



Double Jump Road Residential Estate Development

Preliminary Documentation Report

EPBC Referral 2024-09825

Volume 3.9

Appendix 14

29 July 2026

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HABITAT QUALITY ASSESSMENT

Date:	16.07.2024	Collector:	Chris Hansen, Sally Thompson, Jackson Merrigan	OA AU1 Transect 1 (HQP 1a)
Time:	13:35	Job No.	2019-100e	
Mapped RE:	12.9-10.2	Description:	Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open forest on sedimentary rocks	
Field RE:	12.9-10.2	Description:	Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open forest	
Pre-clear RE:	12.9-10.2	Description:	Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open forest on sedimentary rocks	
Notes:	Patch with reasonably consistent cover but fragmented by historic timber cutting (stumps and discarded crowns evident). More prevalent on spur crest (easier access).			
Slope:	Aspect:	Landform (local):	Landform (broad):	
10%	160	Crest + upper slopes	Low spur off range.	
Slope Shape:	Flat +/- convex			

50x20m Area	All logs >10cm, >0.5m with 50 x 20m plot boundary		100x50m Area	(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species	
Coarse Woody Debris	Site Total: 102m Per ha Total: 1,020m		Total Native Tree Spp. Richness	Dominant / Codominant: <i>Corymbia citriodora</i>	Associated / Suppressed: <i>Eucalyptus crebra</i> <i>Corymbia intermedia</i> <i>Acacia leiocalyx</i> <i>Alphitonia excelsa</i> <i>Allocasuarina littoralis</i> <i>Petalostigma pubescens</i> <i>Psyrax odorata</i>
				Proportion of EDL species with evidence of recruitment (Specify recruiting species)	100%
				Recruitment is assessed as the proportion of dominant species present at a site that are regenerating:	
50x10m area	Native plant species richness		(NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)		Total
Shrub	<i>Alphitonia excelsa</i> , <i>Allocasuarina littoralis</i> , <i>Petalostigma pubescens</i> , <i>Psyrax odorata</i> , <i>Cassinia</i> sp., <i>Jacksonia scoparia</i> , <i>Dodonea viscosa</i> , <i>Acacia irrorate</i> , <i>Carissa ovata</i> , <i>Alstonia constricta</i> , <i>Denhamia cunninghamii</i> , <i>Trema tomentosa</i> , <i>Dodonea</i> sp., <i>Psyrax odorata</i> , <i>Solanum nemophilum</i>				12
Grass	<i>Cymbopogon refractus</i> , <i>Panicum simile</i> , <i>Imperata cylindrica</i> , <i>Aristida vagans</i> , <i>Digitaria</i> sp., <i>Digitaria breviglumis</i> , <i>Themeda triandra</i> , <i>Aristida gracilipes</i> , <i>Entolasia stricta</i>				10
Forb	<i>Eustrephus latifolius</i> , <i>Hardenbergia violacea</i> , <i>Lomandra longifolia</i> , <i>Lomandra filiformis</i> , <i>Dianella caerulea</i> , <i>Peripleura diffusa</i> , <i>Desmodium gunnii</i> , <i>Vittadinia</i> sp., <i>Glycine clandestine</i> , <i>Desmodium rhtidophyllum</i> , <i>Gahnia aspera</i> , <i>Goodenia hederacea</i> , <i>Scleria mackaviensis</i>				14
Non-native plant cover					24.1%

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native other grass (if relevant)*	5	10	3	5	3	5.2
Native forbs and other species (non-grass)	5	15	7	10		7.4
Native shrubs (<1m in height)	5	10	5			4
Non-native grass	10	3				2.6
Non-native forbs and shrubs				15	5	4
Litter	70	60	65	55	70	64
Rock						0
Bare ground	5	2		10	20	7.4

Other (e.g. timber, inorganic refuse)			20	5	2	5.4
TOTAL	100%	100%	100%	100%	100%	100%

100x50m Area:	*from benchmark doc				
Eucalypt large tree DBH:	380mm	No. of large eucalypt trees in plot:	14	Total Large Trees (ha):	28
Non-eucalypt large tree DBH:	n/a	No. of large non-eucalypt trees in plot:	n/a		

Plot based weed data	Record all weed species within the 10 x 50 sub-plot				
Species	notes				
<i>Melanis repens</i>	Occasional				
<i>Phyllanthus sp.</i>	Occasional				
<i>Erigeron sp.</i>	Occasional				
<i>Passiflora suberosa</i>	Occasional				
<i>Asparagus africanus</i>	Occasional				
<i>Opuntia tomentosa</i>	Occasional				
<i>Lantana camara</i>	Occasional				

*Derived Koala Spot Assessment Technique (SAT)	Record all koala scats at the base of eucalypts >100 mm DBH and taller than 4 m height.				
Number of trees assessed (record number – target is 30)	Number of scats and tree species where scats were recorded				
30	0		0		

Plot based tree data	Record all eucalypt trees over 300mm dbh and non-eucalypts >200mm dbh within the 100 x 50 plot – record multiple stems in parentheses this way (230, 250, 190)				
Species	DBH				
<i>Corymbia citriodora</i> subsp <i>variegata</i>	360, 380 , 330, 440 , 300, 340, 370, 380 , 400 , 370, 330, 300, 300, 410 , 400 , 390 , 420 , 330, 460 , 300, 600 , 340, 460 , 580 , (310, 180), 470 , 810 , 360				
<i>Eucalyptus crebra</i>	330, 300, 300, 370, 380 , 370				
Dead tree	360				

canopy species regeneration and number of stems	Record all species and count number of stems <50mm and 50-299mm DBH (500m ²). Ensure stems class is denoted. Use parentheses for <50mm viz <i>Eucalyptus tereticornis</i> (11), 13				
Species:	20x50m				
<i>Corymbia citriodora</i> subsp <i>variegata</i>	19				
<i>Eucalyptus crebra</i>	10				
<i>Corymbia intermedia</i>	2				

100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3.					
Species	Strata (C or S or E)	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	22.2	14.2	22.6	8.4	7.0
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	22.1	16.2	21.2	5.0	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	21.6	31.5	38.8	7.3	7.3
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	23.5	47.3	53.5	6.2	6.2
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	23.9	50.7	56.8	6.1	6.1
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	20.0	60.3	66.4	6.1	6.1
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	24.1	71.3	79.0	7.7	7.7
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	23.2	81.6	91.6	10.0	10.0
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	22.1	90.5	96.8	6.3	6.3

<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	12.1	0.0	0.3	0.3	5.2
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	14.2	0.0	4.7	4.7	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	11.7	0.6	5.2	4.6	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	16.3	5.3	11.8	6.5	6.5
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	13.0	21.5	28.0	6.5	6.5
<i>Angophora leiocarpa</i>	T2	13.5	42.6	46.8	4.2	7.4
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	14.2	46.3	50.4	4.1	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	16.2	57.5	61.3	3.8	3.8
<i>Eucalyptus crebra</i>	T2	18.5	64.6	69.8	5.2	5.2
<i>Eucalyptus crebra</i>	T2	10.6	89.9	92.7	2.8	2.8
<i>Eucalyptus crebra</i>	T2	11.3	95.8	100	4.2	4.2
<i>Alphitonia excelsa</i>	T3	7.8	3.2	6.9	3.7	3.7
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T3	6.0	4.1	4.9	0.8	
<i>Petalostigma pubescens</i>	T3	7.2	8.8	12.5	3.7	3.7
<i>Allocasuarina littoralis</i>	T3	6.2	18.2	22.1	3.9	3.9
<i>Petalostigma pubescens</i>	T3	6.6	25.5	28.9	3.4	3.4
<i>Acacia leiocalyx</i>	T3	3.2	42.4	45.9	3.5	3.5
<i>Acacia deanei</i>	T3	6.1	47.3	50.1	2.8	2.8
<i>Alphitonia excelsa</i>	T3	6.8	51.3	54.6	3.3	3.3
<i>Alphitonia excelsa</i>	T3	5.5	54.7	56.0	1.3	1.3
<i>Alphitonia excelsa</i>	T3	3.8	57.5	58.2	0.7	0.7
<i>Acacia leiocalyx</i>	T3	6.0	63.4	66.5	3.1	3.1
<i>Acacia leiocalyx</i>	T3	4.0	75.8	76.6	0.8	0.8
<i>Psychrax orodora</i>	T3	4.1	81.0	82.8	1.8	1.8
<i>Corymbia intermedia</i>	T3	9.9	84.6	86.5	1.9	1.9
<i>Psychrax odorata</i>	T3	6.1	86.6	93.7	7.1	7.1
<i>Psychrax odorata</i>	T3	11.3	95.8	100.0	4.2	4.2
Total Canopy (T1) Cover					56.7m (56.7%) Med ht: 22.2m	
Total Sub-canopy (T2) Cover					41.6m (41.6%) Med ht: 13.5m	
Total Sub-canopy (T3) Cover					45.2 m (45.2%) Med ht: 6.1 m	

100m Transect Shrub canopy cover		* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall				
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Acacia sp.</i>	Shrub	2.6	7.2	8.1	0.9	0.9
<i>Acacia leiocalyx</i>	Shrub	2.8	28.2	29.6	1.4	1.4
<i>Alphitonia excelsa</i>	Shrub	2.4	29.3	31.1	1.8	1.8
<i>Dodenea viscosa</i>	Shrub	3	37.5	39.2	1.7	1.7
<i>Corymbia citriodora subsp variegata</i>	Shrub	2.5	40.1	41.1	1.0	1.0
<i>Acacia leoicalyx</i>	Shrub	2.5	40.3	42.3	2.0	2.0
<i>Eucalyptus crebra</i>	Shrub	1.0	57.6	58.2	0.6	0.6
<i>Cassinia laevis</i>	Shrub	1.0	62.3	62.6	0.3	0.3
<i>Cassinia laevis</i>	Shrub	1.0	68.3	68.7	0.4	0.4
<i>Corymbia citriodora subsp variegata</i>	Shrub	1.0	69.9	70.4	0.5	0.5
<i>Cassinia laevis</i>	Shrub	0.9	70.2	70.5	0.3	0.3
<i>Cassinia laevis</i>	Shrub	1.1	77.1	77.2	0.1	0.1
<i>Cassinia laevis</i>	Shrub	1.0	77.1	78.0	0.9	0.9
<i>Psydrax ordorata</i>	Shrub	1.0	78.3	78.8	0.5	0.5
<i>Casinia laevis</i>	Shrub	1.5	78.7	78.9	0.2	0.2
<i>Alphitonia constricta</i>	Shrub	1	79.2	81.8	2.6	2.6
<i>Alphitonia constricta</i>	Shrub	1.1	82.4	82.8	0.4	0.4
<i>Alphitonia constricta</i>	Shrub	0.9	83	83.5	0.5	0.5
<i>Acacia leiocalyx</i>	Shrub	1.8	98.8	99.5	0.7	0.7
Total Native Shrub Cover					10.8m (10.8%) Med ht: 1.5m	
Total Non-native Shrub Cover					0.0 (0.0%) Med ht: 0 m	

