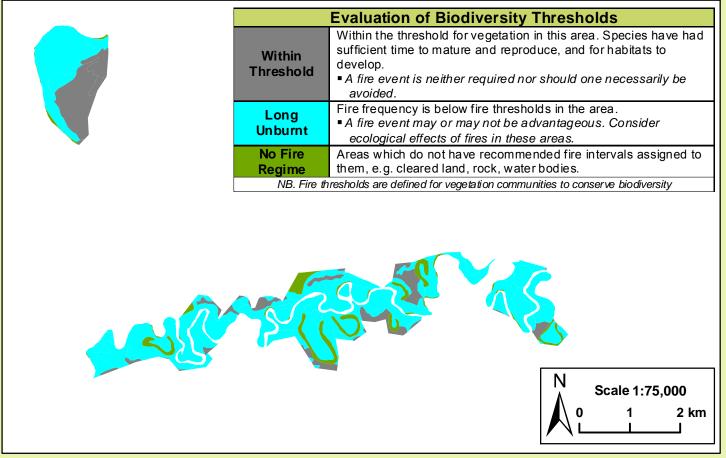
Murray Valley Regional Parl	ĸ			
Kyalite & Liewa Pre	cin	cts	Office of Environment &	
Fire Management Strategy 2	2012	GOVERNMEN	NSW National Parks	s & Wildlife Service
Mapsheet 1 of 1				
This strategy should be used in conjunction with aerial These data are not guaranteed to be free from error or information in the data and any consequences of such a criticism or review, as permitted under the copyright Act, m Section 38 (4) and Section 44 (3) of Rural Fires Act 199 Contact: OEH PWG Regional Office	omission. acts or om o part may <b>97.</b> The N by the Of	The NSW National Parks and Wi issions. This document is copyrig y be reproduced by any process v SW National Parks and Wildlife S ffice of Environment and Heritage	Idlife and its employees discl ht. Apart from any fair dealing vithout written permission. <b>Th</b> ervice is part of the Office of (NSW).	aim liability for any act done on the g for the purpose of study, research <b>is strategy is a relevant Plan under</b> Environment and Heritage. Published
ISBN 978 174293 666 6 OEH 2012/0462	Date:	: August 2012	Version No: 1	
Ма	p Det	ails		Related Documents
Datum: Geocentric Datum of Australia (GDA) Projection: Map Grid of Australia (MGA) Zone Data: Spot Satellite Imagery: 2005.	1994	<b>1:50k Topographic Ma</b> (AGD-1966) <b>Scale:</b> Noted scales are A1 size paper		OEH Fire Management Manual 2011 - 2012.
		Vegetation	,	N Scale 1:75,000 0 1 2 km

