

**MAPS 1 & 2: FIRE HISTORY**

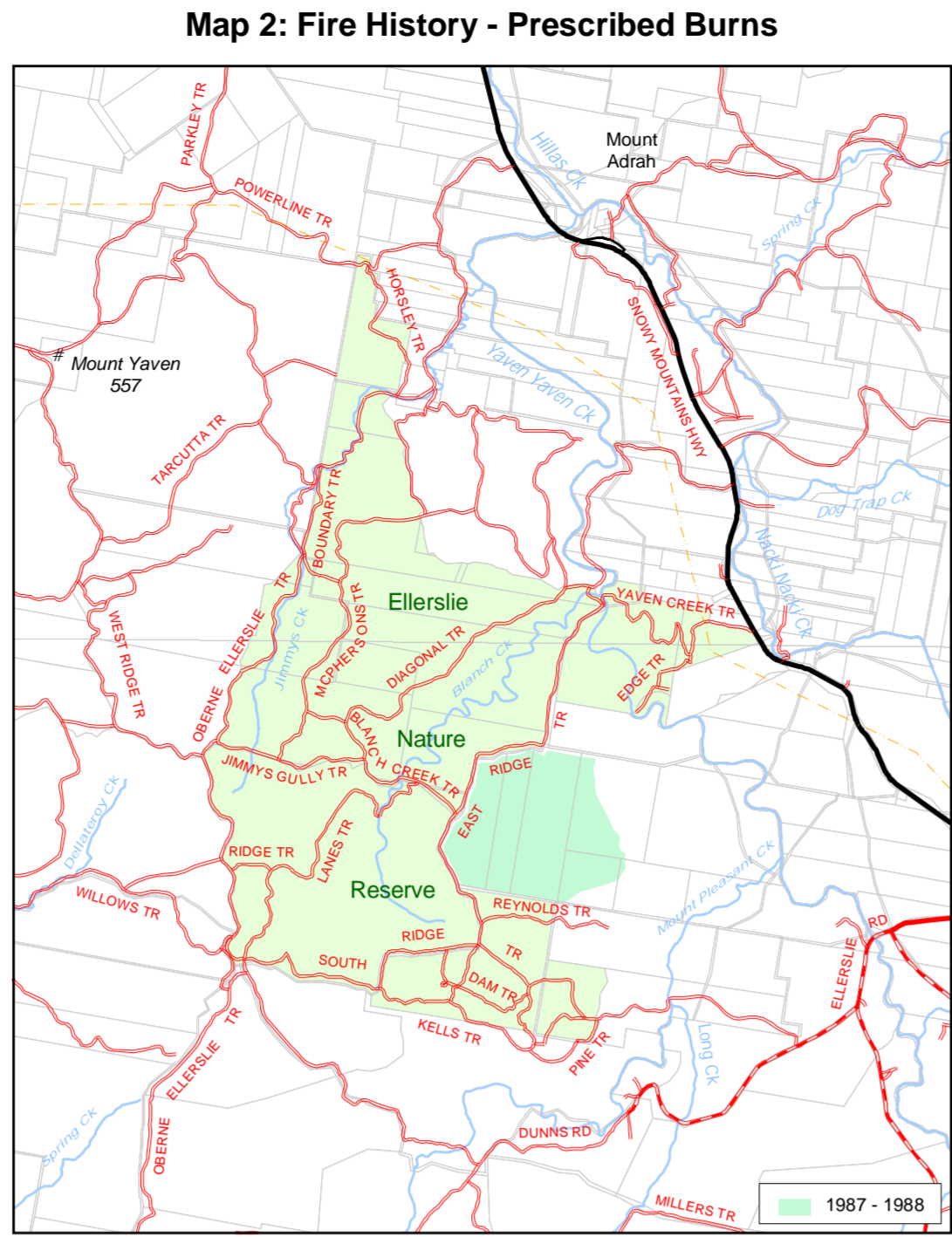
There has been 1 recorded ignition within the reserve since 2001 (see lightning), when the DEC took over the management of the land. Two lightning ignitions occurred during the same period, of reserve management. There is limited recorded data prior to 2001.

No prescribed burns have been implemented within the reserve by NSWDC since gazetted in 2001 as a Nature Reserve. There are no records of natural reductions applied during previous land management operations by NSWDC.

Trial maintenance and clearing have been applied and will continue as part of the reserve maintenance program.

Recorded within data is limited however the scars indicate previous fires have occurred within the reserve in the last 20-30 years. Only one fire has been documented to the north of the reserve since the year 2001. This is the control north of Pineside. Trail burning approximately 342 hectares of agricultural land and may have burnt 1.2 hectares of the reserve. Weather conditions are not suitable. This information will be valuable to improve NSWDC knowledge of the landscape and assist management planning and strategy development.

The presence of fire scars is evidence that most vegetation communities within the reserve burnt in the last 20-30 years. Further investigation regarding the species is required to establish appropriate species for the reserve and the extent of the impact. The frequency and interval between fires has important implications relevant to biodiversity and native NPWS management of the reserve.