Site Photos



Start of Transect



End of Transect



Northern View from Centre of Transect



Eastern View from Centre of Transect



Southern View from Centre of Transect



Western View from Centre of Transect

HABITAT QUALITY ASSESSMENT

Date:	17.07.2024	Collector:	CJH, ST, JM	OA AU1 Transect 2 (HQP 3a)
Time:	10:50	Job No.	2019-100e	
Mapped RE:	12.9-10.2	Description:	Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open forest on sedimentary rocks	
Field RE:	12.9-10.2	Description:	Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open forest	
Pre-clear RE:	12.9-10.2	Description:	Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open forest on sedimentary rocks	
Notes	Patch reasonably intact but with canopy ‘holes’ from more intensive (historic) timber cutting. Large trees are present but no significantly large trees occur; stumps and discarded crown prevalent in patch. Lantana* cover is variable. Patch extends downslope into gully before a change in geology to the east.			
Slope:	Aspect:	Landform (local):	Landform (broad):	
18-25%	E	Mid-slope	Undulated rise of low spur	
Slope Shape:	Flat to convex			

50x20m Area	All logs >10cm, >0.5m with 50 x 20m plot boundary		100x50m Area	(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species	
Coarse Woody Debris	Site Total: 119 Per ha Total: 1,190m/ha		Total Native Tree Spp. Richness	Dominant / Codominant: <i>Corymbia citriodora</i>	Associated / Suppressed: <i>Eucalyptus crebra</i> <i>Alphitonia excelsa</i> <i>Acacia irrorata</i> <i>Pittosporum angustifolium</i>
				Proportion of EDL species with evidence of recruitment (Specify recruiting species)	100%
				Recruitment is assessed as the proportion of dominant species present at a site that are regenerating:	
50x10m area	Native plant species richness		(NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)		Total
Shrub	<i>Atalaya salicifolia</i> , <i>Myoprum montanum</i> . <i>Eustrephus latifolius</i> , <i>Psydrax odorata</i> , <i>Jasminum suavisissimum</i> , <i>Acacia leiocalyx</i> , <i>Alphitonia excelsa</i> , <i>Acacia irrorate</i> , <i>Callitris baileyi</i> , <i>Acacia maidenii</i> , <i>Acacia disparrima</i> , <i>Pittosporum angustifolium</i> , <i>Alstonia constricta</i> , <i>Acacia salicina</i> , <i>Abutilon otocarpum</i> , <i>Trema tomentosa</i> , <i>Psydrax buxifolia</i> , <i>Denhamia cunninghamii</i>		14		
Grass	<i>Sporobolus elongatus</i> , <i>Digitaria</i> sp., <i>Themeda triandra</i> , <i>Panicum simile</i> , <i>Cymbopogon refractus</i> , <i>Panicum effusum</i> , <i>Microlaena stipoides</i> , <i>Chloris</i> sp., <i>Aristada calycina</i> , <i>Chloris ventricose</i> , <i>Aristida gracillipes</i>		12		
Forb	<i>Desmodium gunnii</i> , <i>Glctia tenuifolia</i> , <i>Solanum nemophilum</i> , <i>Eremophila debilis</i> , <i>Desmodium rhytidophyllum</i> , <i>Scleria mackaviensis</i> , <i>Sida hackettiana</i> , <i>Dichondra repens</i> , <i>Glycine clandestina</i> , <i>Cyanthillium cinereum</i> , <i>Lobelia purpurascens</i> , <i>Cyperus gracilis</i> , <i>Lomandra filiformis</i> , <i>Veronica plebeia</i> , <i>Smilax australis</i> , <i>Secamore elliptica</i> , <i>Brunoniella australis</i> , <i>Laxmania gracilis</i> , <i>Achyranthes aspera</i> , <i>Plantago debilis</i> , <i>Gahnia aspera</i> , <i>Grewia latifolia</i>		23		
Non-native plant cover	<i>Cirsium vulgare</i> , <i>Passiflora subpeldata</i> , <i>Passiflora suberosa</i> , <i>Tecoma stans</i> , <i>Erigeron</i> sp., <i>Salvia coccinea</i> , <i>Melanis repens</i> , <i>Opuntia tomentosa</i> , <i>Lantana camara</i>		23.7		

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native other grass (if relevant)*	10		15	30		11
Native forbs and other species (non-grass)	8	15	10	20	20	14.6
Native shrubs (<1m in height)		25	5		15	9
Non-native grass	10		10			4
Non-native forbs and shrubs	7					1.4
Litter	55	35	40	45	40	43
Rock						0
Bare ground			20			4
Other (e.g. timber, inorganic refuse)	10	25		5	25	13
TOTAL	100%	100%	100%	100%	100%	100%

100x50m Area:	*from benchmark doc				
Eucalypt large tree DBH:	380mm	No. of large eucalypt trees in plot:	28	Total Large Trees (ha):	56
Non-eucalypt large tree DBH:	n/a	No. of large non-eucalypt trees in plot:	n/a		

Plot based weed data	Record all weed species within the 10 x 50 sub-plot
Species	notes
<i>Cirsium vulgare</i> *	Occasional
<i>Passiflora subpeldata</i> *	Occasional
<i>Passiflora suberosa</i> *	Occasional
<i>Tecoma stans</i> *	Occasional
<i>Erigeron sp</i> *	Occasional
<i>Salvia coccinea</i> *	Occasional
<i>Melanis repens</i> *	Occasional
<i>Opuntia tomentosa</i> * (WoNS)	Occasional
<i>Lantana camara</i> * (WoNS)	Common

*Derived Koala Spot Assessment Technique (SAT)	Record all koala scats at the base of eucalypts >100 mm DBH and taller than 4 m height.	
Number of trees assessed (record number – target is 30)	Number of scats and tree species where scats were recorded	
30	1 – <i>Eucalyptus tereticornis</i>	
	1 – <i>Eucalyptus tereticornis</i>	

Plot based tree data	Record all eucalypt trees over 300mm dbh and non-eucalypts >200mm dbh within the 100 x 50 plot – record multiple stems in parentheses this way (230, 250, 190)
Species	DBH
<i>C. citriodora</i>	390, 530, 440, 400, 460, 330, 490, 490, 390, 460, 400, 360, 350, 510, 470, 320, 600, 400, 380, 460, 520, 520, 350, 500, 370, 490, 520, 420, 440, 360, 360, 450, 450, 390,
Dead tree	390, 520

canopy species regeneration and number of stems	Record all species and count number of stems <50mm and 50-299mm DBH (500m ²). Ensure stems class is denoted. Use parentheses for <50mm viz <i>Eucalyptus tereticornis</i> (11), 13
Species:	20x50m
<i>C. citriodora</i>	25
<i>E. crebra</i>	1

100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3.					
Species	Strata (C or S or E)	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	28.4	2.0	6.5	4.5	12.3
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	28.4	4.0	14.3	10.3	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	24.9	18.2	26.3	8.1	15.5
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	21.5	26.3	33.7	7.4	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	26.6	44.8	49.0	4.2	10.0
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	19.6	47.9	54.8	6.9	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	21.0	49.8	60.4	10.6	13.6
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	23.9	56.4	63.4	7.0	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	26.8	68.3	79.8	11.5	11.5
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T1	19.9	96.0	100.0	4.0	4.0

<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	15.7	15.8	18.1	2.3	2.3
<i>Eucalyptus crebra</i>	T2	12.3	28.2	32.3	4.1	4.1
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	15.0	69.5	71.7	2.2	2.2
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	14.9	78.7	81.1	2.4	2.4
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	16.2	84.5	87.9	3.4	11.4
<i>Eucalyptus crebra</i>	T2	12.4	84.8	86.2	1.4	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	10.9	86.1	92.3	6.2	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	10.0	91.6	95.15	3.55	
<i>Corymbia citriodora</i> subsp <i>variegata</i>	T2	12.8	92.8	95.9	3.1	
Total Canopy (T1) Cover					66.9m (66.9%) Med ht: 24.4m	
Total Sub-canopy (T2) Cover					22.4m (22.4%) Med ht: 12.8m	

100m Transect Shrub canopy cover		* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall				
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Myoporum montanum</i>	Shrub	1.0	4.9	5.3	0.4	0.4
<i>Alphitonia excelsa</i>	Shrub	1.5	6.7	7.2	0.5	0.5
<i>Corymbia citriodora</i> subsp <i>variegata</i>	Shrub	0.5	9.7	9.9	0.2	0.2
<i>Corymbia citriodora</i> subsp <i>variegata</i>	Shrub	1.1	22.0	22.4	0.4	0.4
<i>Corymbia citriodora</i> subsp <i>variegata</i>	Shrub	0.6	31.6	31.9	0.3	0.3
<i>Corymbia citriodora</i> subsp <i>variegata</i>	Shrub	1.7	34.7	35.1	0.4	0.4
<i>Alphitonia excelsa</i>	Shrub	1.0	35.3	35.5	0.2	0.2
<i>Corymbia citriodora</i> subsp <i>variegata</i>	Shrub	0.5	36.1	36.3	0.2	0.2
<i>Alphitonia excelsa</i>	Shrub	2.0	37.6	38.0	0.4	0.4
<i>Bridelia leichhardtii</i>	Shrub	2.0	39.5	39.8	0.3	0.3
<i>Alphitonia excelsa</i>	Shrub	2.0	41.9	42.9	1.0	1.0
<i>Ficus opposita</i>	Shrub	1.2	50.2	50.9	0.7	0.7
<i>Corymbia citriodora</i> subsp <i>variegata</i>	Shrub	1.0	64.5	64.6	0.1	0.1
<i>Alphitonia excelsa</i>	Shrub	2.0	74.8	75.2	0.4	0.4
<i>Mallotus philippensis</i>	Shrub	1.0	90.6	91.3	0.7	0.7
<i>Acacia maidenii</i>	Shrub	2.0	91.6	92.0	0.4	0.4
<i>Myoporum montanum</i>	Shrub	1.8	92.7	93.3	0.6	0.6
<i>Psyrax odorata</i>	Shrub	2.0	97.0	99.7	2.7	2.7
Total Native Shrub Cover					9.9 (9.9%) Med ht: 1.35 m	

Site Photos



Start of Transect



End of Transect



Northern View from Centre of Transect



Eastern View from Centre of Transect



Southern View from Centre of Transect



Western View from Centre of Transect

HABITAT QUALITY ASSESSMENT

Date:	17.07.2024	Collector:	CJH, ST, JM	OA AU1 Transect 3 (HQP 2a)
Time:	13:30	Job No.	2019-100e	
Mapped RE:	12.9-10.2	Description:	Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open forest on sedimentary rocks	
Field RE:	12.9-10.2	Description:	Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open forest	
Pre-clear RE:	12.9-10.2	Description:	Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open forest on sedimentary rocks	
	Patch is reasonably intact but evidence of timber cutting impacts; canopy holes and discarded crowns. Variable shrub and mid-storey cover, and pockets of moderate groundcover. Variable densities of Lantana* (WoNS). Very old koala scat at base of T2 Eucalyptus tereticornis.			
Slope:	Aspect:	Landform (local):	Landform (broad):	
12-14	WNW	Upper slopes	Undulated rise of low spur	
Slope Shape:	Flat			

