

Mann River Nature Reserve
Fire Management Strategy (Type 2)
2021 - 2026

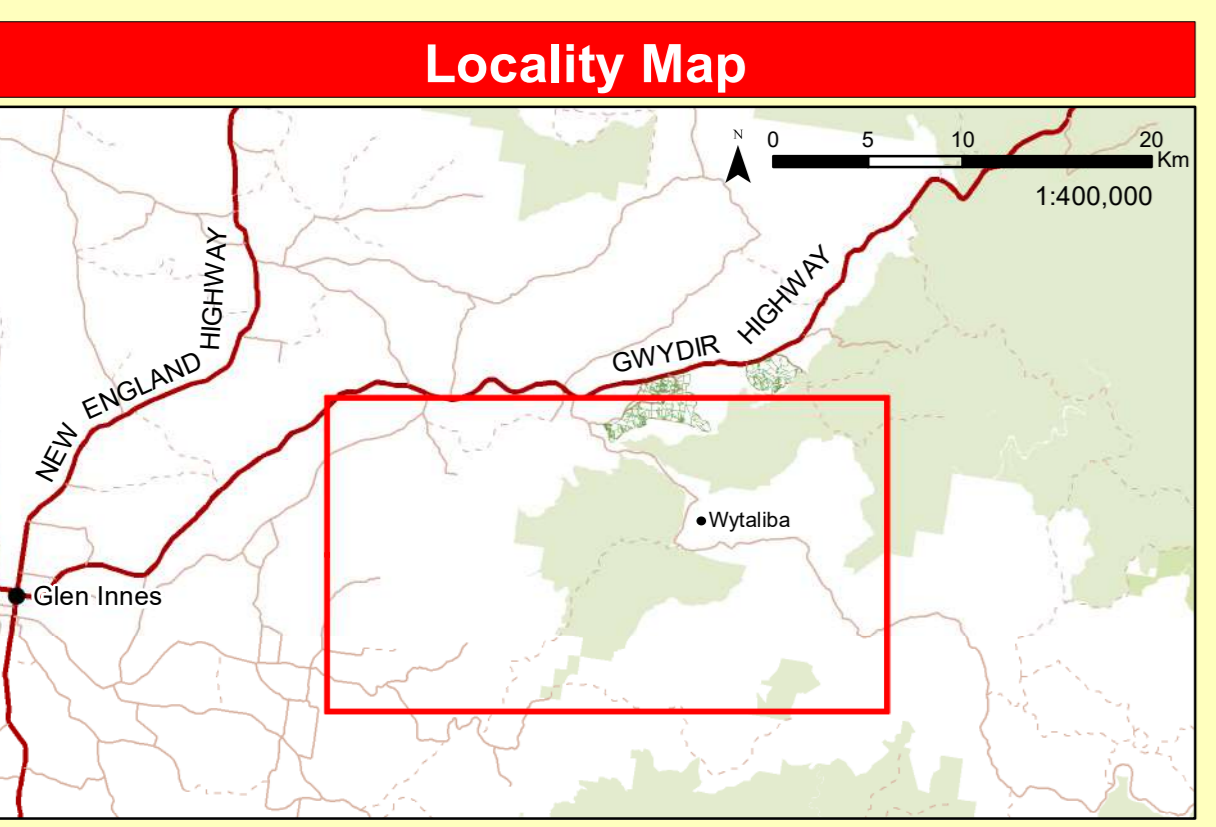
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This strategy is a relevant Plan under Section 38 (4) and Section 44 (3) of the Rural Fires Act 1997.