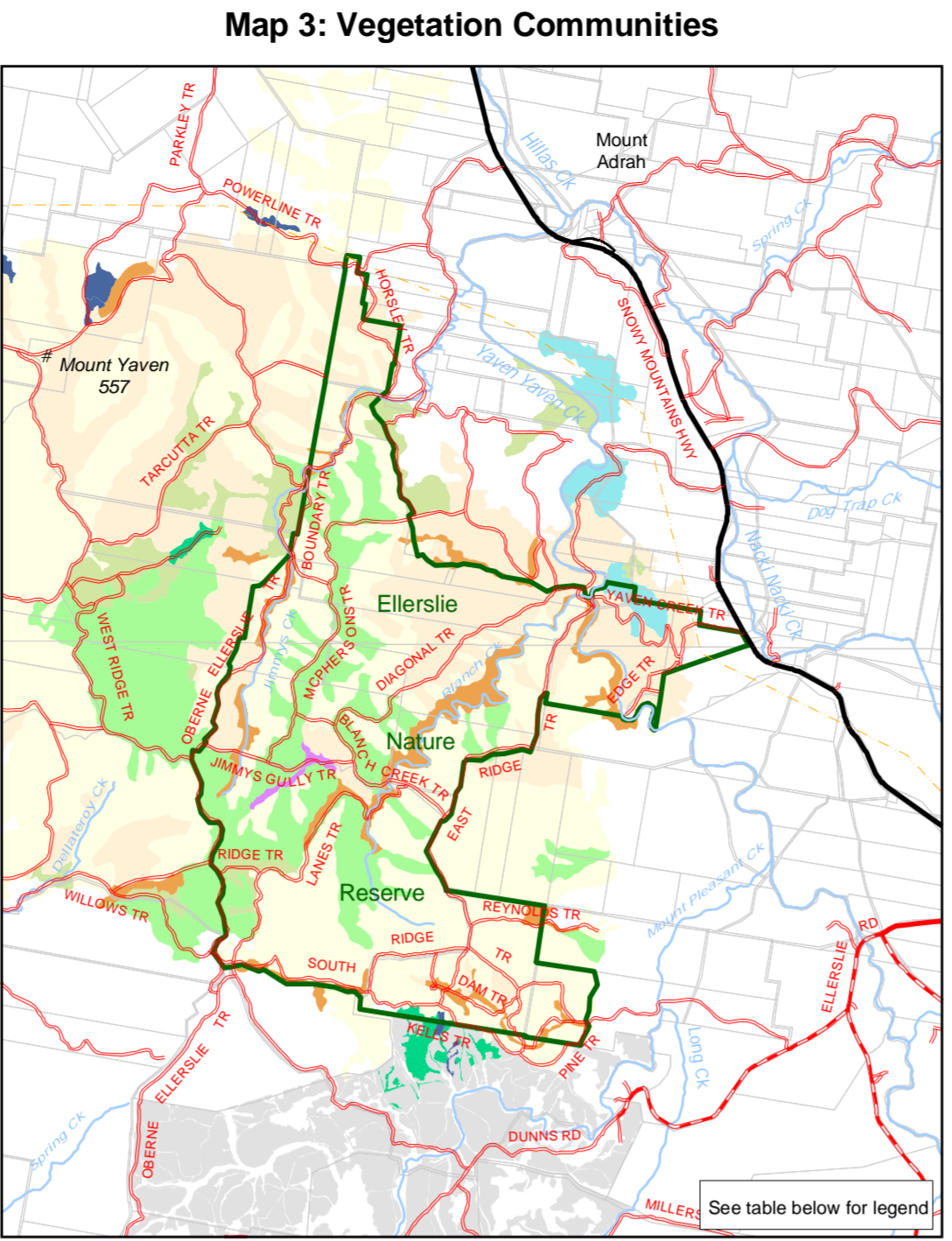
**MAP 7: SIGNIFICANT FLORA**

Fire Group	Common Name	Scientific Name	Status
A	White box alliance woodland	<i>Casuarina obesa</i>	Rare

**Threatened Flora Management Guidelines & Considerations**

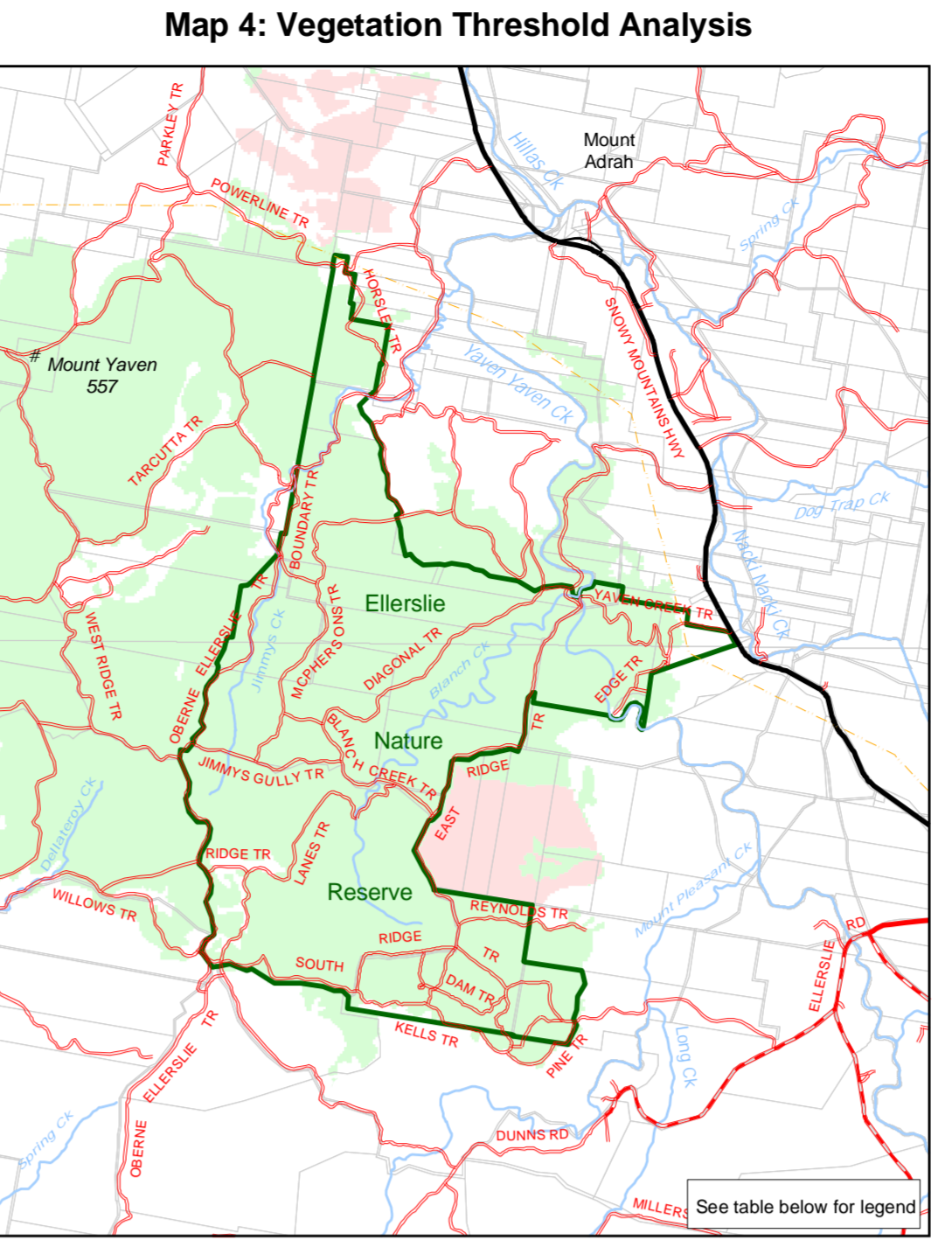
This vegetation community is found across the reserve. However a significant representative community is located in the south east corner of the reserve. It is worth considering when planning prescribed burns or suppression activities during wildfire incidents and is represented within the HAZ. This management plan:

- Present trial or containment fire construction within the vegetation group, to prevent fragmentation.
- Keep fire in small areas within this community.
- Protect mature age, large and hollow bearing trees, especially during 'top up' activities.
- Residuals and stems may be used in this area.
- Maintain the area as a mix of bushland and manage within the vegetation group guidelines.
- Prescribed fire should only be implemented where appropriate for ecological values.



