

APPENDIX

O

Matters of National Environmental Significance Report

Part 2 of 6

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

APPENDIX

O

Matters of National Environmental Significance Report

Appendix A Additional ecological investigations post submission of the draft EIS

CONTINUED

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

APPENDIX

B

FLORA SURVEY SITES

Flora Sites

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

-  Flora Study Area
-  Post-Wet Survey Quaternary
-  Spring Survey Quaternary
-  Post-Wet Survey Biocondition Transect
-  Major Watercourse (DNRME, 2020)

Suburb labels as per
Australian Bureau of Statistics (2011)

1:35,000 Scale at A3

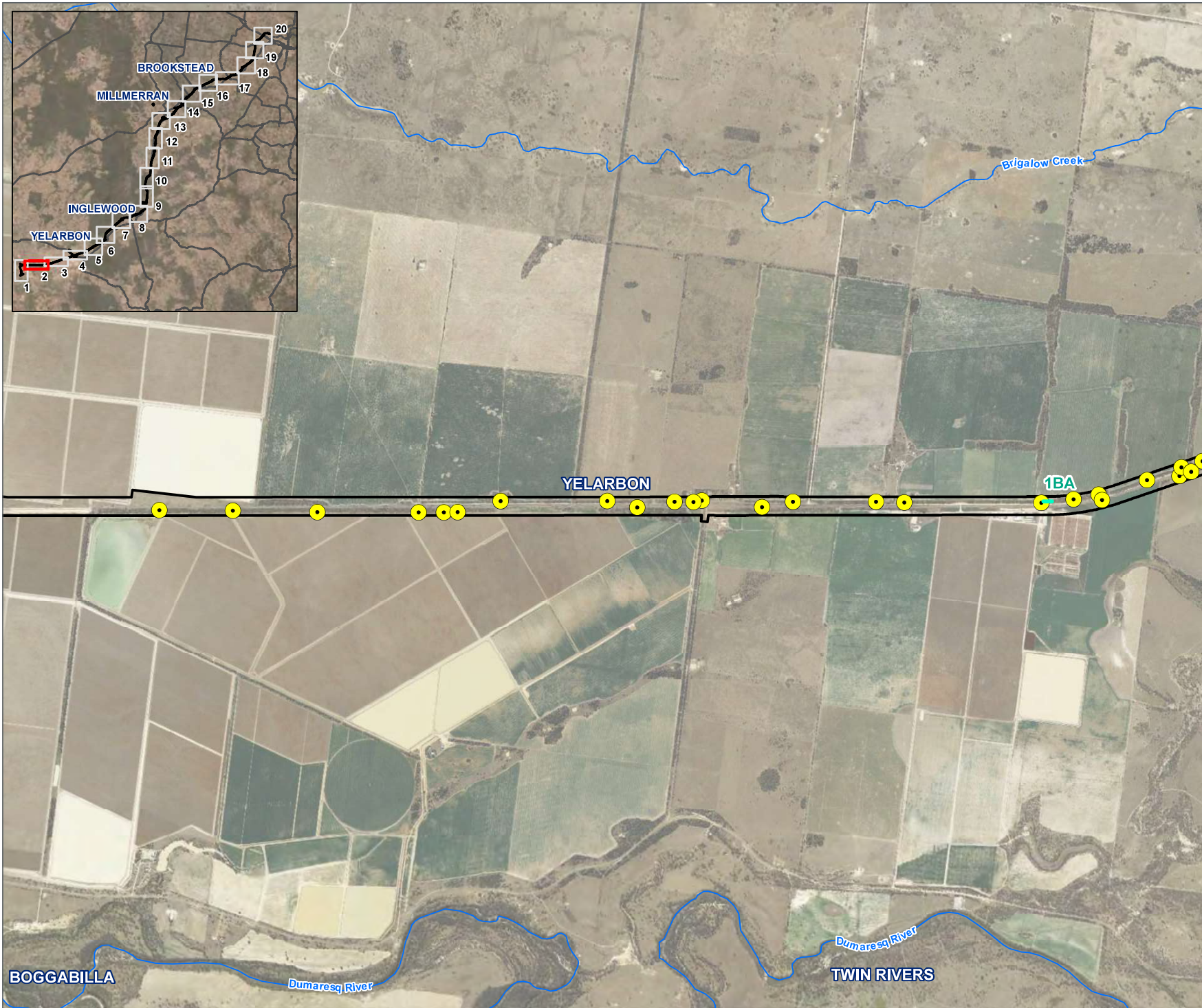
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m



 Cardno

Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
Date: 2021-05-21 | Project: NE30044
Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-470-Report_BC_Quaternary.mxd 02
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Flora Sites

