3.2.2 Targeted fauna survey results

Ten threatened fauna species have been recorded within or adjacent to the dangerous trees (Figure 3.3):

- seven threatened bird species:
 - Diamond Firetail (ecosystem credit species);
 - Dusky Woodswallow (ecosystem credit species);
 - Flame Robin (ecosystem credit species);
 - Gang-gang Cockatoo;
 - Masked Owl;
 - Olive Whistler (ecosystem credit species);
 - Scarlet Robin (ecosystem credit species);
- two threatened mammal species:
 - Eastern Pygmy-possum;
 - Smoky Mouse; and
- one threatened amphibian species:
 - Booroolong Frog.

i Diurnal birds

One target species, the Gang-gang Cockatoo, was recorded foraging within adjacent vegetation to the dangerous trees. The species was not recorded breeding or observing hollows within any dangerous trees identified for removal. Therefore, considering the species was recorded as an ecosystem credit species, no species polygon was developed for the Gang-gang Cockatoo.

ii Nocturnal birds

One target species, the Masked Owl, was recorded within vegetation adjacent to the dangerous trees. This record was from the species being "called in" as a result of call playback. However, no nesting birds were identified during targeted surveys. Therefore, considering the species was only recorded as an ecosystem credit species, no species polygon was developed for the Masked Owl.

iii Arboreal mammals

No threatened arboreal mammals were recorded during targeted surveys.

Although there is some potential for these species to occur in low densities and/or utilise the dangerous trees on occasion, these species are not considered present for the purposes of this assessment. The Koala is rare in the KNP and was not observed during targeted surveys; therefore, it is considered unlikely to occur for the purposes of this assessment.



KEY

····· Vehicular track

- ---- Watercourse/drainage line
- Dangerous trees

Threatened fauna

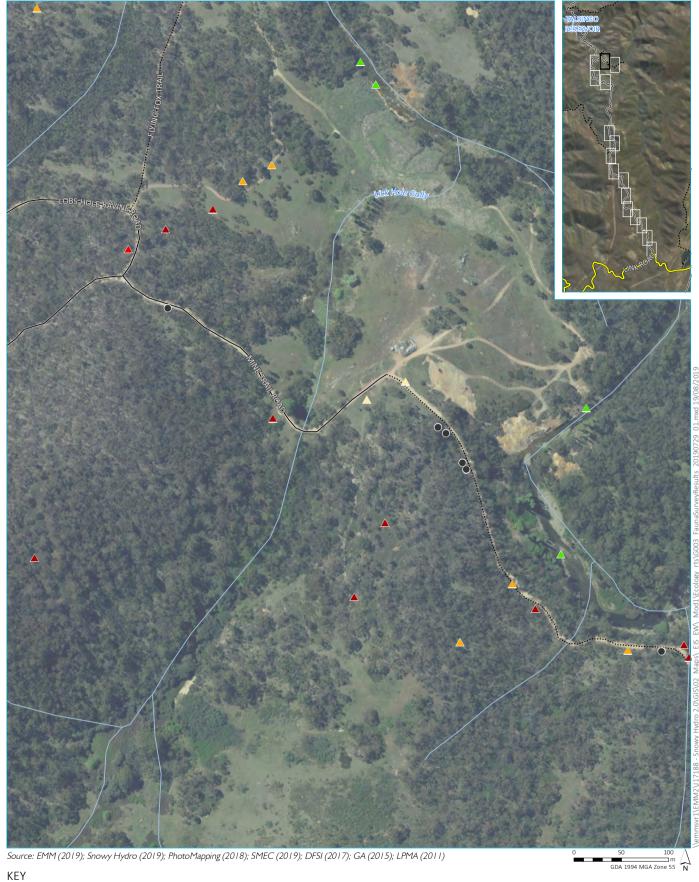
- ▲ Booroolong Frog
- Dusky WoodswallowGang-gang Cockatoo

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 a







— Local road

▲ Gang-gang Cockatoo

Fauna survey results

····· Vehicular track

— Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Booroolong Frog

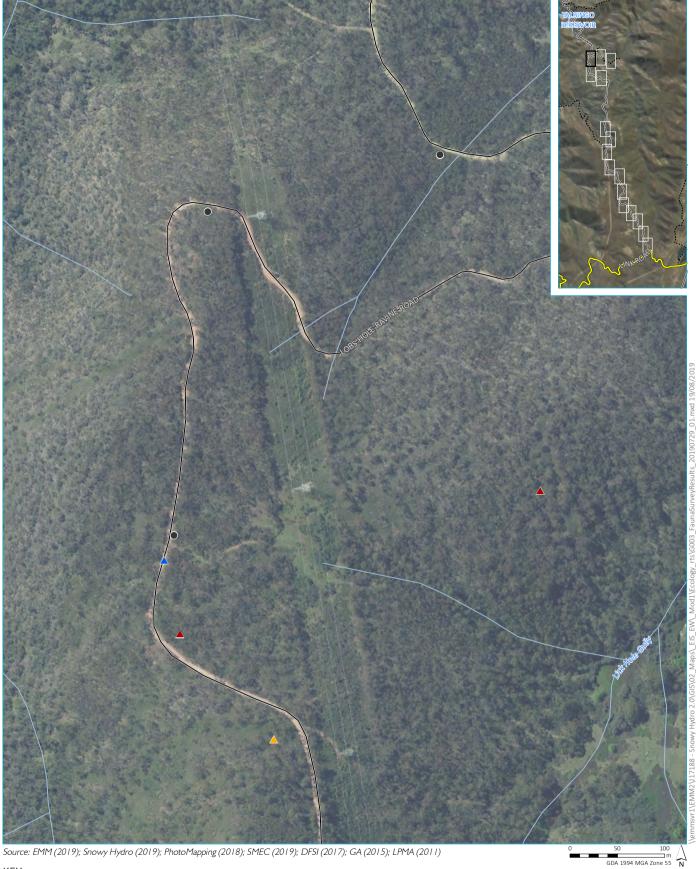
△ Diamond Firetail△ Dusky Woodswallow

▲ Flame Robin

snowy_{2.0}



Snowy 2.0 Ecology RTS Modification 1 3.3 b



KEY

— Local road

····· Vehicular track

---- Watercourse/drainage line

Dangerous trees

Threatened fauna

Dusky Woodswallow

▲ Flame Robin

▲ Gang-gang Cockatoo

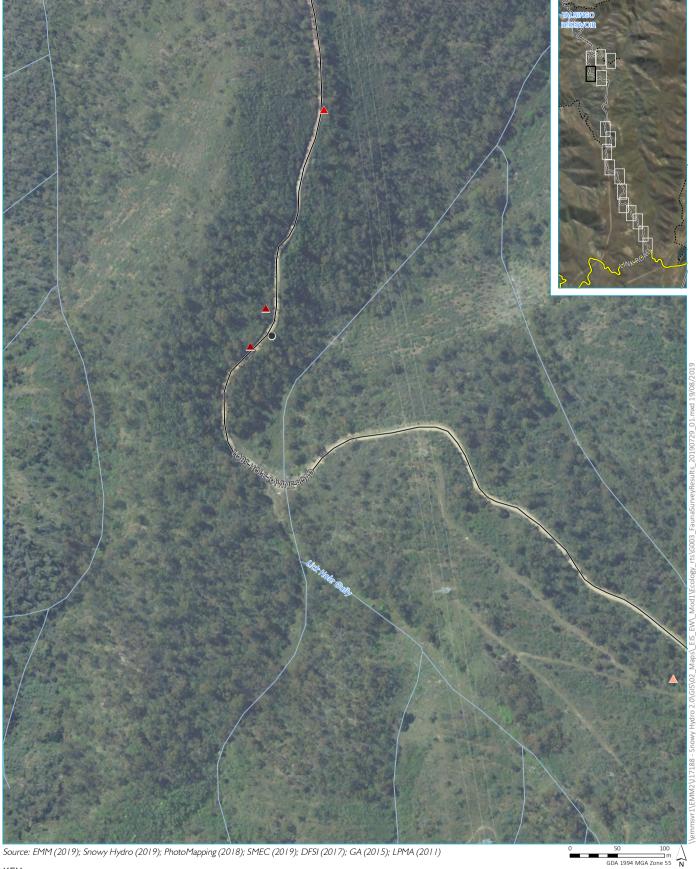
▲ Scarlet Robin

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 c







KEY

____ Local road

---- Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Eastern Pygmy-possum

▲ Flame Robin

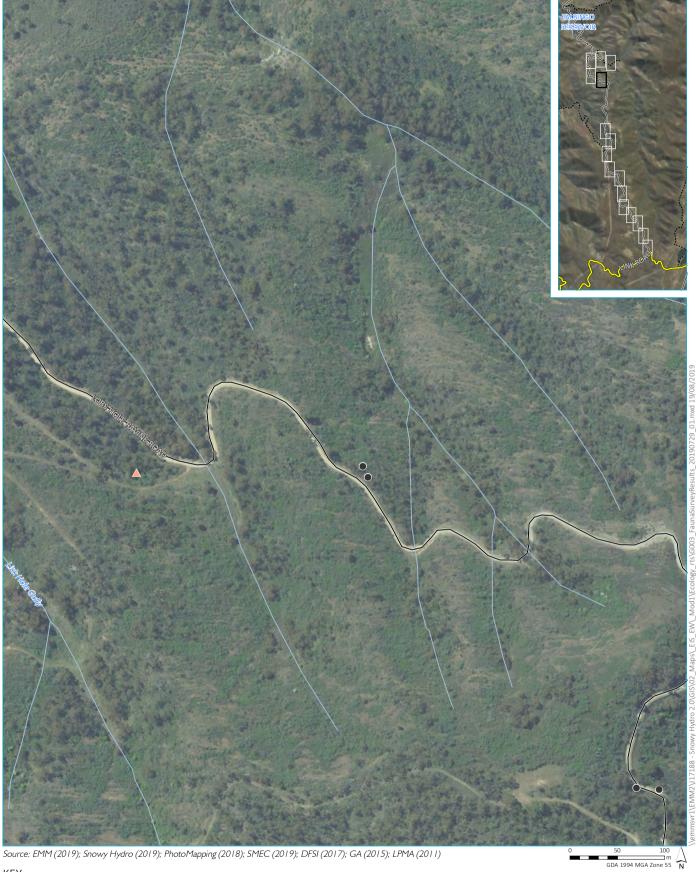
▲ Gang-gang Cockatoo

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 d







— Local road

---- Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Eastern Pygmy-possum

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 e







- Local road

Watercourse/drainage line

Dangerous trees

Threatened fauna

Dusky Woodswallow

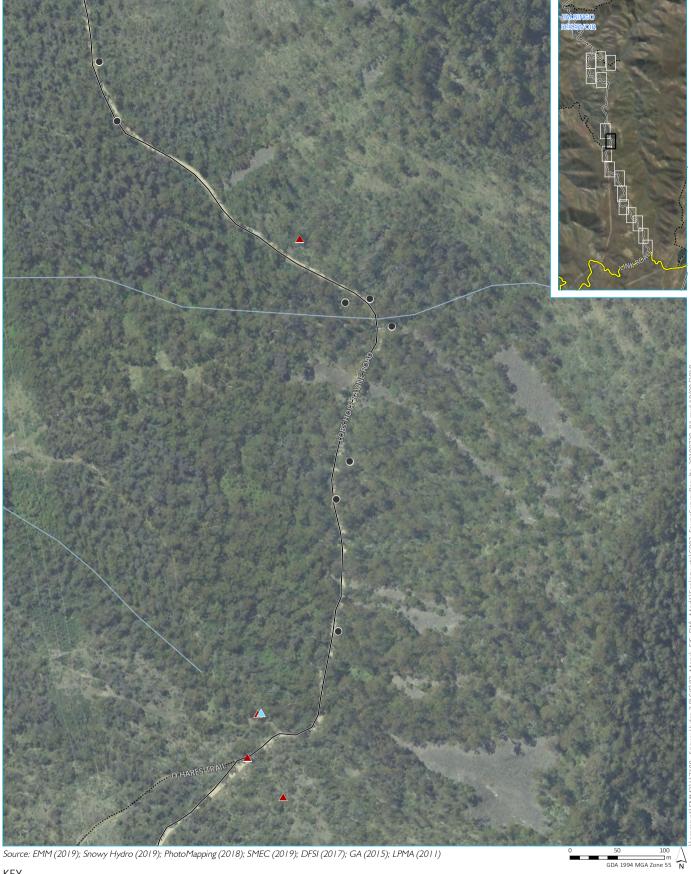
▲ Gang-gang Cockatoo

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 f







– Local road

····· Vehicular track

Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Gang-gang Cockatoo

Smoky Mouse

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 g







KEY

— Local road

····· Vehicular track

— Watercourse/drainage line

Dangerous trees

Threatened fauna

Dusky Woodswallow

▲ Eastern Pygmy-possum▲ Gang-gang Cockatoo

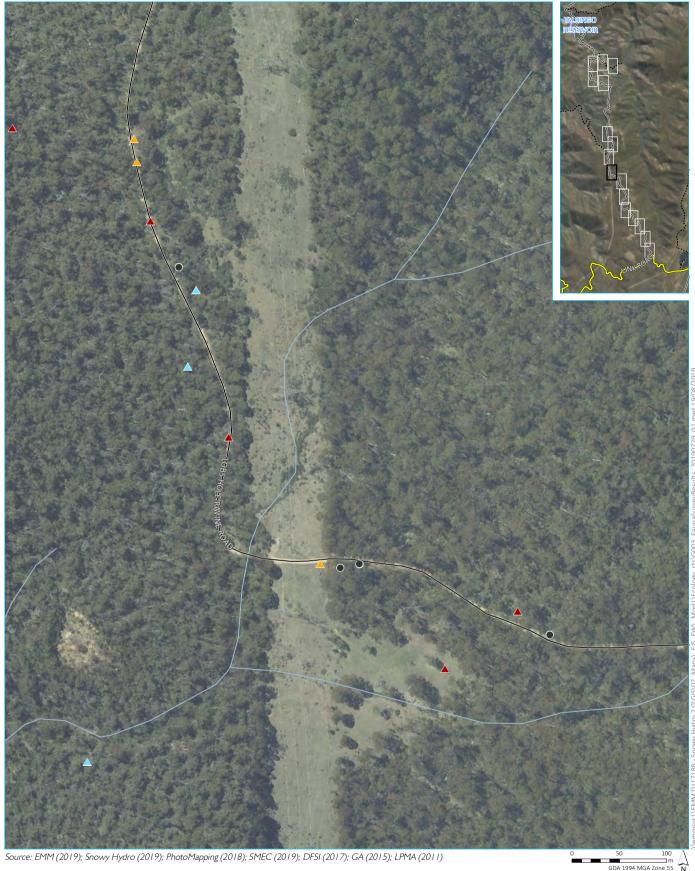
Smoky Mouse

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 h







KEY

____ Local road

---- Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Dusky Woodswallow

▲ Gang-gang Cockatoo

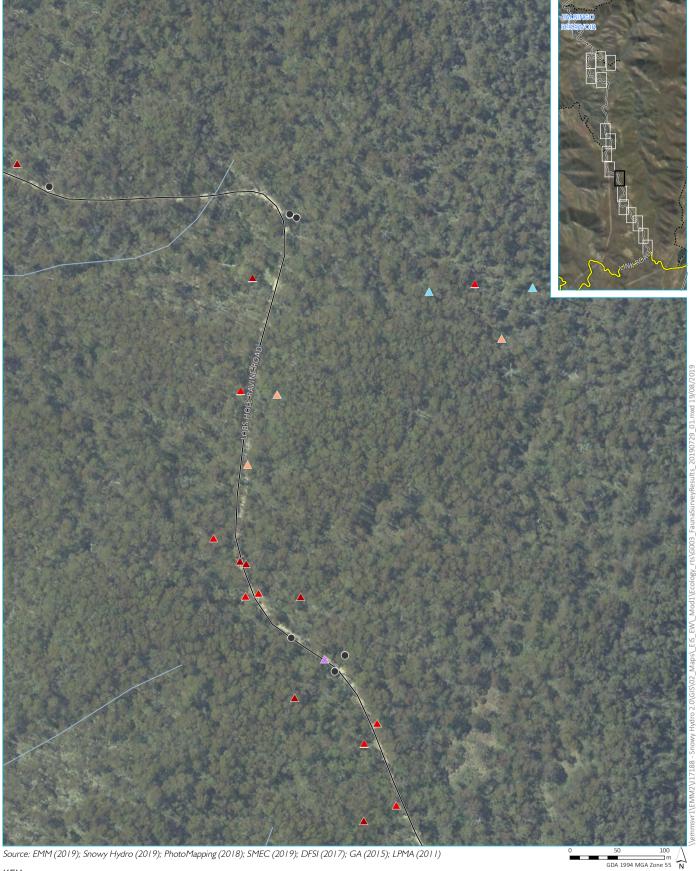
Smoky Mouse

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 i







___ Local road

---- Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Eastern Pygmy-possum

▲ Flame Robin

▲ Gang-gang Cockatoo

Olive Whistler

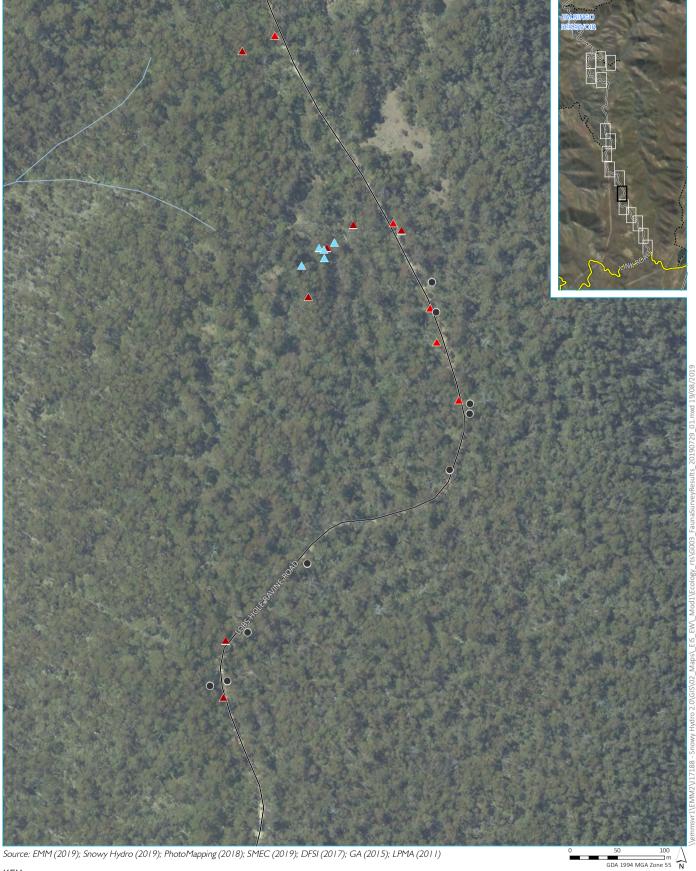
Smoky Mouse

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 j







___ Local road

— Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Flame Robin

▲ Gang-gang Cockatoo

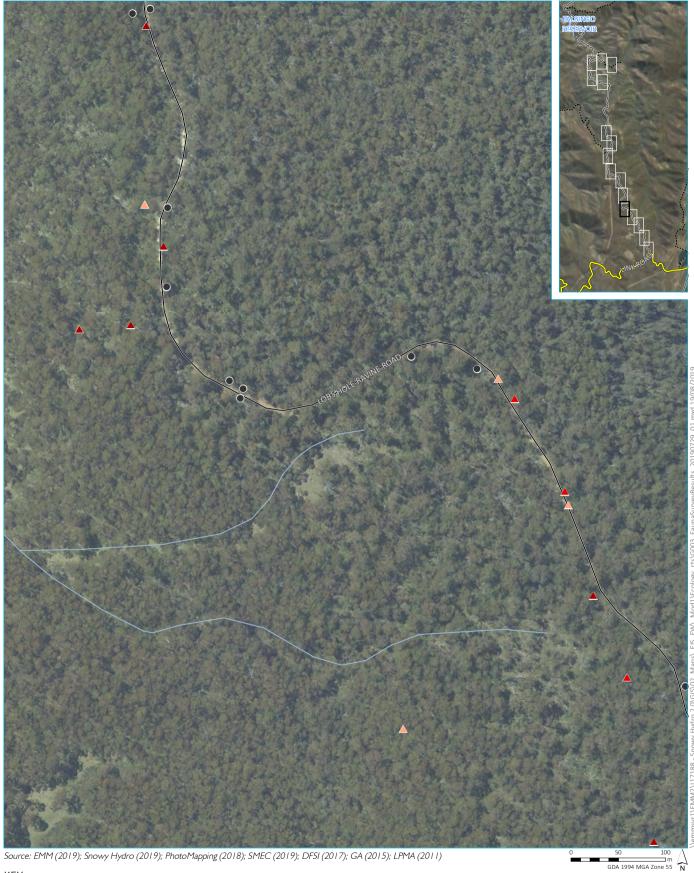
Smoky Mouse

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 k







— Local road

---- Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Eastern Pygmy-possum

▲ Flame Robin

▲ Gang-gang Cockatoo

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 l







___ Local road

---- Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Eastern Pygmy-possum

▲ Flame Robin

▲ Gang-gang Cockatoo

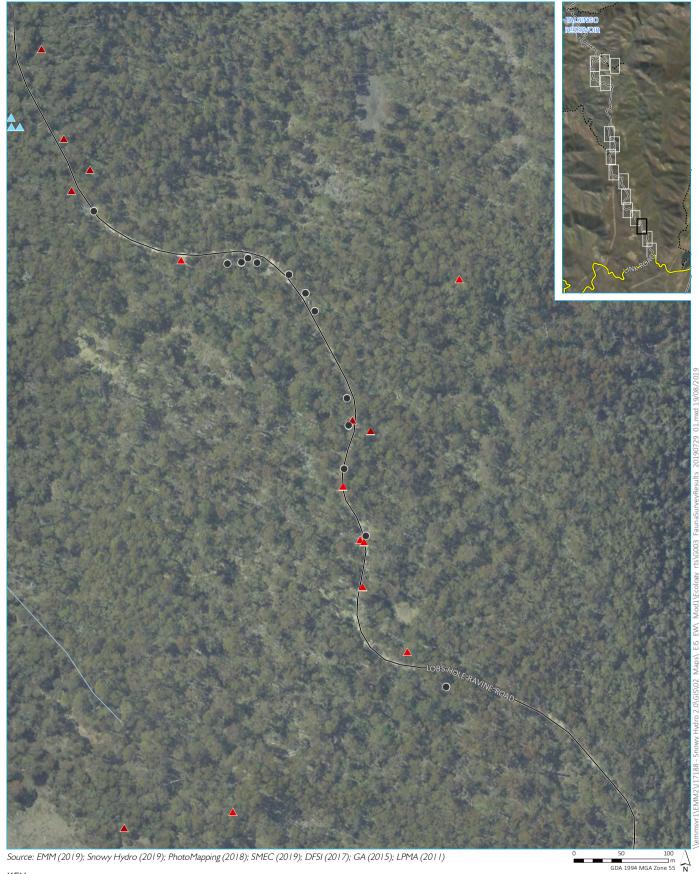
▲ Smoky Mouse

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 m







____ Local road

---- Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Flame Robin

▲ Gang-gang Cockatoo

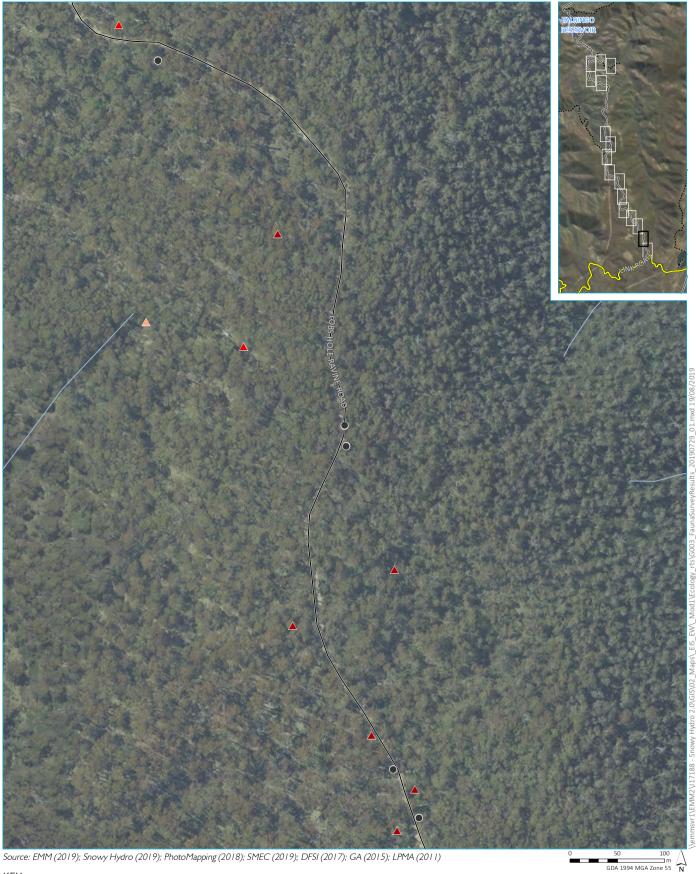
Smoky Mouse

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 n







— Local road

---- Watercourse/drainage line

Dangerous trees

Threatened fauna

▲ Eastern Pygmy-possum

▲ Flame Robin

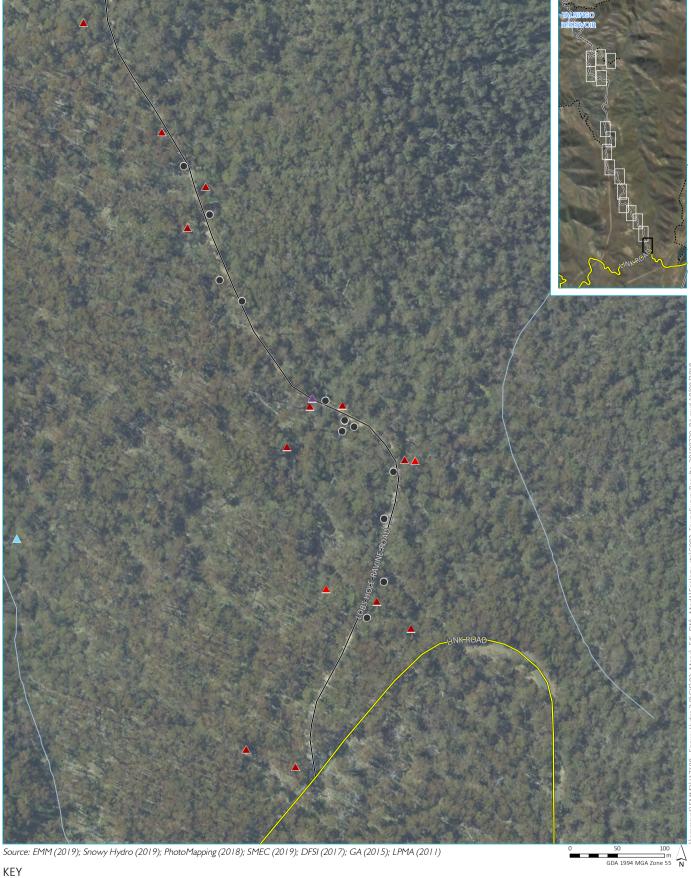
▲ Gang-gang Cockatoo

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 o







Main road

- Local road

Watercourse/drainage line

Dangerous trees

Threatened fauna

- Flame Robin
- Gang-gang Cockatoo
- ▲ Masked Owl
- Smoky Mouse

Fauna survey results

Snowy 2.0 Ecology RTS Modification 1 3.3 p





3.3 Impacts requiring offsets

A summary of ecosystem credits required for all vegetation zones associated with the dangerous trees, including changes in vegetation integrity score, are provided in Table 3.7. A total of 15 ecosystem credits are required to offset the residual impacts to 1.13 ha of native vegetation arising from the removal of dangerous trees within the Exploratory Works Modification 1. A credit report is provided in Appendix E.