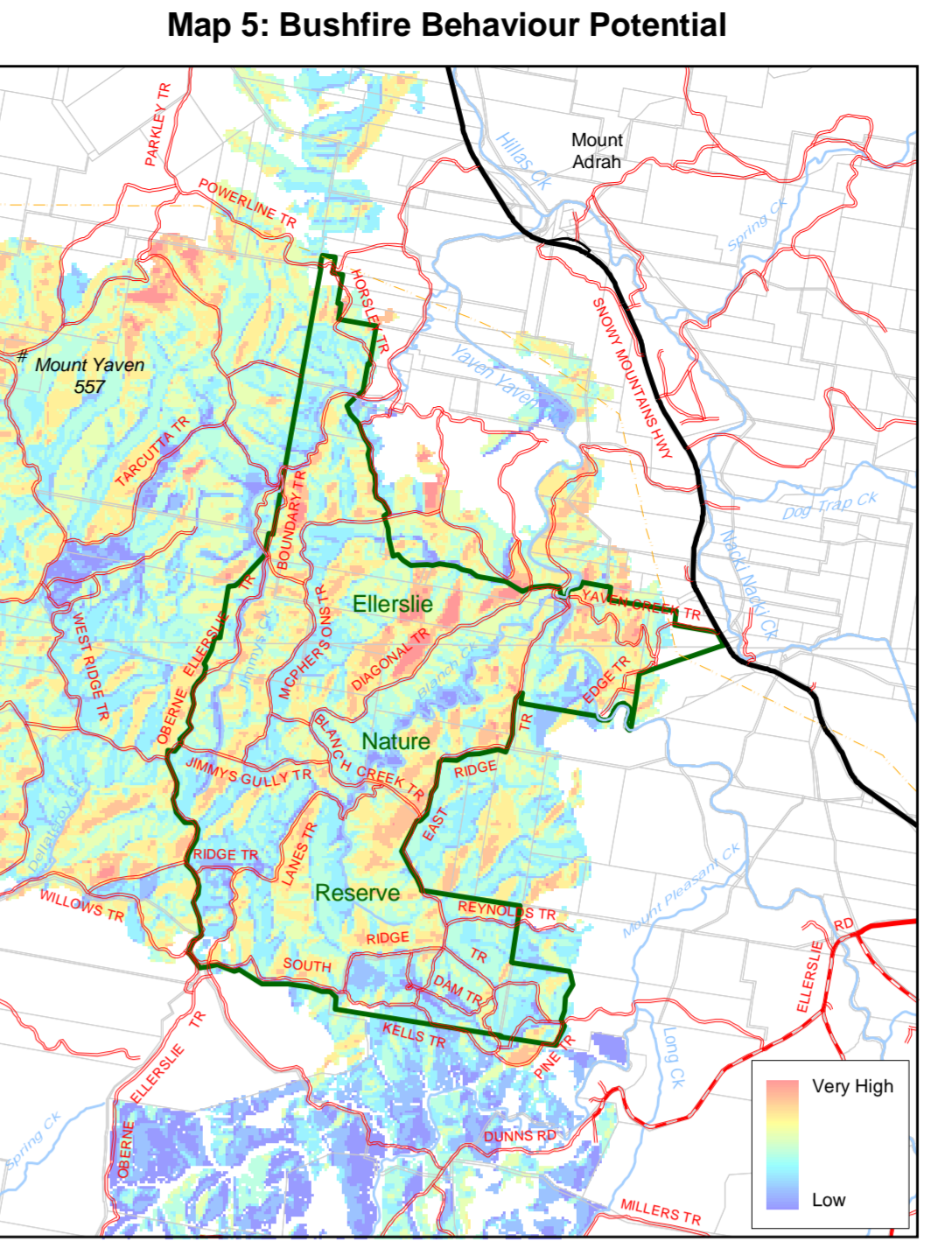
**MAP 3: VEGETATION COMMUNITIES & THRESHOLDS**

Vegetation Group	Vegetation Description	HAZ %	% Cover
12	Apple Box - Moist Sedge/Casuarina Forest	19.4	7
25	Narrow Leaf Box - Grey Box Forest	9.4	1
26	White Box & Balalyk Red Gum - Herb/Grass Woodland	3.8	0.7
30	Red Gum/Red Ironbark & Scribbly Gum - Dry Sedge/Grass Woodland	27.5	20
32	Red Box & Long Leaved Box - Grey Box Forest	39.3	21
45	Red Stringybark/Scribbly Gum & Rough barked Red Box - Dry Top/Grass/Casuarina Open Forest	15.6	11
173, 174, 179	Degraded Forest	2.7	1
198	Natural Vegetation - Partly Cleared	20.1	2
No Data	No Data	0	0
No Data	No Data	25.9	2



