

South West Woodlands Nature Reserve Mandagery Precinct Fire Management Strategy 2012
Mapsheet 1 of 1

NSW Office of Environment & Heritage
NSW National Parks & Wildlife Service

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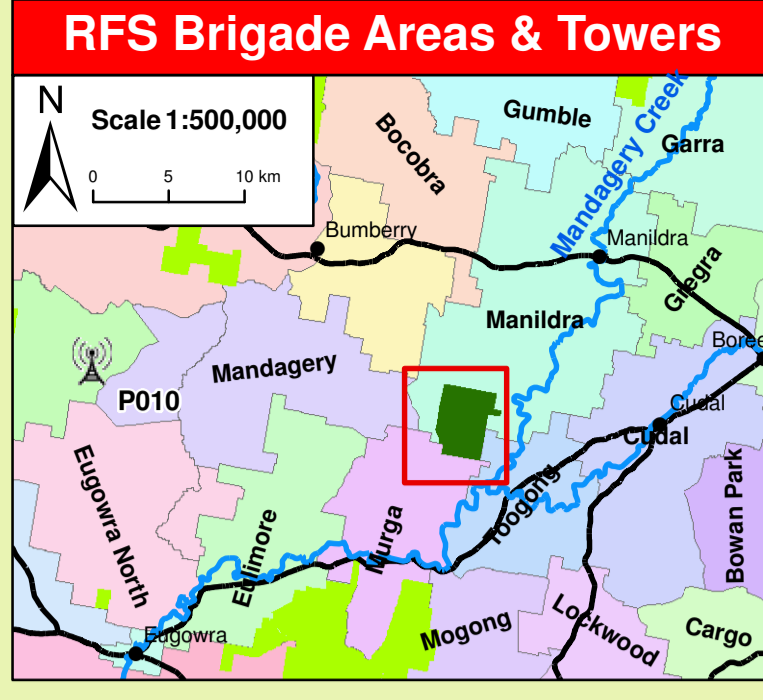
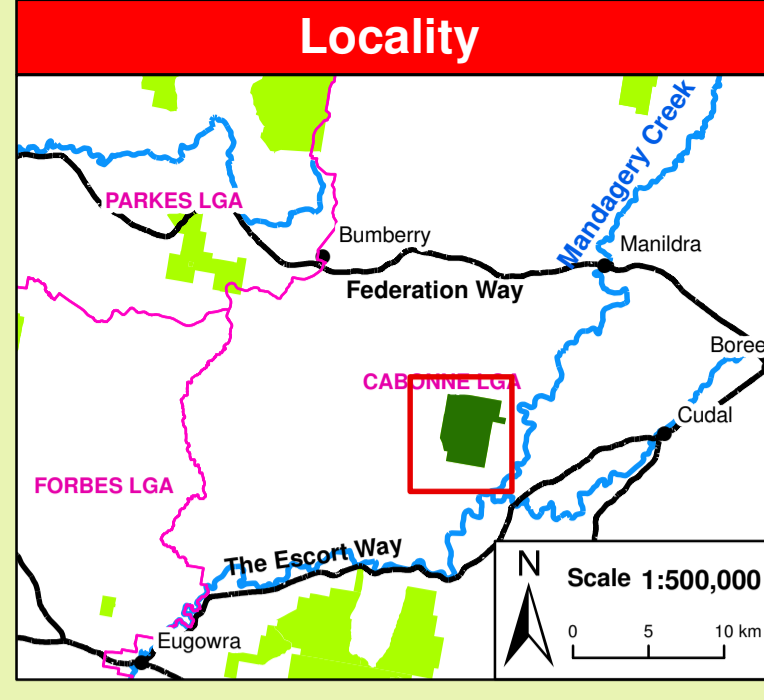
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Map Details
Datum: Geocentric Datum of Australia (GDA) 1994
Projection: Map Grid of Australia (MGA) Zone 55
Data: Spot Satellite Imagery: 2005.

Related Documents
Topographic Maps: 1:50k - CUDAL 8631S (AGD 1966)
OEH Fire Management Manual 2011 - 2012.

Scale: Noted scales are true when printed on A1 size paper.