Table 3.7 Summary of ecosystem credits required for impacts to dangerous trees within Modification 1

Vegetation zone number	РСТ	Vegetation zone name	Area	Vegetation integrity score	Future vegetation integrity score	Change in vegetation integrity score	Credits required
4	PCT 300 – Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern- grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment	300_High_tree	0.10	49	28.7	-20.3	1
6	PCT 300 – Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment	300_Medium_tree	0.01	56	31.2	-24.8	1
8	PCT 300 – Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment	300_Other_tree	0.02	59.8	38.7	-21.2	1
27	PCT 953 – Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion	953_High_tree	0.02	75.7	45.9	-29.8	1
24	PCT 1196 – Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion	1196_High_tree	0.98	95.7	64.6	-31.1	11

4 Conclusion

As a result of response to submissions including additional offsets for the removal of dangerous trees, and changes to the Modification 1 boundary additional offsets will be required as well as the increase of removal of native vegetation and impacts to threatened species habitat. Residual impacts following the amendments within this RTS include:

- clearing of 13.68 ha of native vegetation;
- impacts to 10.91 ha of threatened species habitat for five species credit species; and
- removal of 91 dangerous trees.

Threatened species survey identified 10 fauna species recorded adjacent to the dangerous trees. However, no species credit species were identified utilising the dangerous trees to be removed.

A total of 328 ecosystem credits are required for the Exploratory Works Modification 1 disturbance footprint and dangerous tree removal, and 392 species credits arising from Modification 1. These impacts will be offset in accordance with the objective and principles outlined in the biodiversity framework.



Main road

- Local road ····· Vehicular track

EW approved construction footprint (additional)

EW approved construction footprint

Waterbody

Impacts requiring offsets

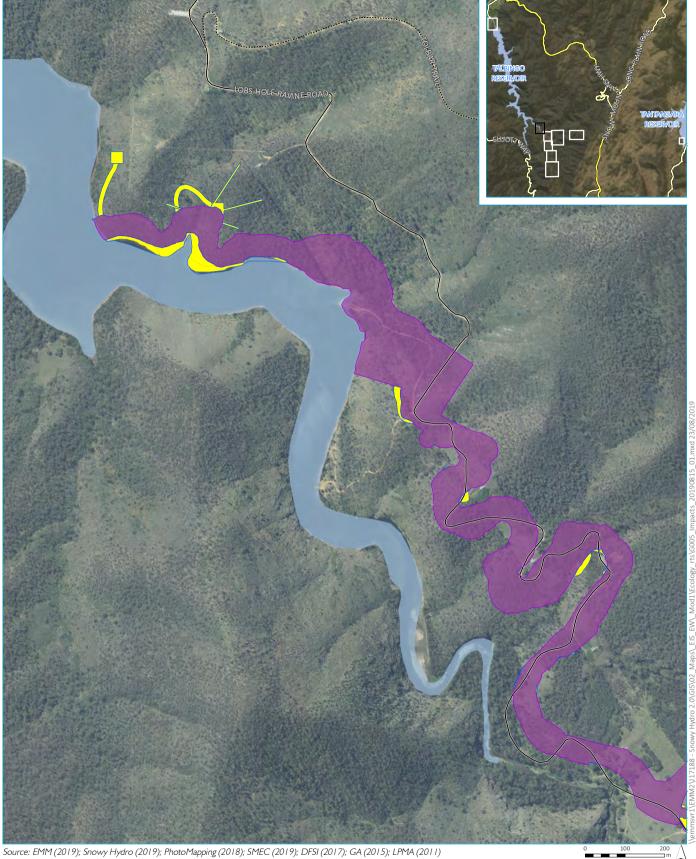
Areas not requiring assessment

Impacts requiring offsets, impacts not requiring offsets and areas not requiring assessment

Snowy 2.0 Modification 1 Response to Submissions 4.1 a







- Local road

····· Vehicular track

BW approved construction footprint (additional)

EW approved construction footprint

Impacts requiring offsets

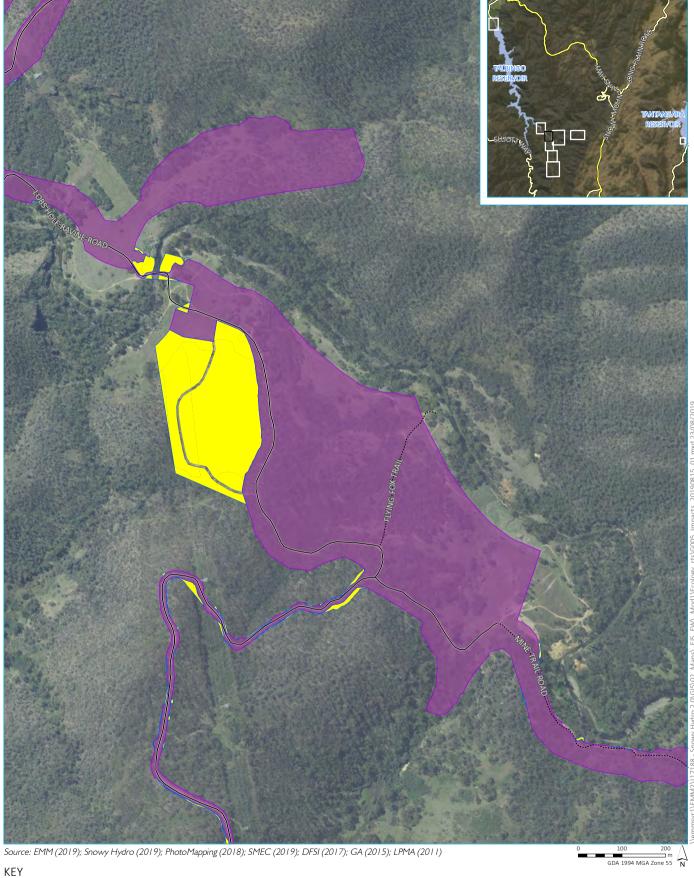
Areas not requiring assessment

Impacts requiring offsets, impacts not requiring offsets and areas not requiring assessment

Snowy 2.0 Modification 1 Response to Submissions 4.1 b







---- Local road

····· Vehicular track

EW approved construction footprint (additional)

EW approved construction footprint

Impacts requiring offsets

Areas not requiring assessment

Impacts requiring offsets, impacts not requiring offsets and areas not requiring assessment

 $\begin{array}{c} \text{Snowy 2.0} \\ \text{Modification 1 Response to Submissions} \\ \text{4.1 c} \end{array}$







Source: EMM (2019); Snowy Hydro (2019); PhotoMapping (2018); SMEC (2019); DFSI (2017); GA (2015); LPMA (2011)

KEY

····· Vehicular track

EW approved construction footprint (additional)

BW approved construction footprint

Impacts requiring offsets

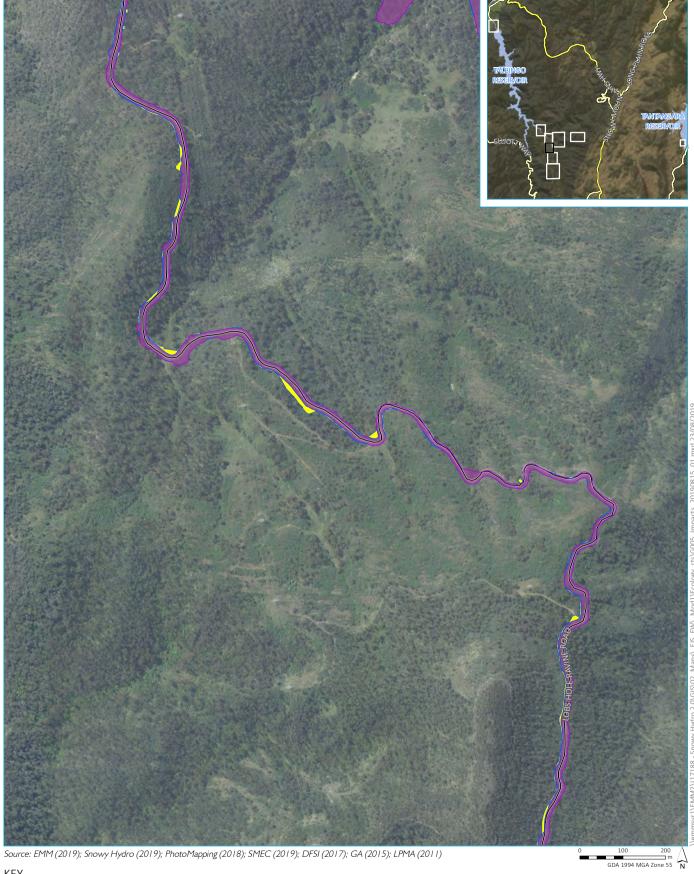
Areas not requiring assessment

Impacts requiring offsets, impacts not requiring offsets and areas not requiring assessment

Snowy 2.0 Modification 1 Response to Submissions 4.1 d







- Local road

EW approved construction footprint (additional)

EW approved construction footprint

Impacts requiring offsets

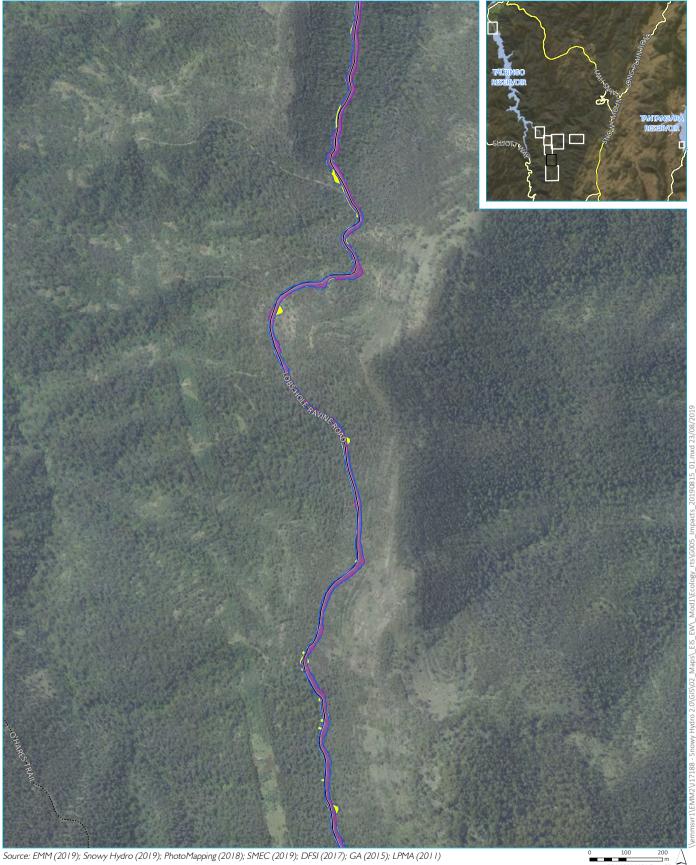
Areas not requiring assessment

Impacts requiring offsets, impacts not requiring offsets and areas not requiring assessment

Snowy 2.0 Modification 1 Response to Submissions







- Local road

····· Vehicular track

EW approved construction footprint (additional)

EW approved construction footprint

Impacts requiring offsets Areas not requiring assessment Impacts requiring offsets, impacts not requiring offsets and areas not requiring assessment

 $\begin{array}{c} \text{Snowy 2.0} \\ \text{Modification 1 Response to Submissions} \\ \text{4.1 f} \end{array}$







- Local road

····· Vehicular track

EW approved construction footprint (additional)

BW approved construction footprint

Impacts requiring offsets

Impacts not requiring offsets Areas not requiring assessment Impacts requiring offsets, impacts not requiring offsets and areas not requiring assessment

Snowy 2.0 Modification 1 Response to Submissions







Source: EMM (2019); Snowy Hydro (2019); PhotoMapping (2018); SMEC (2019); DFSI (2017); GA (2015); LPMA (2011)

EW approved construction footprint (additional)

Impacts requiring offsets

Impacts requiring offsets, impacts not requiring offsets and areas not requiring assessment

Snowy 2.0 Modification 1 Response to Submissions 4.1 h







····· Vehicular track

EW approved construction footprint (additional)

Waterbody

Impacts requiring offsets

Impacts requiring offsets, impacts not requiring offsets and areas not requiring assessment

Snowy 2.0 Modification 1 Response to Submissions 4.1 i





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Phillips S and Callaghan J 2011, The Spot Assessment Technique: a tool for determining localised levels of habitat use by Koalas Phascolarctos cinereus. Australian Zoologist 35 (3): 774-780.

Appendix A

Vegetation integrity assessment - datasheets

BAM Site – Field Survey Form

Plot ID:	76	Date:	10-01-18	Survey Name:	Lobbs Hole Ravine Road north		Recorders:	SD
Zone:	55	Easting:	625307.5339	Plot dimensions:	20m x 50m	Midline bearing:	160	
Datum:	GDA94	Northing:	6039766.938	IBRA region:	South Eastern Highlands (Bondo)	Zone ID:		
	Plant Community Type: 300: Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment				Confidence:	Low	Photo #:	
	Vegetation Class: Southern Tableland Wet Sclerophyll Fore			rests	EEC:	No	Confidence:	High

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	3
	Shrubs:	13
Count of Native	Grasses etc.:	10
Richness	Forbs:	18
	Ferns:	0
	Other:	3
	Trees:	30.7
	Shrubs:	21.2
Sum of Cover of native vascular plants by	Grasses etc.:	6.3
growth form group	Forbs:	9.3
	Ferns:	0
	Other:	0.3
High T	hreat Weed cover:	0.2

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	1	0	0
30 – 49 cm:	1	0	1
20 – 29 cm:	0	0	0
10 – 19 cm:	0	0	0
5 – 9 cm:	0	0	0
< 5 cm:	0	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		28	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)		Bare ground cover (%)			Cryptogam cover (%)			Rock cover (%)											
Subplot score (% in each):	30	20	60	60	40	0	0	1	20	10	80	70	90	50	70	1	0	0	0	0
Average of the 5 subplots:			42					6.2					72					0.2		

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Mountains	Microrelief	
Wiorphological Type	ivioi pilologicai Type		Lf Element (B)		Lf Pattern (B)		
Lithology (A)	Sedimentary rock (unidentified)	Soil Surface	Sandy clay loam	Soil Colour	Brown	Soil Depth	Medium
Lithology (B)		Texture	Sandy Clay Idam	3011 C01001	BIOWII	зоп Берип	Wediaiii
Slope	20	Aspect	160	Site Drainage	Moderate	Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Severe	greater than 10yo	Regrowth
Cultivation (inc. pasture):			
Soil erosion:	Moderate	greater than 10yo	
Firewood / CWD removal:			
Grazing (identify native/stock):	Light	greater than 10yo	
Fire damage:			
Storm damage:			
Weediness:	Light	3 to 10 yo	Blackberry
Other:			

Severity: 0=no evidence, 1=light, 2=moderate, 3=severe

GF Code: see Growth Form definitions in Appendix 1; N: native, E: exotic, HTE: high threat exotic; GF – circle code if 'top 3'; Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ... 100% [foliage cover] Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m Abundance: 1, 2, 3, ..., 10, 20, 30, ... 100, 200, ..., 1000, 200,

Survey Name: Lobbs Hole Ravine Road north

Date: 10-01-18 Plot ID: 76 Recorders: SD

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus robertsonii	30	100		N	
Shrub (SG)	Acacia pravissima	15	100		N	
Other (OG)	Clematis aristata	0.1	20		N	
Grass & grasslike	Lomandra bracteata	0.5	40		N	
	Glycine microphylla	0.1	10		N	
Shrub (SG)	Pimelea linifolia	0.2	40		N	
Forb (FG)	Hydrocotyle laxiflora	1	1		N	
Shrub (SG)	Pimelea curviflora	0.1	10		N	
	Rubus anglocandicans	1	1		Е	
Grass & grasslike	Microlaena stipoides	4	1000		N	
Forb (FG)	Arthropodium milleflorum	0.1	10		N	
Shrub (SG)	Cassinia arcuata	0.5	5		N	
Forb (FG)	Lagenophora stipitata	4	1000		N	
Forb (FG)	Dianella revoluta	0.1	5		N	
	Banksia canei	1	5		N	
Shrub (SG)	Olearia myrsinoides	2	500		N	
	Hypericum perforatum	0.1	10		HTE	
Shrub (SG)	Acacia obliquinervia	0.5	10		N	
	Plantago lanceolata	0.1	10		E	
Shrub (SG)	Mirbelia oxylobioides	1	20		N	
	Eucalyptus dives	0.2	5		N	
(-,	Centaurium erythraea	0.1	10		E	
Grass &	Lomandra filiformis subsp. filiformis	0.1	10		N	
grasslike Forb (FG)	Geranium solanderi	0.1	10		N	
Forb (FG)	Boronia nana var. hyssopifolia	0.1	5		N	
Shrub (SG)	Hibbertia obtusifolia	0.1	10		N	
Grass &	Anthosachne scabra	0.2	50		N	
grasslike Forb (FG)	Viola betonicifolia	0.1	10		N	
	Gonocarpus tetragynus	0.5	100		N	
` '	Wahlenbergia stricta	0.1	10		N	
	Leucopogon fletcheri subsp. brevisepalus	0.1	1		N	
Grass &	Echinopogon ovatus	0.5	100		N	
grasslike Forb (FG)	Stylidium graminifolium	0.1	10		N	
	Bursaria spinosa	0.5	5		N	
Forb (FG)	Asperula scoparia	1	300		N	
	Gompholobium huegelii	0.1	1		N	
Forb (FG)	Dichondra repens	0.5	100		N	
Forb (FG)	Hypericum gramineum	0.1	20		N	
Forb (FG)	Cymbonotus lawsonianus	0.1	10		N	
Forb (FG)	Euchiton japonicus	0.1	20		N	
	Glycine clandestina	0.1	10		N	
Forb (FG)	Stellaria pungens	0.1	30		N	
Grass &	Poa sieberiana var. hirtella	0.2	1		N	
grasslike		0.1	20			
Forb (FG) Grass &	Galium gaudichaudii				N	
grasslike	Luzula densiflora Prochuloma denhacidos	0.2	40		N	
Shrub (SG) Grass &	Brachyloma daphnoides	0.1	1		N	
grasslike	Poa sieberiana var. sieberiana	0.5	30		N	

	Eucalyptus rubida	0.5	7	N	
Grass & grasslike	Carex appressa	0.1	1	N	
	Rosa rubiginosa	0.1	1	HTE	
	Acaena novae-zelandiae	0.1	5	N	
Grass & grasslike	Austrostipa mollis	0.1	5	N	

BAM Site – Field Survey Form

Plot ID:	88	Date:	22-11-17	Survey Name:	Lobs Hole Ravine		Recorders:	SW, SW	
Zone:	55	Easting:	625982.396	Plot dimensions:	20m x 50m		Midline bearing:	204	
Datum:	GDA94	Northing:	6039028.785	IBRA region:	South Eastern Highlands (Bondo)	Zone ID:			
	Plant Community Type: 302: Riparian Blakely's Red Gum - Broad-leaved Sally woodland - tea-tree - bottlebrush - wattle shrubland wetland of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion					Confidence:	Medium	Photo #:	
Vegetation Class: Upper Riverina Dry Sclerophyll Forests				EEC:	No	Confidence:	High		

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	0
	Shrubs:	0
Count of Native	Grasses etc.:	3
Richness	Forbs:	3
	Ferns:	0
	Other:	1
	Trees:	0
	Shrubs:	0
Sum of Cover of native	Grasses etc.:	62.1
vascular plants by growth form group	Forbs:	0.3
	Ferns:	0
	Other:	0.1
High T	hreat Weed cover:	21.1

	BAM Attribute (1000 m2 plot) DBH											
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows									
80 + cm:	0	0	0									
50 – 79 cm:	0	0	0									
30 – 49 cm:	0	0	0									
20 – 29 cm:	0	0	0									
10 – 19 cm:	1	0	0									
5 – 9 cm:	1	0	0									
< 5 cm:	1	0	0									
Length of logs (m) (≥10 cm diameter, >50 cm in length)		0										

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)				Bare ground cover (%)				Cryptogam cover (%)				Rock cover (%)							
Subplot score (% in each):	10	25	5	5	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average of the 5 subplots:	13			0			0				0									

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type	Lf Element (A)	Valley flat	Lf Pattern (A)	Alluvial plain	Microrelief	
	Lf Element (B)		Lf Pattern (B)		Microrener	
Lithology (A)	Soil Surface	Loam	Soil Colour	Brown	Soil Depth	At least 100mm
Lithology (B)	Texture	LOAIII	3011 Colour	BIOWII	3011 Deptil	At least 100mm
Slope	Aspect	SSW	Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Severe	less than 3yo	Historic clearing, area used for camping, regular slashing may occur to accommodate camping.
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:	Light	less than 3yo	Majority or area cleared except for small patch of vegetation which may experience loss of fallen timber for car
Grazing (identify native/stock):			No evidence
Fire damage:			No evidence
Storm damage:			No evidence
Weediness:	Severe	less than 3yo	High number of exotic species
Other:			

Severity: 0=no evidence, 1=light, 2=moderate, 3=severe

GF Code: see Growth Form definitions in Appendix 1; N: native, E: exotic, HTE: high threat exotic; GF – circle code if 'top 3'; Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ... 100% [foliage cover] Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m Abundance: 1, 2, 3, ..., 10, 20, 30, ... 100, 200, ..., 1000, 200,

Survey Name: Lobs Hole Ravine

Date: 22-11-17 Plot ID: 88 Recorders: SW, SW

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Grass & grasslike	Themeda triandra	60	1000		N	
El dobline	Hypericum perforatum	10	300		HTE	
	Bromus molliformis	5	200		Е	
Other (OG)	Convolvulus angustissimus	0.1	3		N	
	Hypochaeris radicata	3	300		Е	
	Taraxacum officinale	0.2	20		Е	
	Lysimachia arvensis	0.1	20		Е	
	Vulpia bromoides	20	1000		Е	
	Briza minor	0.1	20		Е	
	Potentilla recta	0.1	20		Е	
	Acetosella vulgaris	1	200		HTE	
	Agrostis capillaris	10	500		HTE	
	Rubus fruticosus sp. agg.	0.1	5		HTE	
Grass &	Carex breviculmis	0.1	5		N	
grasslike Grass & grasslike	Carex appressa	2	20		N	
EI GOOIING	Cirsium vulgare	0.1	5		Е	
	Sonchus oleraceus	0.1	10		Е	
	Verbascum virgatum	0.1	2		Е	
Forb (FG)	Cymbonotus preissianus	0.1	2		N	
Forb (FG)	Oxalis perennans	0.1	10		N	
Forb (FG)	Veronica subtilis	0.1	10		N	
	Aira elegantissima	0.5	500		Е	