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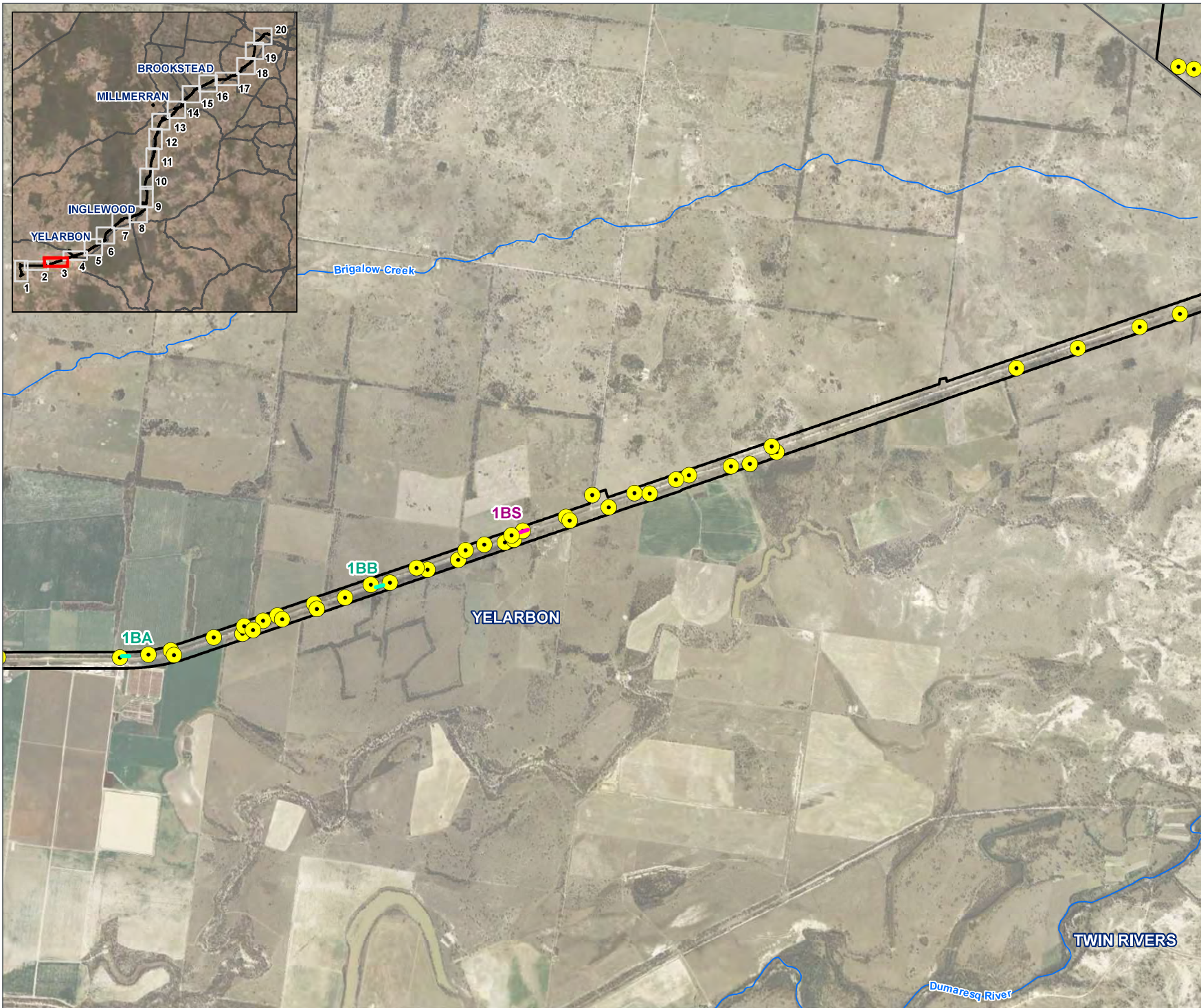
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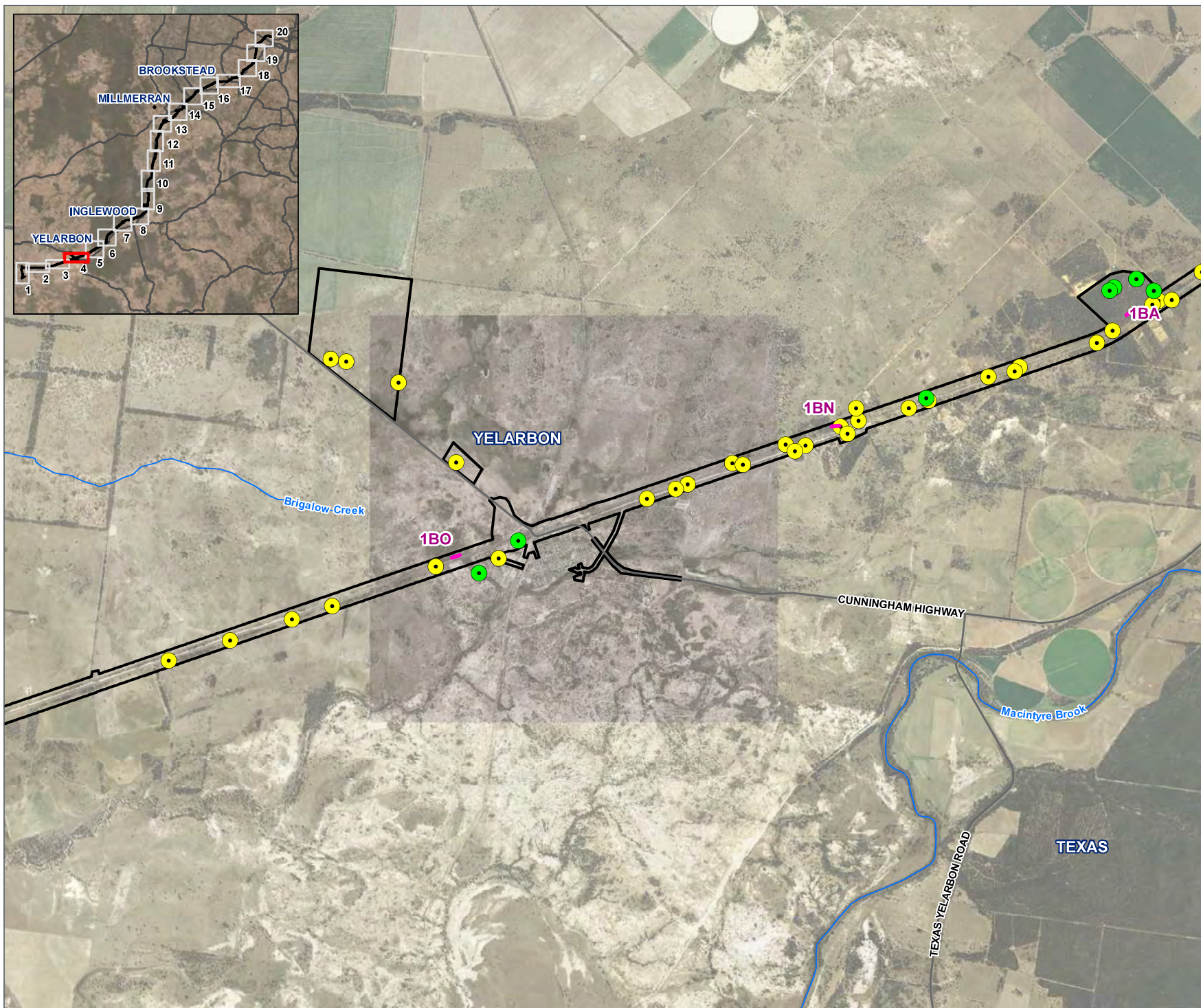
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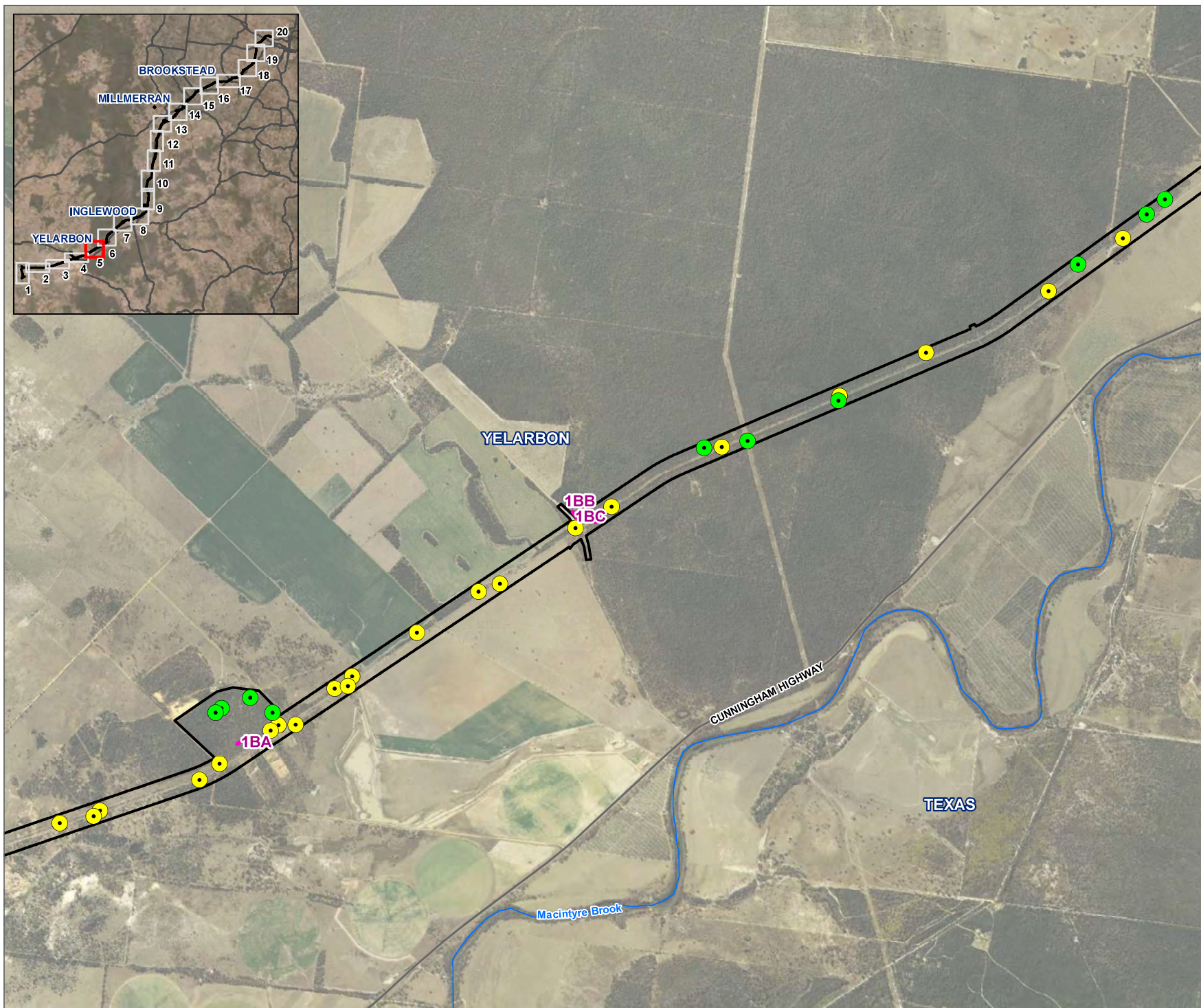
