as likely source of fresh water for farm 	<ul style="list-style-type: none"> • Keep recessed outcrop free of weeds and graffiti • Refer (d) below for suggested excavations • Undertake detailed vegetation survey to locate remnant farm trees or stumps (if any) which may have heritage value. Refer also to recommendations for African Olives in Table 3(d) (Bushland). • Refer Table 3(e) (Bushland) for creek protection measures 	<ul style="list-style-type: none"> • Inspection by Open Space staff

Objectives	Performance Targets	Means of Achievement	Means of Assessment
	<ul style="list-style-type: none"> • Protect remaining post-1920 cultural items, mostly examples of early 1930s Depression Relief Labour. These include: <ul style="list-style-type: none"> -- picnic shelter – circulation system of crushed sandstone paths and sandstone walls, steps and drains – terraced lawns – formed sandstone seawall – remains of stone abutments to old Roseville Bridge – foundation footprints of former Roseville Baths, dressing sheds, caretaker's cottage and kiosk – remains of grotto at former-Baths site 	<ul style="list-style-type: none"> • While most formal paths can be maintained in existing condition, identify and repair those sections requiring repairs • Identify and make good those sections of sandstone dry-stone walls requiring repair • Identify and make good those sandstone steps or staircases requiring repair. Secure any loose treads • Maintain stone drains in existing positions whether or not still functional as drains • Maintain terraced lawns in existing condition except for any walls and steps requiring repair • Identify and implement any repairs to seawall consistent with original materials and construction methods • Retain in situ the limited remains of bridge abutments • Retain brick and concrete foundations of buildings associated with former Roseville Baths. Refer (d) below for suggested excavations. Any new picnic tables and / or shelters are to be sited sympathetically and avoid damage to foundations • Retain grotto work remnants near cliff at former-Baths site. Undertake works as necessary to stabilise, consistent with original materials and construction. • Retain foundations and sandstone terrace to former kiosk and caretaker's cottage, stabilising edges if necessary 	<ul style="list-style-type: none"> • Post-repair survey of each works item to certify outcome • Periodic inspection and report by open space staff and/or conservation architect to assess structural integrity and safety
	<ul style="list-style-type: none"> • Protect / maintain aesthetic and cultural character of existing paths, walls, steps and drains 	<ul style="list-style-type: none"> • Any repairs are to use materials and construction methods equal to existing • Refer (d) below for paths to be replaced 	<ul style="list-style-type: none"> • Approval of conservation architect, landscape architect and/or archaeologist • Periodic visual inspections
	<ul style="list-style-type: none"> • Protect the remains of listed heritage items 	<ul style="list-style-type: none"> • Protect the remains of Roseville Baths, old Roseville Bridge and the site of Echo Point Farm in accordance with the provisions of relevant Plans and Policies • Prepare and implement program for regular monitoring of site condition with priority given to those most threatened with human impact or natural deterioration 	<ul style="list-style-type: none"> • Ongoing monitoring to ensure remains intact • Regular monitoring to ensure sites intact and undamaged

Objectives	Performance Targets	Means of Achievement	Means of Assessment
b) The restoration of the land, that is, the returning of the existing physical material of the land to a known earlier state by removing accretions or by reassembling existing components without the introduction of new material	<ul style="list-style-type: none"> N.A. 	<ul style="list-style-type: none"> N.A. 	<ul style="list-style-type: none"> N.A.
c) The reconstruction of the land, that is, the returning of the land as nearly as possible to a known earlier state	<ul style="list-style-type: none"> N.A. 	<ul style="list-style-type: none"> N.A. 	<ul style="list-style-type: none"> N.A.
d) The adaptive reuse of the land, that is, the enhancement or reinforcement of the cultural significance of the land by the introduction of sympathetic alterations or additions to allow compatible uses (that is, uses that involve no changes to the cultural significance of the physical material of the area, or uses that involve changes that are substantially reversible or changes that require a minimum impact)	<ul style="list-style-type: none"> Allow for removal of selected items aesthetically incompatible with original construction materials and methods 	<ul style="list-style-type: none"> Remove concrete path and steps on terraces and replace with sandstone path to match existing on other paths Remove concrete path linking lowest terrace to sandstone path north-west of Roseville Bridge Marina, and replace with sandstone path to match others on site 	<ul style="list-style-type: none"> Works completed
	<ul style="list-style-type: none"> Allow for minor amendments to existing crushed sandstone paths to facilitate disabled access and to minimise damage to Aboriginal middens 	<ul style="list-style-type: none"> Undertake minor regrading and resurfacing of crushed sandstone path from playground to second grass terrace to facilitate disabled access Consider minor re-routing of crushed sandstone paths at select locations to avoid traversing and damaging middens 	<ul style="list-style-type: none"> Works completed
	<ul style="list-style-type: none"> Formalise access from northern end of former-Baths site to northern end of Babbage Road to protect landform and remains of bridge abutments 	<ul style="list-style-type: none"> Construct formal path and steps using materials and construction methods typical on site 	<ul style="list-style-type: none"> Works completed
	<ul style="list-style-type: none"> Determine nature and extent of sites to assist understanding of conservation values 	<ul style="list-style-type: none"> Conduct site survey of Park 	<ul style="list-style-type: none"> Involvement of relevant staff and expertise Survey completion and report to KMC on findings