Plot ID:	97	Date:	12-12-17	Survey Name:	Lobs Hole Ravine	obs Hole Ravine						
Zone:	55	Easting:	627960.6244	Plot dimensions:	20m x 50m			20m x 50m			Midline bearing:	20
Datum:	GDA94	Northing:	6038787.024	IBRA region:	South Eastern Highlands (Bondo)			Zone ID:				
	Plant Comn	nunity Type:		d-leaved Sally woodland - tea-tree - bottlebrush South Western Slopes Bioregion and South	Confidence:	Low	Photo #:					
	Vege	tation Class:	Upper Riverina		EEC:	No	Confidence:	Low				

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	2	
	Shrubs:	14
Count of Native	8	
Richness	4	
	0	
	Other:	0
	Trees:	30
	Shrubs:	43.6
Sum of Cover of native	Grasses etc.:	14.6
vascular plants by growth form group	Forbs:	0.4
	Ferns:	0
	0	
High T	hreat Weed cover:	75.5

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	1	0	1
50 – 79 cm:	1	0	1
30 – 49 cm:	1	0	0
20 – 29 cm:	1	0	0
10 – 19 cm:	1	0	0
5 – 9 cm:	1	0	0
< 5 cm:	0	1	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		65	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)					Bare ground cover (%)					Cryptogam cover (%)				Rock cover (%)				
Subplot score (% in each):	90	85 85 95 95 2				2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average of the 5 subplots:		90					0.4			0					0					

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type	Lf Element (A)	Other	Lf Pattern (A)	Alluvial plain	Microrelief	
Worphological Type	Lf Element (B)	River flat	Lf Pattern (B)		Microrener	
Lithology (A)	Soil Surface	Loam	Soil Colour	Dark brown	Soil Depth	At least 100mm
Lithology (B)	Texture	Loani	3011 Colour	Dark blowii	3011 Deptil	At least 100mm
Slope	Aspect	North	Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Light	greater than 10yo	
Storm damage:			No evidence
Weediness:	Severe	less than 3yo	Blackberry infestation 80% of plot
Other:			

Survey Name: Lobs Hole Ravine

Date: 12-12-17 Plot ID: 97 Recorders: AM, SW

GF Code	Top 3 native species in each growth form group: Full species name mandatory	Cover	Abund	Voucher	N, E or HTE	Stratum
	All other native and exotic species: Full species name where practicable					
Tree (TG)	Eucalyptus viminalis	10	8		N	
Tree (TG)	Eucalyptus robertsonii	20	6		N	
Shrub (SG)	Acacia pravissima	30	50		N	
Shrub (SG)	Bursaria spinosa	2	7		N	
Shrub (SG)	Prostanthera lasianthos variant 'typical'	0.5	3		N	
Grass & grasslike	Poa helmsii	10	70		N	
Shrub (SG)	Cassinia aculeata	2	10		N	
Shrub (SG)	Leptospermum polygalifolium subsp. polygalifolium	5	20		N	
Grass & grasslike	Poa labillardierei var. labillardierei	3	50		N	
Shrub (SG)	Pomaderris aspera	1	4		N	
Forb (FG)	Asperula scoparia	0.1	30		N	
Grass &	Lomandra filiformis subsp. coriacea	0.1	10		N	
grasslike Shrub (SG)	Pomaderris angustifolia	1	8		N	
Grass &	Carex breviculmis	0.1	10		N	
grasslike Grass &	Dichelachne inaequiglumis	1	100		N	
grasslike Forb (FG)	Geranium solanderi var. solanderi	0.1	20		N	
Shrub (SG)	Mirbelia oxylobioides	0.2	20		N	
Shrub (SG)	Gynatrix pulchella	0.2	5		N	
Shrub (SG)	Lomatia myricoides	1	2		N	
Forb (FG)	Gonocarpus tetragynus	0.1	20		N	
Shrub (SG)	Olearia phlogopappa	0.2	3		N	
Forb (FG)	Oxalis perennans	0.1	10		N	
Grass &	Rytidosperma penicillatum	0.1	10		N	
grasslike Grass &	Carex iynx	0.2	5		N	
grasslike Shrub (SG)	Pimelea pauciflora	0.2	2		N	
· · · · /	Rosa rubiginosa	0.5	5		HTE	
Shrub (SG)	Grevillea rosmarinifolia subsp. rosmarinifolia	0.2	1		N	
Grass &	Carex inversa	0.1	10		N	
grasslike	Rubus fruticosus sp. agg.	75	1000		HTE	
Shrub (SG)	Pomaderris subcapitata	0.1	2		N	
5/11 db (5d)		0.1				

Plot ID:	108	Date:	23-11-17	Survey Name:	Lobs Hole Ravine	Lobs Hole Ravine						
Zone:	55	Easting:	626424.2617	Plot dimensions:	: 20m x 50m			. 20m x 50m			Midline bearing:	308
Datum:	GDA94	Northing:	6038732.062	IBRA region:	South Eastern Highlands (Bondo)			Zone ID:				
	Plant Comn	nunity Type:		d-leaved Sally woodland - tea-tree - bottlebrush South Western Slopes Bioregion and South	Confidence:	High	Photo #:					
	Vege	ation Class:	Upper Riverina		EEC:	No	Confidence:	High				

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	3
	Shrubs:	6
Count of Native	Grasses etc.:	6
Richness	5	
	Ferns:	0
	Other:	0
	Trees:	43
	Shrubs:	65.6
Sum of Cover of native	Grasses etc.:	21.4
vascular plants by growth form group	Forbs:	0.6
	Ferns:	0
	Other:	0
High T	7.2	

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	1	0	1
50 – 79 cm:	0	0	0
30 – 49 cm:	1	0	0
20 – 29 cm:	1	0	0
10 – 19 cm:	1	0	0
5 – 9 cm:	1	0	0
< 5 cm:	1	1	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		23	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)					Bare ground cover (%)					Cryptogam cover (%)				Rock cover (%)				
Subplot score (% in each):	95	100	70	60	20	0	0	2	0	0	0	0	5	0	0	0	0	10	0	0
Average of the 5 subplots:		69					0.4			1					2					

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type	Lf Element (A)	Valley flat	Lf Pattern (A)	Alluvial plain	Microrelief	
Worphological Type	Lf Element (B)		Lf Pattern (B)		Microrener	
Lithology (A)	Soil Surface	Loam	Soil Colour	Brown	Soil Depth	At least 100mm
Lithology (B)	Texture	LOAIII	3011 Colour	BIOWII	3011 Deptil	At least 100mm
Slope	Aspect SSE		Site Drainage		Distance to nearest water &	
					type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:	Light		Evidence of small trees cut felled
Grazing (identify native/stock):			No evidence
Fire damage:			No evidence
Storm damage:			No evidence
Weediness:	Moderate	less than 3yo	Exotic species present
Other:			

Survey Name: Lobs Hole Ravine

Date: 23-11-17 Plot ID: 108 Recorders: AM, SW

	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus camphora subsp. humeana	3	2		N	
Tree (TG)	Eucalyptus viminalis	20	10		N	
Tree (TG)	Eucalyptus stellulata	20	20		N	
Shrub (SG)	Acacia pravissima	35	50		N	
Grass & grasslike	Themeda triandra	20	200		N	
	Hypochaeris radicata	0.2	20		Е	
	Hypericum perforatum	0.8	50		HTE	
	Plantago lanceolata	0.2	20		Е	
	Rosa rubiginosa	2	20		HTE	
	Rubus fruticosus sp. agg.	2	10		HTE	
Shrub (SG)	Rubus parvifolius	10	50		N	
Forb (FG)	Asperula conferta	0.1	20		N	
Forb (FG)	Acaena agnipila	0.1	20		N	
Grass &	Juncus sarophorus	0.1	1		N	
grasslike Grass & grasslike	Poa helmsii	1	20		N	
	Cassinia aculeata	5	10		N	
Shrub (SG)	Grevillea rosmarinifolia	15	20		N	
	Bromus sterilis	30	1000		Е	
	Poa pratensis	5	100		Е	
Grass & grasslike	Lomandra filiformis subsp. coriacea	0.1	5		N	
	Vulpia bromoides	3	100		Е	
	Veronica arvensis	0.1	20		Е	
	Centaurium erythraea	0.2	50		Е	
Forb (FG)	Dichondra repens	0.2	100		N	
Forb (FG)	Geranium solanderi	0.1	20		N	
Shrub (SG)	Mirbelia oxylobioides	0.1	1		N	
Grass & grasslike	Carex appressa	0.1	5		N	
	Bromus diandrus	2	50		HTE	
	Cirsium vulgare	0.2	10		Е	
Forb (FG)	Acaena novae-zelandiae	0.1	20		N	
	Cerastium glomeratum	0.1	10		Е	
	Briza minor	0.1	10		Е	
	Potentilla recta	0.1	1		Е	
Shrub (SG)	Acacia siculiformis	0.5	1		N	
Grass & grasslike	Poa sieberiana	0.1	10		N	
	Crataegus monogyna	0.2	2		HTE	
	Crataegus monogyna	0.2	2		HTE	
	Veronica peregrina	0.1	10		Е	
	Myosotis discolor	0.1	10		Е	

Plot ID:	143	Date:	22-11-17	Survey Name:	Lobs Hole Ravine adjusted location for 143		Recorders:	ED, LH	
Zone:	55	Easting:	627654.339	Plot dimensions:	20m x 50m	Midline bearing:	20		
Datum:	GDA94	Northing:	6038148.986	IBRA region:	South Eastern Highlands (Bondo)	Zone ID:			
	Plant Community Type: 302: Riparian Blakely's Red Gum - Broad-leaved Sally woodland - tea-tree - bottlebrush - wattle shrubland wetland of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion						Low	Photo #:	
Vegetation Class: Upper Riverina Dry Sclerophyll Forests				Dry Sclerophyll Forests		EEC:	Yes	Confidence:	Low

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	2
	Shrubs:	13
Count of Native	Grasses etc.:	5
Richness	Forbs:	7
	Ferns:	1
	Other:	1
	Trees:	35
	Shrubs:	132.7
Sum of Cover of native	Grasses etc.:	20.5
vascular plants by growth form group	Forbs:	0.8
	Ferns:	0.6
	Other:	0.1
High T	hreat Weed cover:	16.3

	BAM Attribute (1000 m2 plot) DBH											
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows									
80 + cm:	0	0	0									
50 – 79 cm:	1	0	0									
30 – 49 cm:	1	0	0									
20 – 29 cm:	1	0	0									
10 – 19 cm:	1	0	0									
5 – 9 cm:	1	0	0									
< 5 cm:	1	0	0									
Length of logs (m) (≥10 cm diameter, >50 cm in length)		12										

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)		Bare ground cover (%)			Cryptogam cover (%)			Rock cover (%)											
Subplot score (% in each):	40	25	80	80	25	0	0	0	0	0	2	0	0	0	0	0	0	0	0	25
Average of the 5 subplots:	ots: 50			0		0.4			5											

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A) Valley flat		Lf Pattern (A)	Alluvial plain	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Wildforener	
Lithology (A)		Soil Surface	Fine loam	Soil Colour	Dark brown	Soil Depth	Deep
Lithology (B)		Texture	rille Ioalii	3011 Colour	Dark blowii	3011 Deptil	Беер
Slope	Flat	Aspect		Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Light	greater than 10yo	Previous clearing
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			
Grazing (identify native/stock):			
Fire damage:			
Storm damage:			
Weediness:	Moderate	greater than 10yo	Blackberry
Other:			

Survey Name: Lobs Hole Ravine adjusted location for 143

Date: 22-11-17 Plot ID: 143 Recorders: ED, LH

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Shrub (SG)	Acacia pravissima	60	200		N	
Shrub (SG)	Pomaderris aspera	45	10		N	
Grass & grasslike	Poa helmsii	20	200		N	
	Rosa rubiginosa	0.7	5		HTE	
	Rubus fruticosus sp. agg.	15	100		HTE	
Shrub (SG)	Mirbelia oxylobioides	4	20		N	
Shrub (SG)	Cassinia longifolia	15	40		N	
Tree (TG)	Eucalyptus stellulata	10	15		N	
Forb (FG)	Geranium solanderi	0.2	10		N	
Shrub (SG)	Cassinia aculeata	5	10		N	
	Hypericum perforatum	0.2	30		HTE	
Shrub (SG)	Banksia spinulosa var. collina	0.5	1		N	
	Bromus diandrus	0.4	20		HTE	
Forb (FG)	Oxalis perennans	0.1	5		N	
Shrub (SG)	Leucopogon gelidus	0.2	5		N	
Grass & grasslike	Carex appressa	0.1	1		N	
Grass & grasslike	Poa sieberiana	0.2	10		N	
Shrub (SG)	Hibbertia obtusifolia	0.2	4		N	
Fern (EG)	Pteridium esculentum	0.6	10		N	
Shrub (SG)	Dillwynia prostrata	0.1	6		N	
Forb (FG)	Asperula conferta	0.1	10		N	
Grass & grasslike	Lomandra micrantha subsp. Tuberculata	0.1	1		N	
Shrub (SG)	Bursaria spinosa	1	5		N	
Shrub (SG)	Gynatrix pulchella	1	5		N	
Other (OG)	Glycine tabacina	0.1	1		N	
Forb (FG)	Poranthera microphylla	0.1	3		N	
Forb (FG)	Hydrocotyle laxiflora	0.1	2		N	
Forb (FG)	Asperula scoparia	0.1	10		N	
Shrub (SG)	Exocarpos strictus	0.6	3		N	
Forb (FG)	Dichondra repens	0.1	2		N	
Grass & grasslike	Carex breviculmis	0.1	1		N	
Tree (TG)	Eucalyptus viminalis	25			N	
	Malus spp.	0.1	1		Е	
Shrub (SG)	Rubus parvifolius	0.1	5		N	
	Vulpia bromoides	0.1	10		Е	

Plot ID:	164	Date:	23-11-17	Survey Name:	Tantangara Dam south intake		Recorders:	ED, LH	
Zone:	55	Easting:	649062.6036	Plot dimensions:	20m x 50m	Midline bearing:	117		
Datum:	GDA94	Northing:	6037390.662	IBRA region:	Australian Alps (Snowy Mountains)	Zone ID:			
	Plant Community Type: 1224: Sub-alpine dry grasslands and heathlands of valley slopes, southern South Eastern Highlands Bioregion and Australian Alps Bioregion					Confidence:	Medium	Photo #:	
Vegetation Class: Temperate Montane Grasslands						EEC:	Yes	Confidence:	Low

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	1
	Shrubs:	3
Count of Native	Grasses etc.:	8
Richness	Forbs:	5
	Ferns:	0
	Other:	0
	Trees:	2
	Shrubs:	27.2
Sum of Cover of native	Grasses etc.:	23.5
vascular plants by growth form group	Forbs:	2.1
	Ferns:	0
	Other:	0
High T	hreat Weed cover:	0.7

	BAM Attribute (1000 m2 plot) DBH												
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows										
80 + cm:	0	0	0										
50 – 79 cm:	0	0	0										
30 – 49 cm:	0	0	0										
20 – 29 cm:	1	0	0										
10 – 19 cm:	1	0	0										
5 – 9 cm:	1	0	0										
< 5 cm:	1	0	0										
Length of logs (m) (≥10 cm diameter, >50 cm in length)		0											

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)		Bare ground cover (%)				Cryptogam cover (%)				Rock cover (%)									
Subplot score (% in each):	5	10	10	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average of the 5 subplots:			9					0					0			0				

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type	Lf Element (A)	Hillslope	Lf Pattern (A)	Mountains	Microrelief	
Worphological Type	Lf Element (B)		Lf Pattern (B)		Microrener	
Lithology (A)	Soil Surface	Fine loam	Soil Colour	Dark brown	Soil Depth	Moderate
Lithology (B)	Texture	rille loalii	3011 Colour	Dark blowii	Son Depth	Moderate
Slope	Aspect		Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No
Cultivation (inc. pasture):			No
Soil erosion:			No
Firewood / CWD removal:			
Grazing (identify native/stock):	Moderate	greater than 10yo	Horses and rabbits present. trampling is severe changing nsture and structure of landscape
Fire damage:			No
Storm damage:			No
Weediness:	Moderate	greater than 10yo	
Other:			

Survey Name: Tantangara Dam south intake

Date: 23-11-17 Plot ID: 164 Recorders: ED, LH

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus stellulata	2	2		N	
Grass & grasslike	Themeda triandra	0.2	20		N	
	Hakea microcarpa	25	200		N	
Shrub (SG)	Epacris breviflora	2	20		N	
Grass & grasslike	Juncus sarophorus	4	50		N	
	Senecio gunnii	0.5	40		N	
Forb (FG)	Gonocarpus montanus	0.1	20		N	
Forb (FG)	Hydrocotyle laxiflora	0.2	80		N	
	Cirsium spp.	0.1	3		Е	
Forb (FG)	Acaena novae-zelandiae	1	40		N	
Forb (FG)	Epilobium gunnianum	0.3	50		N	
	Holcus lanatus	30	500		Е	
	Acetosella vulgaris	0.7	10		HTE	
Grass &	Carex breviculmis	0.1	4		N	
grasslike Grass & grasslike	Luzula flaccida	0.1	5		N	
Elassiike	Hypochaeris radicata	0.1	6		Е	
Grass & grasslike	Poa labillardierei var. labillardierei	5	100		N	
erassine:	Anthoxanthum odoratum	40	1000		Е	
Grass &	Poa sieberiana	10	300		N	
grasslike Grass & grasslike	Empodisma minus	4	80		N	
	Epacris microphylla	0.2	10		N	
Grass & grasslike	Carex inversa	0.1	5		N	
ELGSSIIKE						

Plot ID:	173	Date:	20-11-17	Survey Name:	Lobs Hole Ravine Track			Recorders:	ED, LH
Zone:	55	Easting:	627162.9974	Plot dimensions:	20m x 50m			Midline bearing:	84
Datum:	GDA94	Northing:	6033833.665	IBRA region:	South Eastern Highlands (Bondo)		Zone ID:		
	Plant Comn	nunity Type:		ubland on scree, blockst onal Park, Australian Al	reams and rocky sites of high altitude areas of ps Bioregion	Confidence:	High	Photo #:	
	Vegetation Class: Alpine Heaths					EEC:	Yes	Confidence:	Low

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	3
	Shrubs:	4
Count of Native	Grasses etc.:	0
Richness	Forbs:	2
	Ferns:	1
	Other:	0
	Trees:	4
	Shrubs:	8.2
Sum of Cover of native	Grasses etc.:	0
vascular plants by growth form group	Forbs:	0.2
	Ferns:	1
	Other:	0
High T	0.1	

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	0	0	0
30 – 49 cm:	0	0	0
20 – 29 cm:	1	0	0
10 – 19 cm:	0	0	0
5 – 9 cm:	0	1	0
< 5 cm:	0	1	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		17	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litte	r cove	r (%)			Bare gr	ound co	over (%)		Crypto	gam co	ver (%)			Roc	k cover	(%)	
Subplot score (% in each):	10	75	5	10	10	0	0	0	0	0	15	0	0	0	0	75	25	85	90	90
Average of the 5 subplots:			22					0					3			73				

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Mountains	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Microrener	
Lithology (A)	Basalt	Soil Surface	Volcanic boulderfield	Soil Colour		Soil Depth	
Lithology (B)		Texture	voicanic boulderneid	3011 Colour		Son Depth	
Slope	Steep	Aspect		Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			
Cultivation (inc. pasture):			
Soil erosion:			
Firewood / CWD removal:			
Grazing (identify native/stock):			
Fire damage:	Light	greater than 10yo	Charred logs
Storm damage:			
Weediness:			
Other:			

Survey Name: Lobs Hole Ravine Track

Date: 20-11-17 Plot ID: 173 Recorders: ED, LH

	To 2 and its annual and annual to form the same Full and its annual and annual and annual and annual and annual and annual annual and annual a					
GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Fern (EG)	Pteridium esculentum	1	25		N	
Forb (FG)	Stellaria pungens	0.1	5		N	
	Rubus fruticosus sp. agg.	0.1	2		HTE	
Shrub (SG)	Indigofera australis	0.2	3		N	
Shrub (SG)	Bedfordia arborescens	2	2	Yes	N	
Shrub (SG)	Cassinia longifolia	5	10		N	
Tree (TG)	Acacia melanoxylon	1	3		N	
Tree (TG)	Acacia dealbata subsp. subalpina	2	5		N	
Tree (TG)	Eucalyptus viminalis	1	1		N	
	Galium aparine	0.1	2	Yes	Е	
Forb (FG)	Geranium solanderi var. solanderi	0.1	3		N	
Shrub (SG)	Polyscias sambucifolia subsp. leptophylla	1	1		N	

Plot ID:	188	Date:	13-12-17	Survey Name:	Lobs Hole Ravine			Recorders:	AM, SW
Zone:	55	Easting:	627887.1793	Plot dimensions:	20m x 50m			Midline bearing:	190
Datum:	GDA94	Northing:	6038242.868	IBRA region:	South Eastern Highlands (Bondo)		Zone ID:		
	Plant Comn	nunity Type:		ox - Broad-leaved Peppe Eastern Highlands Bion	ermint open forest on footslopes, central and egion	Confidence:	Low	Photo #:	
Vegetation Class: Southern Tableland Dry Sclerophyll Forests				rests	EEC:	No	Confidence:	Low	

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values					
	Trees:	1					
	Shrubs:	13					
Count of Native	Grasses etc.:	4					
Richness	Forbs:	5					
	Ferns:	0					
	Other:	1					
	Trees:	35					
	Shrubs:	119					
Sum of Cover of native	Grasses etc.:	10.2					
vascular plants by growth form group	Forbs:	1.4					
	Ferns:	0					
	Other:	0.2					
High T	High Threat Weed cover:						

	BAM Attribute (1000 m2 plot) DBH										
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows								
80 + cm:	0	0	0								
50 – 79 cm:	0	0	0								
30 – 49 cm:	1	0	3								
20 – 29 cm:	1	0	1								
10 – 19 cm:	1	0	0								
5 – 9 cm:	1	0	0								
< 5 cm:	1	0	0								
Length of logs (m) (≥10 cm diameter, >50 cm in length)		48									

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)				Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)			
Subplot score (% in each):	80	80 60 85 90 80				0	15	0	0	0	0 10 0 0 0			0	5 1 1 0 10				
Average of the 5 subplots:		79				3				2					3.4				

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type	Lf Element (A)	Hillslope	Lf Pattern (A)	Mountains	Microrelief	
Wiorphological Type	Lf Element (B)		Lf Pattern (B)		Wildforener	
Lithology (A)	Soil Surface	Loam clay	Soil Colour	Brown	Soil Depth	Skeletal to shallow
Lithology (B)	Texture	Texture		BIOWII	зоп Берип	Skeletal to Shallow
Slope	Aspect	Western	Site Drainage		Distance to nearest water &	
					type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Light	greater than 10yo	
Storm damage:			No evidence
Weediness:			No evidence
Other:			

Survey Name: Lobs Hole Ravine

Date: 13-12-17 Plot ID: 188 Recorders: AM, SW

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus dives	35	20		N	
Shrub (SG)	Banksia canei	60	200		N	
Shrub (SG)	Acacia buxifolia subsp. buxifolia	0.2	3		N	
Other (OG)	Cassytha pubescens	0.2	5		N	
Shrub (SG)	Tetratheca bauerifolia	2	100		N	
Forb (FG)	Gonocarpus teucrioides	1	200		N	
Forb (FG)	Hovea heterophylla	0.1	10		N	
Shrub (SG)	Brachyloma daphnoides	5	50		N	
Shrub (SG)	Leucopogon attenuatus	30	500		N	
Shrub (SG)	Leucopogon virgatus	1	30		N	
Forb (FG)	Boronia nana var. hyssopifolia	0.1	20		N	
Shrub (SG)	Podolobium procumbens	3	50		N	
Shrub (SG)	Mirbelia oxylobioides	5	30		N	
Shrub (SG)	Monotoca scoparia	0.5	10		N	
Grass & grasslike	Poa sieberiana var. sieberiana	5	100		N	
Grass & grasslike	Lomandra filiformis subsp. coriacea	0.1	10		N	
Shrub (SG)	Dillwynia phylicoides	10	100		N	
Shrub (SG)	Hibbertia obtusifolia	0.2	10		N	
Forb (FG)	Stylidium graminifolium	0.1	10		N	
Grass & grasslike	Rytidosperma pallidum	5	50		N	
Shrub (SG)	Calytrix tetragona	2	20		N	
Forb (FG)	Dianella revoluta var. revoluta	0.1	3		N	
Shrub (SG)	Daviesia ulicifolia	0.1	2		N	
Grass & grasslike	Lomandra multiflora subsp. Multiflora	0.1	5		N	
EHRANKE						

Plot ID:	190	Date:	09-01-18	Survey Name:	Lobs Hole Ravine Road north	Recorders:	SD					
Zone:	55	Easting:	627370.4074	Plot dimensions:	20m x 50m Midline bearing:				300			
Datum:	GDA94	Northing:	6044577.778	IBRA region:	South Eastern Highlands (Bondo)	outh Eastern Highlands (Bondo)						
	Plant Comn	nunity Type:		n - peppermint open for Slopes Bioregion	est of the Woomargama to Tumut region, NSW	Confidence:	High	Photo #:				
	Vege	tation Class:	Southern Table	land Dry Sclerophyll For	ests	EEC:	No	Confidence:	High			