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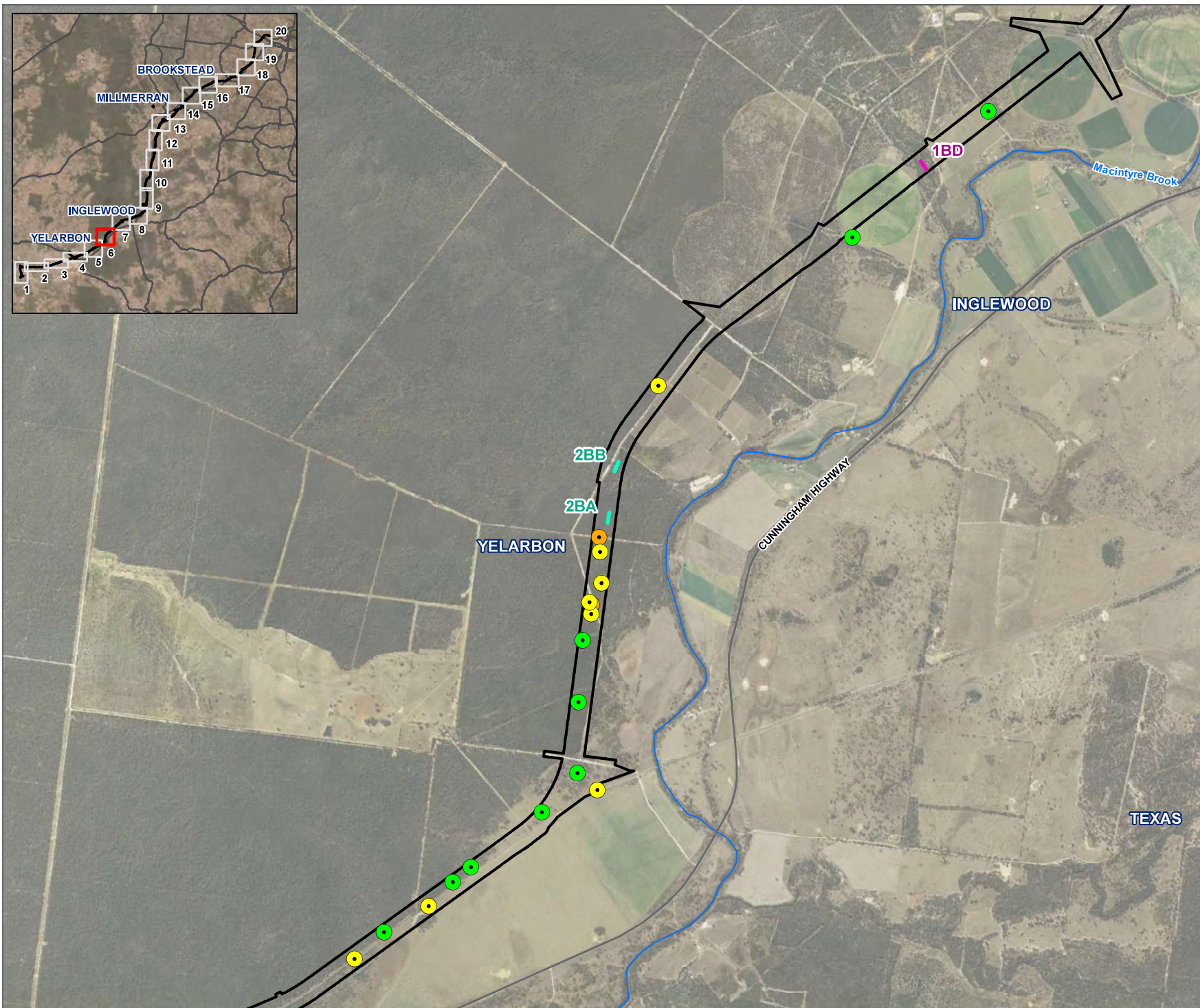
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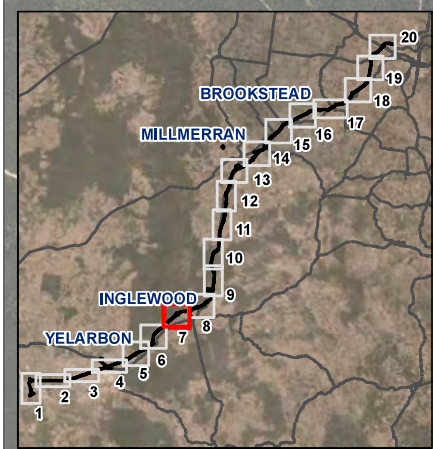
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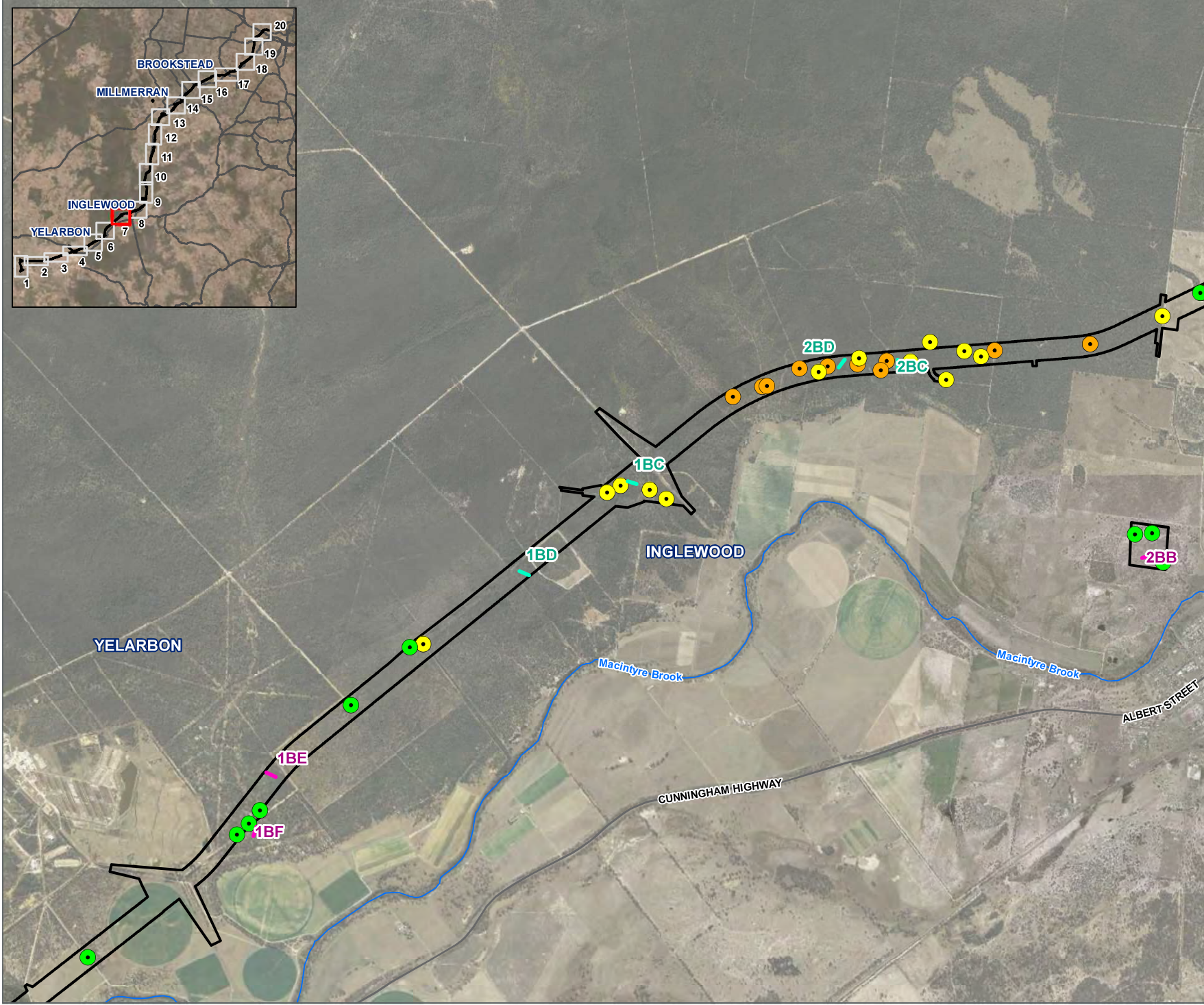