50x20m Area	All logs >10cm, >0.5m with 50 x 20m plot boundary		100x50m Area	(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species	
Coarse Woody Debris	Site Total: 37m Per ha Total: 370m/ha		Total Native Tree Spp. Richness	Dominant / Codominant: <i>Corymbia citriodora</i>	Associated / Suppressed: <i>Eucalyptus crebra</i> <i>Corymbia tessellaris</i> <i>Eucalyptus tereticornis</i> <i>Alphitonia excelsa</i> <i>Mallotus philippensis</i> <i>Acacia leiocalyx</i> <i>Acacia disparrima</i>
				Proportion of EDL species with evidence of recruitment	100%
				(Specify recruiting species)	
				Recruitment is assessed as the proportion of dominant species present at a site that are regenerating:	<i>Corymbia citriodora</i> <i>Eucalyptus crebra</i>
50x10m area	Native plant species richness		(NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)		Total
Shrub	<i>Mallotus philippensis</i> , <i>Alphitonia excelsa</i> , <i>Acacia maidenii</i> , <i>Acacia leoicalyx</i> , <i>Acacia disparrima</i> , <i>Psydrax odorata</i> , <i>Dodenea</i> , <i>viscosa</i> , <i>Denhamia cunninghamii</i> . <i>Alstonia constricta</i> , <i>Myoporum montanum</i> , <i>Acacia salicina</i> ,				9
Grass	<i>Eragrostis leptostachya</i> , <i>Chloris ventricose</i> , <i>Themeda triandra</i> , <i>Heteropogon contortus</i> , <i>Sporobolus elongatus</i> , <i>Aristida calycina</i> , <i>Cymbopogon refractus</i> , <i>Panicum effusum</i> , <i>Eragrostis spartinoides</i> , <i>Bothriochloa decipiens</i> , <i>Eremochloa bimaculate</i> , <i>Aristada sp.</i> ,				10
Forb	<i>Desmodium varians</i> , <i>Cyperus gracilis</i> , <i>Lobelia purpurescens</i> , <i>Galactia tenuiflora</i> , <i>Brunoniella australis</i> , <i>Sida hackettiana</i> , <i>Glossocardia bidens</i> , <i>Rostellularia adscendens</i> , <i>Goodenea hederacea</i> , <i>Desmodium gunnii</i> , <i>Glycine clandestine</i> , <i>Dianella brevipedunculatm</i> , <i>Desmodium rhytidophyllum</i> , <i>Pilea sp.</i> , <i>Lomandra filiformis</i> , <i>Peripleura diffusa</i> , <i>Eustrephus latifolius</i> , <i>Grewia latifoliam</i> , <i>Chrysocephalum apiculatum</i> ,				10
Non-native plant cover	<i>Tagetes minuta</i> , <i>Melanis repens</i> , <i>Passiflora suberosa</i> , <i>Lantana camara`</i>				10.3%

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native other grass (if relevant)*	18	60	20	40		27.6
Native forbs and other species (non-grass)	10	13	10	3		7.2
Native shrubs (<1m in height)				2		0.4
Non-native grass						0
Non-native forbs and shrubs	2					0.4
Litter	65	25	55	50	75	54

Rock	5				5	2
Bare ground			13	5	18	7.2
Other (e.g. timber, inorganic refuse)		2	2		2	1.2
TOTAL	100%	100%	100%	100%	100%	100%

100x50m Area:	*from benchmark doc					
Eucalypt large tree DBH:	380mm	No. of large eucalypt trees in plot:	17	Total Large Trees (ha):	34	
Non-eucalypt large tree DBH:	n/a	No. of large non-eucalypt trees in plot:	n/a			

Plot based weed data	Record all weed species within the 10 x 50 sub-plot					
Species	notes					
<i>Lantana camara</i> * (WoNS)	Common					
<i>Passiflora suberosa</i> *	Occasional					
<i>Tagetes minuta</i> *	Occasional					
<i>Melania repens</i> *	Common					

*Derived Koala Spot Assessment Technique (SAT)	Record all koala scats at the base of eucalypts >100 mm DBH and taller than 4 m height.					
Number of trees assessed (record number – target is 30)	Number of scats and tree species where scats were recorded					
30	0			0		

Plot based tree data	Record all eucalypt trees over 300mm dbh and non-eucalypts >200mm dbh within the 100 x 50 plot – record multiple stems in parentheses this way (230, 250, 190)					
Species	DBH					
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	520, 350, 310, 320, 310, 430, 460, 410, 500, 370, 340, 520, 890, 370, 440, 400, 360, 490, 370, 360, 300, 400, 370, 480, 330, 430, (380, 220)					
<i>Eucalyptus crebra</i>	600, 400, 300, 330, 400					
Dead tree	470					

canopy species regeneration and number of stems	Record all species and count number of stems <50mm and 50-299mm DBH (500m ²). Ensure stems class is denoted. Use parentheses for <50mm viz <i>Eucalyptus tereticornis</i> (11), 13					
Species:	20 x 50m					
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	4					
<i>Eucalyptus crebra</i>	4					
<i>Corymbia tessellaris</i>	5					
<i>Eucalyptus tereticornis</i>	1					

100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3.					
Species	Strata (C or S or E)	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	24.0	1.6	4.3	2.7	10.5
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	19.0	2.4	12.1	9.7	
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	21.0	26.0	37.7	11.7	23.6
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	19.0	37.6	44.1	6.5	
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	22.0	42.3	49.6	7.3	
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	27.0	59.6	66.2	6.6	33.4
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	23.0	59.4	67.1	7.7	
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	22.0	66.6	73.1	6.5	
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	20.0	71.2	79.3	8.1	
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	26.0	74.7	86.6	11.9	

<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	23.0	82.5	100.0	17.5	
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T2	10.0	0.0	1.2	1.2	6.3
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T2	17.0	0.6	6.3	5.7	
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T2	14.0	20.7	25.0	4.3	4.3
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T2	13.0	25.5	31.5	6.0	6.0
<i>Eucalyptus crebra</i>	T2	10.0	49.9	52.5	5.6	2.6
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T2	14	55.0	64.0	9.0	9.0
<i>Eucalyptus</i> sp.	T3	7.0	17.1	18.4	1.3	1.3
<i>Eucalyptus tereticronis</i>	T3	9.0	18.0	19.6	1.6	1.6
<i>Eucalyptus tereticronis</i>	T3	8.0	24.1	25.2	1.1	1.1
Total Canopy (T1) Cover					67.5m (67.5%) Med ht: 22.0 m	
Total Sub-canopy (T2) Cover					28.2m (28.2%) Med ht: 13.5m	
Total Sub-canopy (T3) Cover					4 m (4%) Med ht: 8 m	

100m Transect Shrub canopy cover		* denote as native or exotic. Only native shrub cover is used in the scoring.				
		Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall, or if single stemmed, less than 2 m tall				
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Dodenea viscosa</i>	Shrub	1.1	36.4	37.2	0.8	0.8
<i>Alstonia constricta</i>	Shrub	1.0	58.7	59.0	0.3	0.3
<i>Acacia maidenii</i>	Shrub	1.2	59.9	60.7	0.8	0.8
<i>Acacia maidenii</i>	Shrub	1.0	92.9	94.4	1.5	1.5
<i>Acacia maidenii</i>	Shrub	1.0	95.4	95.7	1.3	1.3
<i>Alphitona excelsa</i>	Shrub	2.0	90.1	91.1	1.0	1.0
Total Native Shrub Cover					5.7 m (5.7%) Med ht: 0.9 m	

Site Photos



Start of Transect



End of Transect



Northern View from Centre of Transect



Eastern View from Centre of Transect



Southern View from Centre of Transect



Western View from Centre of Transect



Koala scats



Koala scats

HABITAT QUALITY ASSESSMENT

Date:	17/01/2025	Collector:	CM, ST	Site: OA AU2 Transect 1 (Transect 4 (1) – Jan 2025)
Time:		Job No.	2019-100e	
Mapped RE:	RE 12.8.17	Description:	Mixed woodland with combinations of <i>Eucalyptus crebra</i> , <i>E. melanophloia</i> , <i>E. tereticornis</i> , <i>Corymbia tessellaris</i> , <i>C. intermedia</i> woodland on Cainozoic igneous rocks	
Field RE:	RE 12.8.17	Description:	Mixed woodland dominated by <i>Eucalyptus crebra</i> with <i>Eucalyptus tereticornis</i> and <i>Corymbia tessellaris</i> . Basalt derived soil, abundant rocks. Transect follows the edge of a track cleared through heavy <i>Lantana camara</i> infestation. Quadrat extends 50 m to east of the tape due to changed RE to the west of the track.	
Slope:	Aspect:	Landform (local):	Landform (broad):	
	west	Relatively flat area at base of slope	Hilly	
Slope Shape:	Concave			

50x20m Area	All logs >10cm, >0.5m with 50 x 20m plot boundary		100x50m Area	(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species	
Coarse Woody Debris	Site Total:	1	Total Native Tree Spp. Richness: 9 species	Dominant / Codominant:	Associated / Suppressed:
	Per ha Total:	10		<i>Eucalyptus crebra</i> (T1) <i>Corymbia tessellaris</i> (T2) <i>Eucalyptus tereticornis</i> (T2)	<i>Eucalyptus melanophloia</i> <i>Alphitonia excelsa</i> <i>Acacia leiocalyx</i> <i>Acacia salicina</i> <i>Erythrina vespertilio</i> <i>Psyrax odorata</i>
				Proportion of EDL species with evidence of recruitment (Specify recruiting species)	<i>Eucalyptus crebra</i> <i>Eucalyptus tereticornis</i>
				Recruitment is assessed as the proportion of dominant species present at a site that are regenerating:	66 %
50x10m area	Native plant species richness		(NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)		Total
Shrub	<i>Grewia latifolia</i> , <i>E. tessellaris</i> , Unknown shrub				3
Grass	<i>Bothriochloa decipiens</i> , <i>Sporobolus</i> sp., <i>Fairy grass</i> , <i>Aristida</i> sp., <i>Echinopogon nutans</i> , <i>Chloris ventricose</i> , <i>Paspalum</i> sp.				7
Forb	<i>Lobelia concolor</i> , <i>Fimbristylis</i> sp., <i>Sigesbeckia orientalis</i> , <i>Centella asiatica</i> , <i>Dianella caerulea</i> , <i>Lobelia purpurascens</i> , <i>Geitonoplesium cymosum</i> , <i>Rhynchospora corymbosa</i> , <i>Eustrephus latifolius</i> , <i>Evolvulus alsinoides</i> , <i>Veronica</i> sp.				11
Non-native plant cover	Dominant species: <i>Lantana camara</i> . Other species observed: <i>Gomphocarpus physocarpus</i> , <i>Bidens pillosa</i> , <i>Sida rhombifolia</i> , <i>Asparagus africanus</i> / <i>plumosus</i> (smothering canopy when present), <i>Solanum seaforthium</i> , <i>Echinochloa colona</i> , <i>Crotalaria</i> sp, <i>Siratro</i> sp				80 %

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native perennial ('decreaser') grass cover*	25		9	15	20	13.8
Native other grass (if relevant)*					10	2
Native forbs and other species (non-grass)	10	30	1	10		10.2
Native shrubs (<1m in height)						0
Non-native grass						0
Non-native forbs and shrubs	45	40	80	60	30	51
Litter	20	30	10	15	40	23
Rock					1	0.2
Bare ground						
Other (e.g. timber, inorganic refuse)						

TOTAL		100%	100%	100%	100%	100%	100%
100x50m Area:		*from benchmark doc					
Eucalypt large tree DBH:	380	No. of large eucalypt trees in plot:		9	Total Large Trees (ha):		18
Non-eucalypt large tree DBH:		No. of large non-eucalypt trees in plot:					

Plot based tree data	Record all eucalypt trees over 300mm dbh and non-eucalypts >200mm dbh within the 100 x 50 plot – record multiple stems in parentheses this way (230, 250, 190)
Species	DBH
<i>Eucalyptus crebra</i>	6
<i>Corymbia tessellaris</i>	1
<i>Eucalyptus tereticornis</i>	2
Note: Base of trees were inaccessible due to <i>Lantana camara</i> infestation, above indicates a count of trees estimated to be above the threshold.	