Objectives	Performance Targets	Means of Achievement	Means of Assessment
	<ul style="list-style-type: none"> Maximise the site's educational potential, acknowledging that (aside from the terraces and circulation system) there is limited physical evidence of the site's post-1920 cultural significance, and almost none of its early farming history 	<ul style="list-style-type: none"> Develop means of interpreting to visitors the site's cultural significance in a manner consistent with its conservation. 	<ul style="list-style-type: none"> Involvement of relevant staff and expertise in development and implementation of interpretation mechanisms and strategies. Survey visitors to evaluate satisfaction and response.
<p>e) The preservation of the land, that is, the maintenance of the physical material of the land in its existing state and the retardation of deterioration of the land.</p> <p>A reference to land includes a reference to any buildings erected on the land.</p>	<ul style="list-style-type: none"> Refer (a) above Refer Tables 3, 4 and 5(c) (Bushland, Foreshore and Park) 	<ul style="list-style-type: none"> Refer (a) above Refer Tables 3, 4 and 5(c) (Bushland, Foreshore and Park) 	<ul style="list-style-type: none"> Refer (a) above Refer Tables 3, 4 and 5(c) (Bushland, Foreshore and Park)

6.3 Summary of Management Recommendations

Bushland

- Manage landscape processes to favour locally indigenous flora and fauna
- Exclude human access from some areas in order to protect habitat
- Maximise fauna habitat – especially for small birds and ground-dwelling fauna
- Protect existing aesthetic character
- Enhance aesthetic experience
- Remove elements which obscure or distort understanding of site's natural history, and reveal those elements which enhance it
- Maintain existing water views
- Maximise educational potential of bushland
- Contain pedestrian movement in bushland areas to safe and formal (controlled access) paths
- Establish stronger links between Echo Point Park and the Community
- Promote visitor health and safety at contact points with polluted water
- Include Lot 139, Number 2 Allard Avenue and 21 Normac Street in Echo Point Park to increase area of managed bushland
- Restore bushland areas of the Park towards original vegetation communities
- Remove weeds from bushland
- Minimise exotic plant invasion, especially from nearby residential gardens and KC-owned lands adjacent to Echo Point Park
- Prevent / minimise soil erosion
- Protect and enhance creek area as part of Echo Point Park
- Minimise siltation at creek junction with Middle Harbour
- Improve water quality in lower reaches of creek
- Protect all rock overhangs and outcrops
- Expand Echo Point Park's bushland component and manage the Park in context, recognising that it is too small to be ecologically viable in itself, but that its potential can be maximised and protected as a component link in a chain of discontinuous but compatible reserves (especially as part of a wildlife corridor for birds).