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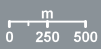
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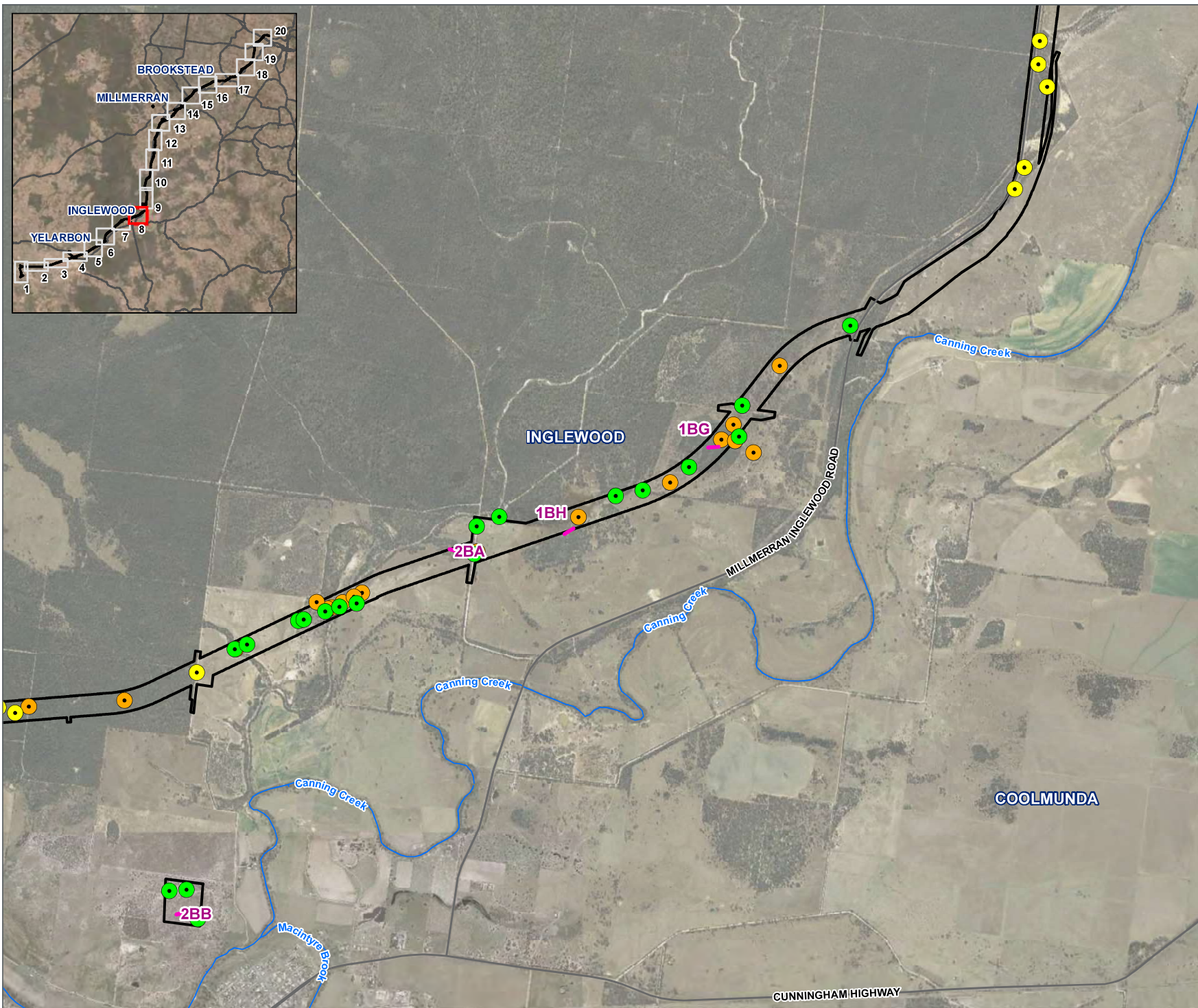