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	3
	Shrubs:	11
Count of Native	Grasses etc.:	5
Richness	Forbs:	6
	Ferns:	1
	Other:	2
	Trees:	20
	Shrubs:	29.3
Sum of Cover of native	Grasses etc.:	2.5
vascular plants by growth form group	Forbs:	0.9
	Ferns:	0.1
	Other:	0.6
High T	hreat Weed cover:	0

	BAM Attribute (1000 m2 plot) DBH									
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows							
80 + cm:	0	0	0							
50 – 79 cm:	1	0	2							
30 – 49 cm:	0	0	0							
20 – 29 cm:	0	0	0							
10 – 19 cm:	0	0	0							
5 – 9 cm:	0	0	0							
< 5 cm:	0	0	0							
Length of logs (m) (≥10 cm diameter, >50 cm in length)		4490								

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)				Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each):	90	90 80 80 95 95				0	2	5	5	0	10	10	30	30	15	15	1	10	1	10
Average of the 5 subplots:		88			2.4				19					7.4						

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Mountains	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Which of eller	
Lithology (A)	Sedimentary rock (unidentified)	Soil Surface	Sandy Ioam	Soil Colour	Brown	Soil Depth	Shallow
Lithology (B)		Texture	Salidy Idalii	3011 C01041	BIOWII	зоп Бериі	Shallow
Slope	30	Aspect	North-west	Site Drainage	Good	Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Moderate	greater than 10yo	
Cultivation (inc. pasture):			
Soil erosion:	Moderate	greater than 10yo	
Firewood / CWD removal:			
Grazing (identify native/stock):			
Fire damage:	Light	3 to 10 yo	
Storm damage:			
Weediness:			
Other:			

Survey Name: Lobs Hole Ravine Road north

Date: 09-01-18 Plot ID: 190 Recorders: SD

		ı				
GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus mannifera subsp. mannifera	7	5		N	
Tree (TG)	Eucalyptus dives	3	5		N	
Tree (TG)	Eucalyptus macrorhyncha	10	10		N	
Shrub (SG)	Acacia obliquinervia	10	100		N	
Shrub (SG)	Dillwynia phylicoides	15	200		N	
Other (OG)	Cassytha glabella	0.5	20		N	
Shrub (SG)	Brachyloma daphnoides	1	30		N	
Forb (FG)	Dianella revoluta	0.1	10		N	
Forb (FG)	Poranthera spp.	0.2	30		N	
Forb (FG)	Gonocarpus tetragynus	0.2	30		N	
Forb (FG)	Asperula spp.	0.2	30		N	
Grass & grasslike	Lomandra bracteata	0.1	20		N	
	Cassinia longifolia	0.7	20		N	
Shrub (SG)	Hibbertia obtusifolia	0.5	20		N	
Forb (FG)	Senecio quadridentatus	0.1	1		N	
Grass & grasslike	Rytidosperma pallidum	2	100		N	
Shrub (SG)	Tetratheca bauerifolia	1	200		N	
Shrub (SG)	Persoonia chamaepeuce	0.2	30		N	
Other (OG)	Hardenbergia violacea	0.1	10		N	
Shrub (SG)	Exocarpos strictus	0.1	2		N	
Shrub (SG)	Banksia canei	0.5	2		N	
Grass &	Poa spp.	0.2	20		N	
grasslike Grass & grasslike	Austrostipa scabra	0.1	10		N	
Shrub (SG)	Pimelea linifolia	0.1	10		N	
Shrub (SG)	Leucopogon fletcheri subsp. brevisepalus	0.2	10		N	
Grass & grasslike	Lomandra filiformis subsp. filiformis	0.1	5		N	
Forb (FG)	Stylidium graminifolium	0.1	5		N	
Fern (EG)	Asplenium flabellifolium	0.1	5		N	

Plot ID:	192	Date:	09-01-18	Survey Name:	Lobbs Hole Ravine Road north			Recorders:	SD		
Zone:	55	Easting:	627958.7871	Plot dimensions:	20m x 50m		160				
Datum:	GDA94	Northing:	6045556.519	IBRA region:	South Eastern Highlands (Bondo)			Zone ID:			
	Plant Comn	nunity Type:	open forest on	•	ertsons) Peppermint montane fern - grass tall he upper NSW South Western Slopes Bioregion	Confidence:	High	Photo #:			
	Vege	tation Class:	Southern Table	land Wet Sclerophyll Fo	rests	EEC:	No	Confidence:	High		

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values						
	Trees:	3						
	Shrubs:							
Count of Native								
Richness	12							
	Ferns:	0						
	Other:	3						
	Trees:	25.5						
	Shrubs:	38.8						
Sum of Cover of native	Grasses etc.:	16.5						
vascular plants by growth form group	Forbs:	2.4						
	Ferns:	0						
	Other:	0.4						
High T	High Threat Weed cover:							

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	1	0	0
50 – 79 cm:	3	0	5
30 – 49 cm:	0	0	0
20 – 29 cm:	0	0	0
10 – 19 cm:	0	0	0
5 – 9 cm:	0	0	0
< 5 cm:	0	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		30	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)					Bare ground cover (%)				Cryptogam cover (%)						Rock cover (%)			
Subplot score (% in each):	100	100	00 60 80 95 0			0 0 50 25 1			10 10 20 15 20					0	0	0	95	0		
Average of the 5 subplots:			87				15.2				15					19				

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Mountains	Microrelief	
Worphological Type		Lf Element (B)			Wildioreller		
Lithology (A)	Sedimentary rock (unidentified)	Soil Surface	Clay	Soil Colour	Brown	Soil Depth	Medium
Lithology (B)		Texture	Clay	3011 C01001	BIOWII	зоп Берип	Wediaiii
Slope	30	Aspect	South-east	Site Drainage	Medium	Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Moderate	greater than 10yo	
Cultivation (inc. pasture):			
Soil erosion:	Light	greater than 10yo	
Firewood / CWD removal:			
Grazing (identify native/stock):			
Fire damage:	Light	3 to 10 yo	
Storm damage:			
Weediness:			
Other:			

Survey Name: Lobbs Hole Ravine Road north

Date: 09-01-18 Plot ID: 192 Recorders: SD

Tree Trie							
Tree [TG] Succipitas manifero subsp. manifero S S N Shrub [SG] Orwiesto terifolio 20 S00 N Shrub [SG] Orwiesto terifolio 2 S0 N Shrub [SG] Orwiesto terifolio N	GF Code		Cover	Abund	Voucher	N, E or HTE	Stratum
Shrub (SG) Devices latifolia 20 S00 N Shrub (SG) Geviller or resmanifolial 2 50 N Shrub (SG) devologran fletcheri subsp. brevisepolus 5 200 N Shrub (SG) Sashib caruletera 5 100 N Shrub (SG) Fabry (Malatum montanum 2 100 N Tree (TG) Acocia melanosylan 0.3 30 N Shrub (SG) Olean phibagopapa 0.8 30 N Olean phibagopapa 0.8 30 N Forb (FG) German Phibagopapa 0.8 30 N Forb (FG) Aperulas capana 0.3 20 N Forb (FG) Aperulas capana 0.5 50 N Forb (FG) Aperulas capana 5 500 N Forb (FG) Corrections valued 0.1 10 N Correction (FG) Aperulas capana 5 500 N Forb (FG)	Tree (TG)	Eucalyptus robertsonii	20	10		N	
Strub SG Greville a resmanifolia 2 50 N Strub SG Cession or gletcheri subsp. brevisepalus 5 200 N N Strub SG Cession or culeator 5 10 N N Strub SG Cession or culeator 5 10 N N STrub SG Cession or culeator N STrub SG Cession N STrub SG SG N STrub SG SG SG N STrub SG SG SG N SG SG SG N SG SG	Tree (TG)	Eucalyptus mannifera subsp. mannifera	5	5		N	
Shrub Sci	Shrub (SG)	Daviesia latifolia	20	500		N	
Shrub (SG) Cassinia aculeata 5 10 N Tree (FG) Platylobium montanum 2 100 N Tree (FG) Acocia melanovylon 0.5 5 N Strub (SG) Oleania philogopapa 0.8 30 N Grass & Lorina (SG) Oleania philogopapa 0.3 20 N Forb (FG) Personia chamaepeuce 2 80 N Forb (FG) Asperula scaparia 0.5 50 N Forb (FG) Geranium solanderi 0.1 10 N Forb (FG) Geranium solanderi 0.1 10 N Grass & Lorina var. seberiana 0.2 30 N Forb (FG) Geranium solanderi 0.1 10 N Forb (FG) Geranium solan	Shrub (SG)	Grevillea rosmarinifolia	2	50		N	
Shrub Sci	Shrub (SG)	Leucopogon fletcheri subsp. brevisepalus	5	200		N	
Tree (FG) Acade melanoxylon 0.5 5	Shrub (SG)	Cassinia aculeata	5	10		N	
Shrub Sci Cleans philogopapa 0.8 30 N N Sci	Shrub (SG)	Platylobium montanum	2	100		N	
Brance Command a fill form is subsp. coriacea 0.3 20 N N N	Tree (TG)	Acacia melanoxylon	0.5	5		N	
Personale American Jungerims subsp. contacted 0.3 20 8 8	Shrub (SG)	Olearia phlogopappa	0.8	30		N	
Shrub (SG) Personia chamaepeuce 2 80 N Forb (FG) Asperulus scoparia 0.5 50 N Grass & arascilise Forb (FG) Geranium solanderi 0.1 10 N Forb (FG) Geranium solanderi 0.1 10 N 10 Grass & grassilise Jamandar filiformis subsp. filiformis 0.2 30 N 10 Forb (FG) Podolepis jaceoides 0.3 100 N 10 Forb (FG) Bonocarpus tetragynus 0.2 40 N 10 Forb (FG) Stackhousia manogyna 0.1 1 N 10 Forb (FG) Stackhousia manogyna 0.2 20 N 10 Forb (FG) Stackhousia manogyna 0.1 1 N 10 Forb (FG) Stackhousia manogyna 0.2 20 N 10 Forb (FG) Stackhousia manogyna 0.1 1 N 10 Forb (FG) Banksia canei 0.2<		Lomandra filiformis subsp. coriacea	0.3	20		N	
Forb (FG) Forb		Persoonia chamaepeuce	2	80		N	
Forb (FG Geramium solanderi	Forb (FG)	Asperula scoparia	0.5	50		N	
Forb (FG) Geranium solanderi		Poa sieberiana var. sieberiana	5	500		N	
Grass & Froth (FG) For the content of the conte		Geranium solanderi	0.1	10		N	
Grass & Poa sieberiana var. cyanophylla 10 1000 N Forb (FG) Podolepis Jaceoides 0.3 100 N Forb (FG) Gonocarpus tetragynus 0.2 40 N Forb (FG) Stackhousia monogyna 0.1 1 N Forb (FG) Stellaria pungens 0.2 20 N Shrub (SG) Banksia canei 0.5 8 N Forb (FG) Ranunculus lappaceus 0.2 20 N Shrub (SG) Acacia pravissima 0.1 5 N Centaurium erythraea 0.1 10 E Forb (FG) Galium binifallum 0.2 30 N Forb (FG) Poranthera microphylla 0.2 30 N Other (OG) Clematis aristata 0.1 10 N Other (OG) Givine tabacina 0.2 30 N Shrub (SG) Coprosma quadrifida 0.1 1 N Other (OG) Givine microphylla <t< td=""><td></td><td>Lomandra filiformis subsp. filiformis</td><td>0.2</td><td>30</td><td></td><td>N</td><td></td></t<>		Lomandra filiformis subsp. filiformis	0.2	30		N	
Forb (FG) Podolepis jaceoides 0.3 100 N Forb (FG) Gonocarpus tetragynus 0.2 40 N Forb (FG) Stackhousia monagyna 0.1 1 N Forb (FG) Stellaria pungens 0.2 20 N Shrub (SG) Banksia canel 0.5 8 N Forb (FG) Ranunculus lappaceus 0.2 20 N Shrub (SG) Acacia pravissima 0.1 5 N Centaurium erythraea 0.1 10 E Forb (FG) Gallum binifolium 0.2 30 N Forb (FG) Paranthera microphylla 0.2 30 N Other (OG) Glematis aristata 0.1 10 N Other (OG) Glycine tabacina 0.2 30 N Shrub (SG) Coprosma quadrifida 0.1 1 N Other (OG) Glycine microphylla 0.1 1 N Forb (FG) Veronica derwentiana subsp.	Grass &	Poa sieberiana var. cyanophylla	10	1000		N	
Forb (FG) Stackhousia monogyna 0.1 1 N N Forb (FG) Stellaria pungens 0.2 20 N N Shrub (SG) Banksia canei 0.5 8 N N Forb (FG) Ranunculus lappaceus 0.2 20 N N Shrub (SG) Acacia pravissima 0.1 5 N N Eentaurium erythraea 0.1 10 E Incenturium erythraea Incenturium erythraea N Incenturium erythraea Incenturium e		Podolepis jaceoides	0.3	100		N	
Section Stellaria pungens 0.2 20 N N Shrub SShrub	Forb (FG)	Gonocarpus tetragynus	0.2	40		N	
Shrub (SG) Banksia canei 0.5 8 N Forb (FG) Ranunculus lappaceus 0.2 20 N Shrub (SG) Acacia pravissima 0.1 5 N Centaurium erythraea 0.1 10 E Forb (FG) Gallum binifolium 0.2 30 N Forb (FG) Poranthera microphylla 0.2 30 N Other (OG) Clematis aristata 0.1 10 N Other (OG) Glycine tabacina 0.2 30 N Shrub (SG) Coprosma quadrifida 0.1 1 N Other (OG) Glycine microphylla 0.1 1 N Forb (FG) Veronica derwentiana subsp. derwentiana 0.2 5 N Shrub (SG) Exocarpos strictus 0.2 1 N Grass & grasslike prasslike prasslike 1 20 N Shrub (SG) Cossinia longifolia 1 20 N Shrub (SG) Coprosma hirtella	Forb (FG)	Stackhousia monogyna	0.1	1		N	
Forb (FG) Ranunculus lappaceus 0.2 20 N Shrub (SG) Acacia pravissima 0.1 5 N Centaurium erythraea 0.1 10 E Forb (FG) Galium binifolium 0.2 30 N Forb (FG) Poranthera microphylla 0.2 30 N Other (OG) Clematis aristata 0.1 10 N Other (OG) Glycine tabacina 0.2 30 N Shrub (SG) Coprosma quadrifida 0.1 1 N Other (OG) Glycine microphylla 0.1 1 N Forb (FG) Veronica derwentiana subsp. derwentiana 0.2 5 N Shrub (SG) Exocarpos strictus 0.2 1 N Grass & grasslike arrasslike arrasslike composition 1 20 N Shrub (SG) Coprosma hirtella 0.1 1 N Forb (FG) Viola betonicifolia 0.1 20 N	Forb (FG)	Stellaria pungens	0.2	20		N	
Shrub (SG) Acacia pravissima 0.1 5 N Centaurium erythraea 0.1 10 E Forb (FG) Galium binifolium 0.2 30 N Forb (FG) Poranthera microphylla 0.2 30 N Other (OG) Clematis aristata 0.1 10 N Other (OG) Glycine tabacina 0.2 30 N Shrub (SG) Coprosma quadrifida 0.1 1 N Other (OG) Glycine microphylla 0.1 10 N Forb (FG) Veronica derwentiana subsp. derwentiana 0.2 5 N Shrub (SG) Exocarpos strictus 0.2 1 N Grass & arassilia Lomandra longifolia 1 20 N Shrub (SG) Coprosma hirtella 0.1 1 N Forb (FG) Viola betonicifolia 0.1 20 N	Shrub (SG)	Banksia canei	0.5	8		N	
Centaurium erythraea 0.1 10 E	Forb (FG)	Ranunculus lappaceus	0.2	20		N	
Forb (FG) Galium binifolium 0.2 30 N Forb (FG) Poranthera microphylla 0.2 30 N Other (OG) Clematis aristata 0.1 10 N Other (OG) Glycine tabacina 0.2 30 N Shrub (SG) Coprosma quadrifida 0.1 1 N Other (OG) Glycine microphylla 0.1 10 N Forb (FG) Veronica derwentiana subsp. derwentiana 0.2 5 N Shrub (SG) Exocarpos strictus 0.2 1 N Grass & grasslike Lomandra longifolia 1 20 N Shrub (SG) Cassinia longifolia 1 20 N Shrub (SG) Coprosma hirtella 0.1 1 N Forb (FG) Viola betonicifolia 0.1 20 N	Shrub (SG)	Acacia pravissima	0.1	5		N	
Forb (FG) Poranthera microphylla 0.2 30 N		Centaurium erythraea	0.1	10		Е	
Other (OG) Clematis aristata 0.1 10 N Other (OG) Glycine tabacina 0.2 30 N Shrub (SG) Coprosma quadrifida 0.1 1 N Other (OG) Glycine microphylla 0.1 10 N Forb (FG) Veronica derwentiana subsp. derwentiana 0.2 5 N Shrub (SG) Exocarpos strictus 0.2 1 N Grass & grasslike Lomandra longifolia 1 20 N Shrub (SG) Cassinia longifolia 1 20 N Shrub (SG) Coprosma hirtella 0.1 1 N Forb (FG) Viola betonicifolia 0.1 20 N	Forb (FG)	Galium binifolium	0.2	30		N	
Other (OG) Glycine tabacina 0.2 30 N Shrub (SG) Coprosma quadrifida 0.1 1 N Other (OG) Glycine microphylla 0.1 10 N Forb (FG) Veronica derwentiana subsp. derwentiana 0.2 5 N Shrub (SG) Exocarpos strictus 0.2 1 N Grass & grasslike strasslike Iomandra longifolia 1 20 N Shrub (SG) Cassinia longifolia 1 20 N Shrub (SG) Coprosma hirtella 0.1 1 N Forb (FG) Viola betonicifolia 0.1 20 N	Forb (FG)	Poranthera microphylla	0.2	30		N	
Shrub (SG) Coprosma quadrifida Other (OG) Glycine microphylla Forb (FG) Veronica derwentiana subsp. derwentiana Shrub (SG) Exocarpos strictus Other (OG) Exocarpos strictus Other (OG	Other (OG)	Clematis aristata	0.1	10		N	
Other (OG) Glycine microphylla 0.1 10 N Forb (FG) Veronica derwentiana subsp. derwentiana 0.2 5 N Shrub (SG) Exocarpos strictus 0.2 1 N Grass & grasslike arasslike shrub (SG) Lomandra longifolia 1 20 N Shrub (SG) Cassinia longifolia 1 20 N Shrub (SG) Coprosma hirtella 0.1 1 N Forb (FG) Viola betonicifolia 0.1 20 N	Other (OG)	Glycine tabacina	0.2	30		N	
Forb (FG) Veronica derwentiana subsp. derwentiana 0.2 5 N Shrub (SG) Exocarpos strictus 0.2 1 N N Grass & grasslike Shrub (SG) Cassinia longifolia 1 20 N Shrub (SG) Coprosma hirtella 0.1 1 N Forb (FG) Viola betonicifolia 0.2 1 N N N N N N N N N N N N N	Shrub (SG)	Coprosma quadrifida	0.1	1		N	
Shrub (SG) Exocarpos strictus 0.2 1 N Grass & grasslike spasslike spa	Other (OG)	Glycine microphylla	0.1	10		N	
Grass & grasslike 1 20 N Shrub (SG) Cassinia longifolia 1 20 N Shrub (SG) Coprosma hirtella 0.1 1 N Forb (FG) Viola betonicifolia 0.1 20 N	Forb (FG)	Veronica derwentiana subsp. derwentiana	0.2	5		N	
grasslike 1 20 N Shrub (SG) Cassinia longifolia 1 20 N Shrub (SG) Coprosma hirtella 0.1 1 N Forb (FG) Viola betonicifolia 0.1 20 N	Shrub (SG)	Exocarpos strictus	0.2	1		N	
Shrub (SG) Cassinia longifolia 1 20 N Shrub (SG) Coprosma hirtella 0.1 1 N Forb (FG) Viola betonicifolia 0.1 20 N		Lomandra longifolia	1	20		N	
Forb (FG) Viola betonicifolia 0.1 20 N		Cassinia longifolia	1	20		N	
	Shrub (SG)	Coprosma hirtella	0.1	1		N	
Forb (FG) Viola hederacea 0.1 1 N	Forb (FG)	Viola betonicifolia	0.1	20		N	
	Forb (FG)	Viola hederacea	0.1	1		N	

Plot ID:	194	Date:	12-12-17	Survey Name:	O'Hares Creek Trail			Recorders:	SW, AM		
Zone:	55	Easting:	625172.182	Plot dimensions:	20m x 50m			Midline bearing:			
Datum:	GDA94	Northing:	6036523.662			Zone ID:					
	300: Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern open forest on deep clay loam soils in the upper NSW South Western Slop and western Kosciuszko escarpment						Low	Photo #:			
	Vege	ation Class:	Southern Table	land Wet Sclerophyll Fo	rests	EEC:	No	Confidence:	Low		

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values							
	Trees:	5							
	Shrubs:								
Count of Native									
Richness	21								
	Ferns:								
	Other:	3							
	Trees:	48.3							
	Shrubs:	53.4							
Sum of Cover of native	Grasses etc.:	27.2							
vascular plants by growth form group	Forbs:	3.6							
	Ferns:	25							
	Other:	0.4							
High T	High Threat Weed cover:								

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	1	0	3
30 – 49 cm:	1	0	1
20 – 29 cm:	1	0	0
10 – 19 cm:	1	0	0
5 – 9 cm:	1	0	0
< 5 cm:	0	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		111	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litte	Litter cover (%)				Bare ground cover (%)				Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each):	95	80	80 90 90 60 0				0	0	0	0	0 0 0			0	0	0	0	0	0	0
Average of the 5 subplots:			83				0				0					0				

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A) Hillslope		Lf Pattern (A)	Mountains	Microrelief	
Wiorphological Type		Lf Element (B)		Lf Pattern (B)		Microrener	
Lithology (A)		Soil Surface	Loamy clay	Soil Colour	Brown	Soil Depth	At least 100mm
Lithology (B)		Texture	Loanly clay	Soil Colour	BIOWII	Son Depth	At least 100mm
Slope	15°	Aspect	ESE	Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:	Light	less than 3yo	Some feral pig damage
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Light	greater than 10yo	
Storm damage:			No evidence
Weediness:	Light	less than 3yo	Exotic forbs
Other:			

Survey Name: 0'Hares Creek Trail

Date: 12-12-17 Plot ID: 194 Recorders: SW, AM

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus viminalis	20	5		N	
Tree (TG)	Eucalyptus robertsonii subsp. robertsonii	20	7		N	
Tree (TG)	Eucalyptus dives	7	3		N	
Shrub (SG)	Cassinia longifolia	5	20		N	
Shrub (SG)	Platylobium formosum subsp. formosum	10	100		N	
Forb (FG)	Cymbonotus preissianus	0.1	5		N	
Shrub (SG)	Mirbelia oxylobioides	25	70		N	
Fern (EG)	Pteridium esculentum	25	200		N	
Shrub (SG)	Exocarpos strictus	1	5		N	
Grass &	Anthosachne scabra	5	300		N	
grasslike Grass &	Lomandra longifolia	2	20		N	
grasslike Grass &	Poa tenera	2	100		N	
grasslike						
Forb (FG)	Stellaria pungens	0.2	50		N	
Forb (FG)	Viola betonicifolia	0.1	30		N	
Shrub (SG)	Banksia canei	0.5	8		N	
Forb (FG) Grass &	Plantago varia	1	100		N	
grasslike	Dichelachne rara	5	500		N	
Other (OG)	Glycine clandestina	0.1	50		N	
Forb (FG)	Wahlenbergia stricta subsp. stricta	0.1	20		N	
Forb (FG)	Picris angustifolia subsp. merxmuelleri	0.2	50		N	
Forb (FG)	Hydrocotyle laxiflora	0.2	100		N	
Forb (FG)	Hovea heterophylla	0.1	10		N	
Grass & grasslike	Poa sieberiana var. hirtella	10	100		N	
	Rosa rubiginosa	0.1	2		HTE	
Other (OG)	Hardenbergia violacea	0.2	20		N	
Other (OG)	Cassytha pubescens	0.1	5		N	
Shrub (SG)	Pimelea linifolia subsp. linifolia	0.3	20		N	
Forb (FG)	Geranium solanderi var. solanderi	0.2	50		N	
	Taraxacum officinale	0.1	5		Е	
Forb (FG)	Senecio quadridentatus	0.1	20		N	
	Poranthera microphylla	0.1	20		N	
Forb (FG)	Gonocarpus teucrioides	0.2	200		N	
	Hypochaeris radicata	0.1	20		Е	
Shrub (SG)	Bursaria spinosa	0.3	4		N	
Tree (TG)	Acacia melanoxylon	1	2		N	
Shrub (SG)	Tetratheca bauerifolia	10	500		N	
Forb (FG)	Microtis unifolia	0.1	5		N	
	Hypericum perforatum	2	100		HTE	
Forb (FG)	Pimelea curviflora var. sericea	0.1	20		N	
Forb (FG)	Stylidium graminifolium	0.1	20		N	
1010 (10)	Rubus fruticosus sp. agg.	5	30		HTE	
Chrish (CC)	Gompholobium huegelii	0.2	10		N	
Shrub (SG)			2		N	
Shrub (SG)	Pimelea pauciflora	0.1				
Shrub (SG)	Hibbertia obtusifolia	0.1	5		N	
Shrub (SG) Grass &	Acacia pravissima	0.2	1		N	
grasslike	Lomandra filiformis subsp. coriacea	0.2	20		N	
Forb (FG)	Dianella revoluta var. revoluta	0.1	5		N	