Foreshore

- Minimise/prevent foreshore erosion from seaward side
- Minimise/prevent foreshore erosion from landward side
- Maintain/enhance diversity and health of locally indigenous foreshore vegetation
- Protect marine and intertidal fauna
- Control domestic animals on beach
- Minimise littering
- Protect rock platform

Park

- Manage Park to enhance its value as a regional recreational resource, within its user capacity
- Ensure Park management is compatible with the management objectives of an Area of Cultural Significance.
- Install signage at appropriate locations in Park to direct, interpret and prescribe to Park users in a simple, unobtrusive and appropriate manner
- Ensure that Park signage acknowledges pre-European site settlement and history
- Ensure all paths, walls and steps are safe and in good repair
- Maintain existing historic and visual character of circulation system
- Provide equitable access as far as possible, acknowledging that site is steep and not accessible to all visitors
- Provide hierarchy of site entrances
- Provide clear and accessible links between site paths and the Two Creeks and Middle Harbour Foreshore Tracks
- Ensure circulation system respects management objectives of site's other land categories (Bushland, Foreshore, Area of Cultural Significance)
- Provide a range of structures, furniture and facilities that adequately meets user requirements and adds a valuable amenity to the Park, while maintaining existing informal and aesthetic quality
- Ensure all structures, furniture, facilities and signage are visually pleasing, thematically consistent, sympathetically located and compatible with Park's heritage values and informal character
- Play equipment in playground should be attractive, varied, interesting and with soft-fall ground surface
- Provide secure fencing as required
- Ensure adequate seating in playground
- Provide summer shade to playground
- Improve access from Babbage Road to playground, especially for prams and disabled persons
- Retain extensive lawn areas for passive recreational activities (eg informal games, kite flying, bocce, casual play)
- Ensure ongoing opportunity for fishing from rocks and seawall at former-Baths site
- Ensure variety of quiet seating areas
- Investigate acquisition from Dept. of Land and Water Conservation that part of Babbage Road at its 'elbow' near park entrance
- To provide sufficient car parking to meet the needs of Park users and local community
- Improve pedestrian circulation (especially for disabled access) between the top two grass terraces and Park entrances from Babbage Road
- Enhance aesthetic experience of Park
- Manage Park vegetation in a manner consistent with protection of site's 'Bushland' and 'Foreshore' vegetation

Cultural Significance (Indigenous)

- Determine number, nature and extent of sites (if any) in Lots 52 and 53 (C and B), 94, 95 and 139
- Prevent damage to Aboriginal sites
- Minimise erosion of middens
- Protect bushland and foreshore as contextual landscape settings for items of cultural significance and as areas of cultural significance in their own right
- Interpret Aboriginal sites to Park visitors in a manner which is culturally sensitive and consistent with their conservation
- Ensure that any significance assessment, conservation planning, protection, interpretation and promotion of Echo Point Park's Aboriginal heritage is culturally acceptable to the Aboriginal community and consistent with NPWS requirements
- Consider an Aboriginal name or dual nomenclature for Echo Point Park
- Protect bushland and foreshore

Cultural Significance (Non-Indigenous)

- Protect the existing landscape as contextual setting of non-indigenous items and area of cultural significance
- Protect remaining pre-1920 cultural items associated with the site's early farming history. These include:
 - boxed-out recesses in sandstone outcrop in position of former timber jetty
 - possible farm cottage foundations below grass level on second terrace
 - possible 'midden' of 19th century farm artefacts at southern end of lowest grass terrace
 - possible remnant orchard trees or stumps
 - creek as likely source of fresh water for farm
- Protect remaining post-1920 cultural items, mostly examples of early 1930s Depression Relief Labour. These include:
 - circulation system of crushed sandstone paths and sandstone walls, steps and drains
 - terraced lawns
 - picnic shelter
 - formed sandstone seawall
 - remains of stone abutments to old Roseville Bridge
 - foundation footprints of former Roseville Baths, dressing sheds, caretaker's cottage and kiosk
 - remains of grotto at former-Baths site
 - sandstone road cuttings to Babbage Road and Old Manly Road
 - metal road centre line plates along Babbage Road
- Protect / maintain aesthetic and cultural character of existing paths, walls, steps and drains
- Protect the remains of heritage items listed in *Sydney and Middle Harbours SREP No. 23 and Design Management Guidelines*
- Allow for removal of selected items aesthetically incompatible with original construction materials and methods
- Allow for minor amendments to existing crushed sandstone paths to facilitate disabled access and to minimise damage to Aboriginal middens
- Formalise access from northern end of former-Baths site to northern end of Babbage Road to protect landform and remains of bridge abutments

- Determine nature and extent of sites to assist understanding of conservation values
- Maximise the site's educational potential, acknowledging that (aside from the terraces and circulation system) there is limited physical evidence of the site's post-1920 cultural significance, and almost none of its early farming history

6.4 Implementation

This Plan includes 69 Performance Targets and associated actions (Means of Achievement) to guide conservation / protection and future management of Echo Point Park. Whilst this is a significant number of targets and actions for a single park it is indicative of the Park's extensive conservation values, heritage values (indigenous and non-indigenous), and range of recreation opportunities.