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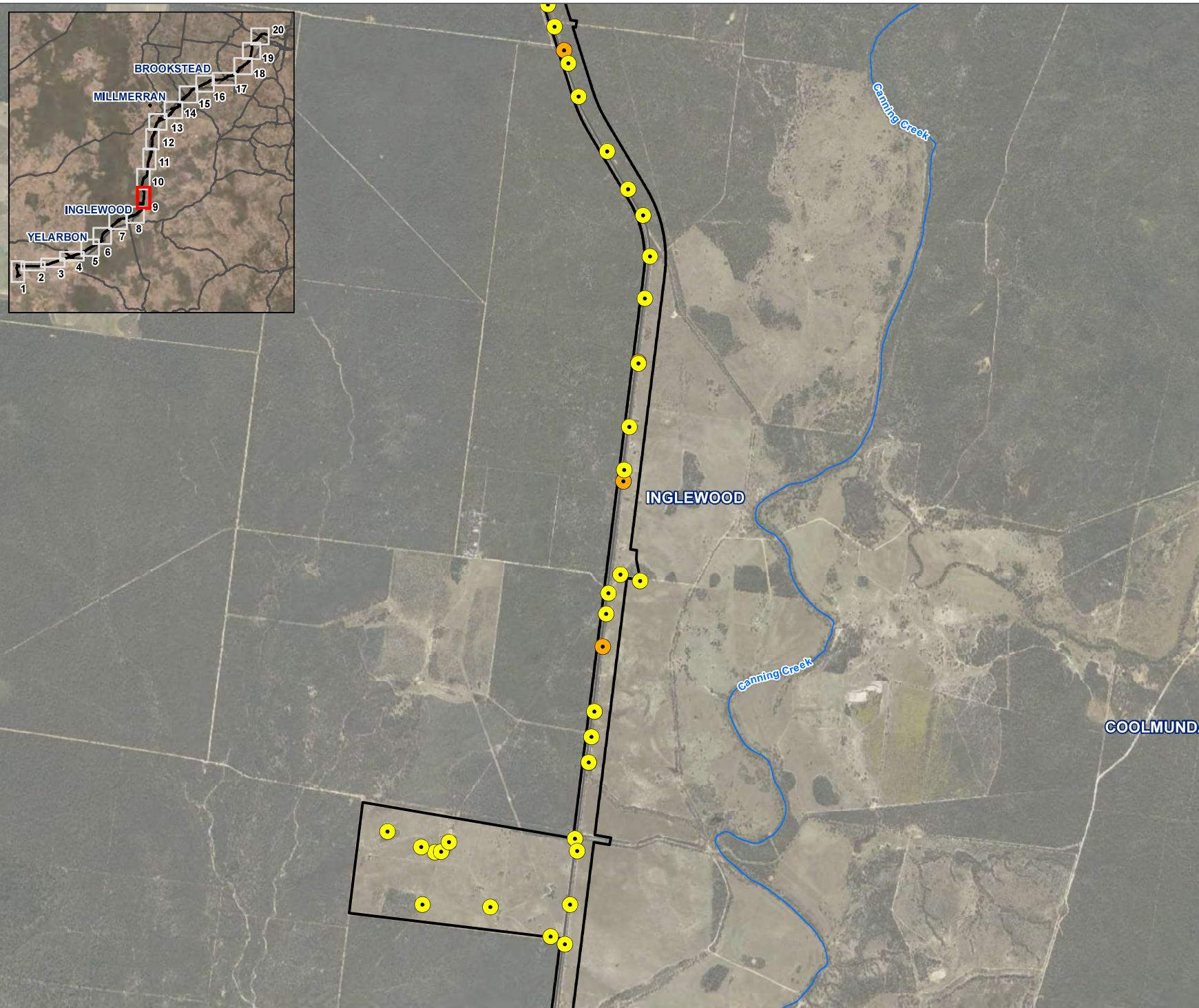
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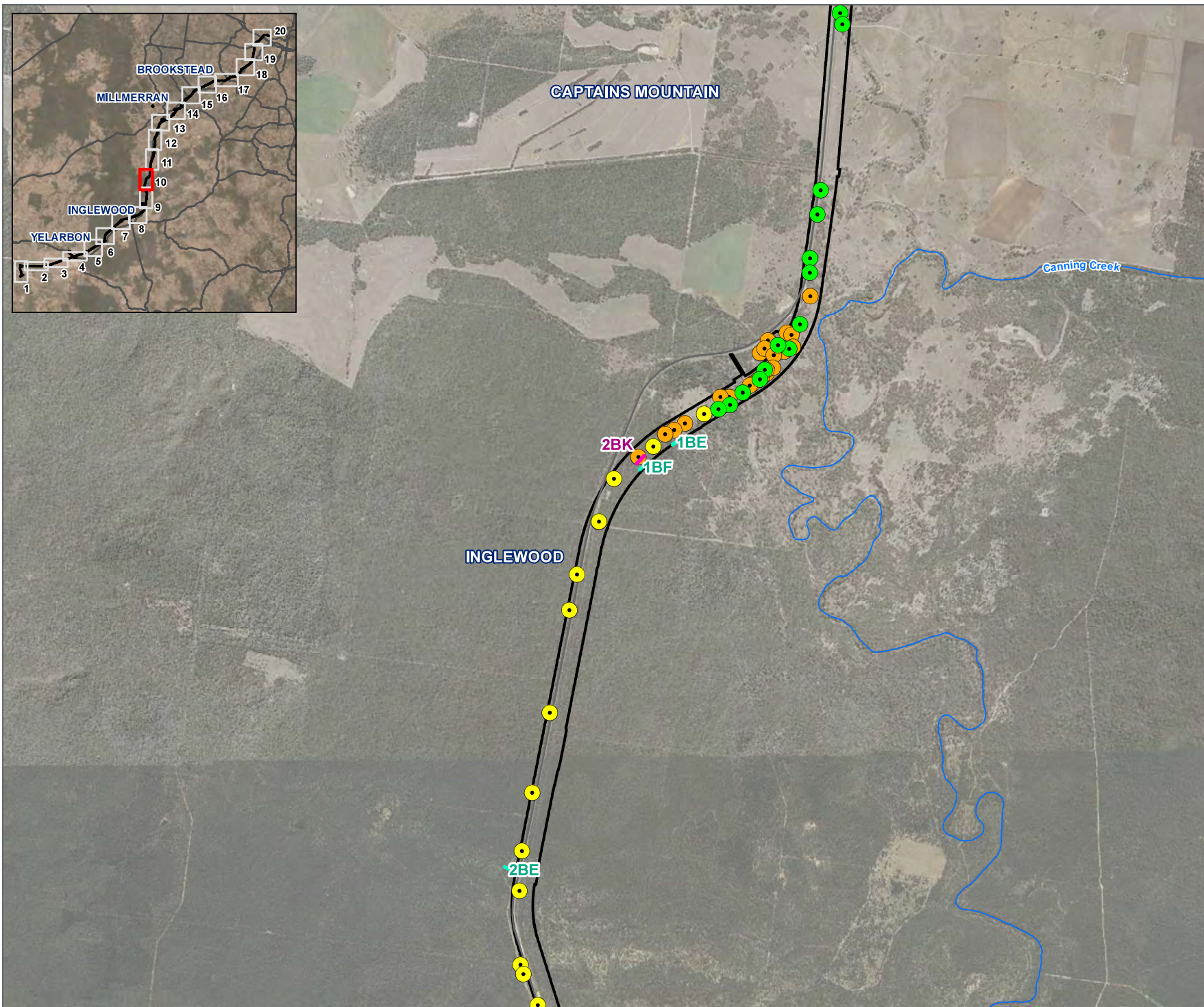
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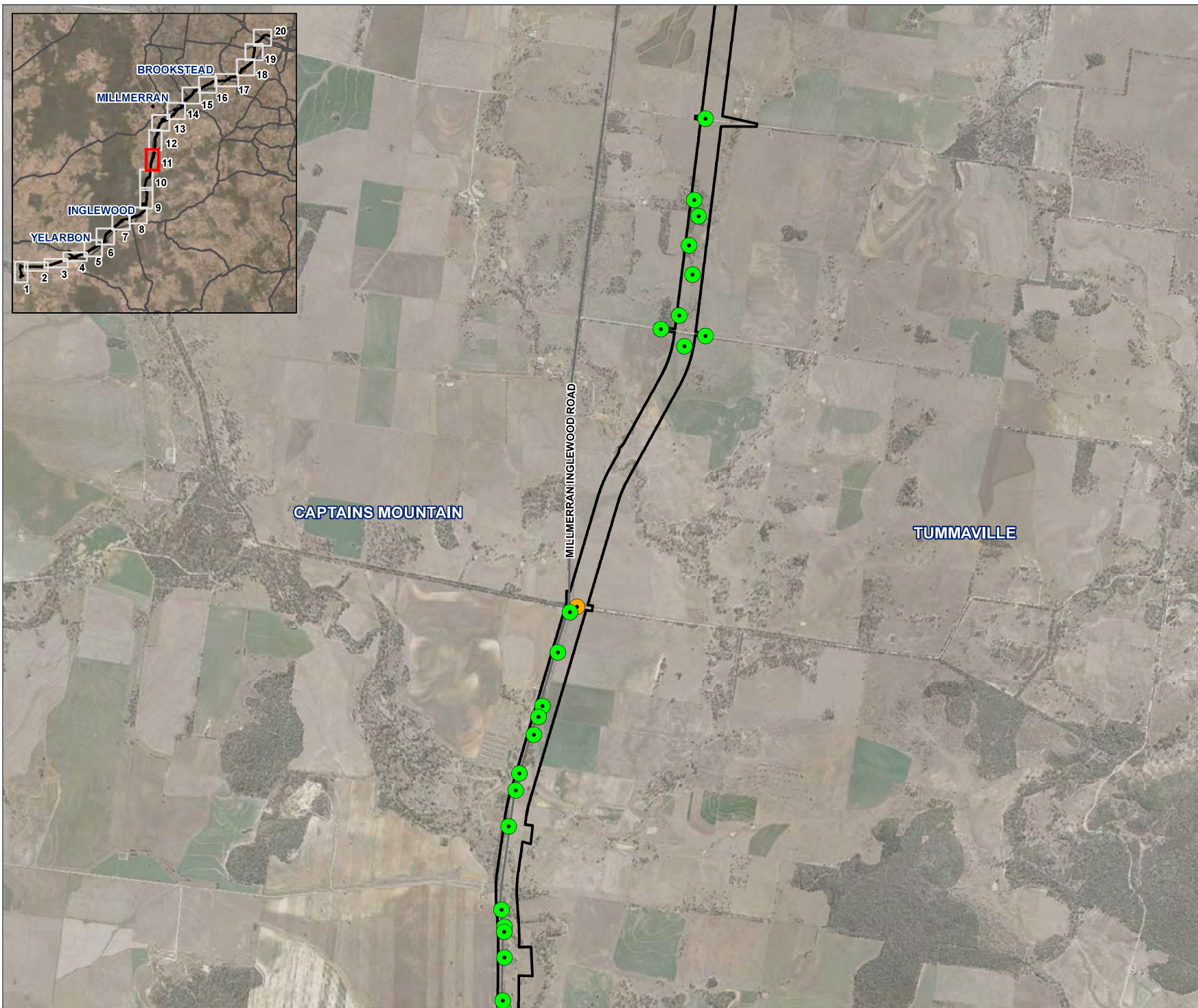
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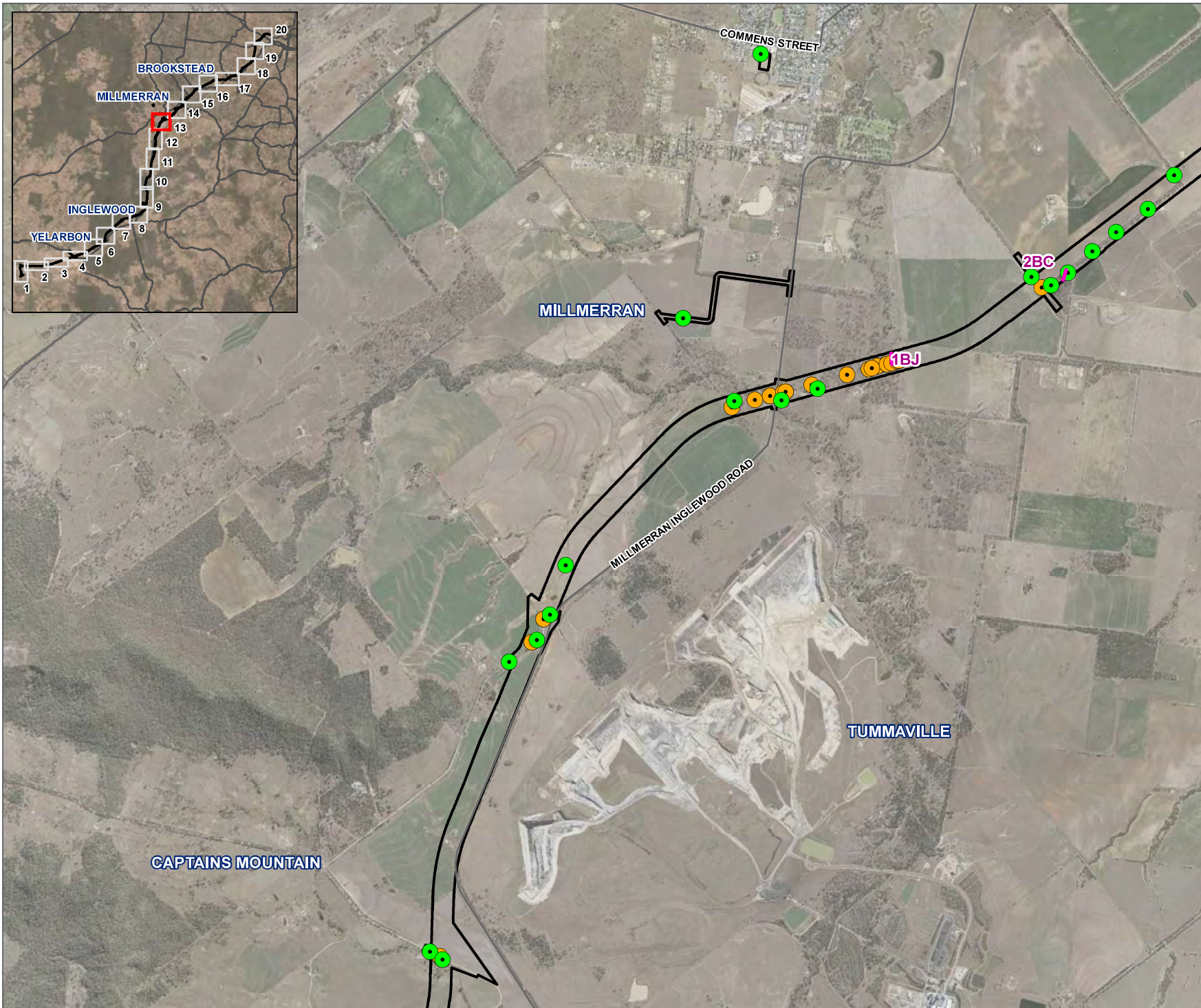
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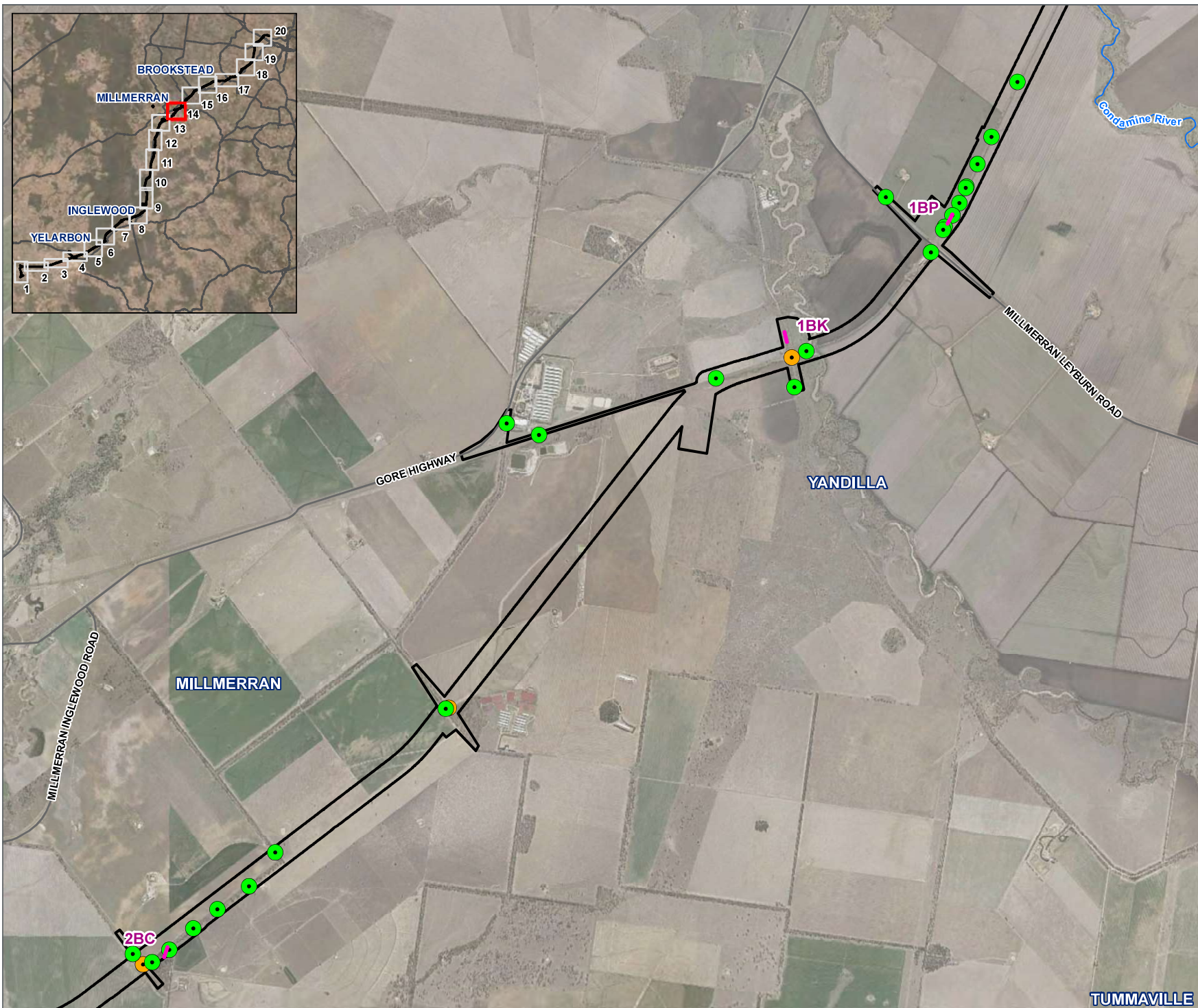
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TUMMAVILLE