Operational Guidelines

Brief all personnel involved in suppression operations on the following issues:

General	Guidelines
Aerial Water Bombing	<ul style="list-style-type: none"> Very effective first attack where fire is still small and crews are some distance away. Should support containment operations by aggressively attacking hotspots and spot-overs. Without the support of ground based suppression crews should be limited to very specific circumstances. Where practicable foams or gels should be considered to increase the effectiveness of water. Ground crews must be alerted to water bombing operations.
Aerial Ignition	<ul style="list-style-type: none"> Aerial ignition may be used where practicable, with the prior consent of NPWS Regional Manager, OEH Section 44 delegate or as prescribed in an operational burn plan. Aerial ignition will only be undertaken by accredited bombardiers. The pattern for aerial ignition will be specified in the IAP during fire suppression. Utilise incendiaries to rapidly burn out large areas where required.
Back-burning	<ul style="list-style-type: none"> 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. 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. Use parallel containment lines when applicable.
Command & Control	<ul style="list-style-type: none"> Standard Incident Management Systems are to be applied. 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. 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).
Containment Lines	<ul style="list-style-type: none"> Construction of new containment lines should be avoided, where practicable, except where they can be constructed with minimal environmental impact. New containment lines require the prior consent of a OEH Section 44 delegate or NPWS Area Manager or Regional Manager. Use parallel containment lines when applicable. All containment lines not required for other purposes should be closed at the cessation of the incident. All personnel involved in containment line construction should be briefed on both natural and cultural heritage sites in the location refer to incident map. Containment line construction using earthmoving equipment must be in accordance with the earthmoving guidelines contained within the RFMS.
Earthmoving Equipment	<ul style="list-style-type: none"> Earthmoving 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. 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. Earthmoving equipment must not leave tracks or create new tracks in Machinery Exclusion areas as marked on the Incident Map of a RFMS. Earthmoving equipment must be washed down, where practicable, prior to it entering NPWS estate and again on exiting NPWS estate. Where multiple items of earthmoving equipment are being used, the IMT should consider the establishment of a Plant Operations Manager.
Fire Advantage Recording	<ul style="list-style-type: none"> All fire advantages used or created during wildfire suppression operations must be mapped and where relevant added to the database.
Fire Suppression Chemicals	<ul style="list-style-type: none"> Use of gels and foaming agents (surfactants) is permitted on the reserve. The use of fire retardants are only permitted with the prior consent of the OEH Section 44 delegate or NPWS Area Manager or Regional Manager and should be avoided where reasonable alternatives are available. Exclude the use of surfactants and retardants within 50m of watercourses, dams and swamps. Areas where fire suppression chemicals are used must be mapped and the used product's name recorded. The Threatened Species Operational Guidelines are to be observed. Refer to incident map for locations.
Rehabilitation and Stabilisation	<ul style="list-style-type: none"> Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.
Smoke Management	<ul style="list-style-type: none"> The potential impacts of smoke and possible mitigation tactics must be considered when planning for prescribed burning operations. If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified. Smoke management must be in accordance with relevant RTA traffic management guidelines.
Structural Fire Fighting	<ul style="list-style-type: none"> OEH personnel are not trained in structural fire fighting and must not enter a structure in order to undertake structural fire fighting. Fire suppression activities may be undertaken from outside a structure in accordance with the policies in the NPWS FIM, in order to protect a built asset.
Visitor Management	<ul style="list-style-type: none"> The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations. Areas of a reserve may be closed for prescribed burning operations.
WARNINGS	<ul style="list-style-type: none"> Beware of overhead powerlines, and fences crossed by powerlines. In years following wet seasons be cautious of soil crusts with underlying liquefying soils.