Grass & grasslike	Rytidosperma penicillatum	2	100	N	
Forb (FG)	Oxalis perennans	0.1	10	N	
Forb (FG)	Chrysocephalum semipapposum	0.2	40	N	
	Centaurium erythraea	0.1	20	Е	
Grass & grasslike	Luzula flaccida	0.1	20	N	
Tree (TG)	Acacia dealbata subsp. subalpina	0.3	3	N	
Grass & grasslike	Poa sieberiana var. sieberiana	0.5	50	N	
Shrub (SG)	Leucopogon virgatus	0.1	5	N	
Forb (FG)	Acaena novae-zelandiae	0.1	30	N	
Shrub (SG)	Acrotriche serrulata	0.1	2	N	
Shrub (SG)	Leucopogon attenuatus	0.1	3	N	
Forb (FG)	Senecio gunnii	0.1	10	N	
Shrub (SG)	Cassinia aculeata subsp. aculeata	0.4	2	N	
Forb (FG)	Dichondra repens	0.1	50	N	
Grass & grasslike	Echinopogon ovatus	0.1	10	N	
grasslike Grass & grasslike Grass &	Lachnagrostis filiformis	0.2	20	N	
Grass & grasslike	Lomandra multiflora subsp. Multiflora	0.1	10	N	

Plot ID:	201	Date:	29-11-17	Survey Name:	Port Phillip Trail Tantangara North	ort Phillip Trail Tantangara North					
Zone:	55	Easting:	643221.7613	Plot dimensions:	20m x 50m			Midline bearing:	148		
Datum:	GDA94	Northing:	6048793.201	IBRA region:	Australian Alps (Snowy Mountains)		Zone ID:				
Plant Community Type: 303: Black Sally grassy low woodland in valleys in NSW South Western Slopes Bioregion and wester						Confidence:	Low	Photo #:			
	Vege	tation Class:	Southern Table	land Grassy Woodlands		EEC:	Yes	Confidence:	High		

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values					
	Trees:	1					
	Shrubs:	2					
Count of Native	Grasses etc.:	5					
Richness	Forbs:	20					
	Ferns:	0					
	Other:	0					
	Trees:	2					
	Shrubs:	0.5					
Sum of Cover of native	Grasses etc.:	53.6					
vascular plants by growth form group	Forbs:	2.5					
	Ferns:	0					
	Other:	0					
High T	High Threat Weed cover:						

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	0	0	0
30 – 49 cm:	0	0	0
20 – 29 cm:	0	0	0
10 – 19 cm:	0	0	0
5 – 9 cm:	1	0	0
< 5 cm:	1	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		0	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litte	er cove	r (%)			Bare gr	ound co	over (%)		Crypto	gam co	ver (%)			Rock cover (%)			
Subplot score (% in each):	5	10	15	20	15	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Average of the 5 subplots:		13				0.4			0			0								

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Footslope	Lf Pattern (A)	Low hills	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Microrener	
Lithology (A)	Shale	Soil Surface	Clay loam	Soil Colour	Light brown	Soil Depth	shallow
Lithology (B)		Texture	Clay Ioalli	3011 C01041	Light blown	3011 Deptil	Silallow
Slope	0.05	Aspect	NNW	Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):	Light	less than 3yo	Brumbie and rabbits
Fire damage:	Severe	less than 3yo	
Storm damage:			No evidence
Weediness:	Light	less than 3yo	Pasture weeds
Other:			

Survey Name: Port Phillip Trail Tantangara North

Date: 29-11-17 Plot ID: 201 Recorders: SW, SZD

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus stellulata	2	7		N	
Shrub (SG)	Hakea microcarpa	0.3	1		N	
Forb (FG)	Ranunculus Iappaceus	0.1	50		N	
Forb (FG)	Diuris behrii	0.1	30		N	
Forb (FG)	Scleranthus biflorus	0.2	50		N	
Forb (FG)	Cymbonotus lawsonianus	0.2	50		N	
Forb (FG)	Veronica subtilis	0.1	20		N	
Forb (FG)	Craspedia costiniana	0.3	100		N	
Forb (FG)	Acaena ovina	0.1	20		N	
Forb (FG)	Epilobium gunnianum	0.1	20		N	
Forb (FG)	Rhodanthe anthemoides	0.1	20		N	
Forb (FG)	Leptorhynchos squamatus	0.1	10		N	
Forb (FG)	Senecio pinnatifolius var. alpinus	0.1	5		N	
Grass & grasslike	Poa costiniana	0.5	50		N	
Grass & grasslike	Poa sieberiana var. sieberiana	50	1000		N	
Forb (FG)	Coronidium scorpioides	0.2	50		N	
Shrub (SG)	Pultenaea fasciculata	0.2	50		N	
Forb (FG)	Stylidium graminifolium	0.1	10		N	
Forb (FG)	Asperula scoparia	0.1	30		N	
Grass & grasslike	Themeda triandra	2	200		N	
Grass & grasslike	Poa sieberiana var. cyanophylla	1	50		N	
Forb (FG)	Oreomyrrhis spp.	0.1	2		N	
Forb (FG)	Pterostylis cycnocephala	0.1	3		N	
	Acetosella vulgaris	0.1	10		HTE	
Forb (FG)	Viola betonicifolia	0.1	5		N	
Forb (FG)	Geranium antrorsum	0.1	5		N	
Forb (FG)	Euphrasia collina subsp. diversicolor	0.1	10		N	
	Taraxacum officinale	0.1	5		Е	
Grass & grasslike	Carex breviculmis	0.1	10		N	
Forb (FG)	Erigeron bellidioides	0.1	20		N	

Plot ID:	218	Date:	12-12-17	Survey Name:	Access Roads	ccess Roads				
Zone:	55	Easting:	625998.1173	Plot dimensions:	20m x 50m			Midline bearing:	318	
Datum:	GDA94	Northing:	6038194.426	IBRA region:	South Eastern Highlands (Bondo)		Zone ID:			
				1.5	ermint open forest on footslopes, central and Begion	Confidence:	High	Photo #:		
	Vege	tation Class:	Southern Table	land Dry Sclerophyll For	ests	EEC:		Confidence:		

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	2
	Shrubs:	14
Count of Native	Grasses etc.:	5
Richness	Forbs:	9
	Ferns:	1
	Other:	1
	Trees:	0.2
	Shrubs:	85.6
Sum of Cover of native	Grasses etc.:	3.6
vascular plants by growth form group	Forbs:	3.3
	Ferns:	0.2
	Other:	1
High T	hreat Weed cover:	0.5

	BAM Attribute (1000 m2 plot) DBH										
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows								
80 + cm:	0	0	0								
50 – 79 cm:	0	0	0								
30 – 49 cm:	0	0	0								
20 – 29 cm:	0	0	0								
10 – 19 cm:	1	0	0								
5 – 9 cm:	1	0	0								
< 5 cm:	1	0	0								
Length of logs (m) (≥10 cm diameter, >50 cm in length)		0									

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)			Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)					
Subplot score (% in each):	40	40 10 10 10 30				25	25	35	10	15	0	0	0	20	4	10	10	4	4	4
Average of the 5 subplots:	20			22			4.8					6.4								

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)		Lf Pattern (A)	Hills	Microrelief	
Widipilological Type		Lf Element (B)		Lf Pattern (B)		Wildioreller	
Lithology (A)		Soil Surface	Silty clay	Soil Colour	Red	Soil Depth	Shallow
Lithology (B)		Texture	Sifty clay	3011 C01041	neu	зоп Берит	Silaliow
Slope	20	Aspect	ENE	Site Drainage	Good	Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Severe	greater than 10yo	Historical. Single age class no old trees in adjacent community.
Cultivation (inc. pasture):			No evidence
Soil erosion:	Moderate	3 to 10 yo	Asssociated with removal of overstorey and also access road adjacent.
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):	Light		Native and exotic herbivores
Fire damage:	Light	3 to 10 yo	Burnt logs
Storm damage:			No evidence
Weediness:	Light	less than 3yo	Roadside weeds
Other:	Moderate	3 to 10 yo	Clearing associated with power line corridor.

Survey Name: Access Roads

Date: 12-12-17 Plot ID: 218 Recorders: SD, EL

GF Code Top 3 native species in each growth for All other native and exotic species: Full Shrub (SG) Acacia buxifolia Shrub (SG) Calytrix tetragona Shrub (SG) Leucopogon attenuatus Shrub (SG) Acacia pravissima Shrub (SG) Banksia canei	rm group: Full species name mandatory I species name where practicable	Cover 1 70	Abund 20	Voucher	N, E or HTE	Stratum
Shrub (SG) Calytrix tetragona Shrub (SG) Leucopogon attenuatus Shrub (SG) Acacia pravissima			20			
Shrub (SG) Leucopogon attenuatus Shrub (SG) Acacia pravissima		70			N	
Shrub (SG) Acacia pravissima		70	1000		N	
` '		1	30		N	
Shrub (SG) Banksia canei		2	20		N	
		0.1	3		N	
Other (OG) Cassytha glabella		1	50		N	
Hypericum perforatum		0.5	30		HTE	
Tree (TG) Eucalyptus nortonii		0.1	1		N	
Grass & Rytidosperma caespitosum		1	200		N	
Forb (FG) Stylidium graminifolium		0.5	100		N	
Rubus anglocandicans		0.5	10		Е	
Tree (TG) Eucalyptus dives		0.1	1		N	
Shrub (SG) Cassinia longifolia		0.5	5		N	
Centaurium erythraea		0.5	100		Е	
Shrub (SG) Brachyloma daphnoides		5	100		N	
Grass & Lomandra filiformis subsp. coriacea		2	50		N	
Grass & Poa spp.		0.2	20		N	
Forb (FG) Hypericum gramineum		0.2	30		N	
Grass & Anthosachne scabra		0.2	30		N	
Forb (FG) Oxalis perennans		0.1	10		N	
Shrub (SG) Mirbelia oxylobioides		3	30		N	
Conyza canadensis var. canadensis		0.1	2		Е	
Forb (FG) Hydrocotyle laxiflora		1	200		N	
Forb (FG) Euchiton sphaericus		0.1	10		N	
Forb (FG) Acaena novae-zelandiae		0.1	5		N	
Aira elegantissima		0.2	50		Е	
Shrub (SG) Monotoca scoparia		0.5	2		N	
Grass & Lomandra bracteata		0.2	20		N	
Shrub (SG) Pimelea linifolia		0.1	10		N	
Forb (FG) Gonocarpus teucrioides		0.2	20		N	
Fern (EG) Cheilanthes sieberi		0.2	20		N	
Shrub (SG) Bursaria spinosa		2	10		N	
Forb (FG) Dianella revoluta		1	30		N	
Shrub (SG) Hibbertia obtusifolia		0.2	10		N	
Forb (FG) Microtis unifolia		0.1	1		N	
Shrub (SG) Podolobium alpestre		0.1	2		N	
Hypochaeris radicata		0.1	2		Е	
Shrub (SG) Pimelea glauca		0.1	1		N	

Plot ID:	1007	Date:	16-03-18	Survey Name:	X7	(7						
Zone:	55	Easting:	626074.9424	Plot dimensions:	20m x 20m Midline bearing:				182			
Datum:	GDA94	Northing:	6038950.364	IBRA region:	South Eastern Highlands (Bondo)	outh Eastern Highlands (Bondo)						
	Plant Comn	nunity Type:		nd wetland of the NSW	d-leaved Sally woodland - tea-tree - bottlebrush South Western Slopes Bioregion and South	Photo #:						
	Vege	tation Class:	Upper Riverina	Dry Sclerophyll Forests		EEC:	Yes	Confidence:				

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	1
	Shrubs:	4
Count of Native	Grasses etc.:	6
Richness	Forbs:	0
	Ferns:	0
	Other:	0
	Trees:	1
	Shrubs:	81.3
Sum of Cover of native	Grasses etc.:	5.4
vascular plants by growth form group	Forbs:	0
	Ferns:	0
	Other:	0
High T	hreat Weed cover:	10.1

	BAM Attribute (1000 m2 plot) DBH										
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows								
80 + cm:	0	0	0								
50 – 79 cm:	0	0	0								
30 – 49 cm:	0	0	0								
20 – 29 cm:	5	0	0								
10 – 19 cm:	9	0	0								
5 – 9 cm:	2	0	0								
< 5 cm:	0	0	0								
Length of logs (m) (≥10 cm diameter, >50 cm in length)		2									

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)				Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each):	95	95 60 85 90 100				5	30	15	10	0	0	15	5	0	0	0	0	0	0	0
Average of the 5 subplots:		86				12				4					0					

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Valley flat	Lf Pattern (A)	Plain	Microrelief	
Widipilological Type		Lf Element (B)		Lf Pattern (B)		Wildioreller	
Lithology (A)	Clay	Soil Surface	Smooth soil covered	Soil Colour	Orange-brown	Soil Depth	Shallow -moderate
Lithology (B)		Texture	by grass	3011 Colour	Orange-brown	Soil Deptil	Shallow -moderate
Slope	Slight upslope along midline (5°)	Aspect	182°S	Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Severe	greater than 10yo	Adjacent to unsealed track and remains of building
Cultivation (inc. pasture):			
Soil erosion:			
Firewood / CWD removal:			
Grazing (identify native/stock):			
Fire damage:			
Storm damage:			
Weediness:	Severe	greater than 10yo	
Other:			

 Survey Name:
 X7

 Date:
 16-03-18
 Plot ID:
 1007
 Recorders:
 JA, ACM

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus camphora	1	6		N	
Shrub (SG)	Acacia pravissima	80	1000		N	
Shrub (SG)	Bursaria spinosa	1	3		N	
	Rosa rubiginosa	0.1	2		HTE	
	Rubus fruticosus sp. agg.	6	12		HTE	
	Hypericum perforatum	4	200		HTE	
Grass & grasslike	Carex incomitata	1	21		N	
E GOOTHIC	Centaurium erythraea	0.1	50		Е	
Grass &	Rytidosperma penicillatum	0.1	5		N	
grasslike Grass & grasslike	Dichelachne spp.	0.1	15		N	
Grass &	Carex breviculmis	0.1	50		N	
grasslike Grass &	Lomandra spp.	0.1	15		N	
grasslike Grass & grasslike	Themeda triandra	4	300		N	
Shrub (SG)	Brachyloma daphnoides	0.1	1		N	
Shrub (SG)	Grevillea rosmarinifolia	0.2	1		N	

Plot ID:	1015	Date:	15-03-18	Survey Name:	Lobs Hole Ravine			Recorders:	AM, CK
Zone:	55	Easting:	628253.5021	Plot dimensions:	Midline bearing:	105			
Datum:	GDA94	Northing:	6038816.712	IBRA region:	Zone ID:				
	Plant Community Type: 311: Red Stringybark - Broad-leaved Peppermint - Nortons Box heath open forest the upper slopes subregion in the NSW South Western Slopes Bioregion and adjo South Eastern Highlands Bioregion						High	Photo #:	
	Vege	tation Class:	Upper Riverina		EEC:	No	Confidence:	High	

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values						
	Trees:	3						
	Shrubs:	15						
Count of Native	Grasses etc.:	6						
Richness	Forbs:	3						
	Ferns:	0						
	Other:	4						
	Trees:	32						
	Shrubs:	94.3						
Sum of Cover of native	Grasses etc.:	9.2						
vascular plants by growth form group	Forbs:	0.4						
	Ferns:	0						
	Other:	0.4						
High T	High Threat Weed cover:							

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	1	0	0
30 – 49 cm:	10	0	0
20 – 29 cm:	1	0	1
10 – 19 cm:	1	0	0
5 – 9 cm:	1	0	0
< 5 cm:	1	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		31	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litte	Litter cover (%)				Bare ground cover (%)				Cryptogam cover (%)						Rock cover (%)			
Subplot score (% in each):	95	90 90 95 65 1				1	2	5	1	30	0	0	0	0	0	1	0	0	0	0
Average of the 5 subplots:			87					7.8			0					0.2				

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Mountains	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Microrener	
Lithology (A)		Soil Surface	Silty clay	Soil Colour	Light brown	Soil Depth	
Lithology (B)		Texture	Sifty clay	3011 Colour	Light blown	Son Depth	
Slope	5	Aspect	NE	Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Moderate	greater than 10yo	
Storm damage:			No evidence
Weediness:			no weeds
Other:			

Survey Name: Lobs Hole Ravine

Date: 15-03-18 Plot ID: 1015 Recorders: AM, CK

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus dives	15	10		N	
Tree (TG)	Eucalyptus nortonii	7	5		N	
Tree (TG)	Eucalyptus macrorhyncha	10	8		N	
Shrub (SG)	Banksia canei	30	200		N	
Shrub (SG)	Mirbelia oxylobioides	35	200		N	
Shrub (SG)	Platylobium formosum	22	80		N	
Shrub (SG)	Pomaderris subcapitata	0.5	10		N	
Shrub (SG)	Podolobium procumbens	1	30		N	
Grass & grasslike	Lomandra filiformis subsp. coriacea	2	100		N	
Other (OG)	Hardenbergia violacea	0.1	5		N	
Forb (FG)	Dianella revoluta var. revoluta	0.2	30		N	
Grass &	Dichelachne rara	0.1	10		N	
grasslike Grass & grasslike	Rytidosperma pallidum	1	30		N	
Shrub (SG)	Tetratheca bauerifolia	1	50		N	
Grass & grasslike	Lomandra longifolia	1	20		N	
Shrub (SG)	Hibbertia obtusifolia	0.2	10		N	
Forb (FG)	Gonocarpus tetragynus	0.1	20		N	
Other (OG)	Billardiera scandens	0.1	5		N	
Shrub (SG)	Persoonia chamaepeuce	0.1	5		N	
Forb (FG)	Hovea heterophylla	0.1	10		N	
Shrub (SG)	Monotoca scoparia	0.3	5		N	
Shrub (SG)	Leucopogon virgatus	0.1	10		N	
Grass & grasslike	Poa sieberiana var. hirtella	5	100		N	
Shrub (SG)	Acacia pravissima	3	20		N	
Shrub (SG)	Cassinia longifolia	0.5	5		N	
Shrub (SG)	Choretrum pauciflorum	0.2	3		N	
Shrub (SG)	Leucopogon attenuatus	0.2	5		N	
Shrub (SG)	Correa lawrenceana var. rosea	0.2	5		N	
Grass & grasslike	Lepidosperma laterale	0.1	2		N	
Other (OG)	Cassytha pubescens	0.1	10		N	
Other (OG)	Glycine clandestina	0.1	3		N	

Plot ID:	1018	Date:	20-03-18	Survey Name:	Lobs Hole			Recorders:	AM, CK
Zone:	55	Easting:	627137.3172	Plot dimensions:	Midline bearing:	330			
Datum:	GDA94	Northing:	6037934.516	IBRA region:	Zone ID:				
	Plant Comn	nunity Type:		nd wetland of the NSW	d-leaved Sally woodland - tea-tree - bottlebrush South Western Slopes Bioregion and South	Confidence:	High	Photo #:	
	Vege	tation Class:	EEC:	No	Confidence:	High			

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values					
	Trees:	3					
	Shrubs:	8					
Count of Native							
Richness	Richness Forbs:						
	Ferns:	0					
	Other:	0					
	Trees:	47					
	Shrubs:	6.2					
Sum of Cover of native	Grasses etc.:	61.4					
vascular plants by growth form group	Forbs:	0.1					
	Ferns:	0					
	Other:	0					
High T	High Threat Weed cover:						

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	1	0	0
30 – 49 cm:	1	0	0
20 – 29 cm:	1	0	0
10 – 19 cm:	1	0	0
5 – 9 cm:	1	0	0
< 5 cm:	1	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		54	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)					Bare ground cover (%)				Cryptogam cover (%)						Rock cover (%)			
Subplot score (% in each):	93	85 70 80 70 0				0	0	0 0 0		0	0 0 0 0 0			0	0	0	0	0	0	
Average of the 5 subplots:			79.6					0			0					0				

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Valley flat	Lf Pattern (A)	Mountains	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Wildforener	
Lithology (A)		Soil Surface	Clay loam	Soil Colour		Call Bank	
Lithology (B)		Texture	Clay Idaili	3011 Colour		Soil Depth	
Slope	2	Aspect	NW	Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Moderate	greater than 10yo	Historical clearing
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Light	greater than 10yo	
Storm damage:			No evidence
Weediness:	Moderate		
Other:			

Survey Name: Lobs Hole

Date: 20-03-18 Plot ID: 1018 Recorders: AM, CK

			,	•		
GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus viminalis	35	20		N	
Tree (TG)	Acacia dealbata	4	8		N	
Shrub (SG)	Acacia pravissima	3	10		N	
Tree (TG)	Acacia melanoxylon	8	6		N	
Shrub (SG)	Cassinia longifolia	1	3		N	
Shrub (SG)	Gynatrix pulchella	0.1	1		N	
Grass & grasslike	Poa helmsii	60	500		N	
grassiike	Rubus fruticosus sp. agg.	25	100		HTE	
Shrub (SG)	Dodonaea viscosa subsp. angustissima	0.1	2		N	
Grass & grasslike	Dichelachne inaequiglumis	0.2	50		N	
Shrub (SG)	Exocarpos strictus	0.2	3		N	
	Cirsium vulgare	0.2	30		Е	
	Centaurium erythraea	0.1	20		Е	
	Hypericum perforatum	0.2	20		HTE	
	Rosa rubiginosa	0.3	10		HTE	
Forb (FG)	Geranium solanderi var. solanderi	0.1	30		N	
Shrub (SG)	Rubus parvifolius	0.5	50		N	
Grass &	Rytidosperma penicillatum	0.1	30		N	
grasslike Grass & grasslike	Anthosachne scabra	0.2	50		N	
	Melicytus dentatus	0.5	2		N	
	Asparagus officinalis	0.3	3		Е	
	Hypericum androsaemum	0.1	3		Е	
Grass & grasslike	Lachnagrostis filiformis	0.5	50		N	
Shrub (SG)	Cassinia aculeata	0.8	2		N	
Grass & grasslike	Microlaena stipoides var. stipoides	0.1	10		N	
Grasslike grasslike	Carex incomitata	0.3	30		N	
RIASSIIKE						

Plot ID:	1019	Date:	16-03-18	Survey Name:	Lobs Hole Ravine		Recorders:	AM, CK	
Zone:	55	Easting:	627362.9423	Plot dimensions:	20m x 50m			Midline bearing:	281
Datum:	GDA94	Northing:	6032066.195	IBRA region:	Australian Alps (Snowy Mountains)	Zone ID:			
	Plant Community Type: 1196: Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion					Confidence:	High	Photo #:	
	Vegetation Class: Subalpine Woodlands				EEC:	No	Confidence:	High	

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	3
	Shrubs:	10
Count of Native Richness	Grasses etc.:	5
	Forbs:	19
	Ferns:	0
	Other:	2
	Trees:	65
	Shrubs:	13.4
Sum of Cover of native	Grasses etc.:	62.7
vascular plants by growth form group	Forbs:	27.1
	Ferns:	0
	Other:	1.2
High T	hreat Weed cover:	0

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	2	0	1
50 – 79 cm:	3	0	2
30 – 49 cm:	1	0	0
20 – 29 cm:	1	0	0
10 – 19 cm:	1	0	0
5 – 9 cm:	1	0	0
< 5 cm:	1	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		48	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)			Bare ground cover (%)			Cryptogam cover (%)				Rock cover (%)							
Subplot score (% in each):	65	65 75 85 85 70		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average of the 5 subplots:	76				0				0				0					

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Mountains	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Wildforener	
Lithology (A)		Soil Surface	Loam	Soil Colour		Call Bank	
Lithology (B)		Texture	LOAIII	3011 Colour		Soil Depth	
Slope	3	Aspect	W	Site Drainage		Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Light	greater than 10yo	
Storm damage:			No evidence
Weediness:	Light		
Other:			