100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3.					
Species	Strata (C or S or E) T1 = 20 – 26m T2 = 13 – 16 m T3 = 4 – 10 m	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Eucalyptus crebra</i>	T1		0.0	5.6	5.6	5.6
<i>Eucalyptus crebra</i>	T1		4.8	9.7	4.9	6.6
<i>Eucalyptus crebra</i>	T1		9.1	11.4	2.3	
<i>Eucalyptus crebra</i>	T1		66.0	73.0	7	7
<i>Eucalyptus crebra</i>	T1		85.0	98.0	13	13
<i>Corymbia tessellaris</i>	T2		3.1	4.4	1.3	1.3
<i>Corymbia tessellaris</i>	T2		18.6	27.5	8.9	8.9
<i>Corymbia tessellaris</i>	T2		29.7	35.7	6	6
<i>Corymbia tessellaris</i>	T2		44.3	49.0	4.7	4.7
<i>Corymbia tessellaris</i>	T2		54.5	64.5	10	10
<i>Corymbia tessellaris</i>	T2		56.8	64.0	7.2	
<i>Corymbia tessellaris</i>	T3		44.4	45.5	1.1	1.1
<i>Alphitonia excelsa</i>	T3		92.0	93.3	1.3	1.3
Total Canopy (T1) Cover					32.2 m (32.2 %) Med ht: 21 m	
Total Sub-canopy (T2) Cover					30.9 m (30.9 %) Med ht: 15 m	
Total Sub-canopy (T3) Cover					2.4 m (2.4 %) Med ht: 6 m	

100m Transect Shrub canopy cover	* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall					
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Lantana camara</i>	S	1.5	0.0	45.0	45.0	45.0
<i>Corymbia tessellaris</i>	S	1.5	48.1	48.2	0.1	0.1
<i>Lantana camara</i>	S	1.5	65.0	100.0	35.0	35.0
Total Native Shrub Cover					0.1 (0.1 %) Med ht: 1.5 m	
Total Non-native Shrub Cover					80 (80 %) Med ht: 1.5 m	

Site Photos



Landscape (panorama) photo/s of the general terrain



Start of Transect



End of Transect



Northern View from Centre of Transect



Eastern View from Centre of Transect (not included in plot)



Southern View from Centre of Transect



Western View from Centre of Transect



View to the east of the transect from 29 m

HABITAT QUALITY ASSESSMENT

Date:	17/01/2025	Collector:	CM, ST	Site: OA AU2 Transect 2 (Transect 5 (2) – Jan 2025)
Time:		Job No.	2019-100e	
Mapped RE:	12. 8.17	Description:	Mixed woodland with combinations of <i>Eucalyptus crebra</i> , <i>Eucalyptus melanophloia</i> , <i>Eucalyptus tereticornis</i> , <i>Corymbia tessellaris</i> , <i>Corymbia intermedia</i> woodland on Cainozoic igneous rocks	
Field RE:	12.8.17	Description:	Mixed woodland dominated by <i>Eucalyptus crebra</i> with <i>Eucalyptus tereticornis</i> and <i>Corymbia tessellaris</i> . Basalt derived soil, abundant surface rocks. This is a 50 x 20m transect. Transect follows the edge of a track cleared through heavy <i>Lantana camara</i> infestation.	
Slope:	Aspect:	Landform (local):	Landform (broad):	
	North west	Rocky slope	Rolling steep hills	
Slope Shape:	Convex E-W, slight concave N-S down ridge			

50x20m Area	All logs >10cm, >0.5m with 50 x 20m plot boundary		100x50m Area	(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species	
Coarse Woody Debris	Site Total:	10	Total Native Tree Spp. Richness 8	Dominant / Codominant:	Associated / Suppressed:
	Per ha Total:	100		<i>Corymbia tessellaris</i> <i>Eucalyptus melanophloia</i>	<i>Eucalyptus tereticornis</i> <i>Eucalyptus crebra</i> <i>Acacia disparima</i> <i>Acacia salicina</i> <i>Petalostigma sp.</i> <i>Aphananthe philippinensis</i>
				Proportion of EDL species with evidence of recruitment	50 %
				(Specify recruiting species) Recruitment is assessed as the proportion of dominant species present at a site that are regenerating:	<i>Corymbia tessellaris</i>
50x10m area	Native plant species richness		(NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)		Total
Shrub	<i>Acacia sp.</i> , <i>Mallotus philipinenses</i> , unknown tree, <i>Acacia disparrima</i>			4	
Grass	Unknown 1, <i>Themada triandra</i> , <i>Heteropogon contortus</i>			3	
Forb	<i>Sigesbekia orientalis</i> , <i>Ipoema plebian</i> , <i>Cyperus gracilis</i> , <i>Glycine sp.</i> , Native cucumber			5	
Non-native plant cover	Dominant species: <i>Lantana camara</i> . Other species observed: <i>Megathyrsus maximus</i> var. <i>pubiglumis</i> , <i>Bidens pilosa</i> , <i>Passiflora suberosa</i> , <i>Passiflora subpeltata</i> , <i>Asparagus africanus</i> / <i>plumosus</i> (smothering canopy when present), <i>Solanum seaforthium</i> , <i>Abutilon sp.</i> , <i>Rivinia humilis</i> , <i>Crassocephalum crepidioides</i> , <i>Setaria pumila</i> subsp. <i>pumila</i> , <i>Sorghum halepense</i> , <i>Melinis repens</i>			100 %	

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native perennial ('decreaser') grass cover*	1					0.2
Native other grass (if relevant)*	2					0.4
Native forbs and other species (non-grass)						0
Native shrubs (<1m in height)						0
Non-native grass						0
Non-native forbs and shrubs	70	100	90	100	100	92
Litter	15		5			4
Rock	10		5			3
Bare ground	2					0.4
Other (e.g. timber, inorganic refuse)						0

TOTAL	100%	100%	100%	100%	100%	100%
--------------	-------------	-------------	-------------	-------------	-------------	-------------

100x50m Area:	*from benchmark doc				
Eucalypt large tree DBH:	380	No. of large eucalypt trees in plot:	3	Total Large Trees (ha):	6
Non-eucalypt large tree DBH:	n/a	No. of large non-eucalypt trees in plot:	n/a		

Plot based tree data	Record all eucalypt trees over 300mm dbh and non-eucalypts ≥200mm dbh within the 100 x 50 plot – record multiple stems in parentheses this way (230, 250, 190)
Species	DBH
<i>Eucalyptus melanophloia</i>	3 specimens
Note: Base of trees were inaccessible due to <i>Lantana camara</i> infestation, above indicates a count of trees estimated to be above the threshold.	

100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3.					
Species	Strata (C or S or E) T1 = 10 – 15 m T2 = 4 – 10 m	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
Note: Cover is an estimate of cover running parallel to the track. Size estimate difficult due to slope and lantana.						
<i>Eucalyptus melanophloia</i>	T1		10.1	13.7	3.6	3.6
<i>Eucalyptus melanophloia</i>	T1		35.0	41.6	6.6	6.6
<i>Eucalyptus melanophloia</i>	T1		48.5	50	1.5	1.5
<i>Bridelia leichhardtii</i>	T2		0	1.4	1.4	1.4
<i>Ficus sp.</i>	T2		1.7	5.7	4	5.7
<i>Acacia salicina</i>	T2		3.8	7.4	3.6	
<i>Corymbia tessellaris</i>	T2		10.7	12.2	1.5	1.5
<i>Petalostigma pubescens</i>	T2		12.8	14.5	1.7	1.7
<i>Corymbia tessellaris</i>	T2		18.6	21.7	3.1	3.1
<i>Corymbia tessellaris</i>	T2		29.9	31.4	1.5	1.5
<i>Eucalyptus melanophloia</i>	T2		32.3	35.1	2.8	2.8
<i>Eucalyptus melanophloia</i>	T3		15.0	15.3	0.3	0.3
Total Canopy (T1) Cover					11.7 m (23.4 %) Med ht: 12 m	
Total Sub-canopy (T2) Cover					17.7 m (35.4 %) Med ht:8 m	
Total Sub-canopy (T3) Cover					0.3 m (0.6 %) Med ht: 3 m	

100m Transect Shrub canopy cover	* denote as native or exotic. Only native shrub cover is used in the scoring.					
	Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall, or if single stemmed, less than 2 m tall					
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
Lantana camara	S	1.5	0.0	50.0	50	50
Total Non-native Shrub Cover					50 (100 %) Med ht: 1.5 m	

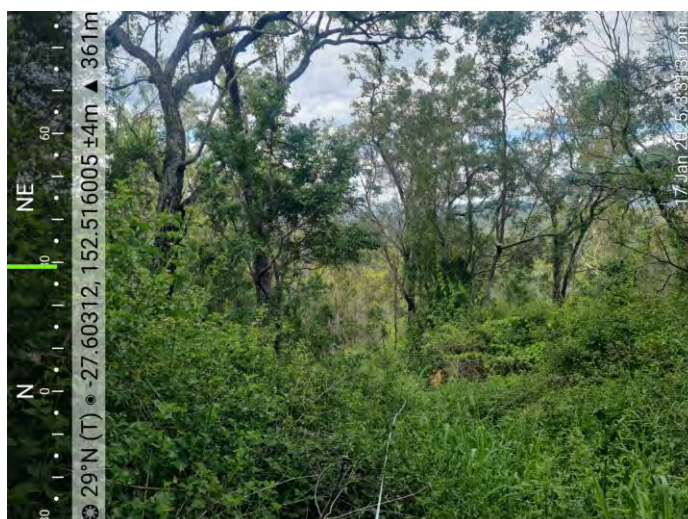
Site Photos



Landscape (panorama) photo/s of the general terrain



Start of Transect



End of Transect



Northern View from Centre of Transect



Eastern View from Centre of Transect



Southern View from Centre of Transect

Western View from Centre of Transect

HABITAT QUALITY ASSESSMENT

Date:	17/01/2025	Collector:	CM, ST	Site: OA AU3 Transect 1 (Transect 6 (3) – Jan 2025)
Time:		Job No.	2019-100e	
Mapped RE:	12.8.17 (incorrectly mapped)	Description:	Mixed woodland with combinations of <i>Eucalyptus crebra</i> , <i>Eucalyptus melanophloia</i> , <i>Euclayptus tereticornis</i> , <i>Corymbia tessellaris</i> , <i>Corymbia intermedia</i> woodland on Cainozoic igneous rocks	
Field RE:	12.8.24	Description:	Technical description RE 12.8.24: <i>Corymbia citriodora</i> subsp. <i>variegata</i> open forest on Cainozoic igneous rocks especially trachyte <i>Corymbia citrodora</i> subsp. <i>variegata</i> open forest with <i>Eucalyptus crebra</i> . Basalt derived soil, with scattered small igneous rocks. Transect follows the edge of a track cleared through heavy <i>Lantana camara</i> infestation.	
Slope:	Aspect:	Landform (local):		Landform (broad):
	north	hills		Rolling hills
Slope Shape:	Convex to north, gradual concave to south.			

