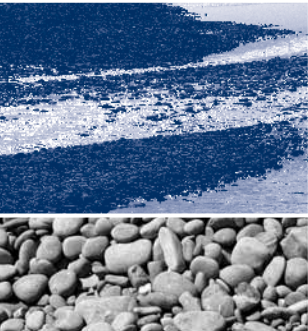




# WRRRP Management Plan

## McLeans Island

### Chapter 1



Waimakariri River Regional Park



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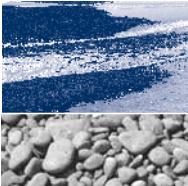
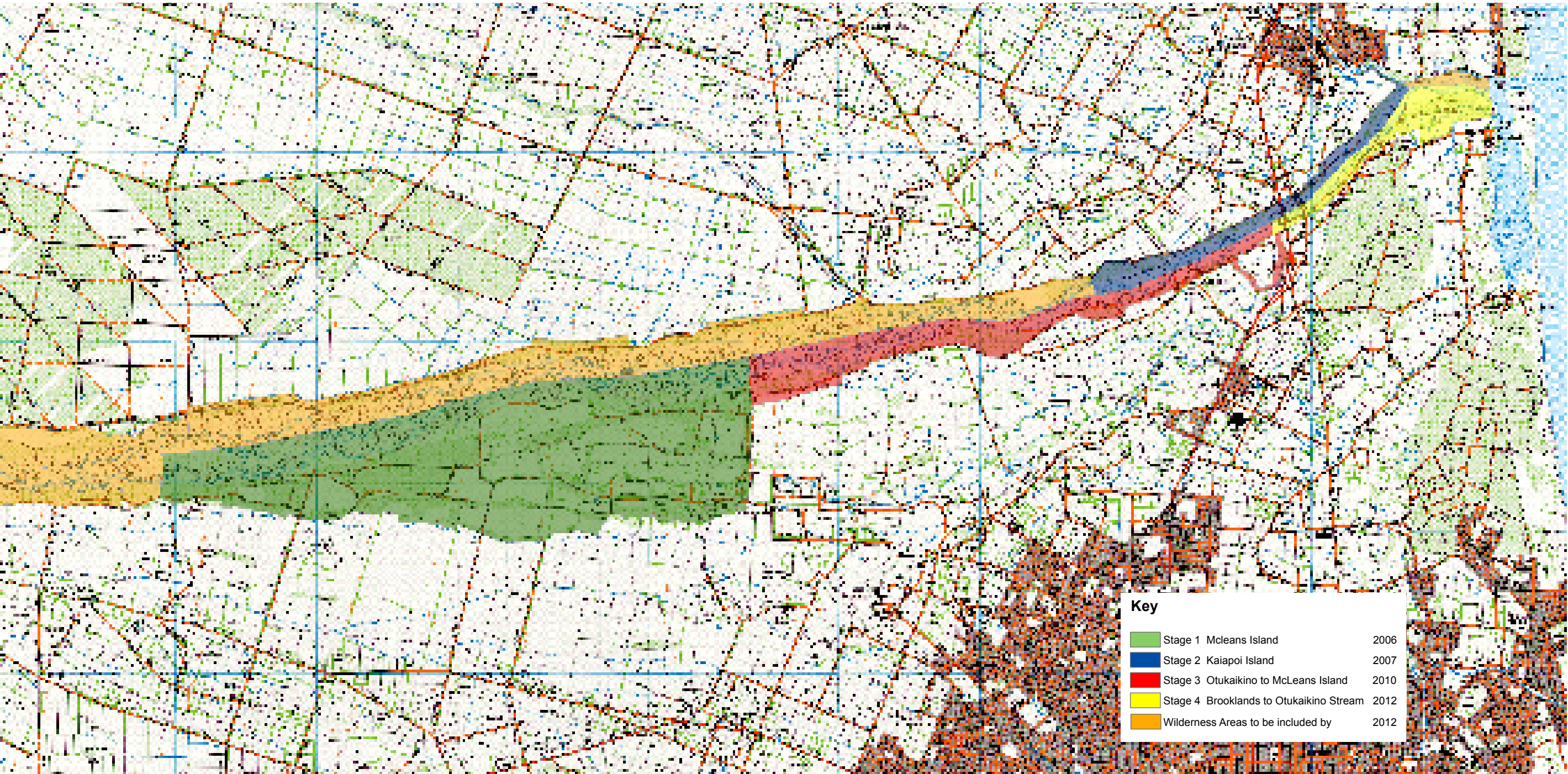
# Background

This document is chapter one of the Waimakariri River Regional Park Management Plan. The plan is being prepared in stages and each of these relates to a geographical location within the park. The chapters can be read independently but will eventually, along with the introduction and technical appendices, form the completed plan.