Survey Name: Lobs Hole Ravine

Date: 16-03-18 Plot ID: 1019 Recorders: AM, CK

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus dalrympleana	10	4		N	
Tree (TG)	Eucalyptus pauciflora	40	40		N	
Tree (TG)	Acacia dealbata subsp. subalpina	15	30		N	
Shrub (SG)	Acacia obliquinervia	3	20		N	
Shrub (SG)	Cassinia aculeata	3	10		N	
Shrub (SG)	Lomatia myricoides	3	10		N	
Shrub (SG)	Platylobium formosum	2	80		N	
Grass & grasslike	Poa sieberiana var. sieberiana	60	1000		N	
Shrub (SG)	Acacia pravissima	1	8		N	
Forb (FG)	Asperula scoparia	20	10000		N	
Other (OG)	Glycine clandestina	1	500		N	
Forb (FG)	Geranium potentilloides	0.1	50		N	
Other (OG)	Clematis aristata	0.2	100		N	
	Dactylis glomerata	0.5	30		Е	
Forb (FG)	Arthropodium milleflorum	0.2	50		N	
Grass &	Dichelachne hirtella	0.2	100		N	
grasslike Forb (FG)	Wahlenbergia stricta subsp. stricta	0.1	50		N	
Forb (FG)	Lobelia gibbosa	0.1	10		N	
Forb (FG)	Ranunculus lappaceus	0.1	20		N	
Forb (FG)	Coronidium monticola	0.2	50		N	
Forb (FG)	Acaena novae-zelandiae	5	1000		N	
Forb (FG)	Veronica calycina	0.2	50		N	
Forb (FG)	Picris angustifolia	0.1	20		N	
. ,	Trifolium repens	0.1	20		E	
Grass &	Anthosachne scabra	0.3	50		N	
grasslike Grass &	Lomandra longifolia	2	50		N	
grasslike Forb (FG)	Stackhousia monogyna	0.1	5		N	
Shrub (SG)	Olearia erubescens	0.1	2		N	
Grass &	Lomandra filiformis subsp. coriacea	0.2	30		N	
grasslike Forb (FG)	Brachyscome spathulata	0.1	30		N	
Forb (FG)	Cullen microcephalum	0.1	3		N	
Shrub (SG)	Daviesia ulicifolia	0.7	20		N	
Forb (FG)	Viola betonicifolia	0.1	100		N	
Forb (FG)	Stellaria pungens	0.2	200		N	
Shrub (SG)	Coprosma hirtella	0.3	10		N	
Forb (FG)	Epilobium billardierianum subsp. Cinereum	0.1	10		N	
Forb (FG)	Senecio gunnii	0.1	5		N	
Shrub (SG)	Pimelea curviflora	0.1	2		N	
Forb (FG)	Dianella tasmanica	0.1	5		N	
Forb (FG)	Bulbine bulbosa	0.1	20		N	
	Leucopogon gelidus	0.1	5		N	
Shrub (SG)	Leutopogon genuus	0.2	3		14	

Plot ID:	1043	Date:	15-03-18	Survey Name:	Talbingo		Recorders:	AMu, AMo	
Zone:	55	Easting:	625081.4636	Plot dimensions:	20m x 50m			Midline bearing:	59
Datum:	GDA94	Northing:	6039931.079	IBRA region:	South Eastern Highlands (Bondo)	Zone ID:			
	Plant Community Type: 1191: Snow Gum - Candle Bark woodland on broad valley flats of the tablelands and slopes, South Eastern Highlands Bioregion					Confidence:	Medium	Photo #:	
Vegetation Class: Subalpine Woodlands					EEC:	No	Confidence:	Medium	

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	2
	Shrubs:	7
Count of Native	Grasses etc.:	8
Richness	Forbs:	10
	Ferns:	0
	Other:	1
	Trees:	21
	Shrubs:	54.3
Sum of Cover of native	Grasses etc.:	11.8
vascular plants by growth form group	Forbs:	1
	Ferns:	0
	Other:	0.1
High T	hreat Weed cover:	3.1

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	0	0	0
30 – 49 cm:	3	0	0
20 – 29 cm:	4	0	0
10 – 19 cm:	8	0	0
5 – 9 cm:	1	0	0
< 5 cm:	0	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		7	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)			Bare ground cover (%)				Cryptogam cover (%)						Rock cover (%)				
Subplot score (% in each):	95	95 25 60 5 70			5	2	40	2	15	5	99	5	95	20	0	0	0	0	0
Average of the 5 subplots:		51			12.8			44.8					0						

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Mountains	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Wildforener	
Lithology (A)		Soil Surface	Silty clay	Soil Colour	Light brown	Soil Depth	
Lithology (B)		Texture	Sifty clay	3011 Colour	Light blown	Son Depth	
Slope	5-10 degrees	Aspect	North-east	Site Drainage		Distance to nearest water &	
	· ·			3		type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Severe	greater than 10yo	Relatively young regenerating trees
Cultivation (inc. pasture):			No evidence
Soil erosion:	Light	less than 3yo	Small areas of bare soil
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):	Light		
Fire damage:	Light	greater than 10yo	
Storm damage:			No evidence
Weediness:	Moderate		Exotic grasses and forbs
Other:			

Survey Name: Talbingo

Date: 15-03-18 Plot ID: 1043 Recorders: AMu, AMo

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus rubida	6	10		N	
Tree (TG)	Eucalyptus pauciflora	15	20		N	
Shrub (SG)	Acacia pravissima	50	100		N	
Shrub (SG)	Cryptandra amara	1	20		N	
Shrub (SG)	Exocarpos strictus	2	10		N	
Grass & grasslike	Rytidosperma penicillatum	5	500		N	
Shrub (SG)	Gompholobium huegelii	0.5	10		N	
	Hypericum perforatum	3	300		HTE	
	Trifolium arvense	0.1	50		Е	
Forb (FG)	Veronica calycina	0.1	50		N	
	Petrorhagia nanteuilli	0.1	50		Е	
	Centaurium erythraea	0.1	100		Е	
Grass & grasslike	Carex breviculmis	0.2	50		N	
Shrub (SG)	Hibbertia obtusifolia	0.2	30		N	
	Aira elegantissima	1	1000		Е	
Grass & grasslike	Dichelachne rara	0.3	100		N	
Forb (FG)	Acaena ovina	0.1	30		N	
Grass & grasslike	Anthosachne scabra	0.5	200		N	
Grass & grasslike	Poa sieberiana var. cyanophylla	5	500		N	
Grass & grasslike	Lomandra filiformis subsp. coriacea	0.2	40		N	
Forb (FG)	Stellaria pungens	0.1	100		N	
Forb (FG)	Senecio quadridentatus	0.1	5		N	
Forb (FG)	Hypericum gramineum	0.1	30		N	
Grass & grasslike	Poa sieberiana var. hirtella	0.5	50		N	
Forb (FG)	Dichondra repens	0.1	100		N	
Forb (FG)	Daucus glochidiatus	0.1	10		N	
Forb (FG)	Gonocarpus tetragynus	0.1	10		N	
Forb (FG)	Euchiton japonicus	0.1	5		N	
Other (OG)	Glycine clandestina	0.1	3		N	
Shrub (SG)	Grevillea arenaria subsp. canescens	0.4	5		N	
Grass & grasslike	Luzula flaccida	0.1	20		N	
Shrub (SG)	Brachyloma daphnoides	0.2	5		N	
Forb (FG)	Stylidium graminifolium	0.1	2		N	
	Vulpia bromoides	5	1000		E	
	Rosa rubiginosa	0.1	1		HTE	

Plot ID:	2084	Date:	31-01-19	Survey Name:	Lobs Hole Ravine			Recorders:	SW, KM			
Zone:	55	Easting:	625304.0394	Plot dimensions:	20m x 50m Midline beari				ns: 20m x 50m		Midline bearing:	155
Datum:	GDA94	Northing:	6039603.223	IBRA region:	South Eastern Highlands (Bondo)			Zone ID:				
	Plant Comn				bark shrubby open forest of montane areas, egion and South East Corner Bioregion	Confidence:	High	Photo #:				
	Vege	ation Class:	Southern Table	land Dry Sclerophyll For	ests	EEC:	No	Confidence:	Medium			

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	3
	Shrubs:	8
Count of Native	8	
Richness	2	
	Ferns:	1
	Other:	0
	Trees:	50
	Shrubs:	146
Sum of Cover of native	Grasses etc.:	24
vascular plants by growth form group	Forbs:	3
	Ferns:	1
	0	
High T	5	

	DAM Attribut	o (1000 m2 mlot) DBH	
	BAIVI Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	0	0	0
30 – 49 cm:	2	0	0
20 – 29 cm:	1	0	0
10 – 19 cm:	1	0	0
5 – 9 cm:	1	0	0
< 5 cm:	0	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		111	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)			Bare ground cover (%)				Cryptogam cover (%)						Rock cover (%)				
Subplot score (% in each):	25	25 15 5 20 70			10	10	10	5	5	15	1	1	1	0	5	2	3	3	1
Average of the 5 subplots:		27			8			3.6					2.8						

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Low hills	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Wildforener	
Lithology (A)		Soil Surface	Medium grained	Soil Colour	Dark orange-brown	Soil Depth	At least 30cm
Lithology (B)		Texture	ivieululii grailieu	3011 Colour	Dark Grange-brown	3011 Deptil	At least Sociii
Slope	10	Aspect	W	Site Drainage	Good drainage	Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Moderate	3 to 10 yo	Eucalyptus trunks show old burn marks, some conifers completly burnt
Storm damage:	Light	less than 3yo	Broken Eucalyptus branch, high winds recorded during previous two days
Weediness:	Moderate	less than 3yo	St Johns Wort present in plot
Other:			

Survey Name: Lobs Hole Ravine

Date: 31-01-19 Plot ID: 2084 Recorders: SW, KM

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus rubida	20	4		N	
Tree (TG)	Eucalyptus dives	25	8		N	
Shrub (SG)	Bursaria spinosa	2	3		N	
Shrub (SG)	Grevillea arenaria subsp. canescens	30	60		N	
Shrub (SG)	Calytrix tetragona	40	100		N	
Shrub (SG)	Brachyloma daphnoides	10	20		N	
Grass & grasslike	Themeda triandra	5	50		N	
EIGSJIKE	Hypericum perforatum	5	100		HTE	
Grass &	Lomandra filiformis	4	150		N	
grasslike Grass & grasslike	Dichelachne micrantha	4	50		N	
Forb (FG)	Oxalis perennans	1	10		N	
	Centaurium erythraea	1	20		E	
Shrub (SG)	Tetratheca thymifolia	1	30		N	
Grass &	Poa sieberiana	1	50		N	
grasslike Grass & grasslike	Lomandra longifolia	5	10		N	
Shrub (SG)	Dillwynia sericea	1	15		N	
Grass &	Carex appressa	1	5		N	
grasslike Grass &	Rytidosperma spp.	2	50		N	
grasslike Grass & grasslike	Dichelachne hirtella	2	10		N	
Fern (EG)	Cheilanthes sieberi	1	30		N	
Forb (FG)	Galium gaudichaudii	2	30		N	
	Trifolium arvense	1	1		Е	
Shrub (SG)	Leucopogon attenuatus	60	1000		N	
Tree (TG)	Eucalyptus mannifera	5	1		N	
Shrub (SG)	Acacia saliciformis	2	1		N	

Plot ID:	2119	Date:	31-01-19	Survey Name:	Lower Lobs Hole Ravine Road		Recorders:	SW, KM				
Zone:	55	Easting:	626681.907	Plot dimensions:	20m x 50m	0m x 50m						
Datum:	GDA94	Northing:	6036779.516	IBRA region:	South Eastern Highlands (Bondo)	outh Eastern Highlands (Bondo)						
	Plant Community Type: 300: Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall plant Community Type: open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregio and western Kosciuszko escarpment						High	Photo #:				
Vegetation Class: Southern Tableland Wet Sclerophyl					rests	Confidence:	Medium					

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	Sum values	
	Trees:	2
	Shrubs:	3
Count of Native	Grasses etc.:	6
Richness	Forbs:	8
	Ferns:	0
	Other:	0
	Trees:	65
	Shrubs:	41
Sum of Cover of native	Grasses etc.:	107
vascular plants by growth form group	Forbs:	16
	Ferns:	0
	Other:	0
High T	15	

BAM Attribute (1000 m2 plot) DBH										
DBH	Stem count (euc)	Stem count (euc) Stem count (non-euc)								
80 + cm:	1	0	0							
50 – 79 cm:	0	0	0							
30 – 49 cm:	0	0	0							
20 – 29 cm:	0	0	0							
10 – 19 cm:	1	0	0							
5 – 9 cm:	0	0	0							
< 5 cm:	1	0	0							
Length of logs (m) (≥10 cm diameter, >50 cm in length)		3								

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litte	er cove	r (%)			Bare gr	ound co	over (%)		Crypto	gam co	ver (%)			Roc	k cover	(%)	
Subplot score (% in each):	2	80	15	20	10	1	2	20	10	0	0	1	1	0	0	0	1	2	3	0
Average of the 5 subplots:	ubplots: 25.4				6.6				0.4					1.2						

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Hills	Microrelief	
Worphological Type		Lf Element (B)			Microrener		
Lithology (A)	Alluvial loams and clays	Soil Surface	Fine grained	Soil Colour	Pale light brown	Soil Depth	At least 50cm
Lithology (B)		Texture	rille grailleu	3011 Coloui		3011 Deptil	At least Sociii
Slope	30	Aspect	N	Site Drainage	Good drainage	Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Moderate	greater than 10yo	Some burnt trunks
Storm damage:			No evidence
Weediness:	Severe	less than 3yo	St Johns Wort and Blackberry present within plot
Other:			

GF Code: see Growth Form definitions in Appendix 1; N: native, E: exotic, HTE: high threat exotic; GF – circle code if 'top 3'; Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ... 100% [foliage cover] Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m Abundance: 1, 2, 3, ..., 10, 20, 30, ... 100, 200, ..., 1000, 200,

Survey Name: Lower Lobs Hole Ravine Road

Date: 31-01-19 Plot ID: 2119 Recorders: SW, KM

						,
GF Code	Top 3 native species in each growth form group: Full species All other native and exotic species: Full species name where	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus viminalis	10	5		N	
Tree (TG)	Acacia dealbata subsp. dealbata	55	60		N	
Shrub (SG)	Exocarpos strictus	35	100		N	
	Rubus anglocandicans	25	30		Е	
	Rosa rubiginosa	10	15		HTE	
Shrub (SG)	Pultenaea fasciculata	5	50		N	
Forb (FG)	Chrysocephalum semipapposum	2	200		N	
	Hypericum perforatum	5	500		HTE	
Grass & grasslike	Rytidosperma erianthum	60	3000		N	
Forb (FG)	Wahlenbergia communis	2	100		N	
Forb (FG)	Picris angustifolia	1	20		N	
Grass & grasslike	Dichelachne rara	30	1000		N	
EIGSSINC	Verbascum virgatum	1	30		Е	
Forb (FG)	Geranium solanderi	5	100		N	
	Tragopogon dubius	3	10		Е	
	Centaurium erythraea	4	100		Е	
Forb (FG)	Oxalis spp.	1	200		N	
	Trifolium arvense	5	50		Е	
	Conyza spp.	2	10		Е	
	Petrorhagia nanteuilii	1	20		Е	
Grass & grasslike	Themeda triandra	4	100		N	
Forb (FG)	Oxalis perennans	2	200		N	
Forb (FG)	Acaena ovina	2	50		N	
Grass & grasslike	Microlaena stipoides	5	300		N	
Forb (FG)	Galium gaudichaudii	1	50		N	
Grass & grasslike	Panicum effusum	3	100		N	
Shrub (SG)	Cassinia aculeata	1	1		N	
Grass & grasslike	Poa induta	5	20		N	

BAM Site – Field Survey Form

Plot ID:	2166	Date:	15-11-18	Survey Name:	Marica Firetrail			Recorders:	JS, SW					
Zone:	55	Easting:	630057.8919	Plot dimensions:	20m x 50m	Midline bearing:	196							
Datum:	GDA94	Northing:	6039371.587	IBRA region:	South Eastern Highlands (Bondo)	th Eastern Highlands (Bondo)								
	Plant Comn	nunity Type:			d-leaved Peppermint shrubby open forest of ids Bioregion and Australian Alps Bioregion	Confidence:	Medium	Photo #:						
	Vege	ation Class:	Southern Table	land Dry Sclerophyll For	ests	EEC:	No	Confidence:	Medium					

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values						
	Trees:	3						
	Shrubs:							
Count of Native								
Richness	Richness Forbs:							
	Ferns:	0						
	Other:	2						
	Trees:	19.2						
	Shrubs:	18.1						
Sum of Cover of native vascular plants by	Grasses etc.:	7.1						
growth form group	Forbs:	1.9						
	Ferns:	0						
	0.5							
High T	hreat Weed cover:	0						

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	1	0	1
50 – 79 cm:	2	0	2
30 – 49 cm:	8	0	0
20 – 29 cm:	1	0	1
10 – 19 cm:	1	0	0
5 – 9 cm:	1	0	0
< 5 cm:	1	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		66	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litter cover (%)					Bare ground cover (%)				Cryptogam cover (%)						Rock cover (%)			
Subplot score (% in each):	90	80	80 95 90 85 0				85 0 0 0 0		0	0	0 0 0 0				0	0	0	0	0	
Average of the 5 subplots:			88					0			0					0				

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Mountains	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Wildforener	
Lithology (A)		Soil Surface	Loam	Soil Colour	Brown	Soil Depth	At least 50mm
Lithology (B)		Texture	LOAIII	3011 Colour	BIOWII	3011 Deptil	At least 3011111
Slope	20	Aspect	WNW	Site Drainage	Good	Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Light	greater than 10yo	
Storm damage:			No evidence
Weediness:			No evidence
Other:			

Severity: 0=no evidence, 1=light, 2=moderate, 3=severe

GF Code: see Growth Form definitions in Appendix 1; N: native, E: exotic, HTE: high threat exotic; GF – circle code if 'top 3'; Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ... 100% [foliage cover] Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m Abundance: 1, 2, 3, ..., 10, 20, 30, ... 100, 200, ..., 1000, 200,

Survey Name: Marica Firetrail

Date: 15-11-18 Plot ID: 2166 Recorders: JS, SW

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus dives	15	30		N	
Tree (TG)	Eucalyptus macrorhyncha	4	7		N	
Shrub (SG)	Daviesia latifolia	8	500		N	
Shrub (SG)	Platylobium formosum	1	100		N	
Shrub (SG)	Leucopogon fletcheri subsp. brevisepalus	5	500		N	
Shrub (SG)	Monotoca scoparia	1	50		N	
Grass & grasslike	Lomandra multiflora subsp. multiflora	0.4	100		N	
Grass & grasslike	Lomandra filiformis subsp. coriacea	0.4	500		N	
Forb (FG)	Dianella revoluta	0.3	100		N	
Grass & grasslike	Poa sieberiana var. sieberiana	3	500		N	
Grass & grasslike	Poa sieberiana var. cyanophylla	3	500		N	
Shrub (SG)	Pimelea linifolia subsp. linifolia	0.2	20		N	
Shrub (SG)	Persoonia chamaepeuce	0.1	5		N	
Other (OG)	Cassytha pubescens	0.4	100		N	
Shrub (SG)	Tetratheca bauerifolia	0.5	500		N	
Forb (FG)	Gonocarpus tetragynus	0.5	500		N	
Forb (FG)	Stylidium graminifolium	0.2	50		N	
Shrub (SG)	Leucopogon virgatus	0.7	100		N	
Shrub (SG)	Hibbertia obtusifolia	0.3	50		N	
Forb (FG)	Brachyscome aculeata	0.1	20		N	
Forb (FG)	Craspedia jamesii	0.1	7		N	
Forb (FG)	Calochilus robertsonii	0.1	1		N	
Other (OG)	Hardenbergia violacea	0.1	1		N	
Forb (FG)	Hovea heterophylla	0.1	4		N	
Shrub (SG)	Omphacomeria acerba	0.1	7		N	
Forb (FG)	Pterostylis longifolia	0.1	3		N	
Shrub (SG)	Astrotricha ledifolia	0.1	4		N	
Shrub (SG)	Daviesia ulicifolia subsp. ruscifolia	0.1	1		N	
Grass & grasslike	Rytidosperma pallidum	0.2	20		N	
	Grevillea neurophylla	0.2	20		N	
Forb (FG)	Stackhousia monogyna	0.1	5		N	
Grass & grasslike	Lomandra longifolia	0.1	20		N	
Forb (FG)	Senecio gunnii	0.1	1		N	
Shrub (SG)	Acacia falciformis	0.3	10		N	
Tree (TG)	Eucalyptus dalrympleana subsp. dalrympleana	0.2	2		N	
Forb (FG)	Caladenia congesta	0.1	3		N	
Shrub (SG)	Dillwynia phylicoides	0.2	1		N	
Forb (FG)	Thelymitra pauciflora	0.1	1		N	
Shrub (SG)	Mirbelia oxylobioides	0.2	7		N	
Shrub (SG)	Acrotriche serrulata	0.1	2		N	

BAM Site – Field Survey Form

Plot ID:	3005	Date:	03-02-19	Survey Name:	Lobs Hole Ravine			Recorders:	SW, KM
Zone:	55	Easting:	624666.8469	Plot dimensions:	20m x 50m	Midline bearing:	125		
Datum:	GDA94	Northing:	6040619.943	IBRA region:	South Eastern Highlands (Bondo)		Zone ID:		
	Plant Comn				bark shrubby open forest of montane areas, egion and South East Corner Bioregion	Confidence:	High	Photo #:	
	Vege	ation Class:	Southern Table	land Dry Sclerophyll For	ests	EEC:	No	Confidence:	Medium

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values						
	Trees:	2						
	Shrubs:	13						
Count of Native								
Richness								
	Ferns:	0						
	Other:	1						
	Trees:	58						
	Shrubs:	182						
Sum of Cover of native	Grasses etc.:	40						
vascular plants by growth form group	Forbs:	6						
	Ferns:	0						
	Other:	4						
High T	hreat Weed cover:	0						

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	0	0	0
30 – 49 cm:	0	0	0
20 – 29 cm:	1	0	0
10 – 19 cm:	1	0	0
5 – 9 cm:	1	0	0
< 5 cm:	1	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		6	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litte	Litter cover (%)				Bare ground cover (%)				Cryptogam cover (%)						Rock cover (%)				
Subplot score (% in each):	30	25	25 25 20 60 3				3	5	5 2 1 1		1 0 1 1 1					0 0 0 5			2		
Average of the 5 subplots:			32				2.8				0.8					1.4					

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Hills	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Microrener	
Lithology (A)		Soil Surface	Medium-course	Soil Colour	Deep brown-mauve	Cail Danth	At least 30cm
Lithology (B)		Texture	grained	Soil Colour	Deep brown-mauve	Soil Depth	At least sociii
Slope	40	Aspect	S	Site Drainage	Good drainage	Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):			No evidence
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Light	greater than 10yo	Some burnt trunks and stumps
Storm damage:	Moderate	less than 3yo	At least 2 fallen Eucalytus trees
Weediness:			No evidence
Other:			

Severity: 0=no evidence, 1=light, 2=moderate, 3=severe

GF Code: see Growth Form definitions in Appendix 1; N: native, E: exotic, HTE: high threat exotic; GF – circle code if 'top 3'; Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ... 100% [foliage cover] Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m Abundance: 1, 2, 3, ..., 10, 20, 30, ... 100, 200, ..., 1000, 200,

Survey Name: Lobs Hole Ravine

Date: 03-02-19 Plot ID: 3005 Recorders: SW, KM

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus dives	55	30	No	N	
Tree (TG)	Eucalyptus mannifera	3	1	No	N	
Shrub (SG)	Leucopogon attenuatus	80	1000	No	N	
Shrub (SG)	Leucopogon virgatus	20	200	No	N	
Shrub (SG)	Grevillea arenaria subsp. Canescens	10	10	No	N	
	Kunzea muelleri	40	1000	No	N	
Grass & grasslike	Poa sieberiana	20	500	No	N	
Shrub (SG)	Dodonaea viscosa subsp. Angustissima	5	50	No	N	
Shrub (SG)	Epacris celata	5	100	No	N	
Shrub (SG)	Tetratheca thymifolia	2	200	No	N	
Forb (FG)	Gonocarpus tetragynus	2	200	No	N	
Shrub (SG)	Pimelea linifolia subsp. linifolia	3	50	No	N	
Shrub (SG)	Acacia pravissima	5	10	No	N	
Shrub (SG)	Hibbertia obtusifolia	5	20	No	N	
Grass & grasslike	Poa sieberiana var. cyanophylla	20	300	No	N	
Other (OG)	Cassytha pubescens	4	10	No	N	
Forb (FG)	Stellaria pungens	1	20	No	N	
Forb (FG)	Stylidium graminifolium	3	20	No	N	
Shrub (SG)	Acacia gunnii	3	10	No	N	
Shrub (SG)	Brachyloma daphnoides	3	30	No	N	
Shrub (SG)	Bursaria spinosa	1	1	No	N	

BAM Site – Field Survey Form

Plot ID:	3076	Date:	05-02-19	Survey Name:	Lobs Hole Ravine			Recorders:	SW, KM
Zone:	55	Easting:	626305.6539	Plot dimensions:	20m x 50m			Midline bearing:	250
Datum:	GDA94	Northing:	6039139.16	IBRA region:	South Eastern Highlands (Bondo)	Zone ID:			
	Plant Community Type: 296: Brittle Gum - peppermint open forest of the Woomargama to Tumut re South Western Slopes Bioregion				est of the Woomargama to Tumut region, NSW	Confidence:	High	Photo #:	
	Vegetation Class: Southern Tableland Dry Sclerophyll Forests					EEC:	No	Confidence:	Medium

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	3
	Shrubs:	16
Count of Native	Grasses etc.:	5
Richness	Forbs:	5
	Ferns:	0
	Other:	2
	Trees:	54
	Shrubs:	184
Sum of Cover of native	Grasses etc.:	41
vascular plants by growth form group	Forbs:	8
	Ferns:	0
	Other:	7
High T	hreat Weed cover:	0

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	0	0	0
30 – 49 cm:	5	0	0
20 – 29 cm:	1	0	1
10 – 19 cm:	1	0	0
5 – 9 cm:	1	0	0
< 5 cm:	1	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		22	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)			Bare gr	e ground cover (%)			Cryptogam cover (%)				Rock cover (%)								
Subplot score (% in each):	85	90	90	85	80	5	5	10	5	5	1	0	2	1	2	0	0	0	1	0
Average of the 5 subplots:	86				6			1.2				0.2								