50x20m Area	All logs >10cm, >0.5m with 50 x 20m plot boundary		100x50m Area	(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species	
Coarse Woody Debris	Site Total:	10	Total Native Tree Spp. Richness 9	Dominant / Codominant:	Associated / Suppressed: <i>Eucalyptus crebra</i>
	Per ha Total:	100		<i>Corymbia citriodora</i> subsp. <i>variegata</i>	<i>Acacia disparrima</i> <i>Mallotus phillipinensis</i> <i>Ficus</i> sp. <i>Aphananthe phillipinensis</i> <i>Alphitonia excelsa</i> <i>Brachychyton</i> sp. <i>Bridelia</i> sp.
				Proportion of EDL species with evidence of recruitment (Specify recruiting species)	33 %
				Recruitment is assessed as the proportion of dominant species present at a site that are regenerating:	<i>Corymbia citriodora</i>
50x10m area	Native plant species richness		(NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)		Total
Shrub	<i>Alphitonia excelsa</i> , <i>Mallotus phillipinensis</i> , <i>Eucalyptus tereticornis</i> , <i>Grewia latifolia</i> , <i>Trema tomentosa</i> , <i>Petalostigma</i> sp.				6
Grass	<i>Oplismenus</i> sp.				1
Forb	<i>Glycine</i> sp., <i>Enchylaena tomentosa</i> , <i>Sigesbekia orientalis</i> , <i>Cyperus gracilis</i> , <i>Native cucumber</i> , <i>Commelina diffusa</i> , <i>Desmodium</i> sp.				7
Non-native plant cover	Dominant species: <i>Lantana camara</i> . Other species include: <i>Megathyrsus maximus</i> var. <i>pubiglumis</i> , <i>Bidens pilosa</i> , <i>Ricinus humilis</i> , <i>Solanum seaforthium</i> , <i>Physalis</i> sp., <i>Tagetes minuta</i> , <i>Solanum nigrum</i> , <i>Asparagus africanus</i> / <i>plumosus</i> (smothering canopy when present), <i>Passiflora subpeltata</i> , <i>Senecio madagascariensis</i>				100 %

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native perennial ('decreaser') grass cover*						
Native other grass (if relevant)*						
Native forbs and other species (non-grass)						
Native shrubs (<1m in height)						
Non-native grass						
Non-native forbs and shrubs	100	100	100	100	100	100
Litter						
Rock						
Bare ground						

Other (e.g. timber, inorganic refuse)						
TOTAL	100%	100%	100%	100%	100%	100%

100x50m Area:	*from benchmark doc				
Eucalypt large tree DBH:	420	No. of large eucalypt trees in plot:	8	Total Large Trees (ha):	16
Non-eucalypt large tree DBH:		No. of large non-eucalypt trees in plot:			

Plot based tree data	Record all eucalypt trees over 300mm dbh and non-eucalypts >200mm dbh within the 100 x 50 plot – record multiple stems in parentheses this way (230, 250, 190)
Species	DBH
<i>Eucalyptus crebra</i>	1
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	7
Note: Base of trees were inaccessible due to dense <i>Lantana camara</i> infestation, above indicates a count of trees estimated to be above the threshold.	

100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3.					
Species	Strata (C or S or E) T1 = 17 – 25 m T2 = 10 – 17 m T3 = 5 – 10 m	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	20	9	15.8	6.8	6.8
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	17	10	12.2	2.2	
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	20	19.6	23.1	3.5	3.5
<i>Eucalyptus crebra</i>	T1	20	25.1	30.4	5.3	5.3
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	22	38	46.1	8.1	8.1
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	23	46.4	65.4	19	19
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	25	58.2	64.2	6	6
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	21	66.4	75.0	8.6	8.6
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	23	77.9	84.5	6.6	6.6
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	17	93.3	100	6.7	6.7
<i>Acacia disparrima</i>	T2	12	2	5.5	3.5	3.5
<i>Eucalyptus crebra</i>	T2	10	10.7	16.8	6.1	6.1
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T2	12	21	25.6	4.6	4.6
<i>Acacia disparrima</i>	T2	10	44.4	50.1	5.7	5.7
<i>Eucalyptus crebra</i>	T2	13	84.4	86.2	1.8	7.1
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T2	12	85.1	91.5	6.4	
<i>Brachychyton populneus</i>	T2	11	86.2	90.8	4.6	
<i>Acacia disparrima.</i>	T3	6	17.5	17.6	0.1	0.1
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T3	7	36.0	38.6	2.6	2.6
<i>Bridelia leichhardtii</i>	T3	8	42.6	43.4	0.8	0.8
<i>Acacia melanoxylon</i>	T3	8	66.0	70.7	4.7	4.7
Total Canopy (T1) Cover					70.6 m (70.6 %) Med ht: 21 m	
Total Sub-canopy (T2) Cover					27 m (27 %) Med ht: 12 m	
Total Sub-canopy (T3) Cover					8.2 m (8.2 %) Med ht: 7 m	

100m Transect Shrub canopy cover		* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall				
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Lantana camara</i>	S	1.5	0.0	100.0	100.0	100.0
Total Non-native Shrub Cover					100.0 (100 %) Med ht: 1.5 m	

Site Photos



Landscape (panorama) photo/s of the general terrain



Start of Transect



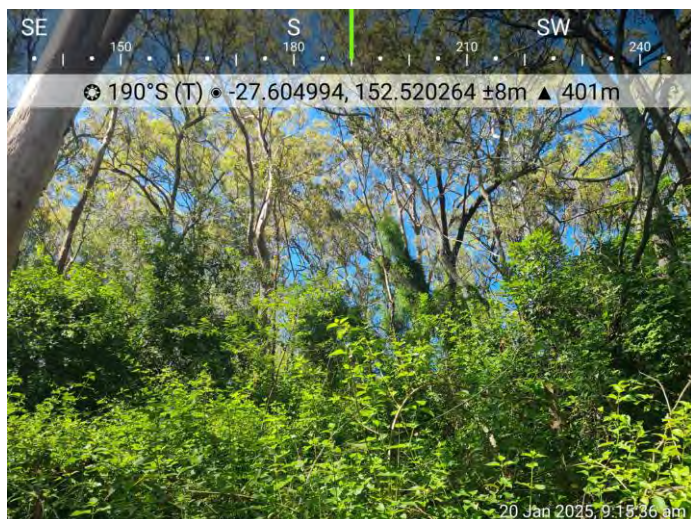
End of Transect



Northern View from Centre of Transect



Eastern View from Centre of Transect



Southern View from Centre of Transect



Western View from Centre of Transect

HABITAT QUALITY ASSESSMENT

Date:	17/01/2025	Collector:	CM, ST	Site: OA AU3 Transect 2 (Transect 7 (4) – Jan 2025)
Time:		Job No.	2019-100e	
Mapped RE:	2.8.17	Description:	Mixed woodland with combinations of <i>Eucalyptus crebra</i> , <i>E. melanophloia</i> , <i>E. tereticornis</i> , <i>Corymbia tessellaris</i> , <i>C. intermedia</i> woodland on Cainozoic igneous rocks	
Field RE:	12.8.24	Description:	Technical description RE 12.8.24: <i>Corymbia citriodora</i> subsp. <i>variegata</i> open forest on Cainozoic igneous rocks especially trachyte. Mixed woodland dominated by <i>Eucalyptus crebra</i> with <i>Corymbia citriodora</i> subsp. <i>variegata</i>, occasional <i>Eucalyptus melanophloia</i>. Basalt derived soils, some rocks. This is a 50 x 20m transect. Transect follows the edge of a track cleared through heavy Lantana camara infestation. Quadrat extends 20 m to north of the tape due to changed cleared paddock to the south and slope to north.	
Slope:	Aspect:	Landform (local):	Landform (broad):	
	North	Undulating hills	Hilly	
Slope Shape:	Concave. Near flat on top, drops to N facing slope. Slight undulations E-W.			

50x20m Area	All logs >10cm, >0.5m with 50 x 20m plot boundary		100x50m Area	(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species	
Coarse Woody Debris	Site Total:	3	Total Native Tree Spp. Richness: 4	Dominant / Codominant:	Associated / Suppressed:
	Per ha Total:	30		<i>Eucalyptus crebra</i>	<i>Corymbia citriodora</i> – Associated <i>Eucalyptus melanophloia</i> – suppressed <i>Acacia sp.</i> - suppressed
				Proportion of EDL species with evidence of recruitment (Specify recruiting species)	nil
				Recruitment is assessed as the proportion of dominant species present at a site that are regenerating:	0 %
50x10m area	Native plant species richness		(NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)		Total
Shrub	<i>Erythrina vespitilio</i>				1
Grass	<i>Oplismenus sp.</i> , <i>Echinopogon nutans</i>				2
Forb	<i>Sigesbekia orientalis</i> , <i>Desmodium sp.</i> , Native cucumber, <i>Cyperus gracilis</i> , <i>Ipoema plebia</i> , Native daisy, <i>Veronica sp.</i>				7
Non-native plant cover	Dominant species: <i>Lantana camara</i> . Other species recorded include: <i>Megathyrsus maximus</i> var. <i>pubiglumis</i> <i>Bidens pilosa</i> , <i>Passiflora foetida</i> , <i>Crotilaria sp.</i> , <i>Asparagus africanus</i> / <i>plumosus</i> (smothering canopy when present), <i>Tagetes minuta</i> , <i>Sida rhombifolia</i> , <i>Stachytarpheta indica</i> , <i>Macrotyloma axillare</i> , <i>Physalis sp.</i> , <i>Solanum nigrum</i> , <i>Rivinia humilis</i> , <i>Phytolacca octandra</i> , <i>Passiflora suberosa</i> , <i>Opuntia tomentosa</i> , <i>Chloris virgata</i> , <i>Ambrosia artemisiifolia</i>				100 %

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native perennial ('decreaser') grass cover*						
Native other grass (if relevant)*						
Native forbs and other species (non-grass)						
Native shrubs (<1m in height)						
Non-native grass						
Non-native forbs and shrubs	100	100	100	100	100	100
Litter						
Rock						

Bare ground						
Other (e.g. timber, inorganic refuse)						
TOTAL	100%	100%	100%	100%	100%	100%

20x50m Area:	*from benchmark doc				
Eucalypt large tree DBH:	420	No. of large eucalypt trees in plot:	1	Total Large Trees (ha):	10
Non-eucalypt large tree DBH:		No. of large non-eucalypt trees in plot:			

Plot based tree data	Record all eucalypt trees over 300mm dbh and non-eucalypts ≥200mm dbh within the 100 x 50 plot – record multiple stems in parentheses this way (230, 250, 190)
Species	DBH
<i>Eucalyptus crebra</i>	1
Note: Base of trees were inaccessible due to <i>Lantana camara</i> infestation, above indicates a count of trees estimated to be above the threshold.	