The Plan will cover nine geographical areas reflecting a similarity in use and management requirements. Of these nine locations, there are four main stages identified for major development. Areas of the park falling outside these four main stages will remain relatively unchanged but will be covered by regional park signage and management.

The four main stages identified for major development are McLeans Island, the north bank between the Kaiapoi River and Madeleys Road (Kaiapoi Island), the south bank between Otukaikino Stream and McLeans Island (Templars Island) and Brooklands Lagoon to Otukaikino Stream.

## Park Stages



# McLeans Island

## Introduction

This section of the Waimakariri River Regional Park is known as McLeans Island. The name has historical significance and also links the south bank of the Regional Park with other sections of the Park.

McLeans Island caters for a diverse variety of recreation and leisure opportunities ranging from those offered by ECan based primarily around and within the McLeans Forest and the river berm and; by the many clubs, groups and organisations which lease ECan land within this section of the park including Orana Wildlife Park, numerous car, machinery and golf clubs, shooting groups and commercial recreation providers.

This section has three gated public vehicle access points, located off McLeans Island Road and one off Weedons Ross Road. There are also cycle, walking and equestrian linkages to and from the lower Templars Island section and upstream to The Willows Picnic Ground. Motorcycle trails run from the car park at the river end of Weedons Ross Road.

The Harewood Crossbank Haul Road is the major egress point for shingle extraction vehicles on the south bank of the river. This roadway separates the McLeans Island section from the Isaac Conservation Park.

The development of McLeans Island will reduce much of the conflict between existing user groups in this area and increase the recreation and environmental value, thereby enhancing the visitor's experience. The use of McLeans Island will increase for a wide range of recreation visitors and this chapter illustrates how the area will be developed and managed to achieve this.

## Location

The McLeans Island section of the Waimakariri River Regional Park is situated on the true right or south side of the Waimakariri River. It runs approximately 13 kilometres upstream from the Harewood Bank, Haul Road upstream to approximately 1 kilometre downstream of The Willows Picnic Grounds. The section covers approximately 3150 hectares and includes McLeans Forest and the adjoining leased recreation lands located on both sides of McLeans Island Road, between Haul Road and Chattertons Road. It is zoned Open Space 3A, Rural 6 (grasslands), Rural 4 (Waimakariri) and Conservation 3W (Waterway conservation - Waimakariri) in the Christchurch City Plan and located within the Christchurch Groundwater Protection Zone 1. Areas upstream of Chattertons Road are located within the Selwyn District.

The section contains the following land parcels or part thereof.

Valuation Number	Lot Number
Pt Lot 1 DP 26644	90.7
Pt Lot 1 DP 28931	6.9
Lot 1 DP 35429	5.1
Lot 1 DP 35430	163.6
Lot 1 DP 41971	46.7
Lot 1 DP 45187	3.3
Lot 1 DP 46061	76.1
Lot 1 DP 52234	8.1
Lot 1 DP 56068	72.2
Lot 1 DP 75668	10
Lot 2 DP 28931	12.2
Lot 2 DP 35429	14.5
Lot 2 DP 41971	0.4
Lot 2 DP 46061	11.6
Lot 2 DP 48498	115.4
Lot 3 DP 27680	42.4
Lot 3 DP 28931	13.6
Lot 3 DP 35429	13.5

Valuation Number	Lot Number
Lot 3 DP 46061	98.3
Lot 4 DP 28931	4.6
Lot 57 DP 402292	0.3
Pt Lot 1 DP 27680	91.3
Pt Lot 1 DP 48498	11
Pt RES 3542	1276.7
Pt RES 947	358.6
Pt RS 22604	4.5
Pt RS 25934	26.6
Pt RS 26027	7.2
Pt RS 37373	167.6
Pt RS 40058	0.4
Pt RS 40059	0.5
RES 2464	13.4
Pt RES 2467	1.6
Section 1 SO 18334	0.2
Vested Riverbed	379.3

# History

Prior to European settlement, the Waimakariri River was an unconstrained braided river which had split into two main channels in the lower reaches forming a number of islands. One of these was McLeans Island upstream of the then South Branch.

During the late 1960s and early 1970s, R J Rains, formerly the Supervisor of Reserves for the North Canterbury Catchment Board located more than eighty sites around the West Melton Reserves administered by the Board with evidence of former Polynesian activity. In some locations there was evidence of at least temporary encampments and stone tool manufacturing activities. The vast majority lay close to large scale distributary channels indicating that they were sources of fresh water, food and were possibly transport routes.