Flora Sites

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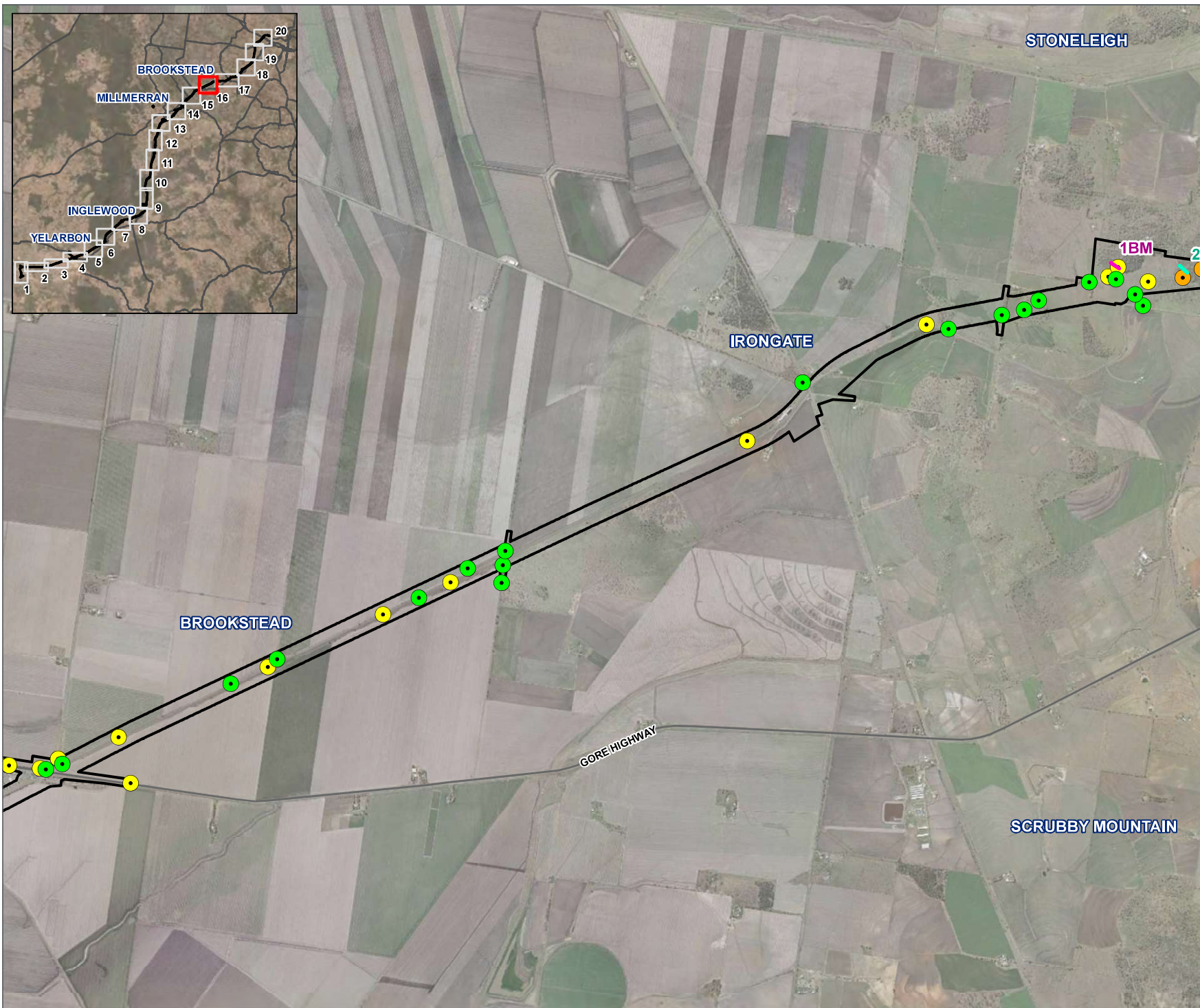
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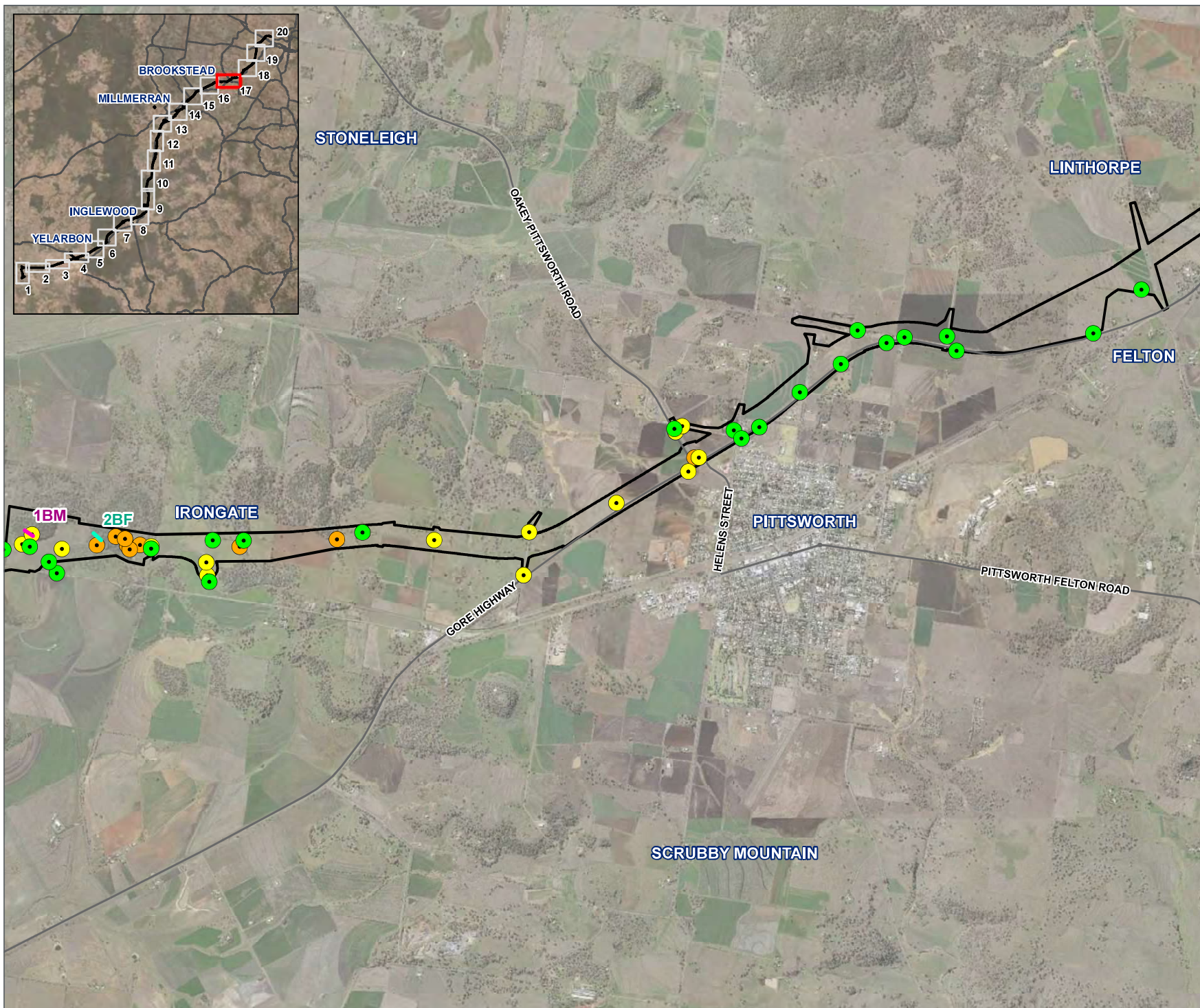
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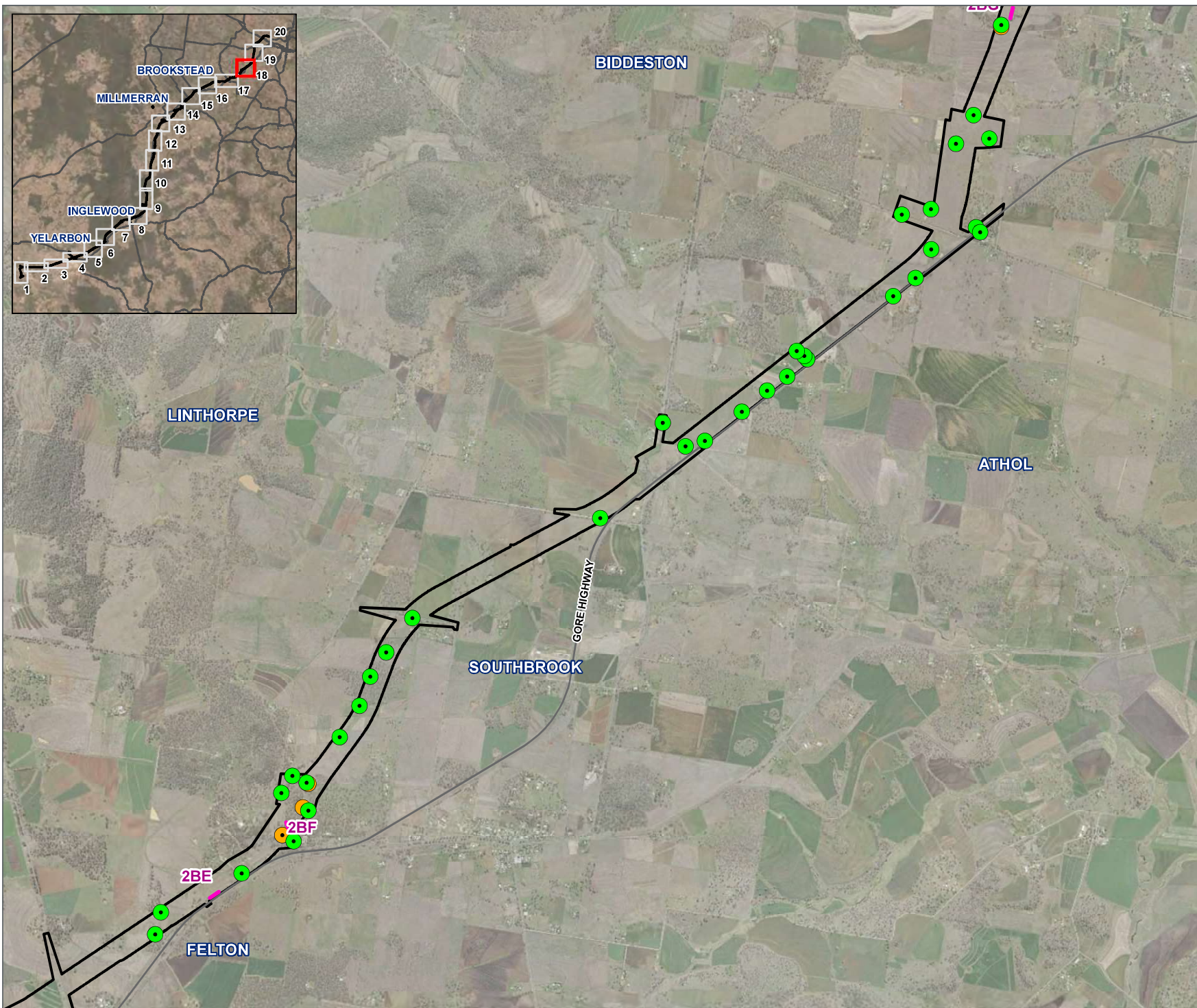