Map details

Datum: GDA_1984_MGA_Zone_56 Geographic Coordinate System: GCS_GDA_1984 NAD datum: True when printed on A4 size paper

Local Government Area: Glen Innes Shire Topographic Map: 1:50,000 Yellow Jacket 0338 43, Henry River 0338 3N

Contact Information

| Agency | Position / Location | Phone |
|--|--|--------------|
| National Parks & Wildlife Service | Area Manager, Darwin, NT | 0822 212 255 |
| | Duty Office (24 hour) | 0875 1742 |
| | Northern Tablelands Area Office (bus. hours) | 0739 0702 |
| NSW Rural Fire Service Northern Tablelands | NT Zone Manager, Chris Wallbridge | 0428 927 947 |
| | NT Duty Office | 0739 6811 |
| | NT Duty Office | 0739 6800 |
| | NT Duty Office | 0622 0111 |
| Forest Corporation of NSW | Grafton | 6640 2222 |
| | State Duty Office | 6660 6373 |
| Fire & Rescue NSW | Newcastle Comms. Centre | 4929 7177 |
| Emergency Services SES | Police, Fire, Ambulance | 000 |
| Police | Glen Innes | 0732 9799 |
| Council | Glen Innes Shire | 0732 2093 |
| Local Aboriginal Land Council | Glen Innes LALC | 0732 1150 |

Communications

| Service | Channel | Location and Comments |
|-----------------|-----------------------------|---|
| NPWS Repeaters | 334 | Summit Mountain |
| | 338 | North Table Group |
| | 634 | Fire ground |
| FG NSW | 196 (NPWS) | Fire ground |
| | 30MHz (radio) | NPWS holds 30MHz hand helds at Tenderfield and vehicle mounted at Armidale |
| RFS | N011 | Northern Tablelands Digital Voice |
| UHF, CB | | Small free channel 10, usage fees determined by MTF |
| Aviation - CTAF | 134.70 | NB frequency unless another frequency is allocated on an incident |
| Mobile | | The trig at Tommy's Rock lookout is the only possibility for mobile reception |
| Satellite Phone | 0147 165 975 / 0447 154 186 | Stored at Glen Innes |

Fire Season Information

Wildfires
The critical wildfire season occurs during September to November. This period may extend into January if the normally reliable summer rainfall does not materialise. Particular care is required during periods of negative Southern Oscillation Indices. The end of the critical fire season is often marked by wet storm activity.

Prescribed Burning
Fuel accumulation rates are generally high, and fire can carry through forest burn only several years previously. Prescribed burning is most effective in late winter and early spring when the combination of low rainfall and cured fuels from frosts means available fuel loads. Autumn burns are possible, but careful events in this period can result in fuel moisture contents remain too high for effective hazard reduction burning.

Operational Guidelines

Aerial Operations

- Aerial operations will be managed by trained and competent personnel. This includes directing aerial bombing and aerial ignition operations.
- The use of bombing aircraft without the support of ground-based suppression crews should be limited to very specific circumstances.
- All aerial ignition operations require the consent of a senior NPWS officer or the Section 44 Approver.

Backburning

- All personnel must be fully briefed before back burning operations begin.
- Backburning in areas of Low-Moderate CIVI requires the use of wind, or low humidity to maintain effectiveness.
- Where possible clear around dead and fibrous barked trees adjacent to control lines prior to backburning.

Command & Control

- The first combatant agency on site may assume control of the fire, but they must ensure the relevant land management agency is notified promptly.
- The initial Incident Controller will liaise with the RFS to ensure that the agency in command is determined and an Incident Controller is appointed.

Containment Lines

- New containment lines require the prior consent of a senior NPWS officer.
- Construction of new containment lines should be avoided, where practicable, except where they can be constructed with minimal environmental impact.
- All personnel involved in containment line construction should be briefed on, and must consider both cultural and heritage sites in the location.
- All containment lines not required for other purposes should be closed immediately at the cessation of the incident.

Earthmoving Equipment

- Plant may only be used with the prior consent of a senior NPWS Officer.
- Plant must always be guided and supervised by an experienced officer and accompanied by a support vehicle (NPWS) when engaged in direct or aerial attack. This vehicle must be a fire fighting vehicle.
- Plant must be washed down, where practicable, prior to entering NPWS estate and again on exiting NPWS estate.

Fire Suppression Chemicals

- The use of foam, wetting agents and retardants will NOT be permitted within 50 metres of dams and watercourses holding water.
- The aerial use of gels and retardants should be approved by a senior NPWS officer.
- The aerial use of gels requires the approval of a senior NPWS officer.

Rehabilitation

- Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.

Water Points

- Water points are limited and not always reliable. Consider deployment of a bulk water carrier to support fire operations.