**MAP 4: VEGETATION THRESHOLD ANALYSIS**

Threshold	Vegetation Group	% of Reserves	Interpretation & Management Guidelines
Overburnt	NA	0	According to the vegetation group thresholds, two consecutive fires have been recorded to occur together and the area is Overburnt. Fire should be avoided. Avoid fire in this area, as additional fire is likely to adversely affect the reserve.
Vulnerable	NA	0	This community will be Overburnt if the area burns again. Fire should be avoided.
Recently burnt	NA	0	Time since fire is less than the threshold interval, but before 2013 may pose some vegetation communities into the Vulnerable class. Fire should be avoided until vegetation communities such as mature trees. Planned fire may be introduced for prescribed burning for asset or strategic protection purposes. Unplanned fire events may be allowed to burn if - conditions are suitable. - the intensity meets vegetation, flora and fauna community requirements. - <50% of any vegetation community in the reserve is closed as Ok, Almost Underburnt or Underburnt.
Underburnt	NA	0	May require fire after 2016 for Asset protection, strategic or biodiversity reasons. Planned fire may be introduced for prescribed burning for asset or strategic protection purposes. Unplanned fire events may be allowed to burn if - conditions are suitable. - the intensity meets vegetation, flora and fauna community requirements. - <50% of any vegetation community in the reserve is closed as Ok, Almost Underburnt or Underburnt.
Almost Underburnt	NA	0	Planned fire may be introduced for prescribed burning for asset or strategic protection purposes. Unplanned fire events may be allowed to burn if - conditions are suitable. - the intensity meets vegetation, flora and fauna community requirements. - <50% of any vegetation community in the reserve is closed as Ok, Almost Underburnt or Underburnt.
OK	12, 25, 26, 30, 32, 45, 198	98	Fire is neither required or to be avoided in areas identified as OK, Almost Underburnt or Underburnt. Prescribed fire should only be implemented in areas identified as APZ's, SWAZ or applied for ecological purposes. The fire history is to be used to determine whether it is underburnt or over burnt. If the area does not have a threshold applied to them there is missing data. Limiting the threshold application to DEC CS.
Unknown No Reserve Assigned	173, 174, 179	2	This history is to be used to determine whether it is underburnt or over burnt. If the area does not have a threshold applied to them there is missing data. Limiting the threshold application to DEC CS.



**MAP 5: BUSHFIRE BEHAVIOUR POTENTIAL**

Rating	Vegetation Type	Reserve Hectares	% of Reserve
Low	Apple Box - Moist Sedge/Casuarina Forest Natural Vegetation - Partly Cleared The Planation (2-5 years of age)	170	10
Medium	Narrow Leaf Box - Grey Box Forest Red Gum/Red Ironbark & Scribbly Gum - Dry Sedge/Grass Woodland White Box & Balalyk Red Gum - Herb/Grass Woodland Degraded Forest The Planation (5-10 years of age)	1264.6	48
High	White Box & Balalyk Red Gum - Herb/Grass Woodland Red Box & Long Leaved Box - Grey Box Forest The Planation (10-15 years of age)	409	22
Very High	The Planation (15-15 years of age)	0	0
Extreme	The Planation (15-15 years of age)	0	0

**South West Slopes Region  
Ellerslie  
Nature Reserve  
Fire Management Strategy  
2006**

Scale: Works Program map 1:50,000, Location map 1:800,000, other maps 1:70,000  
Version: June 2006 ISBN: 1 74137 278 X DEC: 2005/104

This Map should be used in conjunction with air photos and ground reconnaissance during incidents and the development of incident action plans.

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**RESOURCE INFORMATION**

(Elliott Nature Reserve (1278 ha) gazetted on 11 February 2001. Some gazetted land has been purchased, adding approximately 400 hectares to Ellerslie Nature Reserve. The additional purchases provide direct access from the Snowy Mountains Highway and provide additional recreational opportunities within the region. For the purposes of this Fire Management Strategy, Ellerslie Nature Reserve (1877 ha) will be referred to as the 'Reserve', unless otherwise stated.

The reserve covers an area of steep terrain 25 km west of Tambo, New South Wales, where the highest point is 63 MAS. The vegetation is dominated by *Casuarina obesa* woodland of *Callitris viminalis* also present.

The reserve is adjacent to numerous threatened country of Crown and private land to the west and agricultural lands and rural plantations to the east. The reserve is an important habitat and breeding ground for many threatened species of birds, including the cockatiel, brown creeper, self-hung, kangaroo parrot and black-chinned honey eater. Team Creek provides running water in the western side of the reserve. There are several small bodies of water, several during prolonged droughts.

Department of Environment and Conservation	Parks and Wildlife Division, National Parks and Wildlife Service, South West Slopes Region, Murrumbidgee Area	Government Areas	Home Federal Electorate, Burragubi State Electorate, Murrumbidgee Catchment Management Authority
Rural Fire Service	Riverina Highlands Zone (Bush Fire Management Committee)	Other Agencies	Wingahat Tambo Aboriginal Land Council & Murrumbidgee Catchment Management Authority

**IMPORTANT:** The following planning information is based on the best possible options for each table category. When used in conjunction with other information in the plan, concessions may be needed where asset management and biodiversity requirements differ.

**MAP 7: THREATENED FAUNA**

Fire Group	Common Name	Scientific Name	TSC Schedule	Most Vulnerable Period
A	Sandstone shrike	<i>Ptilinopus sandstonei</i>	V	Jun-Dec
A	Common bent-winged bat	<i>Miniopterus schreibersii</i>	V	Feb-Apr
B	Brown honeyeater	<i>Myzopetes olivaceus</i>	V	May-Dec
C	Black-chinned honeyeater (endemism subsp.)	<i>Myzopetes olivaceus palmeri</i>	V	Jul-Dec
C	Turquoise parrot	<i>Myzopetes olivaceus</i>	V	Aug-Dec

**MAP 6: LANDSCAPE THRESHOLDS**

Stage Class	Fire Fuel	Erosion - Threshold & Impacts
0-10	3-5	Less potential on these slopes, depending on current condition. Fine fuels <4 t/ha are favourable.
10-15	4-7	Increased erosion risk and wash-outs above fuels below 1 t/ha.
15-20	10-12	Increased erosion risk through mid-slopes and drainage lines where fuels <10 t/ha.
20-25	12-14	Increased erosion risk through mid-slopes and drainage lines where fuels <12 t/ha.
25-30	14-18	Large scale soil loss reported in degraded areas. Impacts may be severe in areas eroding in to water courses where fuels <15 t/ha. The impact slope is highly erodible.
>30	>20	High risk on slopes >30° are in the park. Soil loss can be minimised where the fuels are <16 t/ha and vegetation remains established.