The targets in many cases do not require the expenditure of specific funds and will / are already being addressed as part of cyclical maintenance and day to day management of the park. The majority of the remaining targets (and associated actions) can be achieved within existing park expenditure through redirection of existing resources rather than allocation of additional resources. Those actions that require specific allocation of funds will be listed and considered through Council's Capital Works program.

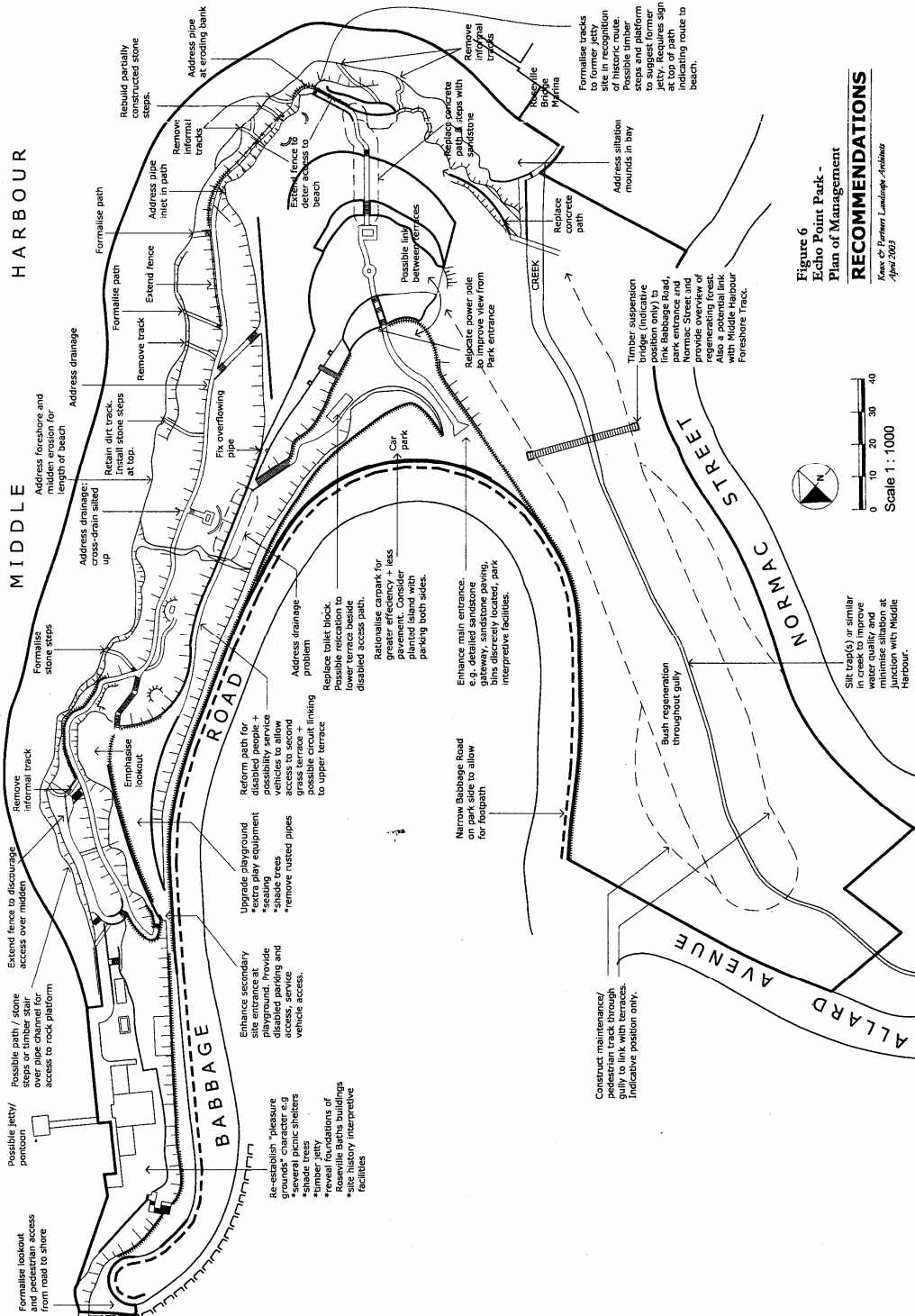


Figure 6
Recommendations

7. USE AND CONDITION OF THE LAND AND STRUCTURES ON ADOPTION OF THE PLAN

7.1 Use of the Land and Structures

Echo Point Park is an informal park currently used for the following activities:

- informal / passive recreation including:
 - walking
 - picnicking and barbecues
 - exercising dogs
 - children's play
 - fishing
 - paddling
 - bocce
- landscaping (including maintenance)
- bushland conservation
- car parking
- events (such as weddings)

7.2 Condition of the Land and Structures

This Section describes the condition of land and structures in each land category at the date of adoption of this Plan. (Refer to Figure 2).

7.2.1 Natural Area (Bushland)

Over 80% of Echo Point Park is covered in bushland which ranges in condition from fair to poor. The several plant communities (Forest of varying combinations of *Angophora costata*, *Casuarina glauca*, *Eucalyptus piperita*, *E. punctata*, *Ficus rubiginosa* and *Melaleuca styphelioides*; *A. costata* – *Callitris rhomboidea* Open Forest; and *Avicennia marina* (Mangrove) Low Forest) are not unusual or threatened, but important locally for their aesthetic, habitat and environmental values.

Bushland has been compromised by terrace and path construction, increased stormwater runoff, and more recently by soil erosion on steep banks, unauthorised tracks to the foreshore, insufficient maintenance and weed invasion (most heavily in Lots 52 and 53 (C and B), 94, 95 and 139) and tree dieback.

Creek water quality is poor – particularly after heavy rainfall events - owing to physical and chemical pollutants and to siltation.

7.2.2 Natural Area (Foreshore)

Echo Point Park's shoreline boundary is legally at the mean high water mark of Middle Harbour. However, for practical management purposes the beach to mean low water mark is included in Table 4.

The beach is in mostly good condition, with the exception of occasional broken glass, dog faeces, fishing tackle and litter (off site).

The foreshore at mean high water mark ranges from good to fair condition, the latter concerning areas of bank undercutting by wave action or erosion at stormwater pipe outlets and unauthorised paths.

7.2.3 Park

Most park areas are in good condition. Grass cover on the terraces, former Baths site and children's playground is generally very good. Play equipment is structurally sound and in good condition. Formal garden beds and planting are in good condition, as are most of the specimen trees – with the exception of the three Golden Ash (*Fraxinus excelsior*) which are poor.

Concrete paths and steps are in good condition but aesthetically inconsistent with older stonework. The two timber footbridges are mostly sound but require replacement of some rotting and broken planks. The timber sleeper steps below the playground are in deteriorating condition and require replacement.

Chainwire fencing is in good condition and appropriately sited, but may warrant replacement over time for aesthetic reasons and extension in the short term to protect eroding banks and middens. Handrails are in good condition and could be extended on steep steps.

The amenities block is structurally sound but aesthetically inappropriate, wheelchair inaccessible and of arguably suitable location. Toilet facilities are aging and in fair condition.

The picnic shelter is in very good condition, but is inappropriately sited and should be relocated intact. Picnic tables and park benches are in generally good condition but require supplement. Stone barbecues are in good condition and appropriately sited. The drinking fountain is in good condition but aesthetically inappropriate with park stonework. The limited park signage is in fair condition but requires upgrade. Water pipes are in poor condition (rusting and exposed) and are potentially hazardous.

7.2.4 Area of Cultural Significance (Indigenous)

While the whole of Echo Point Park is an area of Aboriginal cultural significance for demonstrating clear evidence of Aboriginal occupation in art and midden sites, individual sites have been partially to totally destroyed – mostly by walking track construction in the 1930s, by the unsympathetic location of drainage pipe outlets and to foreshore erosion by foot traffic and wave action. Overall condition is therefore poor.

7.2.5 Area of Cultural Significance (Non-Indigenous)

The whole of Echo Point Park is an area of European cultural significance for being the site of one of the first farms in the northern region of Sydney; for the network of sandstone paths, walls and steps installed as Depression Relief labour in the 1930s; for the remains of Old Roseville Baths and the Old Roseville Bridge; and for sandstone road cuttings indicating the early alignments of Babbage Road and Old Manly Road which were to link the North Shore to the Northern Beaches.