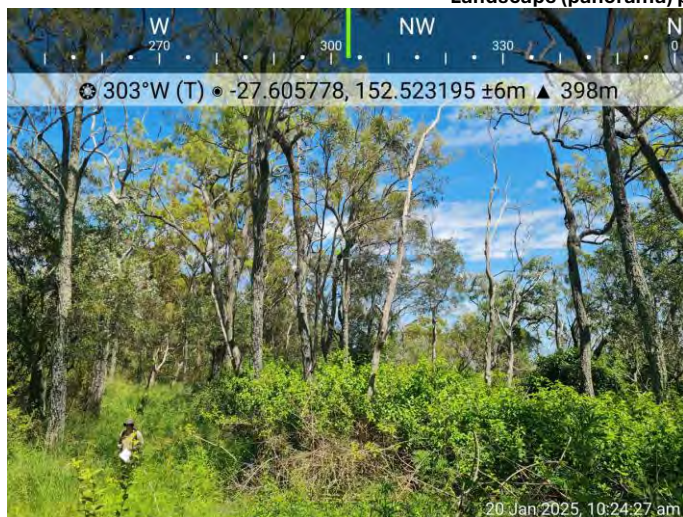
100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3.					
Species	Strata (C or S or E) T1 = 13 – 20 m T2 = 5 – 10 m	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Eucalyptus crebra</i>	T1	14	4.5	9.6	5.1	9.4
<i>Eucalyptus crebra</i>	T1	14	5.6	13.9	8.3	
<i>Eucalyptus crebra</i>	T1	15	14.0	18.0	4.0	4.0
<i>Eucalyptus crebra</i>	T1	18	14.3	18.0	3.7	
<i>Eucalyptus crebra</i>	T1	13	19.3	25.4	6.1	6.1
<i>Eucalyptus crebra</i>	T1	18	28.3	37.0	8.7	8.7
<i>Eucalyptus crebra</i>	T1	16	37.2	39.3	2.1	2.1
<i>Eucalyptus crebra</i>	T1	13	40.1	44.7	4.6	4.6
<i>Corymbia citriodora</i> subsp. <i>variegata</i>	T1	16	45.0	50.0	5.0	5.0
<i>Eucalyptus melanophloia</i>	T2	5	0	0.3	0.3	0.3
<i>Acacia</i> sp.	T2	7	17.0	19.3	2.3	7.2
<i>Eucalyptus melanophloia</i>	T2	8	19.2	24.2	5.0	
<i>Acacia</i> sp.	T2	6	25.8	29.2	3.4	3.4
<i>Acacia</i> sp.	T2	10	31.3	34.1	2.8	2.8
Total Canopy (T1) Cover					39.9 m (79.8 %) Med ht: 16 m	
Total Sub-canopy (T2) Cover					13.7 m (27.4 %) Med ht: 7 m	

100m Transect Shrub canopy cover	* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall					
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Lantana camara</i>	S	1.5	0.0	50.0	50	50
Total Non-native Shrub Cover					50 (100 %) Med ht: 1.5 m	

Site Photos



Landscape (panorama) photo/s of the general terrain



Start of Transect



End of Transect

*Appendix 14.2:
Thagoona Biocondition
Data Sheets*

HABITAT QUALITY ASSESSMENT

Date:	21 January 2026	Collector:	Armstrong J, Kinchin, E.				Thagoona North BC_05	
Time:	nil	Job No.	2019e – Sutgold – EPBC Woodbury Precinct					
Mapped RE:	Regrowth 12.3.3 (Cat C)	Description:	Eucalyptus tereticornis woodland on Quaternary alluvium					
Field RE:	Regrowth 12.3.3 (Cat C)	Description:	Eucalyptus tereticornis open forest 15-22m Sparse shrub layer. Dense groundcover dominated by native sedges and grasses					
Pre-clear RE:	12.3.3	Description:	Eucalyptus tereticornis woodland on Quaternary alluvium					
Plot size:	100m x 50m	Photos	N	E	S	W	Pano	
Slope:	Aspect:	Landform (local):			Landform (broad):			
Flat	Flat	Low level alluvium			Floodplains			
Slope Shape:	Flat							

Coarse Woody Debris (50x20m Area)	All logs >10cm, >0.5m with 50 x 20m plot boundary						
	Site Total:	0					
	Per ha Total: (*10)	0					

100x50m Area			
Strata and Height (record the height of up to 5 individual trees, where available). Take height measurements outside of plot where suitable e.g. emergent layer		(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species (* indicates a recruiting species)	
Emergent		Dominant / Codominant: <i>Eucalyptus tereticornis</i>	Associated / Suppressed:
T1	Eucalyptus tereticornis 22, 20, 23, 19, 22, 19	Proportion of EDL species with evidence of recruitment <i>(Recruitment is expressed as the proportion of dominant species present at a site that are regenerating)</i>	100%
T2	Eucalyptus tereticornis <i>Eucalyptus tereticornis</i>		
T3		Total Native Tree Spp. Richness	1

50x10m area							
Native plant species richness - (NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)						Total	
Shrub	<i>Acacia salicina, Eucalyptus tereticornis, Blakella tessellaris,</i>					3	
Grass	<i>Panicum sp., Sacciolepis indica, Leersia hexandra, Panicum decompositum,</i>					4	
Forb	<i>Cyperus sp., Eclipta platyglossa, Dianella brevipedunculata, Centella asiatica, Juncus usitatus, Lobelia concolor, Commelina diffusa, Haloragis heterophylla, Eryngium sp., Murdannia graminea, Marsilea drummondii, Hypericum gramineum, Sida spicata, Fimbristylis sp., Oxalis perennans, Vigna vexillata, Jasminum suavissima, Carex inversa, Cyperus gracilis, Glycine sp, Mimulus gracilis,</i>					19	
Non-native plant cover (List all species)	<i>Sida rhombifolia, Dichanthium aristatum, Bidens pilosa, Celtis sinensis, Mimosa pudica, Astaer subulatus, Lespedeza juncea, Cynodon dactylon</i>					50%	

100x50m Area:	*from benchmark doc					
Eucalypt large tree DBH:	540	No. of large eucalypt trees in plot:	0	Total Large Trees (ha):		0
Non-eucalypt large tree DBH:	0	No. of large non-eucalypt trees in plot:	0			

Plot based tree data	Record DBH and all species within the 100 x 50m plot ; non-eucalypts >200mm dbh and all eucalypts > 300mm dbh – record multiple stems in parentheses this way (230, 250, 190)						
Species	DBH in mm						
<i>Eucalyptus tereticornis</i>	(340, 360), 490, 470, 330, 390, 310, 510, 390, 300, 340, 480, 510, 350, 460, 370, 350, 440, 330, 390, 390, 330, 350, 450, 350, 380, 320, 320, 390, 420						

HABITAT QUALITY ASSESSMENT

canopy species regeneration and number of stems	Record species and count all seedlings, saplings and young trees within the 50 x 20 m (1,000m ²)				
Species:	<10 mm DBH	10-<50mm DBH	50-<100mm DBH	100-<300 mm DBH	Total
<i>Eucalyptus tereticornis</i>	15	10	3	8	36
<i>Acacia</i> sp.	5	1	1	0	7
<i>Blakella tessellaris</i>	0	2	1	0	3
***Blakella citriodora outside plot	0	0	0	0	0

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native perennial ('decreaser') grass cover*	0	43	20	30	45	27.6
Native other grass (if relevant)*	0	0	0	0	0	0
Native forbs and other species (non-grass)	68	40	75	35	15	46.6
Native shrubs (<1m in height)	0	0	0	15	0	3
Non-native grass	20	5	0	0	0	5
Non-native forbs and shrubs	2	2	0	10	8	4.4
Litter	10	10	5	10	32	13.4
Rock	0	0	0	0	0	0
Bare ground	0	0	0	0	0	0
Other (e.g. timber, inorganic refuse)	0	0	0	0	0	0
TOTAL	100%	100%	100%	100%	100%	100%

100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3. Record height of each tree.					
Species	Strata (C or S or E)	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
<i>Eucalyptus tereticornis</i>	C (T1)	20	4.6	8.9	4.3	4.3
<i>Eucalyptus tereticornis</i>	C (T1)	18	25.1	33.8	8.7	8.7
<i>Eucalyptus tereticornis</i>	C (T1)	22	95.6	100	4.4	4.4
<i>Eucalyptus tereticornis</i>	C (T2)	16	32	35	3	3
<i>Eucalyptus tereticornis</i>	C (T2)	15	53.2	55	1.8	1.8
<i>Eucalyptus tereticornis</i>	C (T2)	15	69.2	71.9	2.7	2.7
<i>Eucalyptus tereticornis</i>	C (T2)	14	76	84	8	8
Total Canopy (T1) Cover					17.4m (17.4%) Med ht:20 m	
Total Sub-canopy (T2) Cover					15.5m (15.5%) Med ht:16 m	
Average Canopy (T1) and Canopy (T2) Cover					16.45m (16.45%) Med ht:18 m	

100m Transect Shrub canopy cover	* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall					
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Eucalyptus tereticornis</i>	Native	1.5	18.3	19	0.7	0.7
<i>Eucalyptus tereticornis</i>	Native	2	27.8	28.2	0.4	0.4
<i>Acacia salicina</i>	Native	3	30	31.9	1.9	1.2
<i>Acacia salicina</i>	Native	0.5	30.3	31.2	0.9	
<i>Eucalyptus tereticornis</i>	Native	1.5	88.8	89.8	1	1
Total Native Shrub Cover					3.3m (3.3%) Med ht:1.5m	

HABITAT QUALITY ASSESSMENT

100m Transect Shrub canopy cover		* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall				
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
Total Non-native Shrub Cover					0m (0%) Med ht: 0m	

Site Photos



Landscape (panorama) photo/s of the general terrain



Start of Transect



End of Transect



Northern View from Centre of Transect



Eastern View from Centre of Transect

HABITAT QUALITY ASSESSMENT



Southern View from Centre of Transect



Western View from Centre of Transect

HABITAT QUALITY ASSESSMENT

Date:	21 January 2026	Collector:	Armstrong, J. Kinchin, E.				Thagoona North BC_06	
Time:	16:22	Job No.	2019e – Sutgold – EPBC Woodbury Precinct					
Mapped RE:	Non-remnant (Cat X)	Description:	Areas cleared of native vegetation (grassland)					
Field RE:	Non-remnant (Cat X)	Description:	Open area dominated by Cyperus spp., and Aster subulatus. Patchy Eucalyptus tereticornis regrowth to 2m					
Pre-clear RE:	12.3.3	Description:	Eucalyptus tereticornis woodland on Quaternary alluvium					
Plot size:	100m x 50m	Photos	N	E	S	W	Pano	
Slope:	Aspect:	Landform (local):			Landform (broad):			
Flat	Flat	Low level alluvium			Flood plains			
Slope Shape:	Flat							