Smoke Management

- Potential smoke impacts and mitigation tactics will be assessed during the planning of fire operations.

Visitor Management

- Visitor numbers in the reserve can be high with day use and overnight facilities available.
- In Extreme or Fire Danger at the Board Direction discretion, reserves or sections of the reserve may be closed or evacuated.
- The aerial use of gels and retardants should be approved by a senior NPWS officer.
- Ensure the closure is advertised on the NPWS visitor website.

WARNINGS

- The forests within Mann River Nature Reserve are capable of sustaining rapidly moving high intensity fires in rugged terrain with few access opportunities. There is a high risk of entrapment in these areas under severe or above fire danger ratings.
- Narrow Pass Trail has a gate that is sometimes locked and is very slow to traverse. Check the gate status with NPWS Glen Innes.
- The multiple occupancy 'Wyalaba' within Mann River NRT to the East.
- Circular Range National Park, Numbah NP & SCA, Back NP and Washpool NP & SCA are geographically interrelated if landscape scale fire events occur. In this circumstance fire planning needs to consider cross-pollination of fuels and fire retrogression in these reserves.
- Fire runs should be anticipated with winds from any direction.

Heritage Guidelines

Aboriginal Cultural Heritage

- IS 1 - As far as possible protect the site from fire. Do not cut down trees.
- IS 2 - As far as possible protect the site from fire. Avoid all ground disturbance and driving over them.
- IS 3 - Avoid all ground disturbance. Avoid water bombing. Site may be burnt by fire without damage.

Historic Sites

- As far as possible, protect the site from fire, and do not cut trees.
- Use of tools & equipment is acceptable.
- Exclude control line construction from sites. Consider a buffer zone of about 50 metres from the sites.
- ATMS databases must be checked as part of planning for fire operations.
- Mann River significant Aboriginal sites include:
 - There is an ancient of Narrow Pass Fire Trail with an open site. It is marked with green posts to indicate where to lift the logs on heavy sites.
 - Mann River NRT has no significant historic sites requiring special protection from fire.
- The protective actions for threatened flora and fauna have been incorporated into the Operational Guidelines.

Soil Erosion Management

The soils within the reserve are generally stable. Steep terrain is susceptible to erosion after disturbance. Fire trails used in fire operations should be drained as soon as possible after use.