		Vegetation Map Legen	d	
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour	
Forested Wetlands	River Red Gum Forests Red Gum Forests with Black Box Woodland	An interval between fire events less than 10 years and greater than 35 years should be avoided. River Red Gums will only tolerate low intensity fires. Individual trees may survive canopy scorch if they are not under stress and are in older age classes. Younger trees will not survive moderate to high intensity fires. Two fires occurring in the same area in a period of less than 20 years apart may reduce the extent of River Red Gum Forests.	These vegetation communities will generally not carry fire unless there are high ephemeral fuel loads, which generally occur after flooding events. In favourable years the River Red Gum forests can be scattered with high reed beds, which can	
Freshwater wetlands	Lignum	Fire should be avoided where Chenopods occur.	result in isolated areas of very high to extreme fire behaviour. In years of high ephemeral fuels, landscape fires are	
Arid shrublands (Chenopod subformation)	Chenopod Shrubland	Fire should be avoided where Chenopods occur.	possible as fire potential will be very high to extreme, characterised by spotting from Black Box and River Red Gum	
Semi-arid Woodlands (Grassy sub- formation)	Black Box Woodland	An interval between fire events <b>less</b> <b>than 9 years</b> should be avoided. There is <b>no maximum</b> interval between fire events specified for this vegetation type as there was insufficient data to give definite intervals. Two fires in the same area in a period of less than 10 years apart may remove younger Black Box trees.	communities and fast moving fires in othe communities. Red Gum trees commonly form candles.	
Grassy Woodlands	Mixed Woodland	An interval between fire events less than 8 years and greater than 40 years should be avoided.	High intensity fast moving fire once grasses have cured. Fire behaviour is dominated by winds, both speed and	
Other (No Veg)	Open Areas	N/a	direction. Even in very low fuel, grass fires can be erratic and fast moving. In ephemeral years fire intensity will be higher and in drought years minimal growth will result in moderate fire behaviour but potentially still fast moving depending on weather conditions at the time. Potential spotting from trees.	
Fire History	The fire history data for this area is incomplete. No fires have been documented for this reserve.			
Ephemeral Conditions	Ephemeral fuel conditions occur after consecutive years of effective rainfall and significant flooding events. This in turn leads to the growth and build up of fine surface fuels such as grasses and herbs, which can create a continuous fuel load across <b>all</b> of the above vegetation communities. As a result expect higher fire intensity.			
Drought Conditions	During drought conditions and when vegetation communities are obviously stressed or experiencing dieback no prescribed burning will be permitted and wildfire areas will be minimised.			

