



Cardinia Shire Council

Recreational Open Space Strategy

Adopted 4 December 2000

Prepared by:



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EXECUTIVE SUMMARY

1. Introduction

The Executive Summary provides a summary of key information from the Recreational Open Space Strategy. It is recommended however that this report be reviewed in conjunction with the final draft of the Recreational Open Space Strategy.

The following information, is included as part of this document:

- The Vision
- Summary of Demand
- Suggested Open Space Performance Indicators
- Provisional levels of Open Space
- Existing Provision of Local and District Open Space for Future Population
- Guiding Principals for Planning and Managing Recreational Open Space
- Major Elements of the Open Space Strategy

1.1 Scope and Project Objectives

This Recreational Open Space Strategy has general application to the whole of the Shire of Cardinia, with particular emphasis given to meeting the recreational open space needs of existing and anticipated urban populations.

Recreational Open Space can be interpreted in a variety of different ways. In this Strategy document, recreational open space is considered as local, neighborhood and district parks, sporting and non – sporting, as well as linear linkages.

The Strategy is designed to:

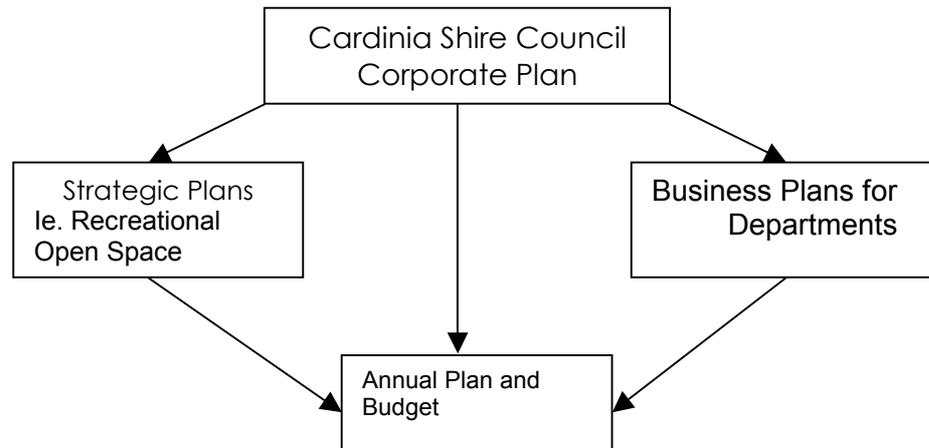
- provide a clear vision and direction regarding the purpose, provision, development priorities, management and use of all recreational open space areas, and
- provide direction regarding priority actions necessary to achieve the vision over the next 5-10 years

1.2 Relationship to Corporate Plan

The Vision for Cardinia Shire is:

“To provide and improving environmentally sustainable lifestyle that promotes opportunity, celebrates diversity and provides citizens with the climate to fulfil their potential.”

The Recreational Open Space Strategy relates directly to this vision and has been formulated within the context of Council’s overall strategic planning framework. In accordance with Council’s framework, the Recreational Open Space Strategy is presented in the following context:



1.3 Process Overview

The preparation of the Recreational Open Space Strategy involved the four main stages as follows:

- **Stage 1:** Information Review & Data Collection
- **Stage 2:** Demand & Needs Assessment
- **Stage 3:** Draft Strategy Formulation
- **Stage 4:** Strategy Finalization

2. The Vision

The community of Cardinia desires meaningful involvement with their Council to plan and develop a quality, interconnected open space system which:

- *Is safe, convenient and accessible for people to appreciate and use,*
- *Offers a variety of opportunities which encourage people to participate in different recreational, sporting and cultural activities, catering for a wide range of community needs*
- *Balances the need for the protection of environmental, landscape and heritage values with sporting and recreational uses*
- *Retains the essence of the existing character of rural areas and provides visual separation between urban areas and towns*
- *Can be effectively managed and maintained, and*
- *Integrates with surrounding open space areas provided by local government and other government agencies.*

3. Summary of Demand

Given the demographics and the existing facility supply considerations, it is anticipated that the greatest demand in Cardinia over the next 5-10 years will be for:

- Facilities for young families and youth, especially in growth corridor areas
- Adequate provision and reservation of open space and recreational facilities for projected populations in the growth corridor.
- Increased safety and security for current on-road recreation users as traffic volumes increase.
- Establishment of safe off-road trails and corridors of open space, connecting major reserves and enabling the development of “Hills to Water” trails.
- Identifying all open space and its land management status within the Shire for the purpose of earmarking land for future public open space.
- Protection of bush blocks and conservation values.
- Improved opportunities and facilities for women and “non-traditional” activities, including non sporting recreation activities.
- Improvement of opportunities to facilitate walking
- Continued upgrading of facilities and reserves and ongoing management arrangements
- Management of remnant bushland, watercourses, wetlands and heritage landscapes to enable enjoyment without compromising their environmental sustainability.

4. Suggested Open Space Performance Indicators

In order to realise the open space vision for Cardinia Shire, the following performance targets will be aimed for in rural towns and surrounding areas:

a) within each township:

- a park catering for informal, outdoor recreation activities for the whole family
- a multipurpose sports complex suitable for club competition community events, training and junior sports
- an indoor, multipurpose community space

b) within 500 metres of most residences within townships:

- access to a safe pedestrian/cycle path network

c) Within 5-10 km of the majority of residences in larger rural towns:

- provision of 6-8ha of district level recreation parkland and 6-8ha of district sporting areas (where population numbers make it viable to do so)

d) foreshore areas

- Access for boating activity at selected locations that does not disturb the significant and fragile habitat along Western Port.

e) Within every precinct a range of park types or park experiences:

- local level outdoor recreation areas providing opportunities for sport, play passive enjoyment of a range of values.

- district level recreation areas providing opportunities for sport, play passive enjoyment of a range of values.
- district level sporting facilities providing for a diversity of activities with flexibility for changing provision and demand.

NB: Please refer to the 'Precinct Plan' (Figure 3.4 - Page 13) for clarification of precinct areas within Cardinia Shire.

All facilities and areas to:

- be effectively managed,
- be maintained in line with the prime purposes of management,
- comply with Australian Design Standards, and
- be safe, accessible and attractive to users.

5. Provisional Levels of Open Space

In order to provide for a minimal level of local and district open space areas and facilities in new urban areas it is suggested that the Shire of Cardinia aim for a provision of 5ha /1000 head of population. To provide minimal levels of recreation and sporting areas this 5ha/1000 people should be broken into approximately 3ha for outdoor recreational facilities and 2ha for outdoor sporting facilities. (Res. type 1 – 25 people per ha).

The provision level of open space for non - urban areas varies from that of urban areas. To provide minimal levels of recreation and sporting areas a total of 2.5ha/1000 people should be broken into approximately 0.5ha for outdoor recreational facilities and 2ha for outdoor sporting facilities.

6. Existing Provision of Local and District Open Space for Future Population

Key to Supply of Open Space

- ✗ – presently under supplied
- ✓ - existing supply is adequate
- ✚ - presently over supplied

Existing Provision of Local and District Recreational Open Space

Precinct	Local Rec	District Rec	District Sport	Comment
<i>Northern</i>	✓	✓	✓	Local generally well provided but additional local open space required in Cockatoo and Emerald.
<i>West Central</i>	✓	✓	✓	Pakenham Major Sports Facility has capacity for additional development of sports facilities as demand increases.
<i>East</i>	✓	✗	✓	Over supply of local rec. in Maryknoll,

Central	+			Local rec. provision in most townships is incorporated into district sport facility, however these are generally insufficient as district rec. facilities.
Southern	✓	X	✓	Local rec. provision in most townships is incorporated into district sport facility, however these are generally insufficient as district rec. facilities.

7. Guiding Principles for Planning and Managing Recreational Open Space

The recreational open spaces within the Shire of Cardinia should be planned and managed with the following guiding principles in mind, depending on the values present and the purposes for which a particular open space area is to be managed. These guiding principles are summarised below in alphabetical order.

- **Access and Accessibility:** To provide safe and convenient access within and between residential areas and open space areas and to ensure that all built facilities take into account the needs of people with mobility problems.
- **Balance within Diversity:** To achieve a balanced and diverse provision of recreation and sporting opportunities appropriate to the needs of the community and the financial resources of Cardinia Shire Council.
- **Community Involvement:** To encourage community involvement (wherever feasible and appropriate) in the planning, design and management of open space areas and facilities.
- **Stewardship of Cultural and Environmental Values:** To ensure that all open space areas and features with environmental and cultural heritage values are identified and managed in ways that conserve these values and the biotic communities they support for future generations.
- **Equity:** To ensure that the open space needs of all sectors of the community are treated fairly and equitably.
- **Information:** To make available the information necessary to inform residents of the recreational and sporting opportunities available in open space areas and how they can be accessed and utilised.
- **Management and Administration:** To develop appropriate mechanisms to facilitate co-ordination, to avoid unnecessary duplication and costs, and to ensure quality maintenance and effective management of open space areas and facilities to ensure the areas are available for appropriate future use.
- **Multiple Use:** To achieve the most efficient use of existing and future open space areas and facilities by ensuring joint use, except where inappropriate for safety, management or environmental reasons. This concept to include shared use, compatible seasonal use and day/night use.
- **Quality:** To ensure that all open space areas and facilities are attractively designed and located, and comply with Australian standards appropriate to the level and type of use.

- **Safety and Liability:** To give adequate consideration to public safety in the design, location, management, maintenance and use of all open space areas and facilities.
- **Additional Needs Groups:** To recognise and give special consideration to those sectors of the community who have additional needs within open space areas (eg. the elderly; those who have visual, mobility or intellectual impairments; those with financial difficulties; non-English speaking people; indigenous people).
- **Sustainable Use:** To ensure that the type and level of activity proposed for open space areas is compatible with the long term management of the values of each open space type.

8. Major Elements of the Open Space Strategy

The Cardinia Recreational Open Space Strategy has been developed so as to:

- provide a series of linking paths for pedestrians and cyclists along existing roads and watercourses, where appropriate, that will connect recreational facilities with the main residential areas and provide a series of circuits within the community,
- provide a series of linking paths that connect to surrounding municipalities and major trail networks.
- anticipate the need for new district level sports facilities in the Beaconsfield to Pakenham Growth Corridor.
- seize the opportunity to utilise publicly owned land for recreation and sporting facilities, particularly along drainage lines where appropriate.
- ensure that the vision for Cardinia parklands is realised by supporting the establishment of a regional recreational facility in the south east of Melbourne.
- undertake progressive enhancement of all existing parks and open space areas, through improved ground allocation and management strategies.
- provide recreational facilities to meet the needs of a range of different age groups and women's sport.