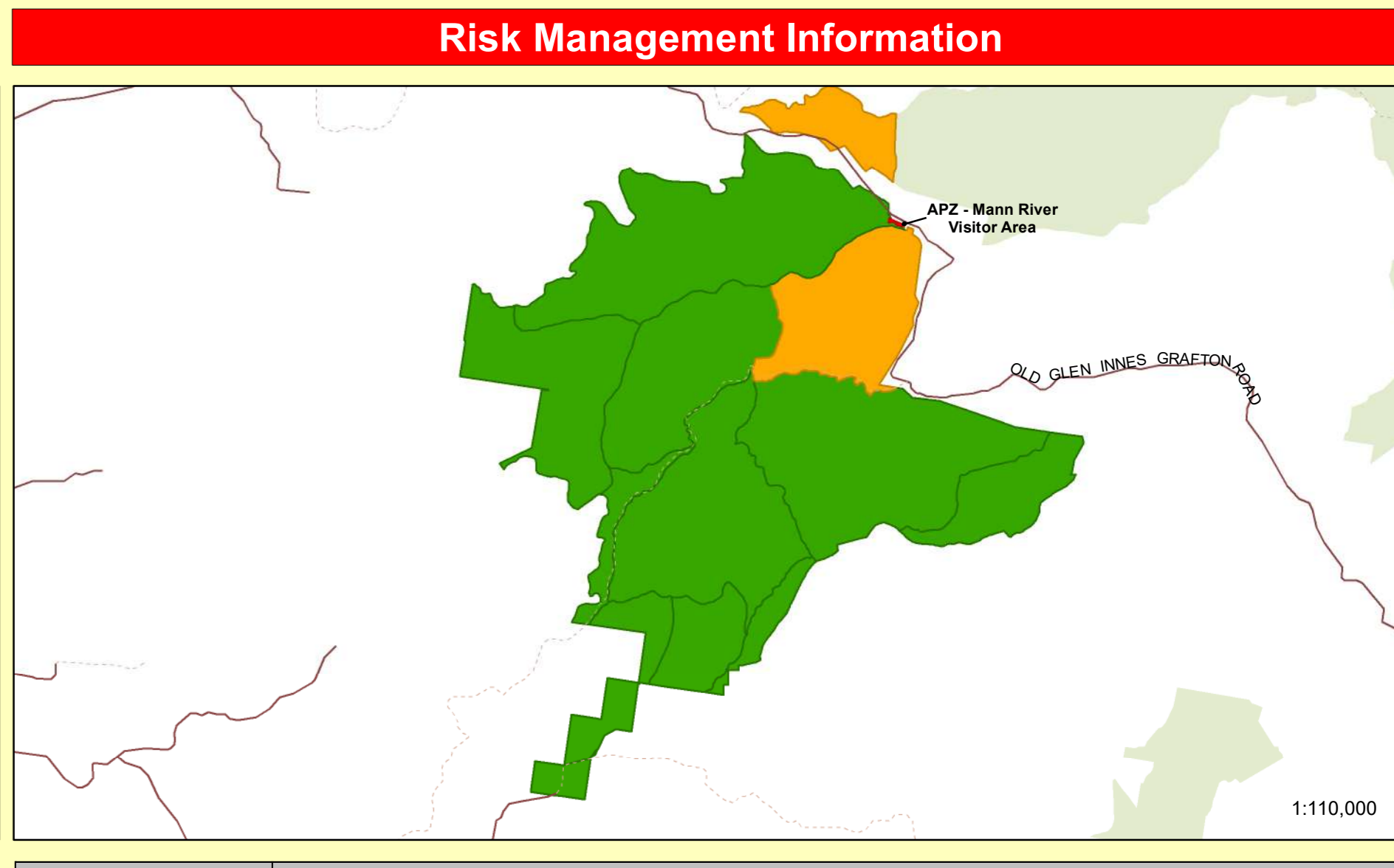
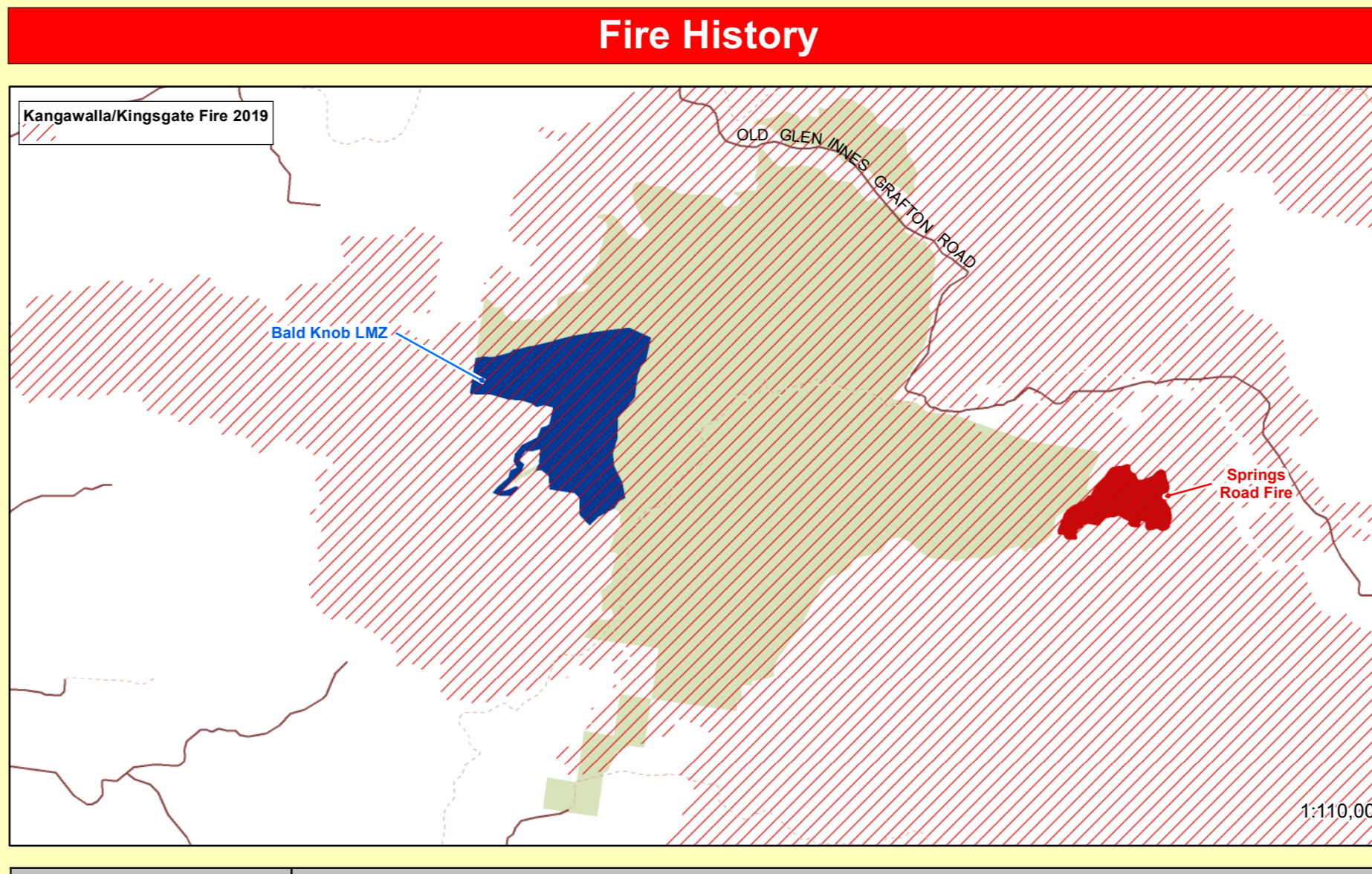