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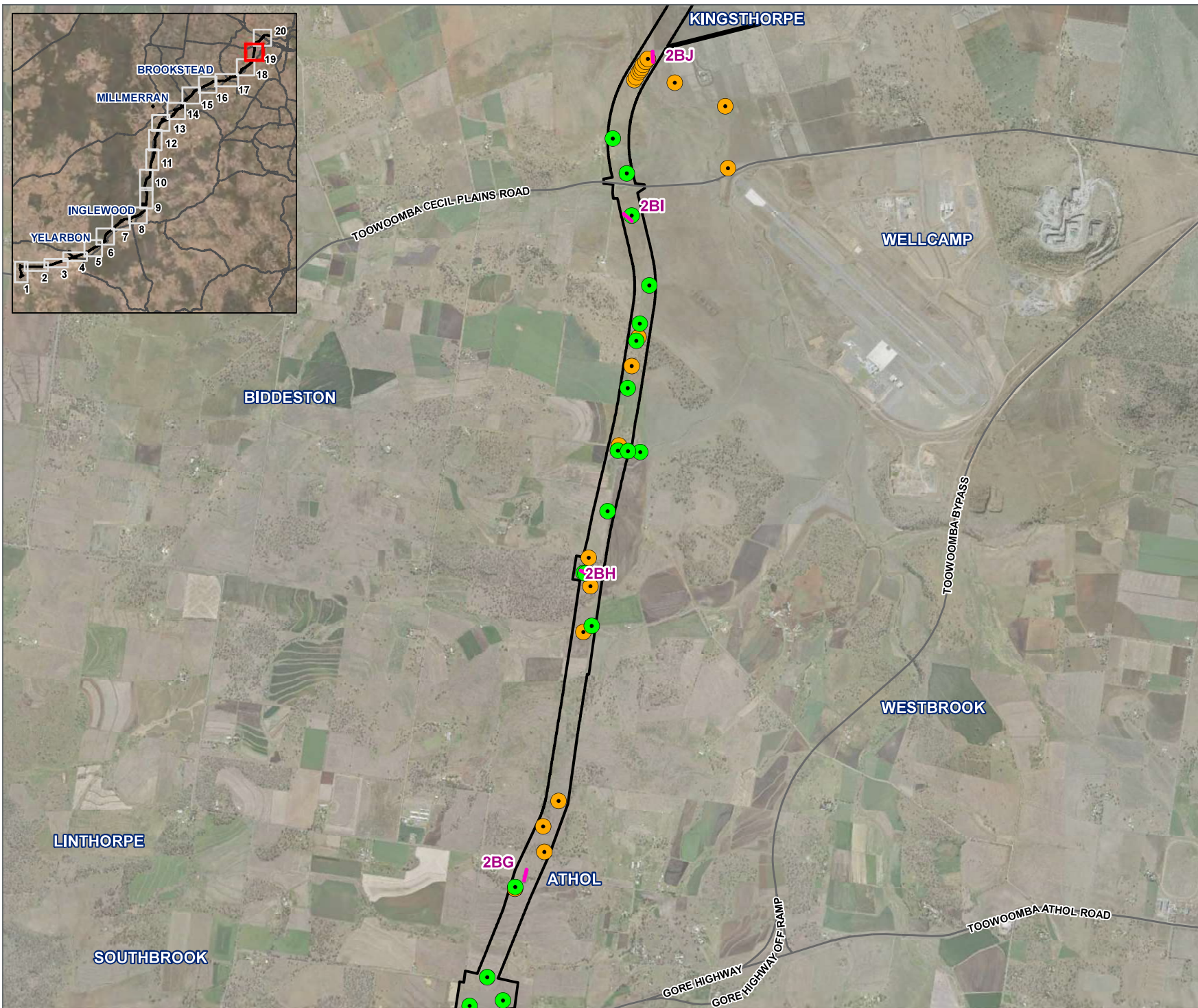
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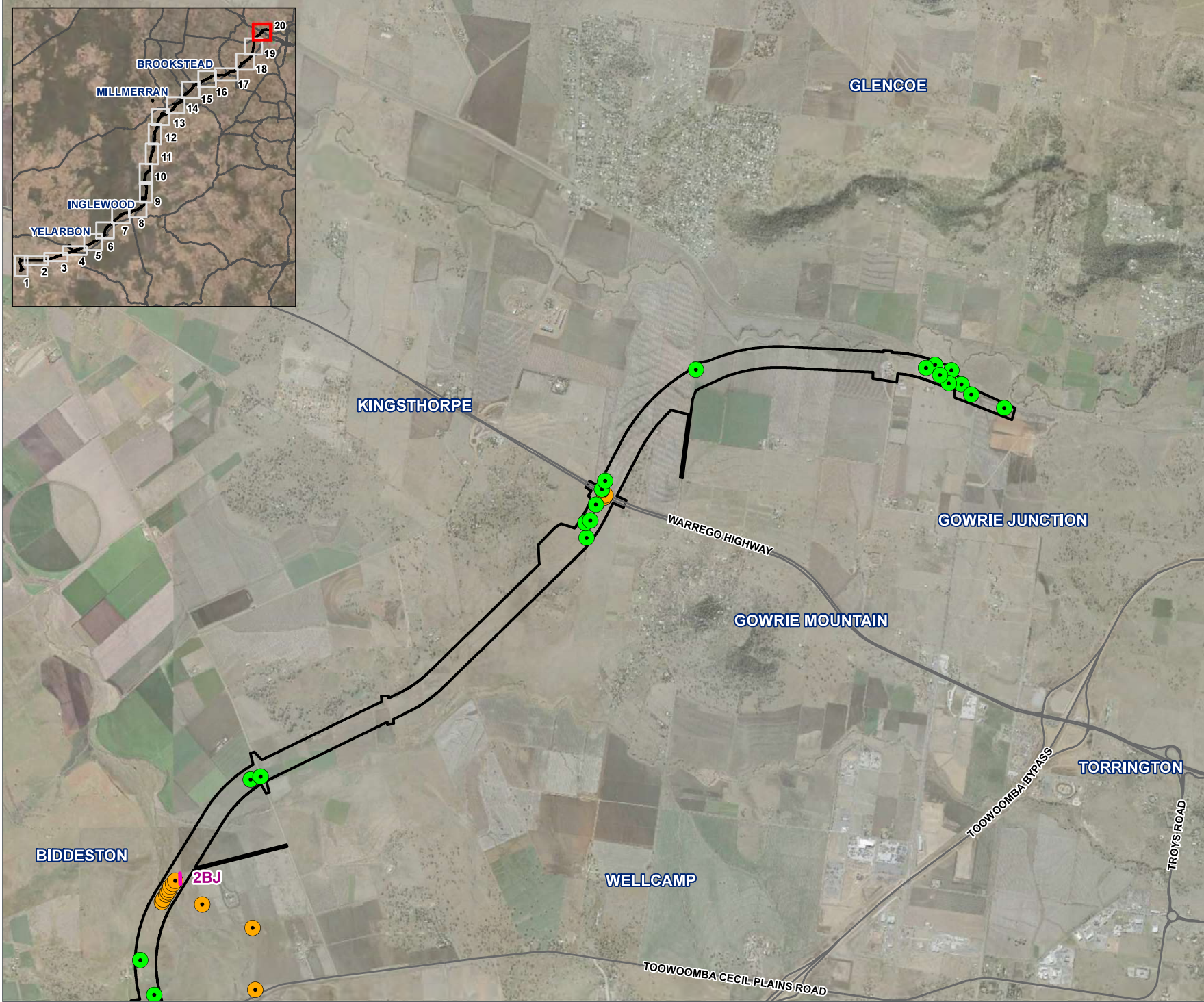
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APPENDIX