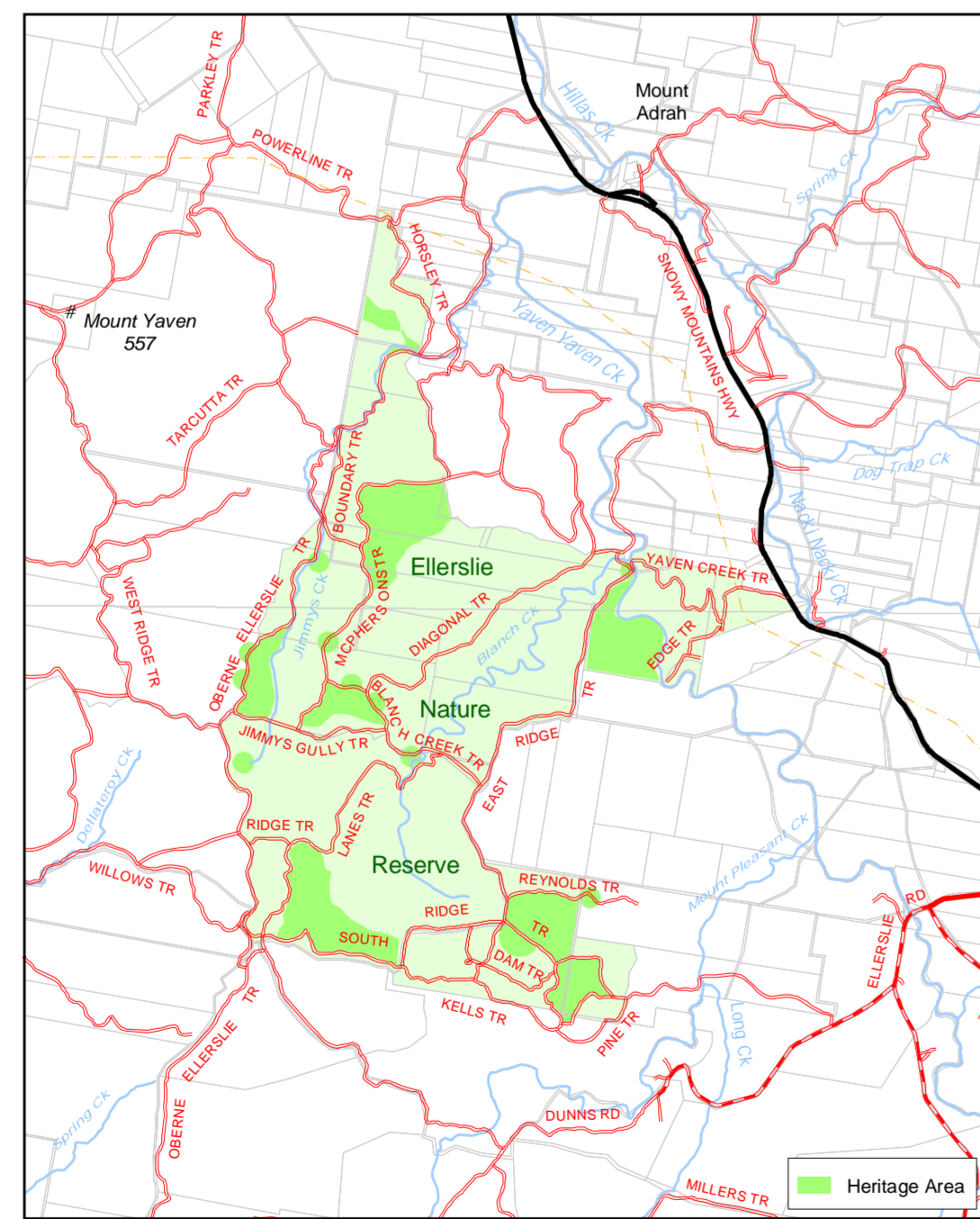
**Threshold Impacts**

- Currently, 55% of the park has potentially unstable soil (1036 ha).
- Where quality may be compromised the risk of erosion and soil loss after fire and may have significant impacts on amphibians or other organisms in drainage lines.
- Fast erosion may reduce potential habitat loss to soils during summer periods.
- Fuel decomposition after fire may decrease the potential for erosion. The presence of stems and litter within the soil may also affect soil and erosion vegetation activity.
- Areas with steep slopes have the fuels for the corresponding slope class are expected to have increased slope stability and poorer water quality.