## **Status of Biodiversity Thresholds**

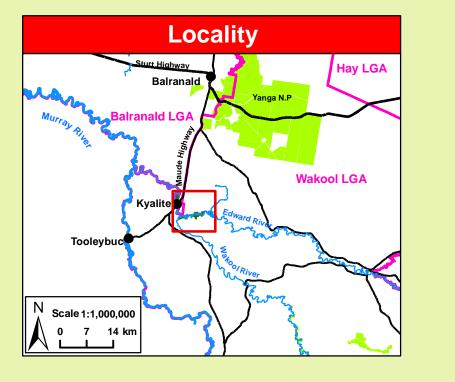


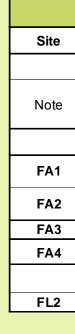
	Operational Guidelines Brief all personnel involved in suppression operations on the following issues using the SMEACS format:
General	Guidelines
Aerial Water Bombing	<ul> <li>The use of bombing aircraft should support containment operations by aggressively attacking hotspots and spot-overs,</li> <li>The use of bombing aircraft without the support of ground based suppression crews should be limited to very specific circumstances,</li> <li>Where practicable foam should be used to increase the effectiveness of the water,</li> <li>Ground crews must be alerted to water bombing operations.</li> </ul>
Aerial Ignition	<ul> <li>Aerial ignition may be used during back-burning or fuel reduction operations where practicable, but only with the prior consent of NPWS Regional Manager, OEH Section 44 delegate or as prescribed in an operational burn plan,</li> <li>Aerial ignition will only be undertaken by accredited bombardiers,</li> <li>The pattern for aerial ignition will be specified in the IAP during fire suppression,</li> <li>Utilise incendiaries to rapidly burn out large areas where required.</li> </ul>
Back-burning	<ul> <li>Temperature and humidity trends must be monitored carefully to determine the safest times to implement back-burns. Generally, when the FDI is Very High or greater, back-burning should commence when the humidity begins to rise in the late afternoon or early evening, with a lower FDI back-burning may be safely undertaken during the day,</li> <li>Where practicable, clear a 1m radius around dead and hollow bearing trees adjacent to containment lines prior to back-burning, or wet down these trees as part of the back-burn ignition,</li> <li>Use parallel containment lines when applicable,</li> <li>All personnel must be fully briefed before back-burning operations begin.</li> </ul>
Command & Control	<ul> <li>Standard Incident Management Systems are to be applied,</li> <li>On the arrival of other combatant agencies, the initial incident controller will consult with regard to the ongoing command, control and incident management team requirements as per the relevant BFMC Plan of Operations,</li> <li>Where OEH is not the first responding fire authority to arrive at a fire on OEH-managed lands, a competent officer of the first arriving fire authority will direct fire management activities until a competent OEH officer assumes control (unless prior agreements have been made).</li> </ul>
Containment Lines	<ul> <li>Construction of new containment lines should be avoided, where practicable, except where they can be constructed with minimal environmental impact,</li> <li>For new containment lines IMT to liaise with and receive consent from a Senior NPWS officer prior to construction,</li> <li>Use parallel containment lines when applicable,</li> <li>All containment lines not required for other purposes should be closed at the cessation of the incident,</li> <li>All personal involved in containment line construction should be briefed on both natural and cultural heritage sites in the location,</li> <li>Containment line construction using earthmoving equipment must be in accordance with the earthmoving guidelines contained within the RFMS.</li> </ul>
Earthmoving Equipment	<ul> <li>Earth moving equipment may only be used with the prior consent of a senior NPWS officer, and then only if the probability of its success is high,</li> <li>Earth moving equipment must always be guided and supervised by an appropriately experienced person, and accompanied by a support vehicle. When engaged in direct or parallel attack this vehicle must be a fire fighting vehicle,</li> <li>Containment lines constructed by earthmoving equipment should consider the protection of drainage features, observe the Threatened Species and Cultural Heritage Operational Guidelines, and be surveyed, where possible, to identify unknown cultural heritage sites,</li> <li>Earth moving equipment must not leave tracks or create new tracks in Machinery Exclusion areas as marked on the Incident Map of a RFMS,</li> <li>Earth moving equipment must be washed down, where practicable, prior to it entering NPWS estate and again on exiting NPWS estate,</li> <li>Where multiple items of earthmoving equipment are being used, the IMT should consider the establishment of a Plant Operations Manager.</li> </ul>
Fire Advantage Recording	• All fire advantages used during wildfire suppression operations must be mapped and where relevant added to the database.
Fire Suppression Chemicals Rehabilitation	<ul> <li>Use of wetting and foaming agents (surfactants) is permitted on the reserve,</li> <li>The use of fire retardants are only permitted with the prior consent of the senior NPWS officer and should be avoided where reasonable alternatives are available,</li> <li>Exclude the use of surfactants and retardants within 50m of watercourses, dams and swamps,</li> <li>Areas where fire suppression chemicals are used must be mapped and the used product's name recorded,</li> <li>The Threatened Species Operational Guidelines are to be observed.</li> <li>Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.</li> <li>The potential impacts of smoke and possible mitigation factics must be considered when planning for wildfire suppression and</li> </ul>
Smoke Management	<ul> <li>The potential impacts of smoke and possible mitigation tactics must be considered when planning for wildfire suppression and prescribed burning operations,</li> <li>If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified,</li> <li>Smoke management must be in accordance with relevant RTA traffic management guidelines.</li> <li>OEH personnel are not trained in structural fire fighting and must not enter a structure in order to undertake structural fire</li> </ul>
Structural Fire Fighting	<ul> <li>fighting,</li> <li>Fire suppression activities may be undertaken from outside a structure in accordance with the policies in the NPWS FMM, in order to protect a built asset.</li> </ul>
Visitor Management	<ul> <li>The reserve may be closed to the public during periods of extreme fire danger or during prescribed burning or wildfire suppression operations.</li> <li>Beware of overhead powerlines</li> </ul>
WARNINGS	<ul> <li>Beware of overhead powerlines,</li> <li>Reserve prone to flooding and only some trails will be trafficable after flood events or rainfall.</li> </ul>
Mana	Bushfire Risk Management Strategies         Image: Strategies         Image: Strategies         Image: Strategies         Image: Strategies
	thresholds.
Season	Suppression Strategies           Typical Conditions         Indicative Suppression Strategies