McLeans Island was named after the McLeans family who arrived in Canterbury in 1852. They were originally from Lagmhor Isle of Coll, one of the Scottish Western Isles. After the death of Alexander McLean in 1836 from injuries sustained after his fishing boat had been dashed on rocks and the destruction of cropping on the island through disease, Mary his widow and their five children John, Allan, Robertson, Alexandrina and Mary, emigrated to Australia in 1840.

During their early days in Australia, the boys worked on the goldfields of Bendigo and Ballarat. A little later they aquired a small farm and opened a store to provide for the miner's needs.

In 1852 they disposed of their properties and sailed to New Zealand after receiving reports of the great opportunities in Britain's youngest colony. Before leaving Australia John and Allan McLean agreed to buy two runs near the Waimakariri River. These were runs No 37 and 37A known as Tresilian and Ashfield. The runs were about 15 miles from Christchurch.

The McLeans brought with them 500 ewes and a few cattle and horses. Although in Johns name and in partnership with Robertson, Allan started the Waimakariri Station of 10,000 acres on the eastern part of the property along the bank of the Waimakariri River.

Allan McLean died on 12th November 1907 and in his will he made provision for the establishment of the McLean Institute and the endowment of Hollylea, in memory of his mother as a "home for women of refinement or education in reduced or straitened circumstances ...". The Institute continues to provide accommodation for women and is also involved in charity work.

By the mid-1800s, early settlers had established large sheep runs along the river. Coringa was the nearest sheep run to Christchurch and the name continues as the title of the Golf course. Templars Island and Templeton were both named after Coringa's second owner, Edward Templar while Mcleans Island was part of the McLeans brothers "Ashfield" sheep run.

As the city of Christchurch grew, so did concerns about flooding from the Waimakariri River. Flood waters naturally followed old channels to the sea rather than returning to the river. These old channels were settled and developed and people and property were increasingly at risk from the river.

As early as 1859, engineers had been developing systems and structures to protect Christchurch and Kaiapoi from the Waimakariri floods. Initially works were isolated and blocked overflow channels but from 1922 when the Waimakariri River Trust was established more comprehensive works were undertaken.

In 1922 the Waimakariri River Improvement Act was enacted and the Waimakariri River Trust district established. The Act vested land on both sides of the river from the Waimakariri Gorge Bridge to the sea into the Trust's management. The Trust was empowered to do all such things as may, in its opinion, be necessary to effectively cope with the drainage and the flooding of the district.

During the 1930s, under employment schemes, hundreds of men armed only with shovels, picks and wheelbarrows created stopbanks and groynes along the river. The original pine plantations along the river were also planted during the 1930s Great Depression. Miners, Harewood and McLeans banks blocked off the south channel so that the river was shifted to the north side of McLeans Island. The South Branch of the Waimakariri became the spring fed Otukaikino Stream which we enjoy today at the Groynes Picnic Area.

The area was historically leased for farming purposes, primarily grazing. However in 1970 an amendment to the Waimakariri Improvement Act 1922 empowered the Board to sub-divide certain land vested in it including McLeans Island and expend money to develop it.

Today McLeans Island is home to a diverse range of recreation and leisure clubs and commercial operations, an integral part of the Regional Park and the network of open space in the Northwest of Christchurch City which includes the West Melton Reserves, Isaac Conservation Park and the The Groynes.



Early stopbank construction on the Waimakariri River







# Biodiversity

McLeans Island is a patchwork of flood protection forestry blocks alternating with open grassland, in stark contrast to the open shingle riverbed and sparse native vegetation that formerly covered the area.

The forest areas consist mainly of exotic trees, predominantly *Pinus radiata* but with willow and poplar in scattered locations. Some old remnant kowhai (*Sophora microphylla*) and kanuka (*Kunzea ericoides*) are still holding on amongst the pine forest albeit with little sign of regeneration.

The pine forests support a surprising range of indigenous plants and animals, perhaps because it is structurally similar to the kanuka forest habitat that used to grow nearby. Several species of ground orchids can be found, including the rare bird orchid (*Chiloglottis cornuta*). The native groundcover and butterfly host creeping pohuehue (*Muehlenbeckia axillaris*) covers extensive areas of forest floor. The locally rare tomtit and some common native forest birds have adapted to the exotic forest habitat. Exotic resident birds include Californian quail and magpie, as well as most small songbirds.

The open grasslands in and around McLeans Forest support predominantly exotic pasture species but some areas have retained elements of their former native vegetation cover, including the threatened leafless pohuehue (*Muehlenbeckia ephedroides*) and scabweed (*Raoulia monroi*), as well as the locally rare longwood tussock (*Carex comans*), potatara (*Leucopogon fraseri*), matagouri (*Discaria tomatou*) and cabbage tree (*Cordyline australis*). One of the most striking remnant native habitats is the savannah-like dry grassland with scattered kowhai trees which runs both east and west of Chattertons Road.