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Footslope	Lf Pattern (A)	Low hills	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Microrener	
Lithology (A)		Soil Surface	Medium-fine grained	Soil Colour	Dark orange-brown	Soil Depth	At least 30cm
Lithology (B)		Texture	wedium-ime grameu	Soil Colour	Dark Grange-brown	3011 Deptil	At least sociii
Slope	<5	Aspect	275	Site Drainage	Moderate drainage	Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Moderate	less than 3yo	Plot adjacent to road
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):			No evidence
Fire damage:	Moderate	greater than 10yo	Some trees have burn marks from trunk to crown
Storm damage:	Severe	3 to 10 yo	At least 7 fallen Eucalyptus or Banksia, most leaves browned off
Weediness:			No evidence
Other:			

Severity: 0=no evidence, 1=light, 2=moderate, 3=severe

GF Code: see Growth Form definitions in Appendix 1; N: native, E: exotic, HTE: high threat exotic; GF – circle code if 'top 3'; Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ... 100% [foliage cover] Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m Abundance: 1, 2, 3, ..., 10, 20, 30, ... 100, 200, ..., 1000, 200,

Survey Name: Lobs Hole Ravine

Date: 05-02-19 Plot ID: 3076 Recorders: SW, KM

		1	•			
GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus dives	40	12	No	N	
Tree (TG)	Eucalyptus mannifera	10	3	No	N	
Shrub (SG)	Acacia pravissima	20	50	No	N	
Shrub (SG)	Epacris celata	15	50	No	N	
Shrub (SG)	Acacia saliciformis	10	20	No	N	
Shrub (SG)	Daviesia ulicifolia	10	50	No	N	
Shrub (SG)	Banksia canei	60	200	No	N	
Grass & grasslike	Lomandra longifolia	10	50	No	N	
ETUSSIIKC	Polypogon spp.	10	50	No	Е	
Shrub (SG)	Hibbertia linearis	5	100	No	N	
Forb (FG)	Gonocarpus tetragynus	1	200	No	N	
Forb (FG)	Stellaria pungens	4	100	No	N	
Shrub (SG)	Brachyloma daphnoides	10	50	No	N	
Grass &	Lomandra filiformis	5	50	No	N	
grasslike Grass & grasslike	Poa spp.	20	200	No	N	
Shrub (SG)	Acacia gunnii	1	20	No	N	
Shrub (SG)	Tetratheca thymifolia	1	300	No	N	
Grass & grasslike	Carex appressa	1	10	No	N	
Tree (TG)	Acacia dealbata	4	5	No	N	
Grass & grasslike	Entolasia stricta	5	20	No	N	
Shrub (SG)	Leucopogon ericoides	3	50	No	N	
Shrub (SG)	Leucopogon virgatus	3	40	No	N	
Forb (FG)	Brachyscome decipiens	1	1	No	N	
Shrub (SG)	Pimelea linifolia	5	50	No	N	
Shrub (SG)	Mirbelia oxylobioides	31	100	No	N	
Other (OG)	Cassytha spp.	5	20	No	N	
Forb (FG)	Senecio quadridentatus	1	1	No	N	
Shrub (SG)	Exocarpos strictus	5	10	No	N	
Other (OG)	Billardiera scandens	2	1	No	N	
Forb (FG)	Boronia nana var. hyssopifolia	1	1	No	N	
Shrub (SG)	Monotoca scoparia	3	20	No	N	
Shrub (SG)	Hovea montana	2	10	No	N	

BAM Site – Field Survey Form

Plot ID:	3177	Date:	04-02-19	Survey Name:	Lobs Hole Ravine			Recorders:	SW, KM
Zone:	55	Easting:	625074.1738	Plot dimensions:	20m x 50m			Midline bearing:	318
Datum:	GDA94	Northing:	6040197.698	IBRA region:	South Eastern Highlands (Bondo)	Zone ID:			
	Plant Community Type: 729: Broad-leaved Peppermint - Candlebark shrubby open forest of montane areas, southern South Eastern Highlands Bioregion and South East Corner Bioregion					Confidence:	High	Photo #:	
	Vegetation Class: Southern Tableland Dry Sclerophyll Forests					EEC:	No	Confidence:	Medium

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (4	00 m2 plot)	Sum values
	Trees:	3
	Shrubs:	7
Count of Native	Grasses etc.:	7
Richness	Forbs:	7
	Ferns:	0
	Other:	1
	Trees:	13
	Shrubs:	181
Sum of Cover of native	Grasses etc.:	95
vascular plants by growth form group	Forbs:	22
	Ferns:	0
	Other:	1
High T	hreat Weed cover:	3

	BAM Attribut	e (1000 m2 plot) DBH	
DBH	Stem count (euc)	Stem count (non-euc)	Stems with Hollows
80 + cm:	0	0	0
50 – 79 cm:	0	0	0
30 – 49 cm:	0	0	0
20 – 29 cm:	0	0	0
10 – 19 cm:	0	0	0
5 – 9 cm:	1	0	0
< 5 cm:	1	0	0
Length of logs (m) (≥10 cm diameter, >50 cm in length)		0	

Counts apply when the number of tree stems within a size class is \leq 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living. For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)		Litte	r cove	r (%)			Bare gr	ound co	over (%)		Crypto	gam co	ver (%)			Roc	k cover	(%)	
Subplot score (% in each):	10	10	5	20	20	3	0	25	10	25	5	0	0	5	0	0	0	0	5	3
Average of the 5 subplots:			13					12.6					2					1.6		

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Lf Element (A)	Hillslope	Lf Pattern (A)	Low hills	Microrelief	
Worphological Type		Lf Element (B)		Lf Pattern (B)		Which of eller	
Lithology (A)	Alluvial loams and clays	Soil Surface	Medium-fine grained	Soil Colour	Dark brown	Soil Depth	At least 30cm
Lithology (B)		Texture	Medidin-ille grained	3011 Colour	Dark blowii	3011 Deptil	At least sociii
Slope	20	Aspect	NW	Site Drainage	Good drainage	Distance to nearest water & type	

Plot Disturbance	Severity code	Age code	Observational evidence
Clearing (inc. logging):	Severe	3 to 10 yo	Derived grassland under power easement. Close to boatramp in Lobs Hole, extensive clearing in surrounding an
Cultivation (inc. pasture):			No evidence
Soil erosion:			No evidence
Firewood / CWD removal:			No evidence
Grazing (identify native/stock):	Light	less than 3yo	Rabbit scats present
Fire damage:	Light	3 to 10 yo	Some burnt logs present
Storm damage:			No evidence
Weediness:	Severe	less than 3yo	Blackberry, St Johns Wort and Centorium erthyum present in plot
Other:			

Severity: 0=no evidence, 1=light, 2=moderate, 3=severe

GF Code: see Growth Form definitions in Appendix 1; N: native, E: exotic, HTE: high threat exotic; GF – circle code if 'top 3'; Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ... 100% [foliage cover] Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m Abundance: 1, 2, 3, ..., 10, 20, 30, ... 100, 200, ..., 1000, 200,

Survey Name: Lobs Hole Ravine

Date: 04-02-19 Plot ID: 3177 Recorders: SW, KM

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	Cover	Abund	Voucher	N, E or HTE	Stratum
Tree (TG)	Eucalyptus rubida	10	5	No	N	
Shrub (SG)	Bursaria spinosa	40	30	No	N	
Shrub (SG)	Acacia pravissima	50	100	No	N	
Tree (TG)	Callitris endlicheri	1	1	No	N	
Shrub (SG)	Bossiaea foliosa	70	300	No	N	
Grass & grasslike	Themeda triandra	50	2000	No	N	
	Brachyloma daphnoides	10	50	No	N	
Shrub (SG)	Pimelea linifolia	5	200	No	N	
Forb (FG)	Pimelea curviflora var. sericea	2	50	No	N	
	Hypericum perforatum	1	200	No	HTE	
Grass & grasslike	Carex appressa	5	20	No	N	
Other (OG)	Glycine clandestina	1	1	No	N	
Grass & grasslike	Rytidosperma spp.	2	50	No	N	
Forb (FG)	Gonocarpus tetragynus	2	200	No	N	
Forb (FG)	Ranunculus lappaceus	3	50	No	N	
	Centaurium erythraea	10	200	No	Е	
Grass & grasslike	Dichelachne rara	10	200	No	N	
E112.1.1111C	Taraxacum officinale	1	1	No	Е	
Forb (FG)	Oxalis perennans	5	100	No	N	
Grass & grasslike	Anthosachne scabra	1	20	No	N	
Shrub (SG)	Tetratheca thymifolia	1	20	No	N	
	Rosa rubiginosa	2	1	No	HTE	
	Rubus anglocandicans	20	50	No	Е	
Grass & grasslike	Poa sieberiana	25	500	No	N	
Forb (FG)	Acaena ovina	5	200	No	N	
Grass & grasslike	Lomandra multiflora subsp. Multiflora	2	10	No	N	
Tree (TG)	Eucalyptus robertsonii	2	1	No	N	
Forb (FG)	Chrysocephalum semipapposum	1	50	No	N	
Forb (FG)	Ranunculus collinus	4	20	No	N	
	Centaurium erythraea	3	50	No	E	
Shrub (SG)	Exocarpos strictus	5	5	No	N	

Appendix B

Vegetation integrity assessment – plot data

Table B.1 Vegetation integrity plot data

plot	zone	easting	northing	bearing)	compTree	compShrub	compGrass	compEorbs		compFerns	compOther	strucTree	strucShrub	strucGrass	strucForbs	strucFerns	ctrucOther	finlargeTrees		tunHollowtrees	funLitterCover	funLenFallenLogs	funTreeStem5to9	;	funTreeStem10to19	funTreeStem20to29	funTreeStem30to49	funTreeStem50to79	finTrooRogon	fun High Threat Exotic
190	55	627370	6044578	300	3	11	5	5	6	1	2		20.0	29.3	2.5	0.9	0.1	0.6	1	2	88		4490. 0 0		0	0	0		1	0	0.0
3076	55	626306	6039139	250	3	16	5	5	5	0	2		54.0	184.0	41.0	8.0	0.0	7.0	0	1	86	.0	22.0 1		1	1	1	(0	1	0.0
76	55	625308	6039767	160	3	13	1	10	18	0	3		30.7	21.2	6.3	9.3	0.0	0.3	0	1	42	.0	28.0 0		0	0	1		1	0	0.2
76	55	625308	6039767	160	3	13	1	10	18	0	3		30.7	21.2	6.3	9.3	0.0	0.3	0	1	42	.0	28.0 0		0	0	1		1	0	0.2
192	55	627959	6045557	160	3	13	5	5	12	0	3		25.5	38.8	16.5	2.4	0.0	0.4	1	5	87	.0	30.0 0		0	0	0		1	0	0.0
192	55	627959	6045557	160	3	13	5	5	12	0	3		25.5	38.8	16.5	2.4	0.0	0.4	1	5	87	.0	30.0 0		0	0	0		1	0	0.0
2119	55	626682	6036780	350	2	3	6	<u>.</u>	8	0	0		65.0	41.0	107.0	16.0	0.0	0.0	1	0	25	.4	3.0 0		1	0	0		0	1	15.0
2119	55	626682	6036780	350	2	3	6	5	8	0	0		65.0	41.0	107.0	16.0	0.0	0.0	1	0	25	.4	3.0 0		1	0	0		0	1	15.0
194	55	625172	6036524	180	5	16	1	12	21	1	3		48.3	53.4	27.2	3.6	25.0	0.4	0	4	83	.0	111.0 1		1	1	1		1	0	7.1
1018	55	627137	6037935	330	3	8	7	7	1	0	0		47.0	6.2	61.4	0.1	0.0	0.0	1	0	79	.6	54.0 1		1	1	1		1	1	25.5
97	55	627961	6038787	20	2	14	8	3	4	0	0		30.0	43.6	14.6	0.4	0.0	0.0	2	2	90	.0	65.0 1		1	1	1		1	1	75.5
88	55	625982	6039029	204	0	0	3	3	3	0	1		0.0	0.0	62.1	0.3	0.0	0.1	0	0	13	.0	0.0 1		1	0	0		0	1	21.1
108	55	626424	6038732	308	3	6	6	ŝ	5	0	0		43.0	65.6	21.4	0.6	0.0	0.0	1	1	69	.0	23.0 1		1	1	1		0	1	7.2
143	55	627654	6038149	20	2	13	5	5	7	1	1		35.0	132.7	20.5	0.8	0.6	0.1	1	0	50	.0	12.0 1		1	1	1		1	1	16.3
1007	55	626075	6038950	182	1	4	6	5	0	0	0		1.0	81.3	5.4	0.0	0.0	0.0	0	0	86	.0	2.0 1		1	1	0	(0	0	10.1
201	55	643222	6048793	148	1	2	5	5	20	0	0		2.0	0.5	53.6	2.5	0.0	0.0	0	0	13	.0	0.0 1		0	0	0	(0	1	0.1
1015	55	628254	6038817	105	3	15	6	 6	3	0	4		32.0	94.3	9.2	0.4	0.0	0.4	1	1	87	.0	31.0 1		1	1	1		1	1	0.0
173	55	627163	6033834	84	3	4	()	2	1	0		4.0	8.2	0.0	0.2	1.0	0.0	0	0	22	.0	17.0 1		0	1	0	(0	1	0.1

Table B.1 Vegetation integrity plot data

plot	zone	easting	northing	bearing	1	compTree	compShrub	compGrass	compForbs	CompEerns)	compOther	strucTree	strucShrub	strucGrass	strucForbs	strucFerns	rod+Courts		funLargeTrees	funHollowtrees	funLitterCover	funLenFallenLogs		funTreeStem5to9	funTreeStem10to19	funTreeStem20to29	funTreeStem30to49	funTreeStem50to79	funTreeRegen	funHighThreatExotic
3177	55	625074	6040198	318	3	7	7	7	,	0	1		13.0	181.0	95.0	22.0	0.0	1.0	0	0		13.0	0.0	1	0	0	0	0		1	3.0
2084	55	625304	6039603	155	3	8	8	2	2	1	0		50.0	146.0	24.0	3.0	1.0	0.0	0	0		27.0	111.0	1	1	1	1	0		0	5.0
3005	55	624667	6040620	125	2	13	2	3	3	0	1		58.0	182.0	40.0	6.0	0.0	4.0	0	0		32.0	6.0	1	1	1	0	0		1	0.0
188	55	627887	6038243	190	1	13	4	5	5	0	1		35.0	119.0	10.2	1.4	0.0	0.2	0	4		79.0	48.0	1	1	1	1	0		1	0.0
218	55	625998	6038194	318	2	14	5	9)	1	1		0.2	85.6	3.6	3.3	0.2	1.0	0	0		20.0	0.0	1	1	0	0	0		1	0.5
1043	55	625081	6039931	59	2	7	8	1	.0	0	1		21.0	54.3	11.8	1.0	0.0	0.1	0	0		51.0	7.0	1	1	1	1	0		0	3.1
1019	55	627363	6032066	281	3	10	5	1	.9	0	2		65.0	13.4	62.7	27.1	0.0	1.2	5	3		76.0	48.0	1	1	1	1	1		1	0.0
1019	55	627363	6032066	281	3	10	5	1	.9	0	2		65.0	13.4	62.7	27.1	0.0	1.2	5	3		76.0	48.0	1	1	1	1	1		1	0.0
164	55	649063	6037391	117	1	3	8	5	;	0	0		2.0	27.2	23.5	2.1	0.0	0.0	0	0		9.0	0.0	1	1	1	0	0		1	0.7
2166	55	630058	6039372	196	3	17	6	1	.2	0	2		19.2	18.1	7.1	1.9	0.0	0.5	3	4		88.0	66.0	1	1	1	1	1		1	0.0
2166	55	630058	6039372	196	3	17	6	1	.2	0	2		19.2	18.1	7.1	1.9	0.0	0.5	3	4		88.0	66.0	1	1	1	1	1		1	0.0

Appendix C

Fauna survey effort summary

Table C.1 Fauna survey effort

Survey type	Site name	Location	Surveyors	Start date	End date	Start time	End time	Total effort
Bird surveys	Lobs Hole Ravine		LH	05-12-17	05-12-17	9:40	10:40	1:00
Bird surveys	Lobs Hole Ravine		GM	05-12-17	05-12-17	9:50	10:50	1:00
Bird surveys	Wallace Creek		GM & LH	05-12-17	05-12-17	12:15	13:15	1:00
Bird surveys	Lobs Hole		DJ & AR	21-01-18	21-01-18	14:40	15:40	1:00
Bird surveys	Lobs Hole		DJ & AR	21-01-18	21-01-18	16:40	17:40	1:00
Bird surveys	Lobs Hole Ravine		GM & CK	07-02-18	07-02-18	7:25	8:25	1:00
Bird surveys	Lobs Hole Ravine		GM & CK	07-02-18	07-02-18	9:45	10:45	1:00
Bird surveys	Talbingo	BS1	GD & DK	16-10-18	16-10-18	8:08	9:08	1:00
Bird surveys	Talbingo	BS2	GD & DK	16-10-18	16-10-18	9:36	10:37	1:01
Bird surveys	Talbingo	BS3	GD & DK	16-10-18	16-10-18	10:48	11:48	1:00
Bird surveys	Talbingo	BS4	GD & DK	16-10-18	16-10-18	12:44	13:44	1:00
Bird surveys	Talbingo	BS5	GD & DK	16-10-18	16-10-18	13:52	14:52	1:00
Bird surveys	Lobs Hole Ravine rd	BS13	CK, BR	04-11-18	04-11-18	13:16	14:20	1:04
Bird surveys	Lobs Hole Ravine rd	BS14	BR, CK, JB	05-11-18	05-11-18	10:45	13:39	2:54
Bird surveys	Lobs Hole Ravine rd	BS10	JB, DJ	29-11-18	29-11-18	10:55	11:40	0:45
Bird surveys	Lobs Hole Ravine rd	BS11	JB, DJ	29-11-18	29-11-18	8:26	9:30	1:04
Bird surveys	Lobs Hole Ravine rd	BS12	JB, DJ	29-11-18	29-11-18	9:40	10:29	0:49
Bird surveys	Lobs Hole Ravine rd	BS13	JB, DJ	29-11-18	29-11-18	14:11	15:34	1:23
Bird surveys	Lobs Hole Ravine rd	BS11	EL, AR	15-01-19	15-01-19	17:40	19:00	1:20
Bird surveys	Lobs Hole Ravine rd	BS12	AS, BR	15-01-19	15-01-19	17:45	18:45	1:00
Bird surveys	Lobs Hole Ravine rd	BS9	EL, AR	16-01-19	16-01-19	12:18	13:20	1:02
Bird surveys	Lobs Hole Ravine rd	BS10	AS, BR	16-01-19	16-01-19	12:30	13:45	1:15
Bird surveys	Lobs Hole Ravine rd	BS13	BR, AS	16-01-19	16-01-19	9:07	11:07	2:00
Bird surveys	Lobs Hole Ravine rd	BS14	EL, AR	16-01-19	16-01-19	9:21	11:25	2:04

Table C.1 Fauna survey effort

Survey type	Site name	Location	Surveyors	Start date	End date	Start time	End time	Total effort
Bird surveys	Lobs Hole Ravine rd	BS14	CK, IC	20-01-19	20-01-19	14:20	15:40	1:20
Bird surveys	Lobs Hole Ravine rd	BS11	JW, GS	05-02-19	05-02-19	17:01	17:37	0:36
Bird surveys	Lobs Hole Ravine rd	BS12	JW, GS	05-02-19	05-02-19	16:11	16:55	0:44
Bird surveys	Lobs Hole Ravine rd	BS10	JB, DF	14-02-19	14-02-19	13:52	14:52	1:00
Bird surveys	Lobs Hole Ravine rd	BS27	CW, DK	12-04-19	12-04-19	10:50	11:50	1:00
Owl surveys	Lobs Hole Ravine	LHRR1	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR2	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR3	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR4	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR5	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR6	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR7	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR8	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR9	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR10	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR11	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR12	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR13	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR14	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR15	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR16	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR17	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR18	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR19	JB & DK	07-05-18	20-06-19			8

Table C.1 Fauna survey effort

Survey type	Site name	Location	Surveyors	Start date	End date	Start time	End time	Total effort
Owl surveys	Lobs Hole Ravine	LHRR20	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR21	JB & DK	07-05-18	20-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR22	JB & DK	16-06-19	26-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR23	JB & DK	16-06-19	26-06-19			8
Owl surveys	Lobs Hole Ravine	LHRR24	JB & DK	16-06-19	26-06-19			8
Arboreal trapping	Lobs Hole Ravine	TA02	GM & LH	04-12-17	08-12-17			4
Arboreal trapping	Lobs Hole	TAT01	NG & ED	12-12-17	16-12-17			4
Arboreal trapping	Talbingo Reservoir (south of boat ramp)	TAT02	SW, DJ & KS	17-03-18	22-03-18			4
Arboreal trapping	Lobs Hole Ravine Road	TAT06	NG & ED	12-12-17	16-12-17			4
Arboreal trapping	Yarrangobilly River	TAT08	SW, DJ & KS	17-03-18	22-03-18			4
Arboreal trapping	Link Rd	TAT09	SW, DJ & KS	17-03-18	22-03-18			4
Arboreal trapping	Lobs Hole Ravine rd	TT-10	CK, GM	14-10-18	18-10-18			4
Arboreal trapping	Lobs Hole Ravine rd	TT-11	CK, GM	14-10-18	18-10-18			4
Arboreal trapping	Lobs Hole Ravine rd	TT-12	CK, GM	14-10-18	18-10-18			4
Arboreal trapping	Lobs Hole Ravine rd	TT-5	DJ, KS	12-10-18	16-10-18			4
Arboreal trapping	Lobs Hole Ravine rd	TT-6	DJ, KS	12-10-18	16-10-18			4
Arboreal trapping	Lobs Hole Ravine rd	TT-7	DJ, KS	12-10-18	16-10-18			4
Arboreal trapping	Lobs Hole Ravine rd	TT-8	DJ, KS	12-10-18	16-10-18			4
Arboreal trapping	Lobs Hole Ravine rd	TT-9	JB, AS	16-03-19	20-03-19			4
Arboreal trapping	Talbingo Intake	TAT07	SW, DJ & KS	17-03-18	22-03-18			4
Arboreal trapping	Lobs Hole Ravine, Wallaces creek	TT-53	DK, CW	09-04-19	13-04-19			4
Arboreal trapping	Lobs Hole Ravine	TT-55	DK, CW	09-04-19	13-04-19			4

Table C.1 Fauna survey effort

Survey type	Site name	Location	Surveyors	Start date	End date	Start time	End time	Total effort
Arboreal trapping	Lobs Hole Ravine	TT-57	DK, CW	09-04-19	13-04-19			4
Arboreal trapping	Lobs Hole Ravine	TT-58	DK, CW	10-04-19	14-04-19			4
Spotlighting	Wallace Creek		GM & LH	13-12-17	13-12-17	21:00	23:00	2:00
Spotlighting	Yarrangobilly River		GM & LH	13-12-17	14-12-17	23:50	1:50	2:00
Spotlighting	Lobs Hole Ravine		GM & LH	14-12-17	14-12-17	2:30	4:30	2:00
Spotlighting	Lobs Hole Ravine		GM & LH	25-01-18	25-01-18	0:45	1:45	1:00
Spotlighting	Lobs Hole Ravine		AR & DL	27-01-18	27-01-18	1:45	2:30	0:45
Spotlighting	Lobs Hole Ravine		AR & DL	28-01-18	28-01-18	1:05	2:05	1:00
Spotlighting	Lobs Hole Ravine		AR & ACM	29-01-18	29-01-18	21:00	22:30	1:30
Spotlighting	Lobs Hole Ravine		AR & ACM	29-01-18	30-01-18	22:55	0:05	1:10
Spotlighting	Lobs Hole Ravine		AR & ACM	30-01-18	30-01-18	0:40	1:55	1:15
Spotlighting	Lobs Hole Ravine		GM & CK	08-02-18	08-02-18	21:00	22:00	1:00
Spotlighting	Wallace Creek		SW & DJ	19-03-18	20-03-18	23:28	1:00	1:32
Spotlighting	Proposed campsite		SW & DJ	20-03-18	20-03-18	2:30	3:30	1:00
Spotlighting	Proposed campsite		SW & DJ	20-03-18	20-03-18	3:45	4:05	0:20
Spotlighting	Lobs Hole Ravine		SW & KS	23-03-18	24-03-18	23:30	1:00	1:30
Spotlighting	Lobs Hole Ravine		SW & KS	23-03-18	23-03-18	22:00	23:00	1:00
Spotlighting	Lobs Hole Ravine rd	SL-13	EL, BR	08-11-18	08-11-18	20:33	21:53	1:20
Spotlighting	Yarrangobilly River	SL-10	JB, JW	15-12-18	16-12-18	23:21	0:22	1:01
Spotlighting	Yarrangobilly River	SL-10	JB, JW	16-12-18	16-12-18	21:55	0:14	2:19
Spotlighting	Mines trail	SL-12	JB, JW	16-12-18	16-12-18	0:20	0:58	0:38
Spotlighting	Mines trail	SL-12	JB, JW	17-12-18	17-12-18	0:20	0:58	0:38
Spotlighting	Yarrangobilly River	SL-10	JB, JW	18-12-18	18-12-18	20:55	21:46	0:51
Spotlighting	Lobs Hole Ravine rd	SL-11	JB, JW	20-12-18	20-12-18	21:12	22:02	0:50