	Operational Guidelines
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Mana	Bushfire Risk Management Strategies         Image: Strategies
	Manage fire consistent with fire thresholds.
Season	
Just prior to during the cri fire seasor	or Greater, • Short and medium range forecasts suggest conditions typical to a FDR of Very High or Greater
Outside of t critical fire season	CONTINUING FUR OF HIGH OF DELOW

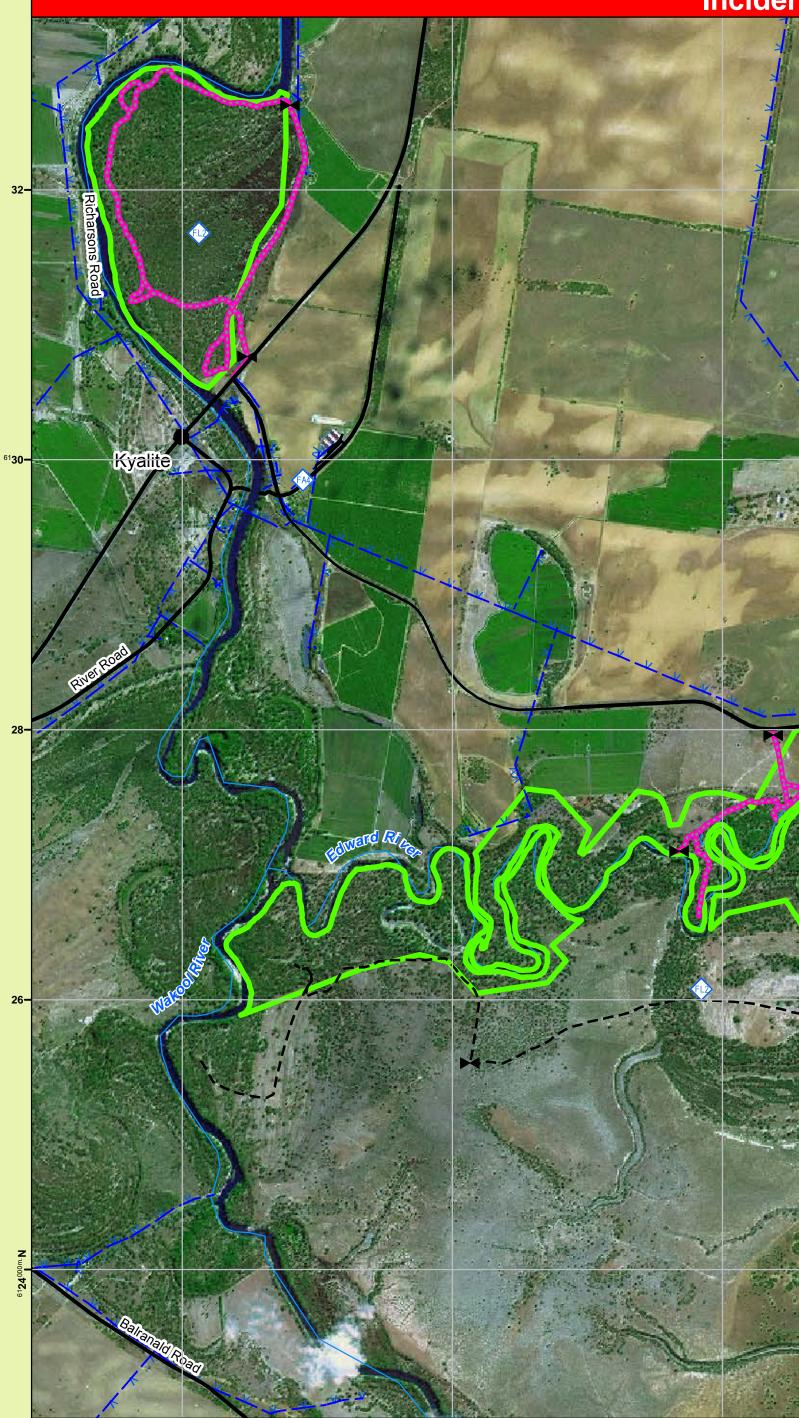
С	ontact Information	
Agency	Position / Location	Phone
	Duty Officer (8am-10pm)	<b>02</b> 6332 6350
National Parks & Wildlife Service	Regional Office – 200 Yambil St. Griffith	<b>02</b> 6966 8100
	Hay Area Office	<b>02</b> 6990 8200
Mid Murray Zone NSW Rural Fire	Duty Officer (AH)	<b>03</b> 5881 6297
Service	Deniliquin FCC 305 Duncan St, Deniliquin	<b>03</b> 5881 5351
State Forests	Deniliquin – Duty Mobile	0408 675 211
Emergency Services		000
SES		13 2500
Police Station	Balranald	<b>03</b> 5020 1404
(not open 24 hrs)	Moulamein	<b>03</b> 5887 5004
Police - Local Area Command	Deniliquin	<b>03</b> 5881 9437
Hospital	Balranald Swan Hill	<b>03</b> 5020 1606 <b>03</b> 5033 9300
Council	Wakool Shire Council Balranald Shire Council	<b>03</b> 5887 5007 <b>03</b> 5020 1300