Harriers (*Circus approximans*) can frequently be seen scanning the area for prey.

Fire fighting waterholes and borrow pits add important habitat where some native plants and animals find suitable conditions and refuge.

The blocks leased to clubs along McLeans Island Rd offer habitat for native species. Of particular interest there is the recent rediscovery of the nationally threatened spotted skink (*Oligosama lineocellatum*) on the Orana Park lease.

The open Waimakariri river bed in this section of the park is an important breeding area for threatened river birds, such as the black-fronted tern (*Sterna albobriata*), black-billed gull (*Larus bulleri*), and wrybill (*Anarhynchus frontalis*)

McLeans Island is rated as moderate hare and rabbit prone land. While the denser parts of the forest are unsuitable habitat, hares infiltrate the forest periphery and the surrounding grassland. Hare and rabbit browse is a contributing factor in the regeneration failure of native shrubs and trees and ongoing control will be necessary. The other main factors are stock browse, and competition from introduced plants, particularly grasses, coupled with the harsh climatic conditions.

Some of the open areas are leased for extensive grazing which in some situations is beneficial for the retention of low-statured native plants that would otherwise be smothered by introduced grasses, and the suppression of fire – a serious ecological threat.

Restoration planting has been going on for some time to supplement the dwindling native tree and shrub populations, and hopefully this will in time transform certain areas such as the “kowhai savannah” on both sides of Chattertons Road. These blocks in particular will need to be rabbit fenced to improve the natural regeneration of native plants. The sites lend themselves to research of dryland ecosystem restoration and as an educational resource for the public. Provision of interpretation panels and guided walks will help to improve the public profile of this special ecosystem. Extensive sheep grazing to reduce fire risk needs to be balanced so that the native vegetation can regenerate. The conservation area on the short term lease east of Orana Park should be considered for inclusion into the Park.

The spotted skink population needs to be surveyed and predator control and habitat enhancement including lizard hotels put in place to ensure survival of the population.

McLeans Island offers opportunities to protect and enhance the indigenous biodiversity. Pest and predator control programmes and where possible habitat restoration will be necessary to improve the survival chances of rare species and the breeding success of the braided river birds.



Kowhai savannah Chattertons Road



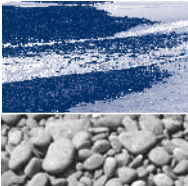
Looking west from Miners Bank Road



Muehlenbeckia axillaris



Waterhole McLeans Forest





# Recreation

McLeans Island has been associated with recreation for over 130 years. As early as 1874, the Canterbury Rabbit Club whose objective was “the preservation of rabbits or game of any kind on the islands known as McLeans on the Waimakariri” held weekly shooting days.

In March 1967 the North Canterbury Catchment Board approved in principle the use of the McLeans Island region for recreational purposes. At that time the interested parties included two golf clubs, a car scramble club, combined motorcycle clubs, aero clubs and a small bore rifle club.

In 1970 the South Island Zoological Society was formed and Orana Park, New Zealand’s only open range zoo was opened to the public. In 1974 a number of Commonwealth Games shooting events were held at the gun club range.

Today, there are 20 recreation leases within the McLeans Island section of the Park including a number of commercial recreation providers such as the International Golf Academy, Paintball and Tanks for Everything. Many other organised recreation activities occur in and around the forest where groups do not hold leases and these include orienteering and Malamute dog sledding.

It is important to recognise the significant contribution of the Canterbury Chartered Clubs by relinquishing land to allow ECan to establish the mountainbike park.

The majority of the McLeans Island section of the Park is zoned Open Space 3A in the Christchurch City Plan and it is the recreation hub for the Waimakariri River Regional Park. The number of people that utilise this section will increase in the future as Christchurch City expands, especially in the northwest and as formalised recreation space becomes more over subscribed in other parts of Christchurch City.

Apart from the existing facilities provided at McLeans Island, there is provision for the establishment of significant organised sports facilities area running parallel to the Harewood Crossbank between McLeans Island Road and the River and for a 1000m shooting range adjacent to the existing NZ Army Range.

With public motor cars and 4WD vehicles already excluded from the forest and associated river berm, the relocation of the trailbikes and ATVs to the berm section off Weedons Ross Road, (184 hectares from approximately 1km above Miners Bank Road to approximately 1km below The Willows) will allow for the extension of the mountainbike and walking/running tracks within the central section of the forest and the development of horse trails along the River Road and into the western parts of the forest. Apart from the obvious elimination of the conflict between these activities, there will be a reduction in noise within the sections forest and picnic areas.