TABLE OF CONTENTS

ACKNOWLEDGEMENTS.....	2
1. INTRODUCTION.....	3
1.1 EXISTING OPEN SPACE CHARACTERISTICS.....	3
1.2 SCOPE AND PROJECT OBJECTIVES	3
1.3 PROCESS OVERVIEW	4
2. THE REGIONAL OPEN SPACE FRAMEWORK	5
3. EXISTING SITUATION ANALYSIS	7
3.1 REVIEW OF EXISTING PLANNING STUDIES AND BACKGROUND INFORMATION FOR THE SHIRE OF CARDINIA.....	7
3.2 OPEN SPACE INVENTORY	9
3.3 SUMMARY OF CONSULTATIONS AND ISSUES ARISING	24
3.4 EXPRESSED AND ANTICIPATED DEMAND.....	25
3.5 FUTURE DEMAND	29
4. RECREATIONAL OPEN SPACE STRATEGY FOR THE SHIRE OF CARDINIA	31
4.1 THE OPEN SPACE VISION	31
4.2 GUIDING PRINCIPLES FOR PLANNING AND MANAGING RECREATIONAL OPEN SPACE.....	31
4.3 SUGGESTED OPEN SPACE PERFORMANCE INDICATORS	32
4.4 PROVISIONAL LEVELS OF OPEN SPACE	33
4.5 MAJOR ELEMENTS OF THE RECREATIONAL OPEN SPACE STRATEGY	35
4.6 PRIORITY ACTIONS	43
5. STRATEGY IMPLEMENTATION AND REVIEW	58
APPENDIX 1: REFERENCES	59

SUPPORTING DOCUMENTS

1. GLOSSARY OF TERMS AND ABBREVIATIONS
2. NOTIONAL LEVELS OF PROVISION OF OPENS SPACE
3. OPEN SPACE INVENTORY SHEET
4. PRELIMINARY DRAFT OPEN SPACE GUIDE
5. WORKSHOP – ADVISORY OUTCOMES
6. INFORMATION REVIEW
7. PARK TYPES
8. WORKSHOP – AGENCY AND COMMUNITY OUTCOMES
9. PRELIMINARY DRAFT OPEN SPACE POLICIES
10. SITUATION ANALYSIS
11. SUMMARY OF CONSULTATION

LIST OF FIGURES

Figure 1.1: Location of the Shire of Cardinia	4
Figure 3.1: Shire of Cardinia Existing Open Space.....	10
Figure 3.2: Shire of Cardinia Framework Plan.....	11
Figure 3.3: Shire of Cardinia Existing Bicycle Network	12
Figure 3.4: Shire of Cardinia Precinct Plan.....	13
Figure 3.5: Northern Precinct Local and District Open Space.....	14
Figure 3.6: Emerald and Cockatoo Local and District Open Space	15
Figure 3.7: Central Western Precinct Local and District Open Space.....	16
Figure 3.8: Pakenham Local and District Open Space	17
Figure 3.9: Central Eastern Precinct Local and Open Space.....	18
Figure 3.10: Southern Precinct Local and Open Space	19
Figure 3.11: Some Observations Regarding the Provision and Condition of Open Space and Associated Facilities within the Shire of Cardinia.	20
Figure 3.12: Existing Provision of Local and District Open Space.....	23
Figure 3.13: Main Open Space Issues Summary - Shire of Cardinia	24
Figure 4.1: Shire of Cardinia Open Space Strategy.....	36
Figure 4.2: Shire of Cardinia Potential Open Space Network	37
Figure 4.3: Northern Precinct Open Space Strategy.....	38
Figure 4.4: Emerald and Cockatoo Open Space Strategy	39
Figure 4.5: Central Western Precinct Open Space Strategy.....	40
Figure 4.6: Pakenham Open Space Strategy	41
Figure 4.7: Central Eastern Open Space Strategy.....	42
Figure 4.8: Southern Precinct Open Space Strategy.....	43

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The Planning Team comprised the following Companies and individuals:

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JEAVONS Recreation & Tourism Planners

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9. INTRODUCTION

9.1 Existing Open Space Characteristics

The Shire of Cardinia has significant existing recreational open space facilities such as Emerald Lake Park and Cardinia Reservoir Park. Cardinia also has reserves of high scenic and environmental values such as Bunyip State Park and Kurth Kiln Regional Park, as found in the foothills. Sites such as these and the coastal environments around Western Port have been identified as of botanical and zoological significance.

Developing communities require an adequate provision of recreational open space, which should ensure the establishment of an attractive recreational open space network for the Shire. Public open space on the alluvial plains in the southern section of the municipality is comprised primarily of district sporting facilities for each township. This region has high agricultural significance to the state and will stay predominantly rural in character.

Recreational open space is land, or water, that is set aside for people to undertake any activity in their free time for their personal enjoyment health etc. These areas are primarily managed for their aesthetic, recreational, sporting, cultural values. Recreational activities may also take place in areas set aside primarily for their environmental values, where the activities can be managed so that they are compatible with the environmental values.

9.2 Scope and Project Objectives

This Strategy has general application to the whole of the Shire of Cardinia, with particular emphasis given to meeting the recreational open space needs of existing and anticipated urban populations. The extent of the Council area covered by the Strategy is indicated in Figure 1.1.

The Strategy is designed to:

- provide a clear vision and direction regarding the purpose, provision, development priorities, management and use of all recreational open space areas, and
- provide direction regarding priority actions necessary to achieve the vision over the next 5-10 years

The primary focus of this strategy has been on recreational open space. However, in developing or making open space accessible for public use, the protection or enhancement of environmental and cultural values needs to be paramount. Therefore, the following studies will need to be considered further in the implementation of this strategy. (Refer to Section 3.1).

- existing conservation studies, eg:
 - Cardinia Shire Heritage Study
 - Cardinia Shire Sites of Botanical and Zoological Significance
 - Cardinia Shire Environment Management Strategy
 - Port Phillip Catchment and Land Protection Board Regional Vegetation Study
 - Management Plans and Botanical Surveys of Cardinia's Reserves

- other relevant studies eg:
 - Cardinia Shire Land Capability Study
 - Cardinia Shire Roadside Assessment Study
 - National Trust – Recorded Landscapes
 - Berwick – Pakenham Growth Corridor Archaeological Study

Figure 9.1: Location of the Shire of Cardinia



9.3 Process Overview

The preparation of the Recreational Open Space Strategy involved the four main stages as follows:

- **Stage 1:** Information Review & Data Collection
- **Stage 2:** Demand & Needs Assessment
- **Stage 3:** Draft Strategy Formulation
- **Stage 4:** Strategy Finalisation

The following sections of the report detail the purpose, tasks, consultation processes, outputs and anticipated Council responsibilities for each of these stages.

A glossary of common terms used throughout this report is included in Supporting Document No. 1.

10. THE REGIONAL OPEN SPACE FRAMEWORK

Cardinia covers a large area that extends from the foothills of the Dandenongs to the shores of Western Port. These diverse environments result in an array of sites of botanical, zoological, geomorphological and geological significance, many of which are preserved in reserves and parks. These include the internationally protected coastal vegetation communities of Mangroves and Salt Marsh along Western Port, various reserves along Cardinia Creek and RJ Chambers Flora and Fauna Reserve, Cannibal Hill Reserve, Wrights Forest, Gembrook Park, Bunyip State Park, Kurth Kiln Park, crown land reserves along watercourses and other pockets of remnant vegetation in the foothills to the north.

Extensive Open Space lies to the north and north east of Cardinia including the Dandenong Ranges National Park, Silvan Reservoir, Olinda State Park and The Yarra Ranges State Forest and National Park. Regional Open Space to the west and north west is limited to Jells Park and Koomba Park along the Dandenong River Valley. Port Phillip Bay and the Mornington Peninsula to the west and south west provide significant waterside recreation opportunities, while the sensitive habitat of Western Port, to the south, limits its use to a few bay side towns and boating ramps. Open space to the south is predominantly in coastal reserves and includes French Island National Park, Bunurong Marine Park and attractions on Phillip Island.

Figure 2.1 following shows the open space framework surrounding Cardinia.

Figure 2.1 Cardinia Regional Open Space Framework



11. EXISTING SITUATION ANALYSIS

11.1 Review of Existing Planning Studies and Background Information for the Shire of Cardinia

Supporting Document No 6 provides an overview of the content of the main reports and policies that affect open space related issues. In summary, the following reports have been reviewed in this strategy.

Report	Description
Emerald Strategy : Making the Link	Document advocating the use of Pepi's Paddock as an open space link. Discusses strategic location of site and various options for its use.
Beaconsfield Strategy	Strategy for upgrading Beaconsfield Recreation Reserve in line with current and expected population increases. Document includes short and medium term actions and outlines limitations of long term development. Strategic information about development of passive and equestrian recreation opportunities is also included.
Kooweerup Strategy Plan	Strategic plan for the development of Kooweerup that identifies a number of pre-determining conditions needed for the town to develop as outlined in the plan
Upper Beaconsfield Strategy Plan	The Strategy Plan promotes the protection and creation of open space and recreational facilities and public reserves in order to integrate existing native habitat, linear reserves, and popular pedestrian, recreational and commercial nodes. Identifies potential linkages and possible additions to public open space as well as short to medium and long term strategies and actions.
Lang Lang Strategy Plan	Strategy plan for the township of Lang Lang, focusing on streetscape issues, preserving rural identity and reducing erosion into nearby creeks.
Shire of Cardinia : Summary of Play Equipment Audit	An audit of playground play equipment in the municipality. Playgrounds need to be inspected frequently and maintained to an acceptable standard at all times.
Safer Cardinia Shire : Community Safety Plan	Looks at safety issues within the shire and ways to improve the safety in parks and reserves. Discusses policy that ensures all parks and reserves are developed and landscaped incorporating community safety principles.
Cardinia Shire Council : Corporate Plan	This plan is for Cardinia's future as both a community and as an organisation. The plan is the last of the current council and extends from 1999-2002. Includes information on required facilities for current municipal demographics.
Cardinia Shire Council : Roadside Management Plan	Discusses potential uses for unused road reserves to provide nature conservation wildlife corridors and a series of linked walking or horse riding paths. Identifies roadsides of high, medium and low conservation value and appropriate use of these roadsides.