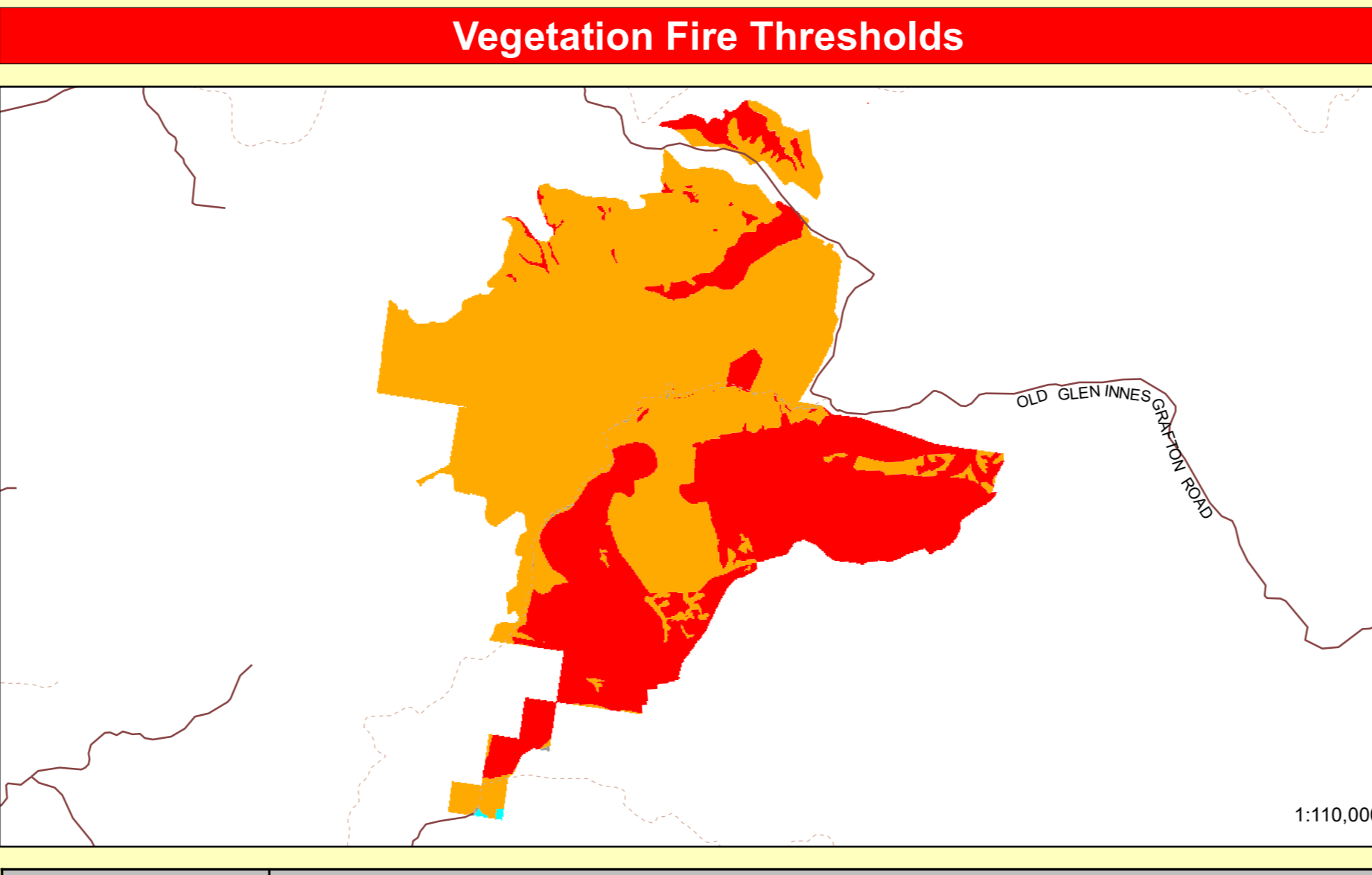