Hunting has also been considered at McLeans Island with an area of approximately 220ha, between the trailbike area and the stopbank available above Weedons Ross Road to The Willows. Pheasant hunting will also be permitted in some areas where hunting is normally prohibited, with an event permit issued.

The park will link to the proposed Christchurch City Council urban perimeter walkway and may eventually link to the Christchurch – Little River Railtrail Cycleway in part by way of the Environment Canterbury West Melton Reserves.

The river protection forest offers visitors to the park an area, which due to its river protection purpose will provide a permanent forest recreation area. Its changing appearance, due to the forest growth, harvesting and re-growth will keep it fresh and dynamic for visitors.



Coringa Country Club



Target shooting action



Orana Park



Canterbury kennel association



National Trade Academy



# Issues

There are a number of issues which impact upon this section of the Park including groundwater protection, significant fauna protection, shingle extraction and the Waimakariri Flood Protection Project

McLeans Island is located within the Christchurch Groundwater Protection Zone 1. Therefore it is essential that groundwater is protected from activities which detract from this significant natural value. There is a presumption against permitting new urban activities to establish on ECan land located in this zone and ECan will work with its lessees to protect and or improve groundwater quality.

This section and the adjoining West Melton reserves are the home to the last significant stand of Kowhais and remnant Canterbury Plains Grasslands close to Christchurch. These need to be protected and managed in a way which acknowledges their significance.

Significant shingle extraction and stock piling occurs along Haul Road at the eastern end of this section of the Park. This is a necessary flood mitigation activity however it does impact visitors primarily through the dust generated along the length of the road and vehicle movement out onto McLeans Island Road. The viability of sealing Haul Road will be explored with shingle extractors.

The stopbank infrastructure is programmed to be upgraded in this area as part of the Waimakariri Flood Protection Project which commences in 2010/11. This involves the linking of secondary stopbanks between Halkett and State Highway 1. This has the potential to impact upon lessees and Park visitors during the construction period.

## Anti Social Activities

Most of the park visitors within this section of the river coexist with little or no impact upon each other and the river environment. However a number of activities, almost all motor vehicle related, cause considerable conflict and damage to river protection infrastructure and with people engaged in non motorised recreation activities.

Many of the people involved in these vehicle activities are oblivious or indifferent to the conflict caused to other visitors, lessees, the environment and essential river protection infrastructure.

There are also significant issues relating to motor vehicle use along McLeans Island Road which have a major impact upon lessees especially the likes of Orana Park where animals can be distressed by the noise and activity. Vehicle dumping and burning also poses a significant risk in this high fire risk area.

These activities, combined with the frequent litter dumping place a great burden on the park resources and day to day management. This plan seeks to address these issues through a mixture of collaboration with other agencies, design consideration, education and enforcement.

## 25 Year Vision

McLeans Island will be the recreation hub of the Waimakariri River Regional Park. The section will be highly valued and this will be reflected by the number of activities available, visitors to the area and participation levels within lessee groups and their associated events.

Recreation opportunities provide a means of assisting people to appreciate the natural environment and maintaining their health and well being. These will be the primary reasons that people visit McLeans Island. McLeans Island will be associated with fun.

Given the proximity to Christchurch City and the International Airport, the diversity of recreation and leisure providers within and adjoining the area, McLeans Island will be a recreation tourist destination providing visitors with a unique experience. The area will also form an integral part of the Christchurch City Northwestern open space network and coastal and mountain cycleway / walkway trails linking the Park to the adjoining West Melton Reserves and beyond.

The realisation of these recreation opportunities along with the success of biodiversity protection and enhancement of the West Melton reserves could provide the catalyst for their inclusion into the Regional park.

No where else in New Zealand can you find a “play” area like this

This uniqueness will provide commercial recreation and leisure opportunities and the lessee areas could likely accommodate commercial operations which support the many activities occurring within this section of the park including hospitality thereby enhancing the core activities.

Organised sports will benefit from the free draining soils with the establishment of playing fields. These could operate as regional sportsgrounds taking some of the pressure to provide land for sports off other local authorities, especially within the urban parts of Christchurch City.

McLeans Island will continue to be well forested with pine protection species interwoven with pockets of regenerating flora. A wide range of native forest birds will utilise the river as a passageway from the foothills and mountains to the Pegasus Bay foreshore and Banks Peninsula forests. The forest and waterways will also support a diverse range of indigenous animals including fish, lizards and invertebrate.

Flooding, fire, minimum water flows, water quality and residential development in the Northwest of Christchurch are likely to have the most impact upon the area.