Table C.1 Fauna survey effort

Survey type	Site name	Location	Surveyors	Start date	End date	Start time	End time	Total effort
Spotlighting	Mines trail	SL-12	JB, JW	09-01-19	09-01-19	1:02	1:42	0:40
Spotlighting	Lobs Hole Ravine rd	SL-11	JB, JW	10-01-19	10-01-19	0:44	1:26	0:42
Spotlighting	Lobs Hole Ravine rd	SL-11	JB, JW	11-01-19	11-01-19	0:11	1:30	1:19
Spotlighting	Lobs Hole Ravine rd	SL-13	JB, DF	10-02-19	10-02-19	21:53	23:25	1:32
Spotlighting	Lobs Hole Ravine rd	SL-14	JB, JD	10-02-19	11-02-19	23:27	0:39	1:12
Spotlighting	Lobs Hole Ravine rd	SL-13	AR, EL	20-02-19	21-02-19	22:40	0:20	1:40
Spotlighting	Lobs Hole Ravine rd	SL-14	AR, EL	20-02-19	20-02-19	0:20	2:35	2:15
Spotlighting	Lobs Hole Ravine rd	SL-14	JB, DK	15-05-19	15-05-19	17:40	19:59	2:19
Spotlighting	Lobs Hole Ravine rd	SL-30	JB, DK	15-05-19	15-05-19	23:14	23:57	0:43
Spotlighting	Lobs Hole Ravine rd	SL-31	JB, DK	15-05-19	15-05-19	21:16	21:56	0:40
Spotlighting	Lobs Hole Ravine rd	SL-32	JB, DK	15-05-19	15-05-19	20:32	20:55	0:23
Spotlighting	Lobs Hole Ravine rd	SL-30	JB, DK	17-06-19	17-06-19	18:18	18:56	0:38
Spotlighting	Lobs Hole Ravine rd	SL-31	JB, DK	17-06-19	17-06-19	20:52	21:13	0:21
Spotlighting	Lobs Hole Ravine rd	SL-32	JB, DK	17-06-19	17-06-19	19:01	19:29	0:28
Spotlighting	Lobs Hole Ravine rd	SL-30	JB, DK	19-06-19	19-06-19	21:36	22:17	0:41
Spotlighting	Lobs Hole Ravine rd	SL-31	JB, DK	19-06-19	19-06-19	18:33	19:13	0:40
Spotlighting	Lobs Hole Ravine rd	SL-32	JB, DK	19-06-19	19-06-19	20:48	21:26	0:38
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW10	CW & DK	02-05-18	02-05-18	Upper Lob's Hole Ravine rd	EW10	CW & DK
Koala SAT surveys	Lobs Hole Ravine rd	EW100	CK & PF	16-05-18	16-05-18	Lobs Hole Ravine rd	EW100	CK & PF
Koala SAT surveys	Lobs Hole Ravine rd	EW102	CK & PF	15-05-18	15-05-18	Lobs Hole Ravine rd	EW102	CK & PF
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW12	CW & DK	02-05-18	02-05-18	Upper Lob's Hole Ravine rd	EW12	CW & DK
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW130	DK & CW	03-05-18	03-05-18	Upper Lob's Hole Ravine rd	EW130	DK & CW

Table C.1 Fauna survey effort

Survey type	Site name	Location	Surveyors	Start date	End date	Start time	End time	Total effort
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW132	DK & CW	03-05-18	03-05-18	Upper Lob's Hole Ravine rd	EW132	DK & CW
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW136	DK & CW	03-05-18	03-05-18	Upper Lob's Hole Ravine rd	EW136	DK & CW
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW139	DK & CW	03-05-18	03-05-18	Upper Lob's Hole Ravine rd	EW139	DK & CW
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW15	CW & DK	02-05-18	02-05-18	Upper Lob's Hole Ravine rd	EW15	CW & DK
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW16	CW & DK	01-05-18	01-05-18	Upper Lob's Hole Ravine rd	EW16	CW & DK
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW17	CW & DK	01-05-18	01-05-18	Upper Lob's Hole Ravine rd	EW17	CW & DK
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW18	CW & DK	01-05-18	01-05-18	Upper Lob's Hole Ravine rd	EW18	CW & DK
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW21	CW & DK	01-05-18	01-05-18	Upper Lob's Hole Ravine rd	EW21	CW & DK
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW22	CW & DK	01-05-18	01-05-18	Upper Lob's Hole Ravine rd	EW22	CW & DK
Koala SAT surveys	Yarrangobilly River	EW41	CK & PF	18-05-18	18-05-18	Yarrangobilly River	EW41	CK & PF
Koala SAT surveys	Yarrangobilly River	EW42	CK & PF	17-05-18	17-05-18	Yarrangobilly River	EW42	CK & PF
Koala SAT surveys	Yarrangobilly River	EW43	CK & PF	17-05-18	17-05-18	Yarrangobilly River	EW43	CK & PF
Koala SAT surveys	Yarrangobilly River	EW45	CK & PF	17-05-18	17-05-18	Yarrangobilly River	EW45	CK & PF
Koala SAT surveys	Yarrangobilly River	EW46	CK & PF	18-05-18	18-05-18	Yarrangobilly River	EW46	CK & PF
Koala SAT surveys	Yarrangobilly River	EW48	CK & PF	17-05-18	17-05-18	Yarrangobilly River	EW48	CK & PF
Koala SAT surveys	Lobs Hole Ravine rd	EW49	CK & PF	17-05-18	17-05-18	Lobs Hole Ravine rd	EW49	CK & PF
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW5	CW & DK	03-05-18	03-05-18	Upper Lob's Hole Ravine rd	EW5	CW & DK

Table C.1 Fauna survey effort

Survey type	Site name	Location	Surveyors	Start date	End date	Start time	End time	Total effort
Koala SAT surveys	Lobs Hole Ravine rd	EW50	CK & PF	17-05-18	17-05-18	Lobs Hole Ravine rd	EW50	CK & PF
Koala SAT surveys	Construction camp	EW51	DK & CW	04-05-18	04-05-18	Construction camp	EW51	DK & CW
Koala SAT surveys	Construction camp	EW52	DK & CW	04-05-18	04-05-18	Construction camp	EW52	DK & CW
Koala SAT surveys	Construction camp	EW53	DK & CW	05-05-18	05-05-18	Construction camp	EW53	DK & CW
Koala SAT surveys	Construction camp	EW54	DK & CW	05-05-18	05-05-18	Construction camp	EW54	DK & CW
Koala SAT surveys	Lobs Hole Ravine rd	EW56	CK & PF	17-05-18	17-05-18	Lobs Hole Ravine rd	EW56	CK & PF
Koala SAT surveys	Construction camp	EW57	DK & CW	04-05-18	04-05-18	Construction camp	EW57	DK & CW
Koala SAT surveys	Construction camp	EW58	DK & CW	05-05-18	05-05-18	Construction camp	EW58	DK & CW
Koala SAT surveys	Construction camp	EW59	DK & CW	05-05-18	05-05-18	Construction camp	EW59	DK & CW
Koala SAT surveys	Construction camp	EW62	DK & CW	04-05-18	04-05-18	Construction camp	EW62	DK & CW
Koala SAT surveys	Construction camp	EW63	DK & CW	05-05-18	05-05-18	Construction camp	EW63	DK & CW
Koala SAT surveys	Construction camp	EW64	DK & CW	06-05-18	06-05-18	Construction camp	EW64	DK & CW
Koala SAT surveys	Construction camp	EW69A	DK & CW	06-05-18	06-05-18	Construction camp	EW69A	DK & CW
Koala SAT surveys	Lobs Hole Ravine rd	EW69B	CK & PF	16-05-18	16-05-18	Lobs Hole Ravine rd	EW69B	CK & PF
Koala SAT surveys	Construction camp	EW70	DK & CW	06-05-18	06-05-18	Construction camp	EW70	DK & CW
Koala SAT surveys	Construction camp	EW71A	DK & CW	06-05-18	06-05-18	Construction camp	EW71A	DK & CW
Koala SAT surveys	Lobs Hole Ravine rd	EW71B	CK & PF	16-05-18	16-05-18	Lobs Hole Ravine rd	EW71B	CK & PF
Koala SAT surveys	Construction camp	EW72	DK & CW	06-05-18	06-05-18	Construction camp	EW72	DK & CW
Koala SAT surveys	Construction camp	EW77A	DK & CW	06-05-18	06-05-18	Construction camp	EW77A	DK & CW
Koala SAT surveys	Lobs Hole Ravine rd	EW77B	CK & PF	16-05-18	16-05-18	Lobs Hole Ravine rd	EW77B	CK & PF
Koala SAT surveys	Lobs Hole Ravine rd	EW78	CK & PF	17-05-18	17-05-18	Lobs Hole Ravine rd	EW78	CK & PF
Koala SAT surveys	Upper Lob's Hole Ravine rd	EW8	CW & DK	03-05-18	03-05-18	Upper Lob's Hole Ravine rd	EW8	CW & DK
Koala SAT surveys	Lobs Hole Ravine rd	EW86	CK & PF	16-05-18	16-05-18	Lobs Hole Ravine rd	EW86	CK & PF

Table C.1 Fauna survey effort

Survey type	Site name	Location	Surveyors	Start date	End date	Start time	End time	Total effort
Koala SAT surveys	Lobs Hole Ravine rd	EW87	CK & PF	16-05-18	16-05-18	Lobs Hole Ravine rd	EW87	CK & PF
Koala SAT surveys	Lobs Hole Ravine rd	EW94	CK & PF	15-05-18	15-05-18	Lobs Hole Ravine rd	EW94	CK & PF
Koala SAT surveys	Lobs Hole Ravine rd	EW95	CK & PF	17-05-18	17-05-18	Lobs Hole Ravine rd	EW95	CK & PF
Koala SAT surveys	Lobs Hole Ravine rd	EW97	CK & PF	15-05-18	15-05-18	Lobs Hole Ravine rd	EW97	CK & PF
Koala SAT surveys	Lobs Hole Ravine rd	EW98	CK & PF	15-05-18	15-05-18	Lobs Hole Ravine rd	EW98	CK & PF
Koala SAT surveys	Lobs Hole Ravine rd	EW99	CK & PF	15-05-18	15-05-18	Lobs Hole Ravine rd	EW99	CK & PF
Koala Songmeters	Lobs Hole Ravine rd	KSM2	DJ, KS	16-10-18	17-12-18			62
Koala Songmeters	Lobs Hole Ravine rd	KSM3	DJ, KS	16-10-18	17-12-18			62
Koala Songmeters	Wallaces creek trail	KSM4	DJ, KS	16-10-18	17-12-18			62

Appendix D

Targeted survey weather conditions

 Table D.1
 Targeted survey weather conditions

Date	Min Temp (oC)	Max Temp (oC)	Rain (mm)	Max wind direction	Max wind speed (km/hr)
05-12-17	4.7	10.6	22.6	ESE	70
12-12-17	12.2	21.8	0	NW	37
13-12-17	14.7	23.8	0	W	50
14-12-17	17.1	21.9	0	NW	57
15-12-17	12.9	20.6	1.4	W	41
16-12-17	13.6	21.9	0	WNW	35
21-01-18	20.1	27	0	NNE	48
25-01-18	15.5	21.8	0.8	NNW	30
27-01-18	15.2	22	0	Е	46
28-01-18	14.8	24.9	0	ENE	39
30-01-18	17	18.6	0	WNW	46
07-02-18	13.1	24.2	0	WNW	39
08-02-18	16.8	26.5	0	Е	43
23-03-18	14.2	23.3	0	WNW	31
24-03-18	8.5	15	0	NNW	39
06-05-18	3.1	11	0	SSW	30
07-05-18	5.2	11.3	0	WNW	52
08-05-18	5.8	12.4	0	WSW	31
09-05-18	5.6	10.2	0	NW	41
10-05-18	2.3	2.4	1	W	72
16-05-18	-0.3	7.3	0	ESE	50
12-10-18	0.2	10.3	0	ESE	76
13-10-18	1.4	14.4	0	ESE	65
14-10-18	5.5	14.2	0	NE	54
15-10-18	5.8	17.2	0	NE	52
16-10-18	7.3	19.1	0	NE	52
17-10-18	8.7	11.9	5.2	NW	41
18-10-18	7.6	13.3	14.8	NW	50
19-10-18	7.1	17.2	0	NNW	31
20-10-18	9.4	15.6	0	WNW	74
21-10-18	1.4	12.6	1.2	ESE	33
22-10-18	6.5	16.3	0	W	31
23-10-18	8.8	19.3	0	WNW	59
24-10-18	3.4	15.5	0	ESE	43
25-10-18	3.2	14.4	0	Е	35
26-10-18	5.3	15.1	0	WSW	35
27-10-18	7.9	15	0	W	65
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 Table D.1
 Targeted survey weather conditions

Date	Min Temp (oC)	Max Temp (oC)	Rain (mm)	Max wind direction	Max wind speed (km/hr)
28-10-18	1.5	15.7	0	WNW	26
29-10-18	7.4	17.3	0	WSW	30
30-10-18	7.4	17.5	0	W	43
31-10-18	10.1	20.5	0	SW	48
01-11-18	13.1	24.3	0	NNW	61
02-11-18	14.9	20.8	0	NNW	83
03-11-18	5.3	14.5	1.8	W	67
04-11-18	5.6	17.2	0	WSW	39
05-11-18	9.8	15.9	0	NNW	52
06-11-18	11.5	12.9	8	WNW	70
07-11-18	9.4	9.7	66.2	WNW	65
08-11-18	-1.3	8.5	10.6	W	35
09-11-18	1.3	9.9	0	WNW	39
10-11-18	4.1	13.8	0	W	37
11-11-18	7.7	17	0	ESE	35
12-11-18	8.6	19.4	0	W	31
13-11-18	13.5	16.9	0	N	39
14-11-18	9.8	14	8.4	NNW	50
15-11-18	9.9	16.7	16.6	ESE	54
16-11-18	2.7	15.4	0	ESE	46
17-11-18	5.6	14.8	0	ESE	63
18-11-18	3.6	17.5	0	ESE	65
19-11-18	6.3	17.8	0	Е	30
20-11-18	10.8	18.3	0	N	57
21-11-18	10.8	12	24.2	W	63
22-11-18	-0.4	2.5	34	W	91
23-11-18	-0.1	4.2	33.2	WNW	70
24-11-18	1.2	8.6	61.4	SW	46
25-11-18	3	11.3	3	WSW	37
26-11-18	3.7	15.5	0	ESE	50
27-11-18	6.1	15.7	0	ENE	35
28-11-18	7.6	10.6	1	ESE	76
29-11-18	4.8	14.3	0.2	ESE	63
30-11-18	6.7	16	0.6	WNW	50
01-12-18	8.7	19.7	0	WNW	44
02-12-18	11.2	11.3	0.2	WNW	76
03-12-18	2.4	11.7	9	W	70

 Table D.1
 Targeted survey weather conditions

Date	Min Temp (oC)	Max Temp (oC)	Rain (mm)	Max wind direction	Max wind speed (km/hr)
04-12-18	4.3	18	0	ESE	48
05-12-18	6.8	19	0	Е	43
06-12-18	9.6	21.2	0	WNW	35
07-12-18	14.2	23.3	0	WNW	31
08-12-18	15.6	23.5	0	SE	54
09-12-18	15.9	21.2	0	ESE	43
10-12-18	9.8	20.5	13.2	ESE	43
11-12-18	10.3	20.3	0	NE	41
12-12-18	11.3	20.8	0	NE	37
13-12-18	11.3	16.4	16	ENE	74
14-12-18	9.6	17.8	20.2	E	56
15-12-18	10.9	17.1	8.8	NE	54
16-12-18	10.9	15.1	0	N	37
17-12-18	10.3	20	0.4	NW	39
20-12-18	14.4	22.9	0	Е	41
09-01-19	11.5	20.8	19.8	W	59
10-01-19	9.3	21.9	0	E	46
11-01-19	12.2	21.2	0	SW	57
15-01-19	20.3	30.6	0	ESE	44
16-01-19	20.8	32.3	0	ESE	63
20-01-19	14.1	26.1	0	ESE	57
05-02-19	13.3	18.8	18.6		
10-02-19	2.9	16.2	2.8	SW	39
11-02-19	7.1	18.7	0	W	50
20-02-19	7.1	20.2	0	ESE	35
21-02-19	8.6	21.5	0	ESE	54
16-03-19	8.5	18.2	0	ESE	74
17-03-19	9.9	16.8	0	ESE	74
18-03-19	8.7	15.5	0.2	SE	67
19-03-19	11.3	19.2	0.2	ESE	43
20-03-19	11.8	19.8	7.6	ESE	41
12-04-19	6.1	13.5	0	WNW	33
15-05-19	4.9	11.8	0	N	17
16-06-19	0.9	6.5	0	ESE	39
17-06-19	-0.4	7.8	0	ESE	50
18-06-19	1.6	4.6	0	WNW	56
19-06-19	-3	2.5	2.4	NNW	20
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 Table D.1
 Targeted survey weather conditions

Date	Min Temp (oC)	Max Temp (oC)	Rain (mm)	Max wind direction	Max wind speed (km/hr)
20-06-19	-3.5	2.6	0	N	31
21-06-19	-4.7	2.9	0	SE	50
22-06-19	-3.3	3.8	0	SE	57
23-06-19	-2.6	2.6	0	ESE	70
24-06-19	-2	6.6	0	ESE	70
25-06-19	-0.4	8.9	0	ESE	46
26-06-19	1.2	9.7	0	ESE	33

Appendix E

Credit Report



Proposal Details

Assessment Id Proposal Name BAM data last updated *

00015116/BAAS17037/19/00015118 Snowy Hydro - MOD1 04/07/2019

Dangerous trees

Assessor Name Report Created BAM Data version *

Nathan Garvey 23/08/2019 12

Assessor Number BAM Case Status Date Finalised

BAAS17037 Open To be finalised

Assessment Revision Assessment Type

0 Major Projects

Ecosystem credits for plant communities types (PCT), ecological communities & threatened species habitat

Zone	Vegetation zone name	Vegetation integrity loss / gain	Area (ha)	Constant	Species sensitivity to gain class (for BRW)	Biodiversity risk weighting	Potential SAII	Ecosystem credits
Alpine	shrubland on scre	e, blockstreams a	and rocky sit	tes of high a	altitude areas of Kosciuszko National Pa	ark, Australian A	lps Bioregion	
18	643_Low	13.0	0.1	0.25	Moderate Sensitivity to Potential Gain	1.25		0
							Subtotal	0

^{*} Disclaimer: BAM data last updated may indicate either complete or partial update of the BAM calculator database. BAM calculator database may not be completely aligned with Bionet.



Black Sally grassy low woo Highlands Bioregion	odland in valleys in t	the upper s	lopes su	b-region of the NSW South Western Slo	pes Bioregion a	and western South	Eastern
16 303_Other	40.2	0.3	0.25	High Sensitivity to Potential Gain	2.50		8
						Subtotal	
Brittle Gum - peppermint	open forest of the V	Voomargar	ma to Tu	mut region, NSW South Western Slopes	Bioregion		
1 296_High	55.3	0.1	0.25	High Sensitivity to Potential Gain	1.50		
2 296_Medium	71.9	0.0	0.25	High Sensitivity to Potential Gain	1.50		
						Subtotal	:
19 729_DNG 20 729_High	64.3	4.9		High Sensitivity to Potential Gain High Sensitivity to Potential Gain	1.50	Subtotal	11 14
20 /29_High	04.3	4.9	0.25	High Sensitivity to Potential Gain	1.50		148
Mountain Gum - Snow Gu Alps Bioregion	m - Broad-leaved Po	eppermint :	shrubby	open forest of montane ranges, South E	astern Highlan	ds Bioregion and <i>I</i>	Australian
27 953_High	75.7	1.1	0.25	High Sensitivity to Potential Gain	1.50		3
28 953_High_tree	29.8	0.0	0.25	High Sensitivity to Potential Gain	1.50		
						Subtotal	32
Norton's Box - Broad-leav	ed Peppermint ope	n forest on	footslop	es, central and southern South Eastern l	Highlands Bior	egion	
21 999_High	63.6	0.6	0.25	High Sensitivity to Potential Gain	1.50		14
22 999_DNG	38.3	0.1	0.25	High Sensitivity to Potential Gain	1.50		•

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						Subtotal	15
Red Stringybark - Broad-leav Bioregion and adjoining Sou	• •			open forest of the upper slopes subreg	jion in the NSW	South Western Slo	pes
17 311_High	60.9	0.1	0.25	High Sensitivity to Potential Gain	1.50		2
						Subtotal	2
Ribbon Gum - Narrow-leave Slopes Bioregion and wester			nontane	fern - grass tall open forest on deep cl	ay loam soils in	the upper NSW Sou	ıth Western
3 300_High	49.0	1.5	0.25	High Sensitivity to Potential Gain	1.50		28
4 300_High_tree	20.3	0.1	0.25	High Sensitivity to Potential Gain	1.50		
5 300_Medium	56.0	0.3	0.25	High Sensitivity to Potential Gain	1.50		
6 300_Medium_tree	24.8	0.0	0.25	High Sensitivity to Potential Gain	1.50		
7 300_Other	59.8	0.1	0.25	High Sensitivity to Potential Gain	1.50		
8 300_Other_tree	21.2	0.0	0.25	High Sensitivity to Potential Gain	1.50		
9 300_Poor	71.7	0.0	0.25	High Sensitivity to Potential Gain	1.50		
						Subtotal	4
Riparian Blakely's Red Gum - Bioregion and South Eastern		-	nd - tea-	tree - bottlebrush - wattle shrubland w	etland of the NS	SW South Western S	ilopes
10 302_DNG	64.0	0.3	0.25	High Sensitivity to Potential Gain	1.75		
11 302_High	70.9	0.0	0.25	High Sensitivity to Potential Gain	1.75		
12 302_Low	21.2	1.0	0.25	High Sensitivity to Potential Gain	1.75		
13 302_Medium	65.9	0.0	0.25	High Sensitivity to Potential Gain	1.75		
14 302_Other	68.3	0.3	0.25	High Sensitivity to Potential Gain	1.75		

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15 302_Poor	26.6	0.0	0.25 High Sensitivity to Potential Gain	1.75		1
					Subtotal	30
Snow Gum - Candle Bark woo	dland on broad	valley flats	of the tablelands and slopes, South Eastern	Highlands Bioregic	on	
23 1191_High	47.2	0.5	0.25 High Sensitivity to Potential Gain	2.50		14
					Subtotal	14
Snow Gum - Mountain Gum s	hrubby open for	rest of mon	tane areas, South Eastern Highlands Bioregi	on and Australian A	Alps Bioregion	
24 1196_High	95.7	0.6	0.25 High Sensitivity to Potential Gain	1.50		22
25 1196_High_tree	31.1	1.0	0.25 High Sensitivity to Potential Gain	1.50		11
					Subtotal	33
Sub-alpine dry grasslands and	heathlands of v	alley slope	s, southern South Eastern Highlands Bioregi	on and Australian	Alps Bioregion	
26 1224_High	36.2	0.2	0.25 High Sensitivity to Potential Gain	1.50		2
					Subtotal	2
					Total	328

Species credits for threatened species

Vegetation zone name	Habitat condition (HC)	Area (ha) / individual (HL)	Constant	Biodiversity risk weighting	Potential SAII	Species credits				
Callocephalon fimbria	tum / Gang-gang Cockatoo	(Fauna)								
296_High	55.3	0.01	0.25	2	N/A	0				
					Subtotal	0				
Cercartetus nanus / Ea	Cercartetus nanus / Eastern Pygmy-possum (Fauna)									
296_High	55.3	0.1	0.25	2	False	3				



				Subtotal	12
729_High	64.3	0.02	0.25	2 False	1
302_Other	68.3	0.21	0.25	2 False	7
302_Low	21.2	0.16	0.25	2 False	2
302_High	70.9	0.03	0.25	2 False	1
300_High	49.0	0.03	0.25	2 False	1
Litoria booroolongensis	s / Booroolong Frog (Fauna)				
				Subtotal	270
1196_High	95.7	0.61	0.25	2 False	29
999_High	63.6	0.58	0.25	2 False	18
729_High	64.3	4.92	0.25	2 False	158
311_High	60.9	0.09	0.25	2 False	3
302_Poor	26.6	0.01	0.25	2 False	0
302_Other	68.3	0.29	0.25	2 False	10
302_Medium	65.9	0.01	0.25	2 False	0
302_High	70.9	0.03	0.25	2 False	1
300_Poor	71.7	0.01	0.25	2 False	0
300_Other	59.8	0.07	0.25	2 False	2
300_Medium	56.0	0.33	0.25	2 False	9
300_High	49.0	1.51	0.25	2 False	37
296_Medium	71.9	0.01	0.25	2 False	0

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Litoria verreauxii	alpina / Alpine Tree Frog (Fauna	1)				
303_Other	40.2	0.01	0.25	2	False	0
1224_High	36.2	0.02	0.25	2	False	0
					Subtotal	0
Pseudomys fumeu	us / Smoky Mouse (Fauna)					
729_High	64.3	0.1	0.25	3	True	5
953_High	75.7	0.87	0.25	3	True	49
1196_High	95.7	0.6	0.25	3	True	43
					Subtotal	97
Pterostylis foliata	a / Slender Greenhood (Flora)					
1196_High	N/A	1	0.25	1	N/A	0
					Subtotal	0