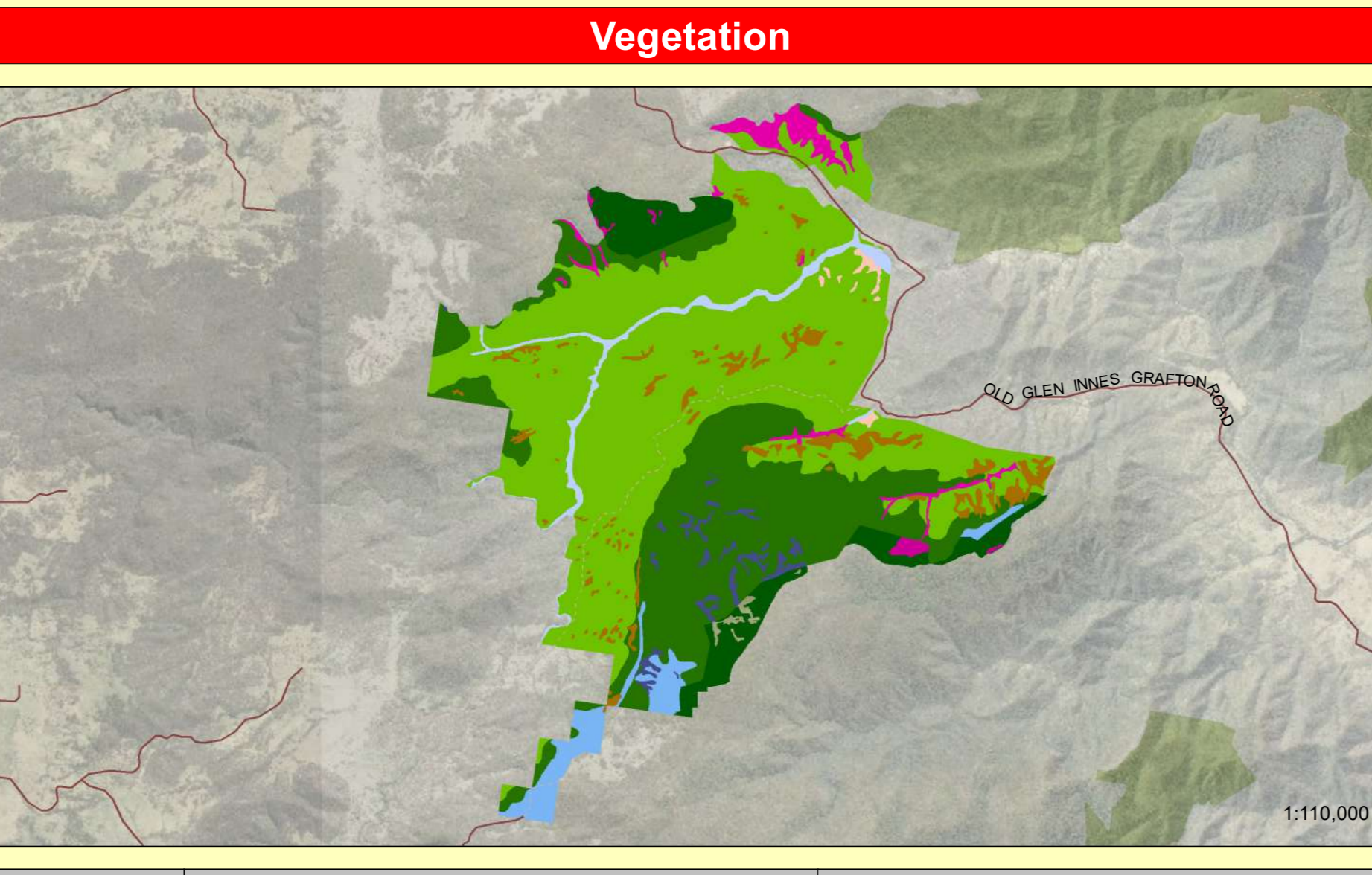
Suppression Strategies