Cardinia Shire Council : Environment Management Strategy	Information on existing environmental values and reserves within the municipality and the importance of maintaining natural environmental and heritage conditions. Contains a list of the major sites of Botanical, Zoological, Heritage, Archaeological, Geological and Geomorphological Significance.
Cardinia Shire Recreation Plan : Part A – Executive Summary and Recommendations : Part B – Existing Situation Statement	Explains Councils' vision to increase and upgrade sporting and recreation facilities across the shire. The document contains more specific data as to the recreational plan for each individual township.
Cardinia Shire Council : Pakenham Reserves Final Report	Report aiming at ensuring effective use of Council's reserves to meet increasing recreation demands in the Pakenham Township. Looks at future uses of both the old and new recreation reserves in Pakenham.
Cardinia Shire : Pakenham Township Strategy Draft	Strategic direction for the development of the Pakenham township over the next 10 years. Includes landscape planning principles, open space guidelines and ecological sustainable development principles.
Application Form : Cardinia Shire Open Space Strategy Plan	This is an application for the project of Cardinia Shire Open Space Strategy Plan and its closing date is the 12 th of November 1998.
Cardinia Local Planning Policy Framework – August 1999	Contains demographic, physical and environmental information about Cardinia and future directions for the development of the shire. Includes the strategic vision for the Shire. Provides a background and suggests strategies for each of the major factors/characteristics of the Shire.
A Guide to Priorities for Melbourne's Open Space Network – South East 1998	Guide is a mechanism to bring together municipalities, agencies and community interests to co-ordinate individual actions directed towards achieving an integrated network of open space. Outlines actions that need to be taken to ensure an integrated and comprehensive open space network for recreation and protection of natural and cultural values..
Cardinia Shire Urban Growth Corridor Strategy	Strategy to determine the development parameters for the South Western Growth Corridor through the Shire. Proposed plan for the next 10 years provides for projected population growth and a variety of development densities. Includes direction on the provision of open space and passive recreation resources.
Cardinia Creek Parklands – Final Plan November 1994	Outlines the land to be reserved for the creation of the Cardinia Creek Parklands and the expected uses of different areas.

11.2 Open Space Inventory

The following figures and observations summarise the key findings from the inventory of open space areas as described in Supporting Document No 10, the Access Database and the GIS Data. Figures 3.1 to 3.3 provide an overview of these observations at a municipal level, while figures 3.5 to 3.10 provide a more detailed view, including local and district catchments for existing open space, for 4 precincts within Cardinia and two most developed areas.

Figure 3.1: Shire of Cardinia Existing Open Space

Figure 3.2: Shire of Cardinia Framework Plan

Figure 3.3: Shire of Cardinia Existing Bicycle Network

Figure 3.4: Shire of Cardinia Precinct Plan

Figure 3.5: Northern Precinct Local and District Open Space

Figure 3.6: Emerald and Cockatoo Local and District Open Space

Figure 3.7: Central Western Precinct Local and District Open Space

Figure 3.8: Pakenham Local and District Open Space

Figure 3.9: Central Eastern Precinct Local and Open Space

Figure 3.10: Southern Precinct Local and Open Space

Figure 3.11: Some Observations Regarding the Provision and Condition of Recreational Open Space and Associated Facilities within the Shire of Cardinia.

Characteristic	Findings	Observations
General Characteristics Across the Municipality		
Area of Open Space	<ul style="list-style-type: none"> Overall provision of open space and associated recreational facilities is reasonable for the community sizes found within Cardinia. 	While rural areas lack many informal/passive recreation spaces, the nature of these areas may mean there is little demand for such facilities.
Types of Open Space	<ul style="list-style-type: none"> There is a good provision of sporting fields for traditional sports, especially cricket, football, netball and tennis. Inadequate provision of continuous recreation spaces and informal recreation facilities 	<p>Opportunities exist to create linkages for bicycle and equestrian use throughout the Shire along drainage lines, easements and verges of low traffic roads.</p> <p>Many of the roads in the shire are narrow, winding and have no shoulders discouraging use by cyclists, pedestrians and equestrians.</p>
Condition of Open Space	<ul style="list-style-type: none"> Most parks appear to be managed and maintained to a relatively high standard. The park conditions are generally good to very good The mature trees in and around most parks provide good shade and create good amenity and picturesque settings for most parks. Many parks have high natural and cultural values. 	<p>Play and picnic facilities require upgrading and attention in many reserves. Doing so would encourage greater use of recreation facilities by a larger range of users.</p> <p>Playground facilities should be assessed for safety, viability and practicality throughout the municipality. Many playground facilities appear to be 'extras' to sporting facilities and consequently take a place of lesser importance in many locations.</p>

<p>Utilisation of Open Space</p>	<ul style="list-style-type: none"> • Most sporting facilities are associated with particular clubs, suggesting that they are well used. • Most parks utilise their space well and, while there is often room for improvements to facilities, there is little room for expansion of playing surfaces. However, in most areas adjacent uses are not heavily developed and expansion through acquisition could be possible. 	<p>Projected growth for rural townships and fringe areas needs to be considered when assessing the adequacy of existing space for future needs. Where greater recreation space will be required, provision for acquiring this land should be done before development pressures limit opportunities to acquire connecting parcels of land.</p>
<p>Outdoor sporting facilities</p>	<ul style="list-style-type: none"> • There appears to be a reasonable provision of facilities for traditional male dominated sports. Most communities have a football/cricket oval in good condition. • Netball and tennis facilities are often more degraded and of a lower quality than ovals. • There are no apparent facilities for hockey, softball, baseball or soccer. 	<p>The undertaking of a needs assessment study will help to determine if facilities for less mainstream sporting interests are required. The upgrading of women's sporting facilities in many areas needs to be considered. Many of the outdoor playing fields are likely to be expensive to maintain as single field complexes.</p>
<p>Outdoor informal open space</p>	<ul style="list-style-type: none"> • There is a lack of developed lineal open spaces. • Formal pedestrian and cycle paths are very limited within Cardinia. • Many recreational facilities are linked to sporting grounds. • Playground facilities are generally inadequate and substandard due to their age. 	<p>Due to the 'rural' nature of much of Cardinia, there may be less need for outdoor recreational spaces. With increasing urban development there will be greater expectations placed on the range and standard of facilities, whilst maintaining a very high level of environmental quality desired by the existing population.</p>

<p>Linear open space</p>	<ul style="list-style-type: none"> • There are few formal recreation trails around community areas in the Shire of Cardinia. • However, there are good trail and pathway networks through conservation areas throughout the shire. 	<p>In developing areas, opportunities exist to create attractive linear open space networks and to improve and enhance streamside environments. In areas along the growth corridor it will be important to set aside linear spaces along drainage and ridge lines to ensure linear links can be established. In rural areas of Cardinia long distances separate recreational facilities and townships. Where possible, drainage channels and safe roads should be used to provide safe trail connections between communities.</p> <p>The planning of cycle , pedestrian and equestrian routes needs to be undertaken in conjunction with a long term road strategy to address the ability of the existing network to handle vehicles and non vehicular traffic.</p>
<p>Facilities for Youth</p>	<ul style="list-style-type: none"> • Social recreation opportunities for teenagers include a new skate park adjacent to the Youth Services facility in Pakenham, a new skate park in Gembrook and a skate-bowl in Cockatoo. Otherwise, apart from the swimming pools and basketball rings, there are limited recreation opportunities for this age group. 	<p>As the growth corridor develops particular attention should be given to providing facilities for youth. Such facilities should be located in activity nodes close to public transport and nearby other attractions for youth, such as shops, regional centres and schools. The new skate park in Pakenham is a good example of this.</p>

An analysis of the existing recreational open space provision for current urbanised areas is possible by looking at the catchment areas shown on the precinct maps, Figures 3.5 to 3.10.

Local level open space is generally regarded as having a user catchment of 500 metres. District level open space is generally regarded as having a user catchment of 2000 metres.

The outcome of this analysis is outlined below in Figure 3.12. The table represents a summary of the adequacy of existing provision of recreational open space within the municipality based on adequacy of supply, or quantity, rather than quality. Provision has been broken into three levels:

- x** – presently under supplied
- ✓** - existing supply is sufficient
- +** - presently over supplied

Figure 11.12: Existing Provision of Local and District Recreational Open Space

Precinct	Local Rec	District Rec	District Sport	Comment
Northern	✓	✓	✓	Local generally well provided but additional local open space required in Cockatoo and Emerald.
West Central	✓	✓	✓	Pakenham Major Sports Facility has capacity for additional development of sports facilities as demand increases.
East Central	✓ +	x	✓	Over supply of local rec. in Maryknoll, Local rec. provision in most townships is incorporated into district sport facility, however these are generally insufficient as district rec. facilities.
Southern	✓	x	✓	Local rec. provision in most townships is incorporated into district sport facility, however these are generally insufficient as district rec. facilities.

11.3 Summary of Consultations and Issues Arising

The consultants met with nominated Councillors, representatives of Council Departments involved with open space issues, and selected State Government Agencies. In addition, a search workshop was held with Council and State Government Agency staff to explore particular issues relating to open space. The main issues to emerge from these discussions are presented in Supporting Document No 08 and summarised in Figure 3.13.

Figure 3.13: Main Open Space Issues Summary - Shire of Cardinia

Major Issue	Points for Consideration
Linkages	<ul style="list-style-type: none"> • Linear links connecting to surrounding region • Cross Council boundaries • Ensure that open space provision in subdivisions includes links and linear areas. • Most local roads are not conducive to pedestrian, cyclist or equestrian use
Characteristics of Open Space	<ul style="list-style-type: none"> • System to provide for a variety of needs • Flexibility to cater for future needs • Multiple uses of waterways • Large spaces free of sport and other facilities • Conveniently located parks • Good balance between sport and non sport utilisation/ conservation and formal/informal recreation and sporting areas • Environmental quality valued highly by established residents, but less so by new more urban residents.
Co-operation Regarding Open Space	<ul style="list-style-type: none"> • Need coordination between various Council Departments and State Government Agencies • Consultation and community involvement • Explore links and maximise recreation opportunities in State Parks (Parks Victoria), and along watercourses/ drainage lines. • Coordinate strategy implementation (involvement/mechanisms/ responsibilities)

<p>Planning and Management</p>	<ul style="list-style-type: none"> • Consideration of long term costs or staging to avoid rollover costs • Ensuring that money for capital development is linked with money for maintenance • Provide/ Lock in, opportunities for new open space in urban growth corridor • Need for management plans once resource is developed • Developer interaction • Link between Opens Space Strategy and Outline Development Plans • Lack of communication between departments • Move from provider to facilitator of open space opportunities • Council unable to adequately resource maintenance of existing trails and open space.
<p>Open space quality</p>	<ul style="list-style-type: none"> • Large quality parks • Better accessibility to a variety of facilities • Economically and environmentally sustainable open space system • Maintain environmental and cultural values • Habitat management / preservation • Natural values enhanced in some open space areas • Reinstate natural conditions along waterways
<p>Use of Open Space</p>	<ul style="list-style-type: none"> • Commercial management and development of some recreation facilities • Management and locations for mountain biking • Lack of, and poor coordination of, promotion of open space and linear trails.