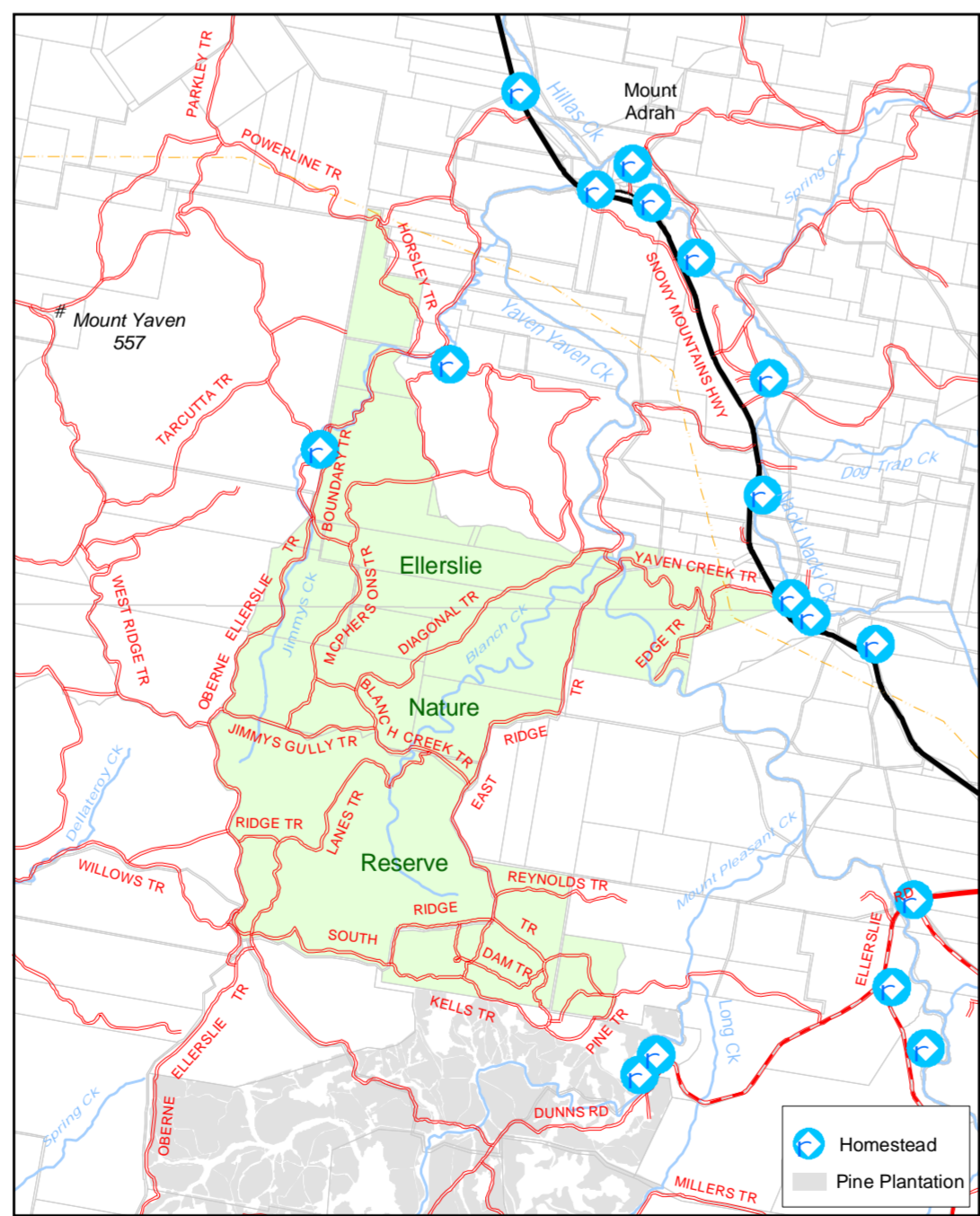
**Fire Management Guidelines**

- Where possible:
  - Project areas from frequent and/or high intensity fires within the fuel class thresholds.
  - Assess need to control fire construction on slopes >15 degrees.
  - Fire construction should be strategically implemented across the landscape so that large areas and slopes are not left open.
  - Assess prescribed burning during years of extreme drought and the year preceding a severe drought.
  - Control fires on fuel breaks constructed during an incident should provide adequate drainage to prevent trail erosion.
  - Re-establishment of control lines or fuel breaks constructed during the events will be addressed during the incident's Incident Action Plan.