Conditions

Guidelines

All vegetation types

- Consider a broad containment strategy using existing roads, allowing long-term management (maintenance for Goodwood) to be in place at night depending on weather conditions.
- Distance between the flank and machinery and the fire should be kept to a minimum.
- Secure and deep containment lines on the next possible downward side of the fire.
- May require aerial support to manage spot fires and monitor fire spread.
- Firefighter safety is the paramount consideration in operations.
- Undertake broad containment strategies using main fire trails and cleared country.
- Secure and deep containment lines on the next possible downward side of the fire.
- Consider parallel or direct attack and/or mop up of fire edge may be an option at night depending on conditions.
- Warning: Fire runs should be anticipated with winds from any direction. Entrapment risk is very high.



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Vegetation Threshold

| Vegetation Threshold | Treatment |
|-----------------------------|--|
| Too Frequently Burnt | Fire thresholds have been exceeded. Protect from fire as far as possible. |
| Vulnerable to Frequent Fire | The area will be Too Frequently Burnt if it burns this year. Protect from fire as far as possible. |
| Within Threshold | Fire history is within the threshold for vegetation in this area. A burn is neither required nor should one necessarily be avoided. |
| Long Unburnt | Fire frequency is below fire thresholds in the area. A prescribed burn may be advantageous. Consider allowing unplanned fires to burn. |
| Unknown | Insufficient data to determine fire threshold. |
| No Regime Assigned | Areas which do not have recommended fire intervals assigned to them eg. cleared land, rock. |

NB: Fire thresholds are defined for vegetation communities to conserve biodiversity.

| Fire Type | Fire Details |
|-----------------|--|
| Prescribed Burn | 2017-18: Bald Nob |
| Wildfire | 2019-20: The Glen Innes S44 complex of fires burnt the entire reserve with generally intense crown fire. West of Narrow Pass Fire Trail was subject extreme intensity from the Kangawalla Fire. East of Narrow Pass Fire Trail was high intensity from the Kingsgate Fire. 2014-15: Springs Road South. A very hot and high intensity fire. |

| Fire Management Zone | Treatment |
|--------------------------------|--|
| Asset Protection Zones | The objective of APZs is the protection of human life and property. This will have precedence over guidelines for the management of biodiversity. Maintain Overall Fuel Hazard at Moderate or below. |
| Strategic Fire Advantage Zones | The objective of SFAZs is to reduce fire intensity, in order to assist containment of wildfires, by maintaining the Overall Fuel Hazard at HIGH or below. |
| Land Management Zones | The objective of LMZs is to conserve biodiversity and protect cultural heritage. Manage fire consistent with fire thresholds. |