Bushfire Risk Management Strategies

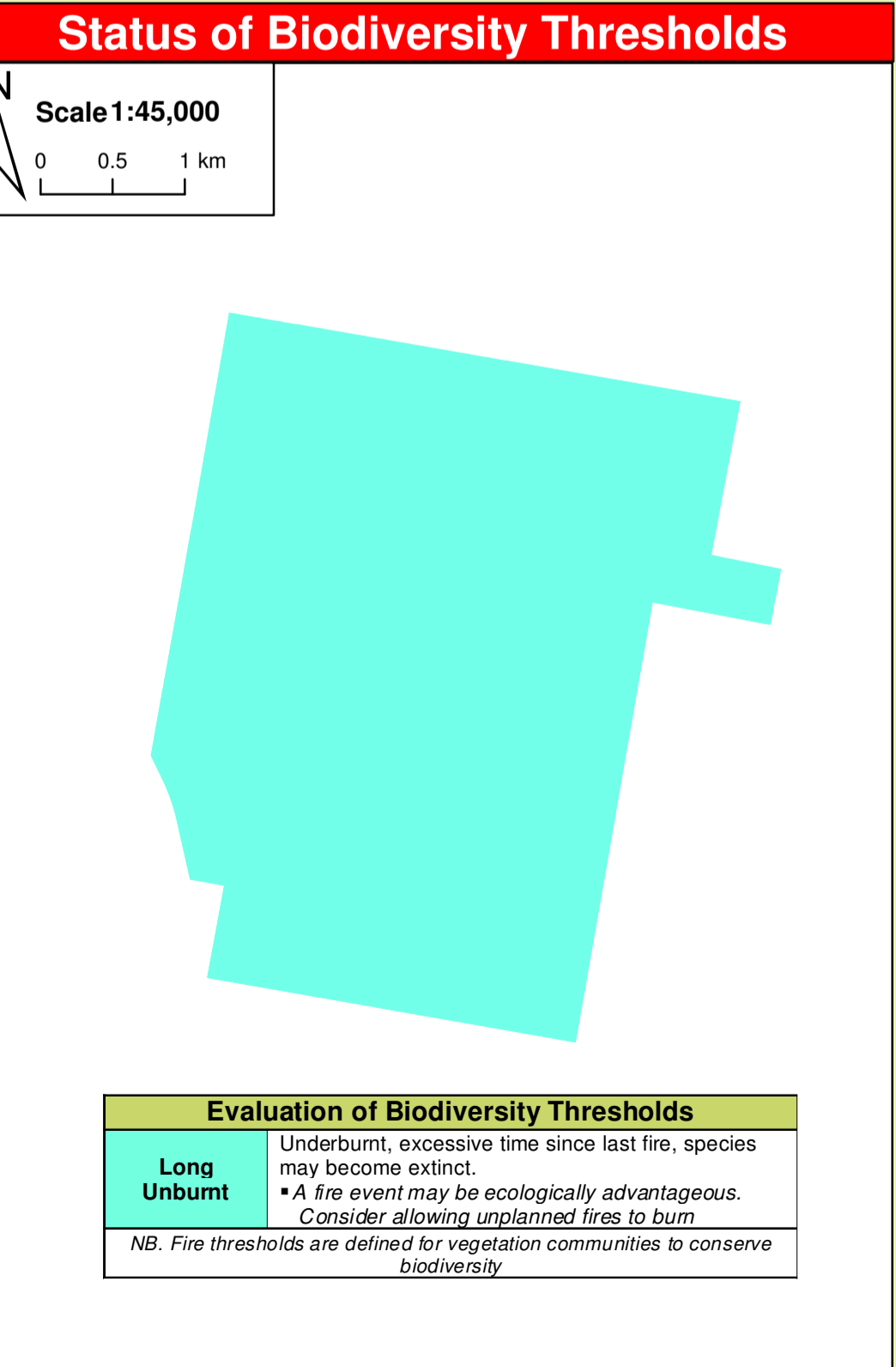
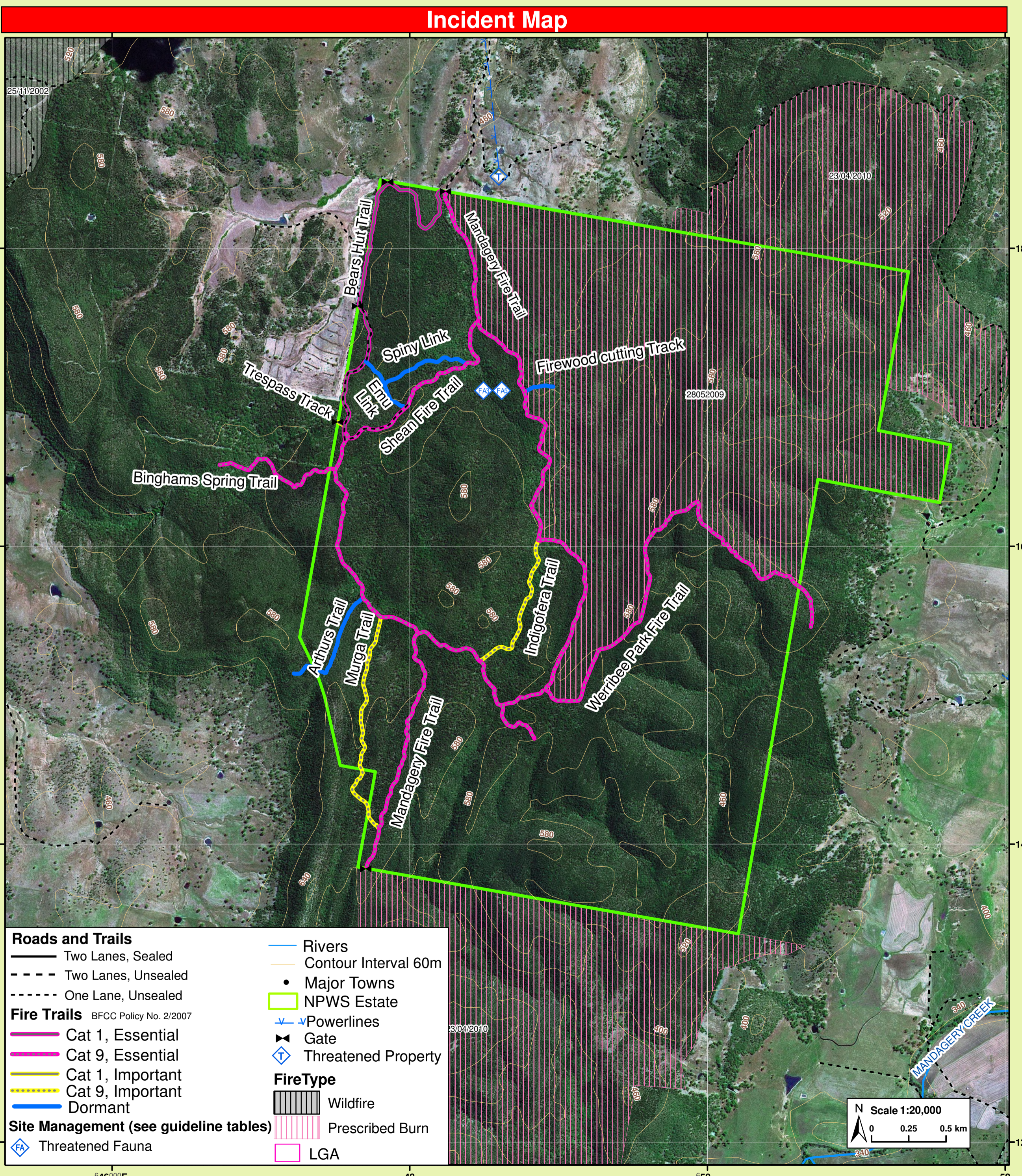
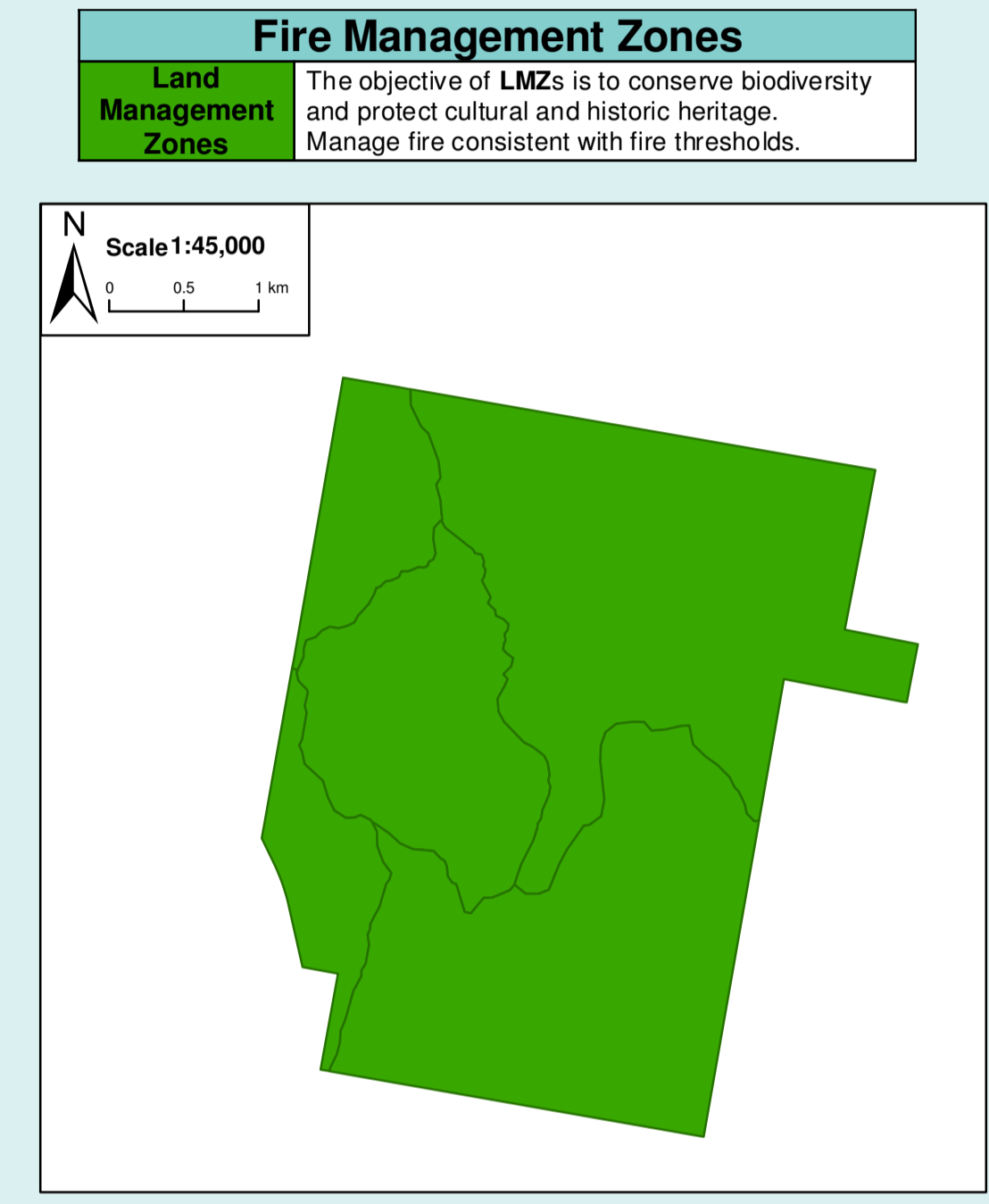
Season	Typical Conditions	Indicative Suppression Strategies
Just prior to or during the critical fire season	<ul style="list-style-type: none"> Current Fire Danger Rating (FDR) of Very High or Greater, Short and medium range forecasts suggest conditions typical to a FDR of Very High or Greater, A risk to life and/or property exists in the short - medium term, A broad area risk to biodiversity exists. 	<p>Direct Initial attacks should be to try to extinguish or to contain to the smallest possible area.</p> <p>Indirect Develop a suppression plan using existing and/or potential containment lines. If possible take into account biodiversity requirements but never to the detriment of life and property.</p>
Outside of the critical fire season	<ul style="list-style-type: none"> FDR of High or below, Short - medium term forecast indicate a continuing FDR of High or below No risk to life or property exists in the short-medium term. Only small area risk to biodiversity exists. 	<p>Direct Evaluate the biodiversity thresholds and use direct attack methods to extinguish if required.</p> <p>Indirect Develop a fire suppression plan to the maximum allowable perimeter based on Biodiversity thresholds.</p>