There is no remaining visible evidence of the farm except for two boxed out recesses in a foreshore sandstone outcrop indicating the position of the farm's former timber jetty, and a wide scatter of 19th century domestic artefacts on the lowest grass terrace which are probably associated with a farm dump.

Given their informal character, most paths are in good and appropriate condition. However, some path areas and stone drains are prone to siltation from eroding steep banks and therefore to impeded drainage and bogginess. Some stone cobble edges are dislodged or silting over. Most stone retaining walls are in good condition, but with some patches of collapse and/or crumbling.

There are limited remains of the Roseville Baths complex – mostly brick and/or concrete foundation strips, one sandstone paved terrace and one grotto column. The formed sandstone seawall is in good condition, but the low drystone seawall near the rock platform is crumbling and in poor repair.

The limited remains of Old Roseville Bridge include sandstone abutment fragments in poor condition. The sandstone road cuttings to Babbage Road and Old Manly Road are in good condition and appear as revegetating cliffs.



Photo 1. Eroded short-cut track.



Photo 2. Lower seawall and site of former baths.



Photo 3. View on entry at upper Babbage Road.



Photo 4. Central path and pavilion.



Photo 5. Stone stair to upper grass terrace.



Photo 6. Location of middens.

Photographic Summary of Existing Condition

8. FUTURE USE AND DEVELOPMENT OF THE LAND

8.1 Future Use of the Land

Echo Point Park will be used in future for general community passive recreation. This Plan of Management authorises all of the following uses for the Park:

- all of the activities listed in Section 7.1 of this Plan (subject to Council decision re off-leash and/or on-leash exercising of dogs); plus
- bush regeneration involving community volunteers
- school study groups

8.2 Future Development of the Land

This Plan of Management authorises the development at Echo Point Park, within the requirements of relevant legislation and Council policy, and consistent with the core objectives expressed in Section 6 of this Plan including, but not limited to:

- park furniture
- playground equipment
- fencing
- picnic shelters and BBQ's
- landscape works; and
- bushland regeneration.

Local residents within a 500 metre radius of Echo Point Park will be consulted prior to any decision being made regarding provision of any pontoon/wharf in the park or any pedestrian bridge/walkway in the bushland in the park between Babbage Road and Allard Avenue.

8.3 Scale and Intensity of Permitted Uses

Refer Table 8.

Table 8 - Scale and Intensity of Permitted Uses

Use	Scale	Intensity
Car parking	Limited to existing and proposed car parking on Babbage Road	24 hours 7 days a week
Informal / passive recreation	Limited to physical capacity of existing and proposed facilities within developed areas and confined to formal pathways in bushland areas	Unrestricted times, but in accordance with any displayed notices and with core objectives in Tables 3-7
Exercising dogs	Limited to developed areas and to formal pathways in bushland; and to foreshore only if controlled	Unrestricted times, but in accordance with Council policy re leashed and/or unleashed dog areas, and with core objectives in Tables 3-5
Fishing	Limited to foreshore	Unrestricted times, but in accordance with legal requirements re undersize fishing and maximum bag catches etc; and in accordance with core objectives in Table 4
Landscaping	Limited to existing areas	Unrestricted, but in accordance with core objectives in Table 5
Bushland conservation	Within existing bushland areas	No restriction
Bush regeneration involving community volunteers	Within existing bushland areas	Unrestricted, but in accordance with core objectives in Table 3
Booked study groups	In all areas, but confined to formal pathways in bushland areas	Limited to one group at a time.

9. LEASES, LICENCES AND OTHER ESTATES

The grant of a lease, licence or other estate in respect of so much of the land to which this Plan applies, as comprises Echo Point Park, is hereby expressly authorised:

- a. for any purpose for which the land was being used at the date this Plan was adopted (of for any purpose referred to in Section 7.1 of this Plan)
- b. for any other purpose prescribed by Section 46 of the *Local Government Act 1993* or the Regulation made thereunder (Refer Appendix 11.7)

The granting of leases, licences and other estates must be consistent with the core objectives of the land's categorisation by this Plan of Management as indicated in Section 6 of this Plan.

This Plan prohibits the granting of leases, licences or other estates for uses which are prohibited by the zoning of the land, or contrary to the core objectives of this Plan of Management.