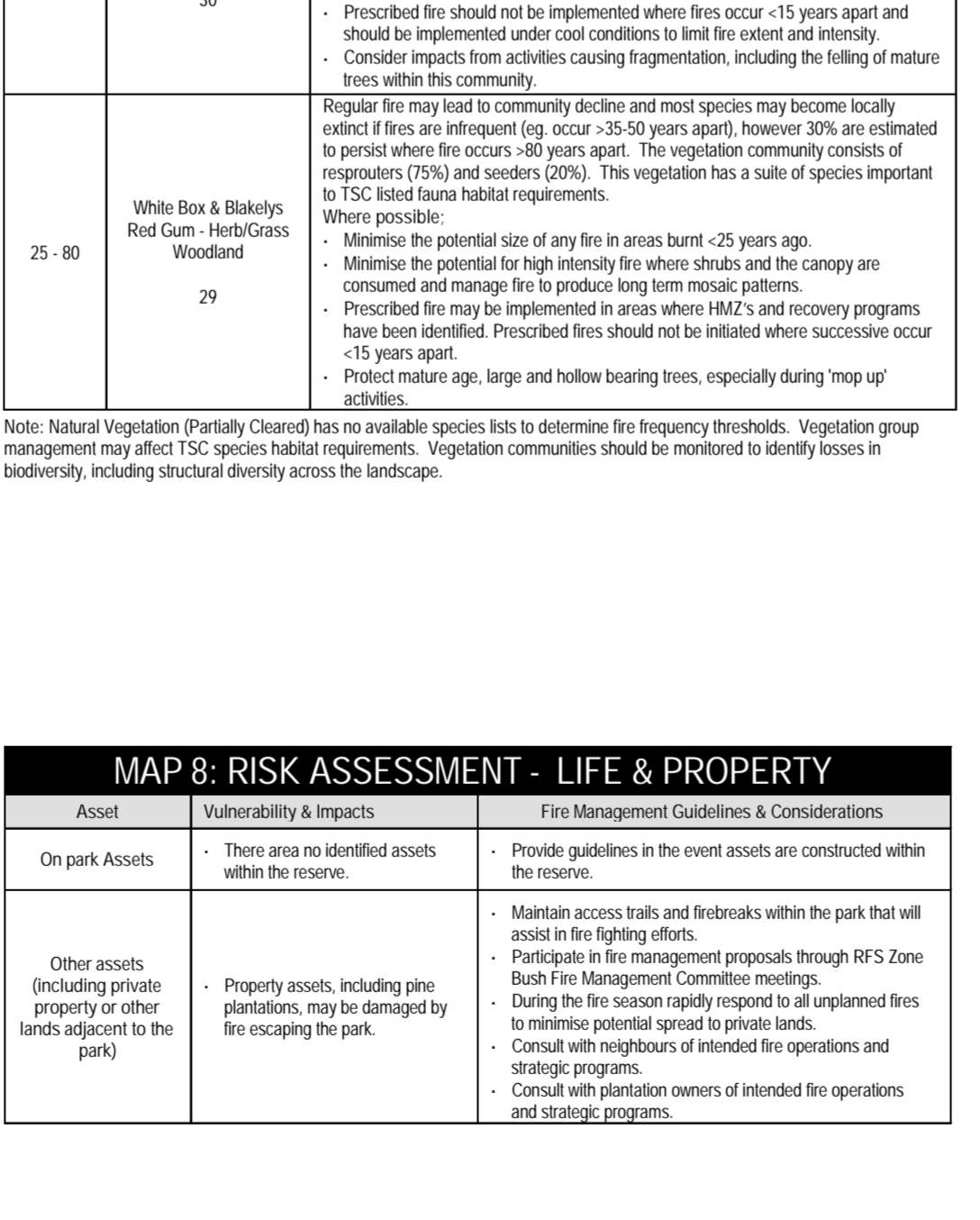
**Map 6: Landscape Thresholds**



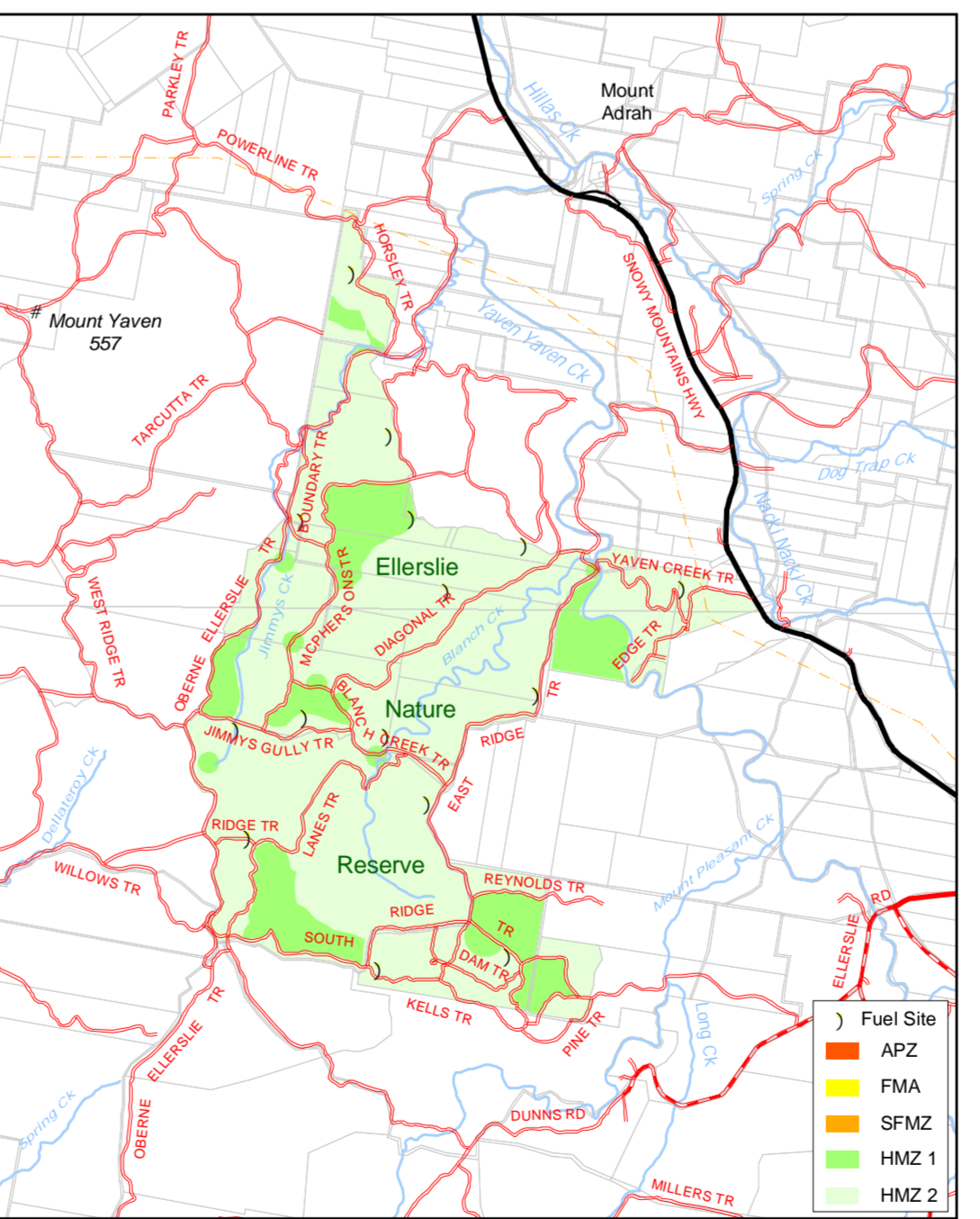
**Map 7: Risk Assessment - Cultural & Natural**