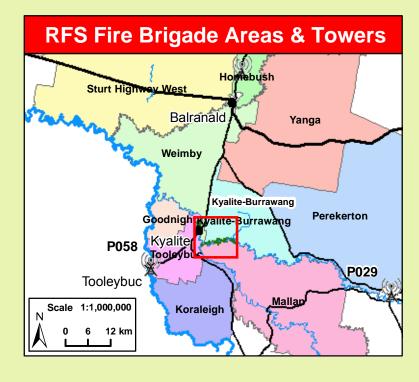
Comr	nunicat	ions Information
Service	Channel	Location and Comments
NPWS (Yanga)	02	■UHF
RFS Balranald	P062	Lowbidgee
RFS Wakool	P029	■Moulamein
State Forests UHF - CB	19	Deniliquin/Mathoura
State Forests VHF	222	■Barham





## **Incident Map Fire Season Information** The critical wildfire season generally occurs from October/November to March/April. Dry lightning storms frequently occur and typical fire weather conditions are winds from the west to the north, high day time temperatures and low humidity Particular care is required following periods of Winter rain and after periods of negative Wildfires Southern Oscillation Indices. • Prescribed burning should generally be undertaken during Autumn, Winter or early Prescribed Spring Burning • Care should be taken to ensure a low intensity burn over most of the area treated. NPWS Estate River V – V Powerlines ► Gate Fire Trails BFCC Policy No. 2/2007 Cat 9 - Essential --- Cat 9 - Important Roads and Trails Sealed Road - Two Lanes ------ Sealed Road - One Lane --- Unsealed Road - One Lane Site Management (see guideline tables) Scale 1:28,000 Threatened Fauna Threatened Flora





Threatened Sites Guidelines				
Guidelines				
Aboriginal Cultural Heritage Site Management				
An Aboriginal sites survey is yet to be conducted for this reserve (as of August 2012). Avoid fire and grading control lines within 100 m of a water course, wherever possible, to protect unknown Aboriginal sites.				
Threatened Fauna Management				
•Utilise mosaic burning and avoid disturbance at known sightings, roostings or refuges and avoid frequent fire (<6 years).				
•Utilise mosaic burning, avoid disturbance at known sightings, roostings or refuges, avoid frequent fire (<6 years) and exclude chemical use				

FA2and exclude chemical use.FA3•Utilise mosaic burning and protect hollow bearing trees.

**FA4** •Utilise mosaic burning, protect hollow bearing trees and avoid frequent fire (< 6—10 years ).

Threatened Flora Management

FL2 •Utilise mosaic burning