Burn-out marks at McLeans Island Road/Miners Bank intersection



Haul Road



# Location Map - McLeans Island





# Area 1

## – McLeans Forest - Haul Road to Weedons Ross Road

### Vision

A highly valued regional recreation and leisure area catering for a wide range of non-motorised activities

### Existing Issues

The main existing issues to be addressed in the concept development plan include:

- Speeding and inappropriate motor vehicle use along McLeans Island Road
- Conflict between motor vehicles and other recreation activities
- Trailbike and ATV damage to river control infrastructure
- Undesirable activities including rubbish and car dumping
- Lack of facilities including toilets, information and activity areas
- Conflict between shingle extraction vehicles and park visitors
- Fire risk to the forest

### Design Aims

The design aims for the McLeans Forest section are:

- To remove motor vehicles from the forest section between Haul Road and Weedons Ross Road
- To promote the McLeans Island area as a diverse recreation destination
- To reduce the conflict between the many recreation and leisure activities
- To make provision for the extension of existing recreation facilities
- To make provision for the development of future recreation needs
- To enhance education and interpretation opportunities
- To develop walking and cycle linkages into the Regional Park
- To protect the areas indigenous biodiversity including the last significant stand of Kowhais close to Christchurch

### Key Design Features

The key design features of the concept development plan include:

- A welcoming entrance and information site at the corner of McLeans Island Road and Haul Road
- Signage and interpretation
- Enhanced cycle and walking access
- The naturalisation of the waterhole and borrow pit network to enhance biodiversity opportunities and create features of interest throughout the forest
- A drive-in picnic area at the eastern end of the section running parallel to Haul Road
- The development of a mountain bike park and provision for future extensions
- Enhanced parking and access to the mountain bike Park
- Public toilet facilities
- Provision for organised sports grounds
- Provision for a Christchurch City Council regional playground facility
- A dog exercise area with adjoining trails
- The relocation of trailbike activities to Weedons Ross Road
- The re-allocation of the Haul Road carpark (northend) for horse float parking
- Equestrian Trails along River Road linking to the western end of the forest
- The establishment of picnic areas at Fraser Oval, the river end of Miners Bank Road and Coringa Crossover
- Fenced areas to protect and enhance significant existing indigenous flora sites
- A landscaped road corridor



Location map McLeans forest



# Activities

Category	McLeans Forest	Reason for Category
<b>Permitted</b>	Fishing	Anglers key access provided
	Cycling	Preferred activity
	Walking/jogging	Preferred activity
	Horses	Preferred activity on designated trails
	Dogs under control in all areas except where specifically prohibited	Protection of wildlife and neighbours stock, conflict with other users
<b>Managed</b>		
<b>Restricted</b>	Events	Permit required
	Commercial filming	Permit required
	Commercial Operations	Permit required
<b>Prohibited</b>	Trailbikes/ATV's	Conflict with other users, protection of the environment
	Lighting fires	Protection of the environment
	Camping or campervans overnight	Protection of the environment, Night Gates in operation
	Hunting	Conflict with other users
	Dogs on designated cycle trails	Conflict with other users