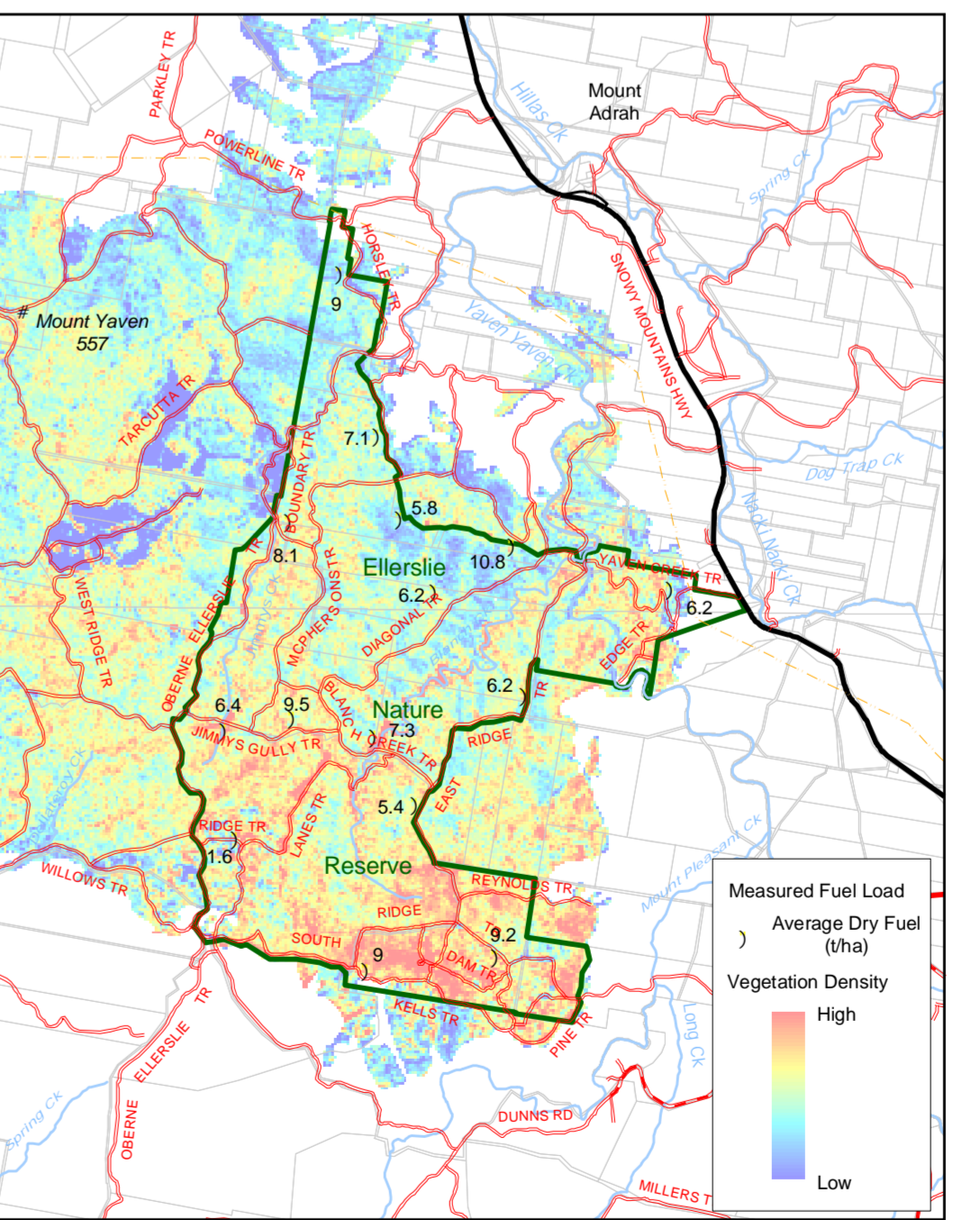
**Map 8: Risk Assessment - Property**



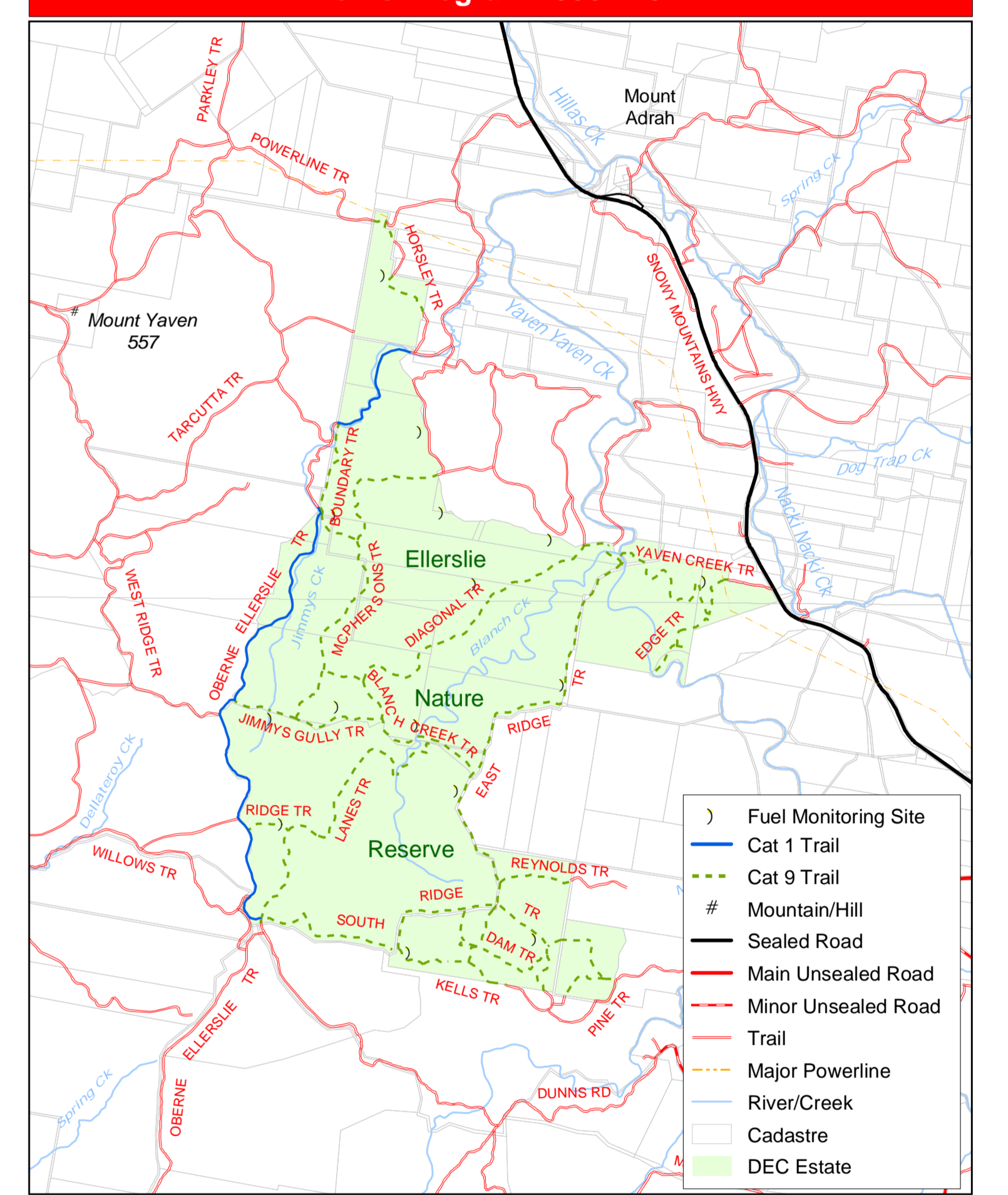
**Map 9: Bushfire Management Zones**



**Map 10: Fuel Landscapes**



**Works Program 2006 - 2011**



**WORKS PROGRAM**

Asset	Priority	Name, Area or Detail	Management Strategy	Proposed Works
Trails	High	Management Trails	Maintain Open & Ellerslie Trail to a Category 1 vehicle standard. Maintain other management trails for safe 4WD access for Category vehicles. All trails to be clearly signposted strategically at intersections and junctions.	Assess every 5 years. Implement maintenance programs and works as required or as specified in Registered Operations Booklets.
Trails	Low	Closed or Dormant Trails	Monitor regeneration on dormant and closed trails. Closed or Dormant trails may be re-opened during and incident if necessary.	Assess every 5 years and register trail condition.
Strategic HAZ	High	Strategic Fuel Management Zones, where they have been identified	Work with neighbours and local RFS to ensure appropriate access and fire breaks adjacent to the reserve are maintained to appropriate standards and ensure fuel loads. Monitor vegetation and fuels within the zones.	Assess every 5 years. Implement programs in zones above minimum standards based on BCC guidelines. Inspected through the Bush Fire Management Committee.
Heritage MZ 1	Medium	Cultural heritage, threatened, vulnerable & endangered species, habitats, communities and the landscape.	Manage and protect natural & cultural heritage values and the landscape.	Assess thresholds every 5 years, better works programs or directly after fire events.
Heritage MZ 2	Low	General landscape, natural and cultural conservation values.	Fuel and vegetation monitoring. Manage and protect natural & cultural values with appropriate management strategies.	Monitor thresholds every 5 years, 200 after fire events. Monitor before 2006 for season or immediately after fire events. Monitor any land disturbances.
Information & Research	Medium	Fuel and vegetation monitoring.	Monitor vegetation and fuels within the zones.	Monitor thresholds every 5 years, 200 after fire events.
Fuel Management & Prescribed Burns	Low	Prescribed burns should only be managed in accordance with DEC policy, within the HAZ and SWAZ, where they are consistent with the Local Bush Fire Management Committee.	Any approved prescribed burns must be managed in accordance with DEC policy, within the HAZ and SWAZ, where they are consistent with the Local Bush Fire Management Committee.	Negotiate approved works programs through the Bushfire Management Committee.