Coarse Woody Debris (50x20m Area)	All logs >10cm, >0.5m with 50 x 20m plot boundary	
	Site Total:	0
	Per ha Total: (*10)	0

100x50m Area			
Strata and Height (record the height of up to 5 individual trees, where available). Take height measurements outside of plot where suitable e.g. emergent layer		(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species (* indicates a recruiting species)	
Emergent		Dominant / Codominant: <i>Eucalyptus tereticornis</i>	Associated / Suppressed:
T1	N/A	Proportion of EDL species with evidence of recruitment (<i>Recruitment is expressed as the proportion of dominant species present at a site that are regenerating</i>)	100%
T2			
T3		Total Native Tree Spp. Richness	1

50x10m area		
Native plant species richness - (NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)		Total
Shrub	<i>Eucalyptus tereticornis</i>	1
Grass	<i>Leersia hexandra</i> , <i>Eragrostis brownii</i>	2
Forb	<i>Lobelia concolor</i> , <i>Centella asiatica</i> , <i>Eclipta platyglossa</i> , <i>Haloragis heterophylla</i> , <i>Hypericum gramineum</i> , <i>Brachyscome dentata</i> , <i>Phyllanthus virgatus</i> , <i>Fimbristylis</i> sp.	8
Non-native plant cover (List all species)	<i>Verbena</i> sp., <i>Aster subulatus</i> , <i>Macroptilium lathyroides</i> , <i>Sida rhombifolia</i> , <i>Baccharis halimifolia</i> , <i>Mimosa pudica</i> , <i>Erigeron bonariensis</i> , <i>Bidens pilosa</i>	70%

100x50m Area:	*from benchmark doc				
Eucalypt large tree DBH:	540	No. of large eucalypt trees in plot:	1	Total Large Trees (ha):	2
Non-eucalypt large tree DBH:	na	No. of large non-eucalypt trees in plot:	0		

Plot based tree data	Record DBH and all species within the 100 x 50m plot ; non-eucalypts >200mm dbh and all eucalypts >300mm dbh – record multiple stems in parentheses this way (230, 250, 190)	
Species	DBH in mm	
<i>Eucalyptus tereticornis</i>	410, 410, 470, 310, (220, 440 = 491.9), 380, 530, 570 , 460	

canopy species regeneration and number of stems	Record species and count all seedlings, saplings and young trees within the 50 x 20 m (1,000m ²)				
Species:	<10 mm DBH	10-<50mm DBH	50-<100mm DBH	100-<300 mm DBH	Total
<i>Eucalyptus tereticornis</i>	23	13	2	0	15

HABITAT QUALITY ASSESSMENT

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native perennial ('decreaser') grass cover*	0	0	0	0	5	1
Native other grass (if relevant)*	0	0	0	0	0	0
Native forbs and other species (non-grass)	80	60	55	10	77	56.4
Native shrubs (<1m in height)	0	0	0	0	0	0
Non-native grass	0	5	0	0	0	1
Non-native forbs and shrubs	15	25	30	75	8	30.6
Litter	5	10	15	15	10	11
Rock	0	0	0	0	0	0
Bare ground	0	0	0	0	0	0
Other (e.g. timber, inorganic refuse)	0	0	0	0	0	0
TOTAL	100%	100%	100%	100%	100%	100%

100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3. Record height of each tree.					
Species	Strata (C or S or E)	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Eucalyptus tereticornis</i>	C(T1)	15	91.5	100	8.5	8.5
<i>Eucalyptus tereticornis</i>	S (T2)	6	81.5	82.8	1.3	1.3
<i>Eucalyptus tereticornis</i>	S (T2)	6	86.6	87	0.4	0.4
Total Canopy (T1) Cover					8.5m (8.5%) Med ht:15m	
Total Sub-canopy (T2) Cover					1.7m (1.7%) Med ht:6m	
Average Canopy (T1) and Canopy (T2) Cover					5.1m (5.1%) Med ht:10.5m	

100m Transect Shrub canopy cover	* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall					
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Eucalyptus tereticornis</i>	Native	1.5	3.2	3.8	0.6	0.6
<i>Eucalyptus tereticornis</i>	Native	1.5	7.8	8.2	0.4	0.4
<i>Eucalyptus tereticornis</i>	Native	1	84	85	1	1
Total Native Shrub Cover					2m (2%) Med ht: 1.5m	
Total Non-native Shrub Cover					0m (0%) Med ht:0m	



Landscape (panorama) photo/s of the general terrain



Start of Transect



End of Transect



Northern View from Centre of Transect



Eastern View from Centre of Transect



Southern View from Centre of Transect



Western View from Centre of Transect

HABITAT QUALITY ASSESSMENT

Date:	28 January 2026	Collector:	Armstrong, J.	Thagoona North BC_07		
Time:	na	Job No.	2019e – Sutgold – EPBC Woodbury Precinct			
Mapped RE:	Regrowth 12.3.3 (Cat C)	Description:	Eucalyptus tereticornis woodland on Quaternary alluvium			
Field RE:	Regrowth 12.3.3 (Cat C)	Description:	Eucalyptus tereticornis open forest to woodland to 22m			
Pre-clear RE:	12.3.3	Description:	Eucalyptus tereticornis woodland on Quaternary alluvium			
Plot size:	100x50m					
Slope:	Aspect:	Landform (local):	Landform (broad):			
Flat	Flat	Alluvial plain	Flood plain			
Slope Shape:	flat to concave					
Coarse Woody Debris (50x20m Area)	All logs >10cm, >0.5m with 50 x 20m plot boundary					
	Site Total:	12				
	Per ha Total: (*10)	120				
100x50m Area						
Strata and Height (record the height of up to 5 individual trees, where available). Take height measurements outside of plot where suitable e.g. emergent layer			(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species (* indicates a recruiting species)			
Emergent			Dominant / Codominant:		Associated / Suppressed:	
			Eucalyptus tereticornis		Blakella tessellaris	
T1	Eucalyptus tereticornis		Proportion of EDL species with evidence of recruitment (Recruitment is expressed as the proportion of dominant species present at a site that are regenerating)		100%	
T2						
T3			Total Native Tree Spp. Richness			
					2	
50x10m area						
Native plant species richness - (NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)					Total	
Shrub	Eucalyptus tereticornis , Acacia salicina				2	
Grass	Panicum sp., Chloris sp., Eragrostis brownii, Setaria parviflora, Themeda triandra, Paspalidium distans				6	
Forb	Cyperus sp. 1, Commelina diffusa, Lobelia concolor, Eclipta platyglossa, Sida spicata, Fimbristylis sp., Mentha satureioides, Centella asiatica, Cyperus difformis, Jasminum suavissimum, Glycine sp., Dianella sp., Cyperus gracilis, Alternanthera denticulata, Aeschynomene indica, Haloragis heterophylla, Murdannia graminea				17	
Non-native plant cover (List all species)	Lantana camara, Aster subulatus, Verbena officinalis, Verbena littoralis, Cyperus sesquiflorus, Dichanthium aristatum, Paspalum urvillei, Blakella torelliana, Cynodon dactylon, Gomphrena celosioides, Mimosa pudica, Ageratum houstonianum, Cyperus rotundus				50%	

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native perennial ('decreaser') grass cover*	0	0	0	0	0	0
Native other grass (if relevant)*	0	0	0	0	0	0
Native forbs and other species (non-grass)	70	8	10	70	45	40.6
Native shrubs (<1m in height)	0	0	0	0	10	2
Non-native grass	20	75	80	15	2	38.4
Non-native forbs and shrubs	0	5	0	0	15	4
Litter	10	12	10	15	28	15
Rock	0	0	0	0	0	0
Bare ground	0	0	0	0	0	0
Other (e.g. timber, inorganic refuse)	0	0	0	0	0	0
TOTAL	100%	100%	100%	100%	100%	100%

100x50m Area:	*from benchmark doc				
Eucalypt large tree DBH:	540	No. of large eucalypt trees in plot:	2	Total Large Trees (ha):	4
Non-eucalypt large tree DBH:	na	No. of large non-eucalypt trees in plot:	0		

*Derived Koala Spot Assessment Technique (SAT)	Record species and all koala scats at the base of eucalypts > 100 mm DBH and taller than 4 m height.	
Number of trees assessed (record number – target is 30)	Record each tree; species and number of Scats recorded	
<i>No scats found</i>		
<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>
<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>
<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>
<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>
<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>
<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>
<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>
<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>
<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>	<i>Eucalyptus tereticornis - 0</i>

Plot based tree data	Record DBH and all species within the 100 x 50m plot ; non-eucalypts ≥200mm dbh and all eucalypts > 300mm dbh – record multiple stems in parentheses this way (230, 250, 190)
Species	DBH in mm
Eucalyptus tereticornis	500, (360, 250, 250 = 504.6), 410, 400, 330, 1350 , 390, (370, 250 = 430.1), 360, 470, 830 , 450, (410, 220 = 465.3), 420, (480, 180 = 512.6)

canopy species regeneration and number of stems	Record species and count all seedlings, saplings and young trees within the 50 x 20 m (1,000m ²)			
Species:	<10 mm DBH	10-<50mm DBH	50-<100mm DBH	100-<300 mm DBH
<i>Eucalyptus tereticornis</i>	72	10	2	0
<i>Acacia salicina</i>	4	9	0	0
<i>Blakella tessellaris</i>	0	1	0	1

100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3. Record height of each tree.					
Species	Strata (C or S or E)	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Eucalyptus tereticornis</i>	C (T1)	21	66.1	70.9	4.8	4.8
<i>Eucalyptus tereticornis</i>	C (T1)	22	82	96	14	14
<i>Eucalyptus tereticornis</i>	C (T1)	15	34.5	40.8	6.3	6.3
<i>Eucalyptus tereticornis</i>	C (T1)	16	76	78	2	2
<i>Eucalyptus tereticornis</i>	C (T1)	17	83.6	92.5	8.9	8.9
Total Canopy (T1) Cover					18.8m (18.8%) Med ht: 21.5m	
Total Sub-canopy (T2) Cover					17.2m (17.2%) Med ht: 16 m	
Average Canopy (T1) and Canopy (T2) Cover					18 m (18.0%) Med ht: 18.75 m	

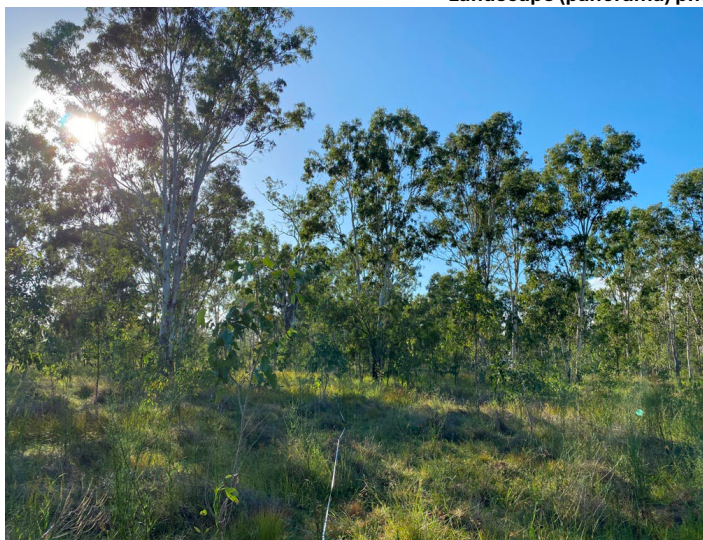
100m Transect Shrub canopy cover	* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall					
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Eucalyptus tereticornis</i>	Native	3	17.7	20.3	2.6	2.6