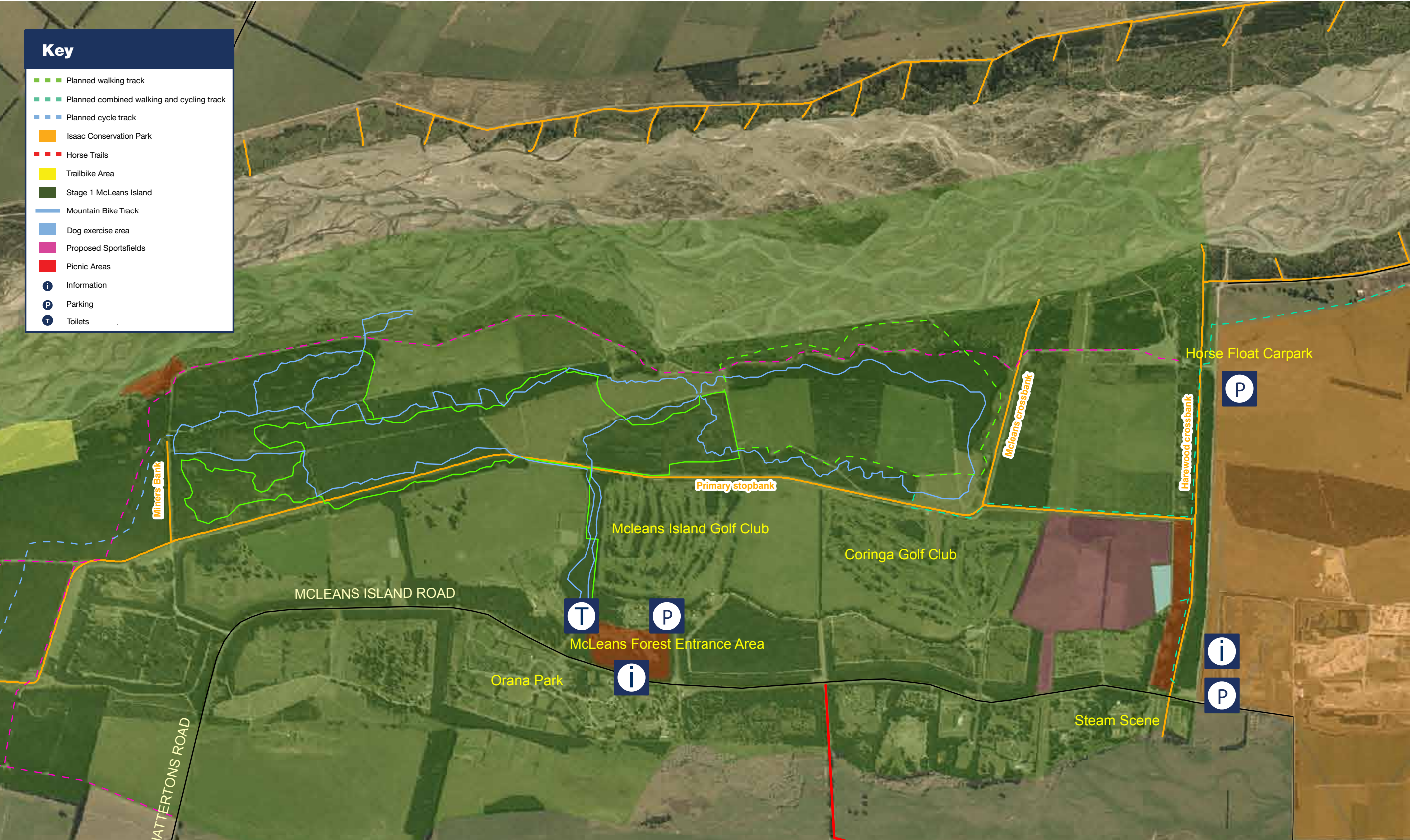
Coringa Crossover Picnic Area development



Kids bike event at Fraser Island



# Location Map - McLeans Forest



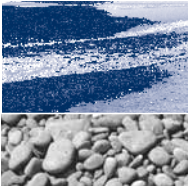


Design proposal for Haul Road





Design proposal for entrance to Fraser Oval and the mountain bike and walking trails





# Area 2

## – Weedons Ross Road to The Willows

Vision

A managed off-road motorcycle and all terrain vehicle destination that has a minimal impact upon the river environment and other park visitors.

### Existing Issues

- The design aims for Weedons Ross Road to the Willows are:
- To establish a trailbike and ATV area with amenities
  - To allocate space for the provision of a 1000m rifle range
  - To remove trail bike access from the forest and from in and around the Willows Picnic Ground
  - To enhance education and interpretation opportunities
  - To protect the areas indigenous biodiversity including the last significant stand of Kowhais close to Christchurch



ATV event

### Design Aims

- The key design features of the concept development plan include:
- A 184 hectare trailbike/ATV area off Weedons Ross Road with car parking and toilet facilities, running from approximately 1km above Miners Bank Road to approximately 1km below The Willows
  - Signage and interpretation
  - Enhanced cycle and walking access along the stopbank system away from the designated trailbike area

- The naturalisation of the waterhole network to enhance biodiversity opportunities and create features of interest throughout the forest
- Provision for a 1000m public shooting range adjacent to the existing NZ Army Range
- Equestrian Trails through the western end of the forest linking to Chattertons and River Roads away from the designated trailbike area
- Fenced areas to protect and enhance significant existing indigenous flora sites

### Activities

Category	Weedons Ross	Reason for Category
<b>Permitted</b>	Fishing	Preferred activity
	Trailbikes/ATVs	Preferred activity
	Horses on designated trails only	Preferred activity
	Dogs under control in all areas except where specifically prohibited	Preferred activity
	Camping or campervans overnight	Minimal effect upon other users and the river environment
	Hunting upstream Forest Weedons Ross Road	Preferred activity
<b>Managed</b>	Harakeke/Raupo harvesting	Cultural harvest agreement in place, permission required
<b>Restricted</b>	Events	Permit required
	Commercial filming	Permit required
	Commercial Operations	Permit required
	Pheasant hunting	2 Day event. Permit required, conflict with other users
<b>Prohibited</b>	Public motor vehicle access	Conflict with other users, protection of the environment
	Trailbikes at The Willows Picnic Ground	Conflict with other users, protection of the environment
	Lighting fires	Protection of the environment
	Hunting downstream Weedons Ross Road and trail bike area	Conflict with other users
	Horses within the Trailbike/ATV area	Conflict with Trailbike/ATV activities