11.4 Expressed and Anticipated Demand

3.4.1 Expressed Demand

The household survey, distributed throughout Cardinia and Casey, was conducted in May 2000 as a self administered questionnaire distributed by reply paid mail. Some 3000 households were sampled netting 507 responses. A number of surveys were received after the cut off date. The full summary of the survey is included within Supporting Document 12.

Participation in Recreation Activities

The top ten activities participated in open space in descending order were:

- Walking
- Golf
- Fishing
- Bushwalking
- Bike riding/cycling
- Horse riding/equestrian
- Tennis

- Football/AFL/Aussie rules
- Driving
- Cricket

These results reflect trends in other areas throughout the Melbourne metropolitan area

All the top ten male activities are undertaken in open space whereas the top 5 female activities included gym/aerobics, swimming and shopping. The female top 5 activities were:

Walking, Horse riding/equestrian activities, Tennis, and then Bushwalking, and Bike riding/cycling (ranked equally).

More than three times the number of females walk, than undertake the next activity: horseriding.

The top 5 male activities participated in were:

Golf, Fishing, Walking, and then Bushwalking and Bike riding/cycling (ranked equally,) and Football/AFL/Aussie rules.

Activities liked but not undertaken in parks

Walking, cycling picnicking, bushwalking, horseriding, golf and rollerblading (in descending rank) are the main activities people would like to do in parks but do not. The top activities females would like to do but can't in parks were: Walking, Cycling, BBQ/ Picnic, Horse riding/ equestrian, bushwalking, going to a playground, and rollerblade.

- 12 % of both females and males would like to cycle but do not mainly because facilities are too far away or are of poor quality. And then, because of lack of information and family responsibilities.
- 12% of both males and females would like to walk but do not, mainly due to facilities too far away or poor quality and then lack of information, and family responsibilities.
- 6% of males and 8% of females would like to picnic but do not because of the lack of information.
- Six percent of males and three percent of females would like to play golf but do not because of cost and too much routine commitment.
- 10 people would like to bush walk but don't due to facilities too far away, lack of information, or no one else to do it with (all equally ranked).
- Six people would like to horse ride but don't, The main reasons being facilities too far away and expense.
- The main reason why people don't play golf is expense.
- The main reasons people who want to use playgrounds but do not was lack of information –and facilities too far away (equally ranked)

Main reasons for not doing an activity in parks or open spaces overall

- The five most important reasons given for not participating in an activity are:
- Lack of information
- Facilities are too far away
- Requires too much routine commitment
- Cost too much
- Facilities are a poor quality

Sports played

The mains sports played by respondents were: (in descending order of frequency) were:

- Golf
- Tennis
- Swimming
- Equestrian,/Show dressage/ trail riding
- Walking, and
- Netball

Demand for Park features

The key features important to residents when choosing a park were identified as:

- Toilets
- Large shady trees
- Away from traffic and noise
- Unspoiled environment

Trails ranked toward the bottom of the features listed (by mean score). We suggest this may be because they are seen as separate facilities, and because many parks are not suitable for walking or cycling activities. Interestingly close to home was not a highly rated feature of parks. Access to water features was ranked as least important.

Types of Recreational Open Space Used

The types of opens space used by the most people in Cardinia are (in descending order):

- Local neighbourhood parks
- Bushland / national parks / nature reserves
- Bicycle paths / walking trails
- Large regional parks

The top ten facility types used by the most people are also the most frequently used although the order is different. For example, playgrounds are used by the 10 highest number of users but receive the 4th highest number of visits a month.

Perception of Services

The survey asked respondents to rank the importance and performance of a range of services.

Those with the highest mean importance were:

- High quality maintenance of local parks
- Programs for youth and children
- Protection of remnant native vegetation/weed control
- Information about and promotion of what is available
- Programs for older adults and people with a disability
- Improvement to local streetscapes and boulevards
- High quality maintenance of sports fields

Those services ranked as being performed best by Council were:

- Festivals and community events
- High quality maintenance of sports fields
- Classes on leisure interests or hobbies
- High quality maintenance of local parks
- Programs for older adults and people with a disability

Biggest gaps in service were:

- Programs for youth and children
- Protection of remnant native vegetation/ weed control
- High quality maintenance of local parks
- Information about and promotion of what is available

Those services that best met community expectations of service were:

- A network of high quality equestrian trails
- Festivals and community events, and then
- High quality maintenance of sports fields

What would make residents leisure more fulfilling

The key things residents said would make their leisure more fulfilling were:

- Improved facilities and access
- Safe walking tracks
- More safe bike tracks
- More detailed information/ advice on events and places
- Upgrade existing facilities
- Better maintenance/ rubbish removal
- Safer and better horse riding tracks

Activities People with a disability would like to do but can't.

The main activities people with a disability would like to do but can't were:

The largest number (7) said "None"

- Golf
- Swimming/ wave pool
- Boating/ sailing
- Dancing
- Tennis
- None

Respondents said Council could help people participate in Golf by: Putting them in touch with other people with similar interests, and then, by reducing the price, providing programs or equipment, or transport (all equally ranked).

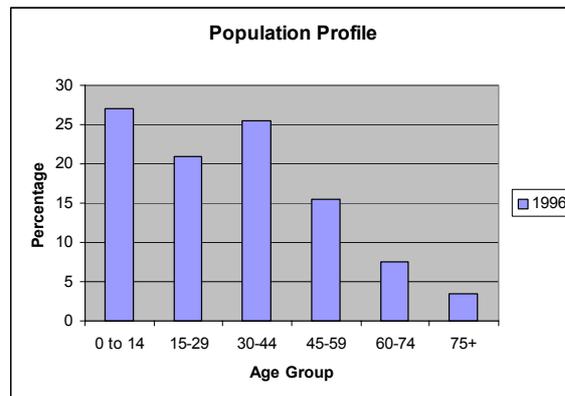
Respondents said Council could help them participate in Tennis by finding a place to play, reducing the price, finding suitable programs, and assisting them to learn and providing equipment .

11.5 Future Demand

After consideration of the information available from various reports, the focused Council consultation and field observations, it is the consultant’s professional judgement that the following factors should be considered in forward planning the Shire of Cardinia:

- projected population growth across the Shire is currently at about 2% per annum and by the year 2010 it is expected to be 5% per annum. However in the ‘growth corridor’ from Beaconsfield through to Pakenham the population growth rate is currently at 10% per annum.
- the demographic profile for 1996 based on a total population of 42,800 (ABS) was:

Age Group	% in 1996
0 to 14	27
15-29	21
30-44	25.5
45-59	15.5
60-74	7.5
75+	3.5



Given these demographics and the existing facility supply considerations, it is anticipated that the greatest demand in Cardinia over the next 5-10 years will be for:

- Facilities for young families and youth, especially in growth corridor areas
- Adequate provision and reservation of open space and recreational facilities for projected populations in the growth corridor.
- Increased safety and security for current on-road recreation users as traffic volumes increase.
- Establishment of safe off-road trails and corridors of open space, connecting major reserves and enabling the development of “Hills to Water” trails.
- Identifying all open space and its land management status within the Shire for the purpose of earmarking land for future public open space.
- Protection of bush blocks and conservation values.
- Improved opportunities and facilities for women and “non-traditional” activities, including non sporting activities recreation.
- Improvement of opportunities to facilitate walking
- Continued upgrading of facilities and reserves and ongoing management arrangements

- Management of remnant bushland, watercourses, wetlands and heritage landscapes to enable enjoyment without compromising their environmental sustainability.

12. RECREATIONAL OPEN SPACE STRATEGY FOR THE SHIRE OF CARDINIA

This Recreational Open Space Strategy has been prepared for the Shire of Cardinia to provide short, medium and long term goals and priorities for the provision, development and enhancement of parks and open space areas for future residents and visitors.

12.1 The Recreational Open Space Vision

The community of Cardinia desires meaningful involvement with their Council to plan and develop a quality, interconnected open space system which:

- *Is safe, convenient and accessible for people to appreciate and use,*
- *Offers a variety of opportunities which encourage people to participate in different recreational, sporting and cultural activities, catering for a wide range of community needs*
- *Balances the need for the protection of environmental, landscape and heritage values with sporting and recreational uses*
- *Retains the essence of the existing character of rural areas and provides visual separation between urban areas and towns*
- *Can be effectively managed and maintained, and*
- *Integrates with surrounding open space areas provided by local government and other government agencies.*

12.2 Guiding Principles for Planning and Managing Recreational Open Space

The recreational open spaces within the Shire of Cardinia should be planned and managed with the following guiding principles in mind, depending on the values present and the purposes for which a particular open space area is to be managed. These guiding principles are summarised below in alphabetical order.

- **Access and Accessibility:** To provide safe and convenient access within and between residential areas and open space areas and to ensure that all built facilities take into account the needs of people with mobility problems.
- **Balance within Diversity:** To achieve a balanced and diverse provision of recreation and sporting opportunities appropriate to the needs of the community and the financial resources of Cardinia Shire Council.
- **Community Involvement:** To encourage community involvement (wherever feasible and appropriate) in the planning, design and management of open space areas and facilities.
- **Stewardship of Cultural and Environmental Values:** To ensure that all open space areas and features with environmental and cultural heritage values are identified and managed in ways that conserve these values and the biotic communities they support for future generations.

- **Equity:** To ensure that the open space needs of all sectors of the community are treated fairly and equitably.
- **Information:** To make available the information necessary to inform residents of the recreational and sporting opportunities available in open space areas and how they can be accessed and utilised.
- **Management and Administration:** To develop appropriate mechanisms to facilitate co-ordination, to avoid unnecessary duplication and costs, and to ensure quality maintenance and effective management of open space areas and facilities to ensure the areas are available for appropriate future use.
- **Multiple Use:** To achieve the most efficient use of existing and future open space areas and facilities by ensuring joint use, except where inappropriate for safety, management or environmental reasons. This concept to include shared use, compatible seasonal use and day/night use.
- **Quality:** To ensure that all open space areas and facilities are attractively designed and located, and comply with Australian standards appropriate to the level and type of use.
- **Safety and Liability:** To give adequate consideration to public safety in the design, location, management, maintenance and use of all open space areas and facilities.
- **Additional Needs Groups:** To recognise and give special consideration to those sectors of the community who have additional needs within open space areas (eg. the elderly; those who have visual, mobility or intellectual impairments; those with financial difficulties; non-English speaking people; indigenous people).
- **Sustainable Use:** To ensure that the type and level of activity proposed for open space areas is compatible with the long term management of the values of each open space type.