Threatened Sites Guidelines

Site	Guidelines
Aboriginal Cultural Heritage Site Management	
No sites currently known. Contact Senior NPWS or Cultural Heritage Officer before commencing any works.	
Threatened Flora Management	
No species currently known to occur in park.	
Threatened Fauna Management	
FA1	Utilise mosaic burning and avoid disturbance at known sites, roosts or refuges and avoid frequent fire (<6 years).
FA3	Utilise mosaic burning and protect hollow bearing trees.
FA4	Utilise mosaic burning, protect hollow bearing trees and avoid frequent fire (< 6-10 years).
FA5	Utilise mosaic burning.

Fire Season Information

Wildfires	<ul style="list-style-type: none"> The critical wildfire season generally occurs from November through to February. 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 Southern Oscillation Indices.
Prescribed Burning	<ul style="list-style-type: none"> Prescribed burning should generally be undertaken during Autumn, Winter or early Spring Care should be taken to ensure sufficient fuel is available to allow a low to moderate burn over most of the area identified.



Contact Information

Agency	Position / Location	Phone
National Parks & Wildlife Service	Duty Officer (8am-10pm)	02 6332 6350
	Forbes Area Office 1 Camp St	02 6851 4429
NSW Rural Fire Service Canobolas Zone	Fire Control Centre 1385 Forest Rd, Orange	02 6363 6666
Forests NSW	Forbes Office	02 6850 2927
Emergency	000	
Fire and Rescue NSW	Parke's Orange	02 6863 5951
	Orange	02 6361 2205
Police - Local Area Command	Parke's Orange	02 6862 9977
	Eugowra Orange	02 6859 2244 02 6363 6399
SES	State Lachlan	13 2500 02 6863 8100
	Parke's District Orange Base	02 6862 1611 02 6393 3000
Hospital	Cudal War Memorial	02 6364 2025
	Eugowra Memorial	02 6850 4000
Council	Cabonne Shire Council	02 6392 3200

Communications Information

Service	Channel	Location and Comments
NPWS Forbes	23	VHF Kadina
NPWS Bathurst	24	VHF Mount Canobolas
RFS Forbes	P010	PMR Mt Coonambro
RFS Orange	P068	PMR Mount Canobolas
Forests NSW	3 or 144	VHF Mount Canobolas
Manildra Brigade	12	UHF Simplex
Toogong Brigade	11	UHF Simplex
Murga Brigade	27	UHF Simplex

NPWS VHF use mobile repeater for fire-ground, VHF 13, 14 or 15

Vegetation Map Legend

Broad Vegetation Class	Vegetation Description	Biodiversity Thresholds	Fire Behaviour
Dry sclerophyll forests (Shrub sub-formation)	Dry Open-forest on ranges of the lower slopes (Hervey Ranges), Mugga Ironbark Woodland on hills	An interval between fire events less than 10 years (7 years in SFAZ) and greater than 30 years should be avoided. These communities typically consist of many obligate seeders.	In long unburnt areas, very high potential for spotting due to bark fuels. Isolated areas with heavy ground fuel may have the potential for very high fire behaviour.
Ephemeral Conditions	Occur after consecutive years of effective rainfall events. This in turn leads to the growth and build up of fine surface fuels such as grasses and herbs, which can create continuous fuel loads. As a result expect higher fire intensity.		
Drought Conditions	During drought conditions and when vegetation communities are visibly stressed it will be very difficult to undertake prescribed burning across many communities as the surface fuels will be very low. Wildfires are likely to be difficult to control due to extreme conditions during the day and areas of low fuel that are difficult to back-burn in under night conditions, particularly in areas dominated by cypress.		
Mosaic Burning	As this reserve has not experienced fire over an extended timeframe, a mosaic approach with post fire recovery and response assessments should be taken. Mosaic burning has two parts, spatial and temporal. Apply fire in a pattern across the reserve that allows gaps in time and space, small areas, scattered, variable times between fires in any location. If possible leave some areas of each vegetation community unburnt, as an end stage and reference site.		