100m Transect Shrub canopy cover		* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall				
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Eucalyptus tereticornis</i>	Native	1.5	29.4	30	0.6	0.6
<i>Acacia salicina</i>	Native	5	33.6	36.5	2.9	2.9
<i>Eucalyptus tereticornis</i>	Native	3	37.1	38.4	1.3	1.3
<i>Eucalyptus tereticornis</i>	Native	6	46	47.3	1.3	1.3
<i>Eucalyptus tereticornis</i>	Native	1.5	52	53	1	1.0
<i>Eucalyptus tereticornis</i>	Native	2.5	56.6	58	1.4	1.4
<i>Eucalyptus tereticornis</i>	Native	1.5	65.4	66.2	0.8	0.8
<i>Eucalyptus tereticornis</i>	Native	1.5	67.2	68	0.8	0.8
<i>Eucalyptus tereticornis</i>	Native	1.3	68.6	69.2	0.6	0.6
<i>Acacia salicina</i>	Native	2.2	83.4	84.2	0.8	0.8
Total Native Shrub Cover					11.5m (11.5%) Med ht: 2.2m	
Total Non-native Shrub Cover					0m (0 %) Med ht:0 m	

Site Photos



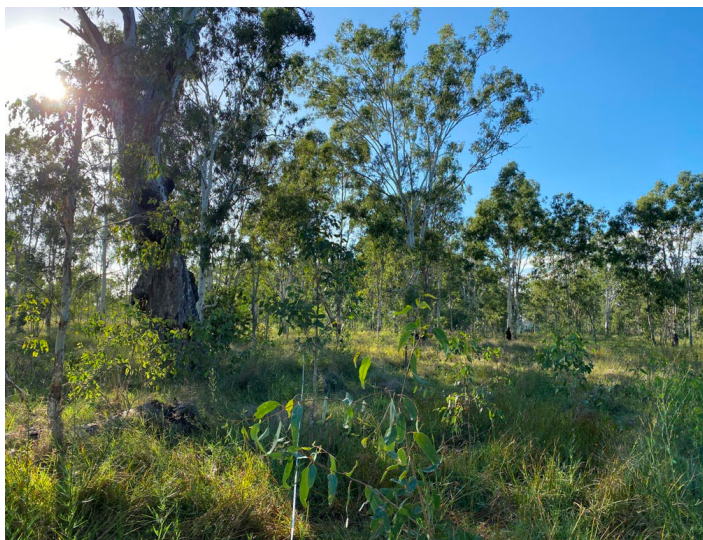
Landscape (panorama) photo/s of the general terrain



Start of Transect



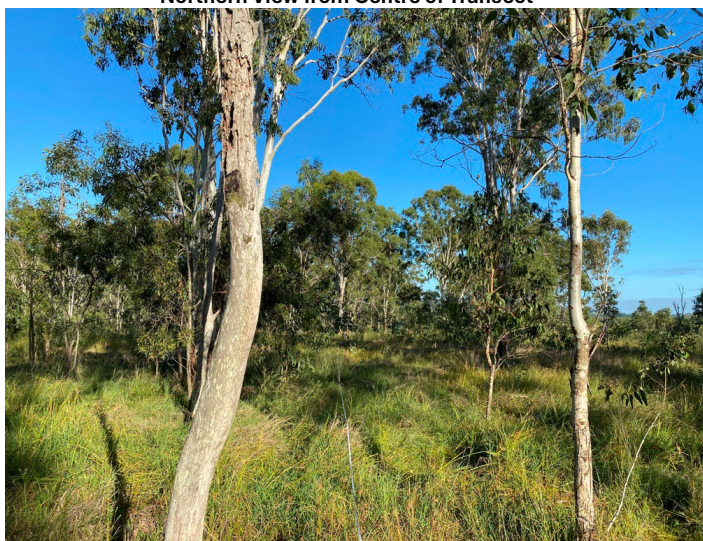
End of Transect



Northern View from Centre of Transect



Eastern View from Centre of Transect



Southern View from Centre of Transect



Western View from Centre of Transect

HABITAT QUALITY ASSESSMENT

Date:	28 January 2026	Collector:	Armstrong, J.		Thagoona North BC_08	
Time:	na	Job No.	2019e – Sutgold – EPBC Woodbury Precinct			
Mapped RE:	Non-remnant (Cat X)	Description:	Areas cleared of native vegetation (grassland)			
Field RE:	Non-remnant (Cat X)	Description:	Open paddock with native and exotic herbaceous/grass species. Occasional Eucalyptus tereticornis, some regeneration			
Pre-clear RE:	12.3.3	Description:	Eucalyptus tereticornis woodland. Eucalyptus crebra and E. moluccana are sometimes present and may be relatively abundant in places, especially on edges of plains and higher level alluvium.			
Plot size:	100x50					
Slope:	Aspect:	Landform (local):	Landform (broad):			
Flat	Flat	Alluvial plain	Flood plain			
Slope Shape:	flat to concave					
Coarse Woody Debris (50x20m Area)	All logs >10cm, >0.5m with 50 x 20m plot boundary					
	Site Total:	Nil				
	Per ha Total: (*10)	0				
100x50m Area						
Strata and Height (record the height of up to 5 individual trees, where available). Take height measurements outside of plot where suitable e.g. emergent layer			(NB: *Ecologically Dominant Layer. Tree defined as single stemmed over 2m. All tree species in the 100 x 50m (not just EDL species) – Specify species (* indicates a recruiting species)			
Emergent		Dominant / Codominant: <i>Eucalyptus tereticornis</i>		Associated / Suppressed: <i>Acacia maidenii</i>		
T1	<i>Eucalyptus tereticornis</i> 18m	Proportion of EDL species with evidence of recruitment (Recruitment is expressed as the proportion of dominant species present at a site that are regenerating)			100%	
T2						
T3		Total Native Tree Spp. Richness			2	
50x10m area						
Native plant species richness - (NB: List species if known or count if unknown. Shrub is defined as single stemmed below 2m or multi-stemmed from base or below 20cm)					Total	
Shrub	<i>Eucalyptus tereticornis</i> , <i>Acacia maidenii</i>				2	
Grass	<i>Bothriochloa bladhii</i> , <i>Eriochloa</i> sp.				2	
Forb	<i>Glycine</i> sp., <i>Fimbristylis</i> sp., <i>Sida spicata</i> , <i>Lobelia concolor</i> , <i>Haloragis heterophylla</i> , <i>Brachyscome dentata</i> <i>Eclipta platyglossa</i> , <i>Cyperus</i> sp., <i>Centella asiatica</i> , <i>Brunoniella australis</i> , <i>Dianella</i> sp., <i>Hypericum gramineum</i> , <i>Juncus usitatus</i>				13	
Non-native plant cover (List all species)	<i>Dichanthium aristatum</i> , <i>Verbena officinalis</i> , <i>Aster subulatus</i> , <i>Gamochaeta coarctata</i> , <i>Macroptilium lathyroides</i> , <i>Cyperus rotundus</i> , <i>Erigeron bonariensis</i> , <i>Ambrosia artemisiifolia</i> , <i>Gomphrena celosioides</i> , <i>Gomphocarpus physocarpus</i> , <i>Euphorbia prostrata</i> , <i>Bidens pilosa</i> , <i>Digitaria violascens</i> , <i>Senecio madagascariensis</i> , <i>Ageratum houstonianum</i>				50%	

Five 1x1m plots	*attributes are essential to assess as used in scoring, however assessment of all attributes improves your ability to more accurately visualise proportions of each of the attributes					
Ground Cover type	1	2	3	4	5	Ave.
Native perennial ('decreaser') grass cover*	0	0	0	0	0	0
Native other grass (if relevant)*	0	0	0	0	0	0
Native forbs and other species (non-grass)	80	20	45	45	40	46
Native shrubs (<1m in height)		0	0	0	0	0
Non-native grass	2	30	40	10	50	26.4
Non-native forbs and shrubs	1	5	0	0	5	2.2
Litter	17	45	15	45	5	25.4
Rock	0	0	0	0	0	0
Bare ground	0	0	0	0	0	0
Other (e.g. timber, inorganic refuse)	0	0	0	0	0	0
TOTAL	100%	100%	100%	100%	100%	100%

100x50m Area:	*from benchmark doc				
Eucalypt large tree DBH:	540	No. of large eucalypt trees in plot:	1	Total Large Trees (ha):	2
Non-eucalypt large tree DBH:	na	No. of large non-eucalypt trees in plot:	0		

*Derived Koala Spot Assessment Technique (SAT)	Record species and all koala scats at the base of eucalypts >100 mm DBH and taller than 4 m height.				
Number of trees assessed (record number – target is 30)	Record each tree; species and number of Scats recorded				
Not completed					

Plot based tree data	Record DBH and all species within the 100 x 50m plot ; non-eucalypts >200mm dbh and all eucalypts > 300mm dbh – record multiple stems in parentheses this way (230, 250, 190)				
Species	DBH in mm				
<i>Eucalyptus tereticornis</i>	520, 530, (410, 380, 250 = 612.4)				

canopy species regeneration and number of stems	Record species and count all seedlings, saplings and young trees within the 50 x 20 m (1,000m ²)			
Species:	<10 mm DBH	10-<50mm DBH	50-<100mm DBH	100-<300 mm DBH
<i>Eucalyptus tereticornis</i>	8	4	1	7
<i>Acacia maidenii</i>	1	0	0	0

100m Transect Tree Canopy Cover Intercept	(Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present. *If trees are in the same layer and continuous along the transect group them). Canopy layer includes T1 and T2 layers, but not T3. Record height of each tree.					
Species	Strata (C or S or E)	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
<i>Eucalyptus tereticornis</i>	C (T1)	16	83.4	90.9	7.5	7.5
Total Canopy (T1) Cover					7.5m (7.5%) Med ht: 16 m	
Average Canopy (T1) and Canopy (T2) Cover					7.5m (7.5%) Med ht: 16 m	

100m Transect Shrub canopy cover		* denote as native or exotic. Only native shrub cover is used in the scoring. Shrub - Woody plant that is multi-stemmed from the base (or within 200 mm from ground level) <8 m tall , or if single stemmed, less than 2 m tall				
Species	Strata: Shrub	Height (m)	Intercept Range (m)		Cover (m)	Corrected Cover (m)
			start:	end:		
Nil shrubs						
Total Native Shrub Cover					0 m (0%) Med ht:0 m	
Total Non-native Shrub Cover					0 m (0%) Med ht:0 m	

Site Photos



Landscape (panorama) photo/s of the general terrain



Start of Transect



End of Transect



Northern View from Centre of Transect



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