It is realised that when considering specific open space areas, not all these principles will necessarily apply, and in fact some may be mutually exclusive. In these situations it may be necessary to consider accommodation of competing and conflicting uses by means of time and spatial zoning and perhaps reservation of some areas for particular uses.

12.3 Suggested Recreational Open Space Performance Indicators

In order to realise the open space vision for Cardinia Shire, the following performance targets will be aimed for in townships and surrounding areas:

- e) **within each township:**
 - a park catering for informal, outdoor recreation activities for the whole family
 - a multipurpose sports complex suitable for club competition community events, training and junior sports
 - an indoor, multipurpose community space
- f) **within 500 metres of most residences within townships:**
 - access to a safe pedestrian/cycle path network

g) Within 5-10 km of the majority of residences in larger rural towns:

- provision of 6-8ha of district level recreation parkland and 6-8ha of district sporting areas (where population numbers make it viable to do so)

h) foreshore areas

- Access for boating activity at selected locations that does not disturb the significant and fragile habitat along Western Port.

e) Within every precinct a range of park types or park experiences:

- local level outdoor recreation areas providing opportunities for sport, play passive enjoyment of a range of values.
- district level recreation areas providing opportunities for sport, play passive enjoyment of a range of values.
- district level sporting facilities providing for a diversity of activities with flexibility for changing provision and demand.

All facilities and areas to:

- be effectively managed,
- be maintained in line with the prime purposes of management,
- comply with Australian Design Standards, and
- be safe, accessible and attractive to users.

12.4 Provisional Levels of Open Space

In order to provide for a minimal level of local and district open space areas and facilities in new urban areas it is suggested that The Shire of Cardinia aim for a provision of 5ha /1000 head of population. To provide minimal levels of recreation and sporting areas this 5ha/1000 people should be broken into approximately 3ha for outdoor recreational facilities and 2ha for outdoor sporting facilities. These figures include provision to cater for average community and visitor requirements. They do not include any allowance for sub-regional or regional areas or facilities, nor do they include provision of land for environmental or conservation related purposes. The suggested allocation of 5 ha/1000 people would in the past have comprised a 10% developer contribution plus a shortfall that may have to have been acquired or gained by Council

The above provision considers new urban areas will be an average Residential 1 type development with a population density of approximately 25 people per ha. At this density the 5ha/1000 people provision equates to 12.5% of land designated for open space. High-density areas may require larger areas of land, proportional to the increase in population density.

The provision level of open space for non - urban areas varies from that of urban areas. To provide minimal levels of recreation and sporting areas a total of 2.5ha/1000 people should be broken into approximately 0.5ha for outdoor recreational facilities and 2ha for outdoor sporting facilities. "Non urban" includes those portions of Cardinia designated as rural landscape, landscape interest, rural residential or rural. In these situations, area and facility provision should be based on the overall population and the level of service provided by facilities in adjacent areas.

It is highly recommended that in early stages of planning of new residential areas provision is also made for indoor sport and recreation facilities on land not dedicated for open space provision. This will ensure that there is not an incremental loss of open space as sports require more indoor facilities.

12.4.1 Provision of Land for Recreational Open Space (Recreation and Sporting Areas and Facilities)

Goals:

- a) continued upgrading of the **quality and standard** of the **existing recreation and sporting areas and facilities** provided throughout the area
- b) aim for the following **minimal levels of recreation and sporting areas** to be provided in new urban and non urban / rural areas:

	RECREATION*1	SPORTING*1	TOTAL*2
Urban *3	3 ha / 1000 people	2 ha / 1000 people	5 ha / 1000 people *4
Non urban *5	0.5 ha / 1000 people*6	2 ha / 1000 people	2.5 ha / 1000 people

Notes

- *1 These figures include provision for the **minimal level of local and district areas and facilities** to cater for average community and visitor requirements. It does not include any allowance for sub-regional or regional areas or facilities nor does it include provision of land for environmental or conservation related purposes. High visitor (tourist) use areas will require additional areas and facilities to meet peak period demands. Areas with different demographic characteristics may need the balance between recreational and sporting areas altered.
- *2 Final decisions regarding the actual provision of local and district areas and facilities must rest with Council and will depend on many locality specific variables (eg. topography, demographics, existing land availability etc.).
- *3 “Urban” is considered to be an average Residential 1 zone type development with a population density of approximately 25 people per ha. It also includes land zoned Residential 1, but with a minimum lot size of ½ and acre. (2,020 m2)
- *4 The suggested allocation of 5 ha/1000 people would in the past have comprised a 10% developer contribution **PLUS** a shortfall which may have to be acquired or gained by Council. These figures are based on a review of the suggested levels of provision for several other cities in Australia, indicative levels of provision being considered by Sport and Recreation Victoria, and a professional assessment by the consultants of what will result in a quality open space system for Cardinia. These figures will need to be considered in the light of the relevant Planning Acts and their requirements.
- *5 “Non urban” includes those portions of Cardinia designated as rural, environmental rural, rural living and low density residential zone. In these situations, area and facility provision should be based on the overall population and the level of service provided by facilities in adjacent areas.
- *6 Assumes most community demand for open space in rural areas is accommodated within the larger private properties.

Some general considerations regarding the provision, location and design of recreation and sporting areas and facilities are summarised below:

- recreation areas (informal parks) should retain much of the local character of an area and should complement any existing natural or cultural values.
- sporting areas should be located centrally with respect to the population catchment they are to serve, preferably adjacent to major roads and close to schools and commercial centres.
- all facilities should normally incorporate provision to accommodate people with physical disabilities.
- development of areas for local facilities should normally precede development of district areas and facilities, with development of sub-regional and premier facilities occurring when there is sufficient population to render them viable.
- premier level facilities should be jointly funded with surrounding Councils, the State Government and/or the private sector, when there is a demonstrated demand and it is financially viable to do so.

Suggested Population Thresholds for Fully Functional Local Areas and Facilities.

Following is the recommended population threshold for the provision of local open space areas and facilities. The threshold range is indicative only and should be considered in light of location specific demand, needs and barriers to movement.

FACILITY TYPE & SETTINGS	POPULATION THRESHOLD	COMMENTS
1. Local Facilities	1000 - 2000	
1A : Outdoor recreation	●	Minimum size 1 ha. Normally services a catchment of 0.5km radius in urban areas.
1B : Outdoor sport ● multi-purpose playing field	●	Minimum size 2ha. Activities to be determined by local community. Combine with 1A (informal parks). Normally service a catchment of 0.5-1km in urban areas.
<p>Notes regarding general provision of Local areas and facilities</p> <ul style="list-style-type: none"> • Areas primarily to service the needs of local residents and communities. • Most local areas will be used for social and informal recreational activities, as well as non-competitive sporting activities eg. Training. • Population serviced will normally be 1,000 - 2,000 in urban areas • The actual types of facilities and activities to be catered for should be negotiated with each community. • All facilities should normally incorporate provision to accommodate people with physical disabilities. • Areas will not be fully developed before indicated population thresholds are reached. However staged development of selected facilities may proceed in line with community priorities and a Masterplan for each area. 		

12.5 Major Elements of the Recreational Open Space Strategy

The Cardinia Recreational Open Space Strategy has been developed so as to:

- provide a series of linking paths for pedestrians and cyclists along existing roads and watercourses, where appropriate, that will connect recreational facilities with the main residential areas and provide a series of circuits within the community,
- provide a series of linking paths that connect to surrounding municipalities and major trail networks.
- anticipate the need for new district level sports facilities in the Beaconsfield to Pakenham Growth Corridor.
- seize the opportunity to utilise publicly owned land for recreation and sporting facilities, particularly along drainage lines where appropriate.
- ensure that the vision for Cardinia parklands is realised by supporting the establishment of a regional recreational facility in the south east of Melbourne.
- undertake progressive enhancement of all existing parks and open space areas, through improved ground allocation and management strategies.
- provide recreational facilities to meet the needs of a range of different age groups and women’s sport.

Figure 4.1: Shire of Cardinia Open Space Strategy

Figure 4.2: Pakenham Open Space Strategy

Figure 4.3: Northern Precinct Open Space Strategy

Figure 4.4: Emerald and Cockatoo Open Space Strategy

Figure 4.5: Central Western Precinct Open Space Strategy

Figure 4.6: Central Eastern Open Space Strategy

Figure 4.7: Southern Precinct Open Space Strategy

12.6 Priority Actions

Priority actions have been given a level of priority indicating a target timeframe for their completion. The level of priority designates the timeframe within which it is desirable to achieve each of the priority actions.

- Very High** - 0-3 years
- High** - 4-6 years
- Medium** - 7-9 years
- Low** - 10 years and greater

Priority actions have been broken into municipal wide actions and precinct actions to provide both general and specific directions. The precinct actions follow the municipal actions.

The following actions indicate the level of priority, nominate the authority responsible for the action and provide measures to assess the action's performance.

The first action to be undertaken is the preparation of an implementation program where the project actions are to be scoped and costed.