# Location Map - Weedons Ross Road to the Willows





# Area 3

## – McLeans Island Recreation Community

Vision

A vibrant, diverse and collaborative recreation community

### Existing Issues

- The main issues for the recreation and leisure groups and providers include:
- Inappropriate and undesirable motor vehicle use along McLeans Island Road
  - Access to and from Mcleans Island Road off Johns Road
  - Event traffic management
  - Lack of public transport services
  - Economic issues impacting Club operations
  - Flood or fire events



National Trade Academy

### Design Aims

- Environment Canterbury aims to support the recreation community by:
- Encouraging interaction between the area’s clubs and organisation
  - Advocating for the recreation community future needs
  - To make provision for the environmental infrastructure
  - Providing opportunities for lessees to piggyback upon the Regional Park Brand
  - Enhancing education and interpretation opportunities
  - Protecting indigenous biodiversity

### Key Actions

- The establishment of a Lessee Advisory Group
- Advocacy for appropriate recreation community outcomes
- Contributing to the funding for lessee main signage
- Managing forestry activities to cater for the recreation community needs
- Establishing an Emergency Evacuation Plan
- Establishing generic event traffic plans
- Formalising event overflow car parking areas
- Surveying and monitoring indigenous biodiversity

Lessee	Lot No
Coringa Country Club	M2
Canterbury Chartered Clubs	M3
Canterbury Shooting Federation	M4
Canterbury Steam Preservation Society	M5
Vintage Car Club of NZ - Canterbury Branch	M6
Canterbury Kennel Association	M7
Orana Wildlife Trust	M8
Orana Wildlife Trust	M8 pt1
Kustom Car Club	M9
NZ Vintage Machinery Club	M10
McLeans Island Caravan Camping Club	M11
NZ Equestrian Federation	M12
NZ Handloaders Association	M14
Mark RS (Paintball)	M16
Canterbury Clay Target Club	M19
NZ Police	M21
Canterbury International Golf Academy	M23
Constable SJ (Paintball)	M24
Roydvale Pony Club	M25
Tanks for Everything	M27
National Trade Academy	M28
Tactical Airsoft Group	M30
Grazing licence	W43
Grazing licence	W49
Grazing licence	W51
Grazing licence	W52



Lessee Location Map





# Forest Management

Detail of the management of McLeans Forest is provided in the Environment Canterbury Forest Management Plan. However as forest management will impact on recreation in the Park and forest, a summary is provided here.

The forest is Radiata Pine, however there are other minor species including poplar and willow which form part of the river protection planting.

Forest management objectives focus on optimising the rate of return on investment within the constraints of:

- Protecting river control infrastructure
- achieving sustainable land use
- maintaining landscape values
- providing recreation opportunities

Radiata Pine is easy to establish and manage in this location with minimum rotation lengths of at least 27 years, is a locally accepted timber and is a good a protection species in dry areas. When harvesting does occur, consideration will be made in regards to recreation values.

In the last 80 years forest management has concentrated on ensuring that the forest provides the stopbanks and groyne with adequate buffer from fast flowing water with the supplementary benefit of being self funding.

Future forest management will continue to provide a healthy forest through industry standard silviculture and regular renewal through harvesting and replanting.



McLeans Island Road

# Fire Prevention

After flooding, the most likely threat to the infrastructure at McLeans Forest is fire. The park is located within the Christchurch City Rural Fire District and is included in the Environment Canterbury Fire Plan which sets limits on various forest and park operations.

Fire prevention measures at McLeans Forest include;

- Liaising with the local fire authority over the management of the area
- Inclusion in the annual ECan fire plan
- Monitoring risk levels
- Minimising the fuel load
- Controlling and eliminating gorse and broom
- Keeping forestry tracks clear and open for emergency vehicles
- Managing visitor use and occasionally restricting access
- Prohibiting the lighting of fires
- Prohibiting overnight camping between Haul Road and Weedons Ross Road
- Erecting signage advising visitors of the fire hazard and rules
- Erecting signage to identify water supply
- Developing tracks in areas of low fuel loading
- Maintaining fire fighting equipment in the area at Orana Park
- Developing relationships with lessees who have fire fighting equipment and water storage e.g. Vintage Car Club and Steam Scene
- Requiring trailbikes and ATV's to ride with spark arresting exhausts
- Early detection and suppression of any wild fires

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