Figure 12.8: Cardinia Municipal Priority Actions

ACTION	PRIORITY (V H /High/ Med/Low)	RESPONSIBILITY	PERFORMANCE MEASURE
1 Ensure Adequate Provision Of Open Space			
<ul style="list-style-type: none"> • Provide basic local Open Space areas and facilities within 0.5 km of every suburban house 	Existing areas – High Developing areas – Ongoing	Shire of Cardinia, Local Developers	<ul style="list-style-type: none"> • Density and distribution of local parks
<ul style="list-style-type: none"> • Identify, preserve and create the opportunity for new district open space areas and facilities to ensure that urban populations do not have to travel, on average, more than 2 kms to reach this standard of facility 	Existing areas – Very High Developing areas – Ongoing	Shire of Cardinia	<ul style="list-style-type: none"> • Density and distribution of district open spaces • Development agreements, land transfers, rezoning
<ul style="list-style-type: none"> • Provision of premier level facilities where there is a demonstrated demand and it is financially viable to do so 	Medium	Shire of Cardinia	<ul style="list-style-type: none"> • Provision where demand demonstrated and site compatibility established

2 Connect Cardinia To Surrounding Open Space Areas And Trails:			
<ul style="list-style-type: none"> Create links to the proposed Cardinia Creek Parklands 	Medium	Shire of Cardinia,	<ul style="list-style-type: none"> Number of safe connections to the parklands
<ul style="list-style-type: none"> Establish safe pedestrian/cycle paths to areas of employment, shopping centres and key community centres. 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> Number of safe connections
<ul style="list-style-type: none"> Develop an interconnected trail system to cater for informal walking, bike riding and greater public access to waterways and Open Space facilities. (Ensure trails are located to minimise environmental degradation and long term management problems – Refer Trail Guidelines in Equestrian Strategy). Existing opportunities include: <ul style="list-style-type: none"> Sections of Bunyip Main Race Main Drain, Bunyip – Kooweerup Emerald to Gembrook Bowmans Track Deep Creek Pakenham – Gordon Rd 	Very High	Shire of Cardinia, Vic Roads	<ul style="list-style-type: none"> Length of connected trail system Number of trails accessing open space reserves Sound environmental planning, design and management
<ul style="list-style-type: none"> Establish safe pedestrian/cycle paths to the North across Princes Hwy 	Very High – (Ongoing)	Shire of Cardinia	<ul style="list-style-type: none"> Number of safe connections
<ul style="list-style-type: none"> Establish a comprehensive open space network, based on drainage lines and ridges, linked by interconnecting trails leading to man made and natural attractions (e.g. shopping centres, State Parks, National Parks, tourist precincts, schools, waterways etc) 	Identify network – Very High Establish network – High (Ongoing)	Shire of Cardinia, Melbourne Water, Parks Victoria	<ul style="list-style-type: none"> Clearly identified network on plan Lineal kilometres of interconnected open space network Number of attractions connected to network Number of equestrian facilities accessible by trails.

3 Diversify Open Space Types and Recreation Opportunities			
<ul style="list-style-type: none"> Place greater emphasis on providing for the informal, social and cultural recreational needs of community, particularly in new urban areas and rural communities 	High	Shire of Cardinia	<ul style="list-style-type: none"> Number of open space facilities catering for informal cultural and social recreation needs.
<ul style="list-style-type: none"> Maintain, upgrade and provide areas for equestrian activities in appropriate locations as specified in the Equestrian Strategy. 	High	Shire of Cardinia, Equestrian Groups	<ul style="list-style-type: none"> Quality, use and accessibility of equestrian facilities.
<ul style="list-style-type: none"> Provide for motor sports and high impact recreation activities in appropriate areas where demand warrants it. 	High	Shire of Cardinia, private industry	<ul style="list-style-type: none"> Number of facilities
<ul style="list-style-type: none"> Focus on meeting the needs of sectors of the community with special needs that have been disadvantaged in the past, eg. Women and ethnic groups 	Medium	Shire of Cardinia	<ul style="list-style-type: none"> Satisfaction of special needs groups with provision of facilities.
<ul style="list-style-type: none"> Support and encourage the greater use of private rural land for a variety of outdoor activities on a fee for service basis 	Medium	Shire of Cardinia, private	<ul style="list-style-type: none"> Use of private rural land for recreational outdoor activities
<ul style="list-style-type: none"> Establish initiatives to encourage and control nature based tourism activities in natural areas. 	Medium	Shire of Cardinia, tourism industry	<ul style="list-style-type: none"> Development of nature based tourism initiatives
<ul style="list-style-type: none"> Seek to provide a greater range of open space types, and setting types within open space across the municipality Ensure local parks are designed to provide greater complexity and diversity of opportunities, whilst retaining high environmental quality and meeting the needs of a greater range of age groups in the one park. 	Medium Very High	Shire of Cardinia,	<ul style="list-style-type: none"> A wide range of open space types evident. A greater range of setting types evident. More local parks designed to meet the specific needs of toddlers, junior and senior children, families and older adults in the one park.
<ul style="list-style-type: none"> Assess district sporting facilities in townships for potential additional use as district recreational facilities. 	High - Med	Shire of Cardinia	<ul style="list-style-type: none"> Additional district recreational facilities
<ul style="list-style-type: none"> Provide areas and facilities catering for adventure based activities 	Medium – Low	Shire of Cardinia, adventure industry	<ul style="list-style-type: none"> Number of facilities and areas

4 Meet Changing Sporting Needs			
<ul style="list-style-type: none"> Develop larger district outdoor sporting complexes in new urban growth areas such as Beaconsfield and the Urban Growth Corridor 	Very High (Ongoing)	Shire of Cardinia	<ul style="list-style-type: none"> Number of new facilities
<ul style="list-style-type: none"> Develop multipurpose indoor sport and recreation complexes as demand warrants it. 	Medium	Shire of Cardinia	<ul style="list-style-type: none"> Supply and proposals meet existing and projected demands
<ul style="list-style-type: none"> Conduct a review of ground allocation, as part of the Reserves Funding Policy, to relieve the pressure on existing sporting facilities in urban and developing areas by shifting some activities to new areas and upgrading others. Ensure a greater number of reserves are multi field sports complexes for the one code, but able to cater for a wider range of sports (multi – use) in the longer term and attract and cater for larger clubs with shared facilities 	Very High High	Shire of Cardinia	<ul style="list-style-type: none"> Quality of sporting facility is upheld by level of use More viable clubs More players able to be catered for by better facilities at fewer locations.
5 Ensure Comprehensive Planning			
<ul style="list-style-type: none"> Adoption of the Open Space Plan by Council and incorporation of key recommendations into each Council's Corporate Plan, Town Planning Scheme, and annual programs 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> Incorporation of recommendations into Council Plans and Strategies
<ul style="list-style-type: none"> Develop management plans for key open space sites 	Greater Regional / Regional – Very High District / Neighbourhood - High	Shire of Cardinia	<ul style="list-style-type: none"> Adoption of prepared management plans
<ul style="list-style-type: none"> Facilitate information sharing across all council departments involved directly and indirectly with the provision of open space areas, facilities, services and opportunities 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> Quarterly meeting of all groups
<ul style="list-style-type: none"> Establish and maintain a multi-disciplinary management group with Council to monitor strategies and implementation 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> Establishment of such a group

Recreational Open Space Strategy

<ul style="list-style-type: none"> • Ensure co-operation with the State Government and Melbourne Water regarding the establishment and management of a Regional Open Space System. 	High	Shire of Cardinia, Parks Victoria, Melbourne Water, DNRE	<ul style="list-style-type: none"> • Continued co-operation
<ul style="list-style-type: none"> • Co-operate with State Government Agencies regarding planning and management of State Parks, National Parks and Rail Trails 	High	Shire of Cardinia, Parks Victoria, Melbourne Water, DNRE	<ul style="list-style-type: none"> • Continued co-operation
<ul style="list-style-type: none"> • Introduce a planning framework that ensures adequate quantity and a range of types of open space are provided for in new subdivisions. • Determine acceptable levels of density of residential areas between the hills/ and Nth Pakenham, and determine the nature and quantity of open space to be provided in this area. 	Very High Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Open space framework implemented that clearly specifies what open space and recreation facilities should be provided in new residential developments
<ul style="list-style-type: none"> • Establish the land status of all open space and rectify anomalies ie halls with deceased trustees, pockets of unreserved crown land and, Melbourne Water land used by resident etc. • Secure key blocks of open space of strategic importance not in Councils ownership, such as Pakenham Sth, Lang Lang land in Crown ownership. 	Medium Medium	Shire of Cardinia/ NRE/ Melbourne Water/ Community groups	<ul style="list-style-type: none"> • Land status identified for all non council open space along potential trails as a priority, then for areas adjacent to district open space and local open space
<ul style="list-style-type: none"> • Reinforce conservation goals, and Councils policies on Tree preservation Biodiversity and Environmental Management Strategy through open space planning initiatives 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Conservation initiatives developed

Recreational Open Space Strategy

<ul style="list-style-type: none"> Collating information about Crown and Council linear reserves, and easements than may provide linear reserves and links. Map these open space links and trails that may be used by cyclist and walkers, secure and promote those links. 	Very High	Shire of Cardinia/ local residents	<ul style="list-style-type: none"> Comprehensive maps of links and assets prepared by locality.
<ul style="list-style-type: none"> Provide incentives for the retention of bush and conservation values on private land an in new residential developments. 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> Incentives devised and introduced
<ul style="list-style-type: none"> Ensure a range of open space types are provided in new subdivisions and that their function & development is specified in the planning stage. 	Very High (Ongoing)		<ul style="list-style-type: none"> Range of functions and setting types identified in new developments
<ul style="list-style-type: none"> Undertake a marketing campaign to discourage the clearing of bushland and target new conservation minded residents who will protect and nurture the Shires natural assets. 	Medium	Shire of Cardinia real estate agents, developers, local community	Marketing campaign embarked upon.
6 Improve Park Accessibility			
<ul style="list-style-type: none"> Overcome major barriers to participation in Open Space activities, by: <ul style="list-style-type: none"> improving public transport access, ensuring provision of safe pedestrian and cycle access, ensuring that areas of security fencing around facilities are minimised and that access is not overly limited to public facilities by providing safe and strategically located crossings of barriers to access, such as creeks and major road corridors, and by improving information and awareness of safe access options to open space facilities 	High	Shire of Cardinia	<ul style="list-style-type: none"> Levels of open space useage Number or parks safely accessible across major barriers. Level of community awareness of safe access options.

Recreational Open Space Strategy

<ul style="list-style-type: none"> • Ensure that people with mobility problems can gain easy access to parks and facilities especially: <ul style="list-style-type: none"> – parkland developed as a node for high level community use. – Outdoor Sporting facilities catering for people with mobility problems – Play opportunities designed specifically to include children with a disability 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Percentage of accessible parks and outdoor sporting facilities • All facilities at the district level and higher designed specifically to be inclusive
<ul style="list-style-type: none"> • Ensure all new facilities comply with Australian Design Standards regarding accessibility 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Percentage of accessible facilities
<ul style="list-style-type: none"> • Explore opportunities with Melbourne Water & Parks Victoria to increase the accessibility / hours of opening of the reservoir parks. 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Accessibility of reservoir parks to local residents increased.
<ul style="list-style-type: none"> • Market existing open space trails and facilities to residents to ensure residents have greater choices in what they do and where they go. 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Quantity and regularity of information distributed to residents promoting open space opportunities.
7 Improve Open Space Quality			
<ul style="list-style-type: none"> • Adopt performance measures for all types of open space (Refer to Supporting Document No. 7) 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Adoption of performance measures
<ul style="list-style-type: none"> • Place greater emphasis on the visual amenity of all open space and green space areas 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Improvement of visual amenity
<ul style="list-style-type: none"> • Protect and conserve significant environmental, heritage and landscape values 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Level and scope of protection
8 Identify Opportunities For Community Involvement In Parks			
<ul style="list-style-type: none"> • Shade tree planting or regenerative, locally endemic species, planting areas in parks particularly: <ul style="list-style-type: none"> – Local Parks with little or no planting – Sporting grounds with little or no periphery planting 	Very High (Ongoing)	Shire of Cardinia, Community Groups	<ul style="list-style-type: none"> • Proportion of each park being regenerated • Adequate provision of shade in all open space areas

Recreational Open Space Strategy

<ul style="list-style-type: none"> Involve the community in the identification of potential network opportunities, ongoing planning and management of selected Open Space areas and facilities, Source, collate and preserve local knowledge about open space, history and land status (opportunities, links and assets) and prepare information about open space opportunities and features. 	<p>Very High (Ongoing)</p>	<p>Shire of Cardinia, Community Groups/ local residents</p>	<ul style="list-style-type: none"> Level of community involvement in planning and management Number of local people involved in identifying linkages Amount of information prepared by the community interpreting or about open space or trail links.
<ul style="list-style-type: none"> Continue to support Landcare initiatives across the Shire 	<p>High</p>	<p>Shire of Cardinia, Community Groups</p>	<ul style="list-style-type: none"> Number of active landcare groups.
<ul style="list-style-type: none"> Invite local residents on a locality by locality basis to identify local open space opportunities and links and anomalies in the existing network and work towards addressing those. 	<p>High</p>	<p>Shire of Cardinia, Community Groups</p>	<ul style="list-style-type: none"> New links and open space opportunities identified.
<ul style="list-style-type: none"> Clean up and regenerate waterways, particularly: <ul style="list-style-type: none"> Cardinia Creek, Toomuc Creek, Back Creek, Gum Scrub Creek, Deep Creek, Ararat Creek, Bunyip Creek, Lang Lang River, Menzies Creek & Cannibal Creek Streams along lineal open space networks and through urban areas eg. Emerald and Cockatoo Creek Reserve Main Drain (Bunyip to Kooweerup) 	<p>Medium</p>	<p>Shire of Cardinia, Community Groups</p>	<ul style="list-style-type: none"> Length of weed free waterways
9 Improve Park Facilities			
<ul style="list-style-type: none"> Upgrade the quality and standard of the existing open space areas and facilities provided throughout Cardinia using funding sources such as the Community Capital Works Grants where applicable 	<p>Very High (Ongoing)</p>	<p>Shire of Cardinia</p>	<ul style="list-style-type: none"> Quality of open space areas.
<ul style="list-style-type: none"> Upgrade existing indoor facilities in open space reserves, as required eg. <ul style="list-style-type: none"> Community halls Toilet blocks Sporting clubhouses/pavilions 	<p>Very High (Ongoing)</p>	<p>Shire of Cardinia, Community and sporting groups</p>	<ul style="list-style-type: none"> Average age of assets Safety for users (health and risk)

Recreational Open Space Strategy

10 Youth Needs			
<ul style="list-style-type: none"> Identify and develop specific areas where youth can socialise 	Very High	Shire of Cardinia, Commercial Sector	<ul style="list-style-type: none"> Creation of such areas
<ul style="list-style-type: none"> Identify potential locations for and ensure a range of youth oriented activities are provided in suitable local and district parks eg ball court sports, skateboard / BMX and motorised recreation activities especially in the urban growth corridor. 	High	Shire of Cardinia	<ul style="list-style-type: none"> Land reserved for such a range of such facilities.
11 Improve Park Safety			
<ul style="list-style-type: none"> Provide sharps disposal in public toilets near perceived problem areas 	High	Shire of Cardinia	<ul style="list-style-type: none"> Reduction in the number of sharps in parks
<ul style="list-style-type: none"> Install night lighting in appropriate areas 	High	Shire of Cardinia	<ul style="list-style-type: none"> Increased usage of parks at night
<ul style="list-style-type: none"> Manage open space areas and facilities appropriately according to the type of use encouraged. 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> Management plans for individual or groups of parks
<ul style="list-style-type: none"> Establish a program of supervised activities in selected parks, eg <ul style="list-style-type: none"> Holiday programs & Family days “Come and try” Programs Nature walks 	Medium	Shire of Cardinia	<ul style="list-style-type: none"> Increased park use and participation in activities
<ul style="list-style-type: none"> Ensure park facilities are developed at nodes of activity with good general surveillance, and maintain lines of sight from surrounding residences and roads 	High	Shire of Cardinia	<ul style="list-style-type: none"> Reduction in levels of park related crime
<ul style="list-style-type: none"> Ensure greater planning and control of activities that impact on others in open space areas 	High	Shire of Cardinia	<ul style="list-style-type: none"> Reduction of conflicts between users in parks
<ul style="list-style-type: none"> Establish a “Park Wardens” program to provide out of hours supervision and surveillance 	Low	Shire of Cardinia	<ul style="list-style-type: none"> Reduction in vandalism Increased perception of safety in parks

12 Maximise Use of Open Space Facilities			
<p>Review opportunities to address the perceived gaps in service provision where community expectations are not met.</p> <ul style="list-style-type: none"> • Programs for youth and children • Protection of remnant native vegetation/ weed control • High quality maintenance of local parks • Information about and promotion of what is available 	Very High	Shire of Cardinia	Opportunities for addressing each gaps identified.
<ul style="list-style-type: none"> • Allow for greater multiple use of existing and proposed open space areas and facilities 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Use of open space by multiple user groups
<ul style="list-style-type: none"> • Provide of a comprehensive range of information services to inform people of the choices available to them with respect to what to do and where to go 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> • Greater community awareness and use of recreational opportunities within Cardinia
<ul style="list-style-type: none"> • This should include: <ul style="list-style-type: none"> • Kits for new residents: • The location of trails, playgrounds, recreation facilities sporting clubs and parks • What residents can expect in relation to standards of service • Key contacts • Ways that residents can contribute to retaining the Shire high conservation values 			<ul style="list-style-type: none"> • Hard copy and electronic information regularly prepared and distributed to residents

13 Establish alternative sources of funding for Open Space Provision and Management.			
<ul style="list-style-type: none"> Investigate innovative funding mechanisms including: <ul style="list-style-type: none"> joint funding, leasing; and private sector involvement 	Very High (Ongoing)	Shire of Cardinia,	<ul style="list-style-type: none"> Number of new funding mechanisms established
<ul style="list-style-type: none"> Explore grants available from the EPA, the NRE crown grant improvement program, and SRV grant initiatives. 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> Opportunities to capture state government grants regularly explored.
<ul style="list-style-type: none"> Utilise nature based tourism to contribute to the cost of development and maintenance of open space areas and facilities 	High - Medium	Shire of Cardinia, Parks Victoria	<ul style="list-style-type: none"> Amount contributed to open space maintenance by eco-tourism operators
14 Provide Facilities For Large Groups In Selected Parks			
<ul style="list-style-type: none"> Provide adequate BBQ and outdoor facilities for large groups in key parks e.g. <ul style="list-style-type: none"> Gembrook Park, Wrights Forest, Cannibal Hill Reserve, RJ, Chambers Flora and Fauna Reserve, PB Ronald Reserve, Mountain Road Recreation Reserve 	High	Shire of Cardinia, Community groups	<ul style="list-style-type: none"> Number of facilities for large groups
<ul style="list-style-type: none"> Identify park areas which could be developed as community gardens (if the demand exists within adjacent communities) 	Low	Shire of Cardinia, Community groups	<ul style="list-style-type: none"> Area of community gardens
15 Improve Access to Alternative Facilities			
<ul style="list-style-type: none"> Establish co-operation with the commercial and educational sectors to provide joint facilities available for community use as appropriate 	Medium	Shire of Cardinia, Department of Education, Private Sector	<ul style="list-style-type: none"> Provision of facilities for schools and appropriate community use.
<ul style="list-style-type: none"> Improve facility sharing between schools and the community: 	Medium	Shire of Cardinia, Department of Education, Community Groups	<ul style="list-style-type: none"> Improved utilisation of existing school facilities

Figure 12.9: Cardinia Precinct Priority Actions

ACTION	PRIORITY (V-HIGH HIGH/MED/ LOW)	RESPONSIBILITY	PERFORMANCE MEASURE
1 NORTHERN PRECINCT - GENERAL			
<ul style="list-style-type: none"> Ensure provision of open space network along Cardinia Creek regardless of the development of Cardinia Parklands by Parks Victoria 	High	Shire of Cardinia, City of Casey	<ul style="list-style-type: none"> Land along Cardinia Creek secured as part of open space network
<ul style="list-style-type: none"> Establish an open space linkage between Gembrook and Emerald, along the route suggested on Figure 4.3, or along Puffing Billy Railway Reservation or another route such as Mountain Road. Also investigate potential for utilising Pepi's Paddock as part of the open space link. 	Very High	Shire of Cardinia	<ul style="list-style-type: none"> Establishment of an Open Space Link
<ul style="list-style-type: none"> Establish a Principal Off - road Bicycle Route from Aura Vale Lake to the North 	Medium	Shire of Cardinia, State Gov, Shire of Yarra Ranges, Parks Victoria, VicRoads	<ul style="list-style-type: none"> Establishment of bicycle path
<ul style="list-style-type: none"> Consider / investigate the establishment of an off road or road verge bicycle trail from Cardinia Reservoir to Emerald (via Aura Vale Lake), along Wellington Road 	Low - Medium	Shire of Cardinia, State Gov, Parks Victoria, VicRoads	<ul style="list-style-type: none"> Establishment of an off road bicycle path
<ul style="list-style-type: none"> Consider the establishment of an off road link from Gembrook and Kurth Kiln and Bunyip State Parks 	Low	Shire of Cardinia, State Gov, Parks Victoria, VicRoads	<ul style="list-style-type: none"> Establishment of an off road bicycle path
<ul style="list-style-type: none"> Liaise with Parks Victoria to promote and market the recreational opportunities available for local residents at Bunyip State Park 	High	Shire of Cardinia Parks Victoria	<ul style="list-style-type: none"> Promotion of Bunyip State Parks facilities
<ul style="list-style-type: none"> Extend the Menzies Creek open space linkage (as shown in Figure 4.3) 	High	Shire of Cardinia, State Gov, Shire of Yarra Ranges, Parks Victoria, VicRoads	<ul style="list-style-type: none"> Establishment of and extended Mezie's Creek open space network

Recreational Open Space Strategy

<ul style="list-style-type: none"> Prepare a masterplan for Pepi's Land which recognises its importance within the Gembrook to Emerald open space network 	High	Shire of Cardinia	<ul style="list-style-type: none"> Preparation of a masterplan
2 NORTHERN PRECINCT – EMERALD AND COCKATOO			
<ul style="list-style-type: none"> Establish an open space linkage between Cockatoo and Emerald through Wrights Forest and Emerald Lake Park 	Very High	Shire of Cardinia, Parks Victoria	<ul style="list-style-type: none"> Establishment of an Open Space Link
<ul style="list-style-type: none"> Improve access to, and continue to maintain Emerald Lake Park to a high standard 	High	Shire of Cardinia	<ul style="list-style-type: none"> Maintenance of a high standard park with improved visitor access
<ul style="list-style-type: none"> Prepare a masterplan for Nobelius Heritage Park to guide its future 	Medium	Shire of Cardinia	<ul style="list-style-type: none"> Preparation of a masterplan
<ul style="list-style-type: none"> Ensure adequate local open space in Cockatoo, especially near Jeanne St 	High	Shire of Cardinia	<ul style="list-style-type: none"> Adequate provision of local open space
<ul style="list-style-type: none"> Improve access to Mountain Road Recreation Reserve, especially from the area around Joffre Pde. 	Medium	Shire of Cardinia	<ul style="list-style-type: none"> Improved access to open space
<ul style="list-style-type: none"> Ensure adequate local open space in Emerald, especially near Elm Dr 	High	Shire of Cardinia	<ul style="list-style-type: none"> Adequate provision of local open space
<ul style="list-style-type: none"> Liaise with Parks Victoria to improve directional and interpretive signage within Wright's Forest 	Medium	Shire of Cardinia, Parks Victoria	<ul style="list-style-type: none"> Improved visitor orientation
3 Central Western Precinct - General			
<ul style="list-style-type: none"> Ensure Provision of Open Space Network along Cardinia Creek 	High	Shire of Cardinia, City of Casey, Water Authority	<ul style="list-style-type: none"> Land along Cardinia Creek secured as part of open space network
<ul style="list-style-type: none"> Establish open space networks along Gum Scrub Creek, Toomuc Creek and Deep Creek 	Very High (Gum Scrub – Medium)	Shire of Cardinia, Water Authority	<ul style="list-style-type: none"> Land along creeks secured as part of open space network.
<ul style="list-style-type: none"> Establish a district recreational facility in Beaconsfield as indicated in figure 4.5. 	Medium	Shire of Cardinia	<ul style="list-style-type: none"> Establishment of a district recreational facility
<ul style="list-style-type: none"> Establish a district sporting facility in Beaconsfield as indicated in figure 4.5, or a number of Neighbourhood facilities, including existing council land in O'Neil Road. 	High	Shire of Cardinia	<ul style="list-style-type: none"> Establishment of a district or Neighbourhood sporting facilities to ensure adequate provision.

Recreational Open Space Strategy

<ul style="list-style-type: none"> Ensure adequate local open space in Beaconsfield and along growth corridor towards Pakenham 	Very High (Ongoing)	Shire of Cardinia, developers	<ul style="list-style-type: none"> Adequate provision of local open space
<ul style="list-style-type: none"> Establish a multi-use recreational trail along the Bunyip Main Race 	Very High	Shire of Cardinia Melbourne Water	<ul style="list-style-type: none"> Establishment of an open space linkage
<ul style="list-style-type: none"> Investigate the potential for Beaconsfield Reservoir to be developed as regional open space 	Medium	Shire of Cardinia Parks Victoria Melbourne Water	<ul style="list-style-type: none"> Future of Beaconsfield Reservoir established
<ul style="list-style-type: none"> Investigate the potential for a bicycle linkage from Cardinia Creek to Beaconsfield Reservoir 	Medium	Shire of Cardinia Vic Roads	<ul style="list-style-type: none"> Recommendation on the potential for a bicycle trail
<ul style="list-style-type: none"> Improve and maintain access to open space networks in Casey 	High (Ongoing)	Shire of Cardinia City of Casey	<ul style="list-style-type: none"> Improved and maintained access
4 Central Western Precinct – Pakenham			
<ul style="list-style-type: none"> Ensure adequate local open space in Pakenham and along growth corridor towards Officer 	Very High (Ongoing)	Shire of Cardinia, developers	<ul style="list-style-type: none"> Adequate provision of local open space
<ul style="list-style-type: none"> Ensure adequate provision of district sporting facilities in Pakenham, suggested locations indicated on figure 4.6 near Henry Rd. or Army / Kennedy Rd (adjacent to Schools.) 	Medium	Shire of Cardinia, developers	<ul style="list-style-type: none"> Adequate provision of district sporting facilities
<ul style="list-style-type: none"> Maintain Pakenham Major Recreation Reserve as the key sporting open space focus. Consider further expansion 	Medium (Ongoing)	Shire of Cardinia	<ul style="list-style-type: none"> Pakenham Major Recreation Reserved maintained as the key sporting open space
<ul style="list-style-type: none"> Review function of Don Jackson Reserve 	High	Shire of Cardinia	<ul style="list-style-type: none">
<ul style="list-style-type: none"> Provide an open space network, including trails, in Pakenham along Pakenham Creek, Kennedy Creek and sections of Deep Creek & linking to PB Ronald Reserve 	Very High-High	Shire of Cardinia, Water Authority	<ul style="list-style-type: none"> Provision of trails through an open space network
<ul style="list-style-type: none"> Provide an open space and trail linkage from Toomuc Creek to Bunyip Main Race 	Medium	Shire of Cardinia Melbourne Water	<ul style="list-style-type: none"> Provision of an open space and trail linkage
<ul style="list-style-type: none"> Develop an East West open space and trail linkage between creek corridors, utilising sections of existing linkage between PB Ronald Reserve and Pakenham Major Recreation Reserve 	Medium	Shire of Cardinia Melbourne Water	<ul style="list-style-type: none"> Development of an open space and trail linkage

5 Central Eastern Precinct			
<ul style="list-style-type: none"> Investigate the potential for an open space linkage and mixed use trail along the Bunyip Main Race between Bunyip and Maryknoll 	Medium	Shire of Cardinia, Water Authority	<ul style="list-style-type: none"> Provision of a mixed trail along the Bunyip Main Race
<ul style="list-style-type: none"> Assess Local open space provision in Maryknoll to rationalise over supply of local open space 	Medium	Shire of Cardinia	<ul style="list-style-type: none"> Appropriate provision of local open space in Maryknoll.
<ul style="list-style-type: none"> Assess district sporting facilities in townships for potential additional use as district recreational facilities. 	High-Medium	Shire of Cardinia	<ul style="list-style-type: none"> Provision of two district recreational facilities across the precinct.
<ul style="list-style-type: none"> Connect Bunyip to the main drain along an open space linkage along Bunyip Modella Rd. 	High	Shire of Cardinia	<ul style="list-style-type: none"> Provision of open space linkage
6 Southern Precinct			
<ul style="list-style-type: none"> Develop an open space linkage and trail along Main Drain between Bunyip and Kooweerup 	High	Shire of Cardinia, Water Authority	<ul style="list-style-type: none"> Provision of trail and linkage
<ul style="list-style-type: none"> Ensure adequate provision of open space at all levels as Lang Land develops, particularly district recreational open space along network linkages. 	Med	Shire of Cardinia Developers	<ul style="list-style-type: none"> Adequate provision of Open Space in Lang Lang
<ul style="list-style-type: none"> Develop open space linkages along drainage lines to connect townships as indicated in figure 4.8. 	Med	Shire of Cardinia, Water Authority	<ul style="list-style-type: none"> Provision of linkages
<ul style="list-style-type: none"> Depending on future reopening of rail services, develop an open space linkage along Railway line connecting Lang Lang to Kooweerup and Tooradin. If reopened, investigate potential for shared trail access 	Med	Shire of Cardinia, Rail Authority	<ul style="list-style-type: none"> Provision of open space or trail linkage
<ul style="list-style-type: none"> Provide open space networks along Cardinia Creek, Gum Scrub Creek and Toomuc Creek 	Med (Gum Scrub Creek – Low)	Shire of Cardinia, Water Authority	<ul style="list-style-type: none"> Land along creeks secured as part of open space network.
<ul style="list-style-type: none"> Improve integration of Cochrane Park with Koo Wee Rup 	High	Shire of Cardinia	<ul style="list-style-type: none"> Improved integration of park with township
<ul style="list-style-type: none"> Improve pedestrian linkages between open space areas in Lang Lang 	Medium	Shire of Cardinia Vic Roads	<ul style="list-style-type: none"> Improved pedestrian linkages

13. STRATEGY IMPLEMENTATION AND REVIEW

This Recreational Open Space Strategy was formally adopted by Council on Monday 4 December 2000.

Following this adoption, the Recreational Open Space Strategy will undertake the following:

- Annual review and fine-tuning; and
- Major review in 2006.

APPENDIX 1: REFERENCES

- Emerald Strategy : Making the Link (March 1998)
- Beaconsfield Strategy (July 1998)
- Kooweerup Strategy Plan (February 1999)
- Upper Beaconsfield Strategy Plan (June 1998)
- Lang Lang Strategy Plan (February 1999)
- Shire of Cardinia : Summary of play equipment audit (November 1997)
- Safer Cardinia Shire : Community Safety Plan
- Cardinia Shire Council : Corporate Plan (1999-2002)
- Cardinia Shire Council : Roadside Management Plan
- Cardinia Shire Council : Environment Management Strategy (1999)
- Cardinia Shire Recreation Plan : Part A – Executive Summary and Recommendations
: Part B – Existing Situation Statement (1997-99)
- Cardinia Shire Council : Pakenham Reserves Final Report (July 1998)
- Cardinia Shire : Pakenham Township Strategy DRAFT (August 1999)
- Application Form : Cardinia Shire Open Space Strategy Plan
- i Cardinia Local Planning Policy Framework – August 1999
- A Guide to Priorities for Melbourne's Open Space Network – South East
- Cardinia Shire Urban Growth Corridor Strategy
- Cardinia Creek Parklands – Final Plan November 1994