C

BIOCONDITION DATA

Spring biocondition data

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BA
	Date:	5/11/2020
	Observers:	DF_AF

100 x 50m Area SITE INFORMATION

Location:	Brigalow Belt - South		Bioregion:	Brigalow belt				
Datum:	GDA94							
Plot Origin:	Zone:	56	Easting:	150.5920	Northing:	-28.6157	Accuracy:	+/-10m
Datum:	GDA94		Plot bearing:	70°				
Locality description:								

Regional Ecosystem and Tree Heights

Habitat Description:	<i>Casuarina cristata</i> open forest						
Regional Ecosystem:	11.4.3	Median Tree Canopy ht:	10	Emergent ht:		Subcanopy ht:	5

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 20

Per ha Total (m): 200

Site Total (m): 100

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass		5	1			1.2
% Native annual grass						
% Native forbs and other species	3		2	1	4	2
% Native shrubs (<1m in height)	2		1	4		1.4
% Non-native grass						
% Non-native forbs & shrubs		6				1.2
% Litter	89	64	48	30	66	59.4
% Rock						
% Bare ground	6	25	45	65	30	34.2
% Cryptograms			3			0.6
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BA
Entered:.....	Date:	5/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	33%
Total No. Large Trees:	6
Total No. Large Trees per ha:	12
Native Tree Species Richness:	4
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 6
	# of trees >= benchmark per ha: 12

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	11
Grass spp. richness:	5
Forbs and others spp. richness:	13
Non-native plant cover (%)	8%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Casuarina cristata</i>		Canopy		Yes
<i>Atalaya hemiglauc</i>		Canopy	Subcanopy	
<i>Capparis loranthifolia</i>			Subcanopy	
<i>Santalum lanceolatum</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Abutilon fraseri</i>		Forbs/Other	
<i>Acacia harpophylla</i>		Tree	
<i>Apophyllum anomalum</i>		Shrub	
<i>Atalaya hemiglauca</i>		Tree	
<i>Austrostipa scabra</i>		Grass	
<i>Brunoniella australis</i>		Forbs/Other	
<i>Calotis cuneata</i>		Forbs/Other	
<i>Capparis lasiantha</i>		Shrub	
<i>Capparis mitchellii</i>		Tree	
<i>Carissa ovata</i>		Shrub	
<i>Casuarina cristata</i>		Tree	
<i>Cheilanthes distans</i>		Forbs/Other	
<i>Citrus glauca</i>		Shrub	
<i>Einadia nutans</i>		Forbs/Other	
<i>Elaeodendron australe</i> var. <i>integrifolium</i>		Tree	
<i>Enteropogon ramosus</i>		Grass	
<i>Eremophila deserti</i>		Shrub	
<i>Eremophila mitchellii</i>		Tree	
<i>Eriochloa crebra</i>		Grass	
<i>Geijera parviflora</i>		Shrub	
<i>Glycine tabacina</i>		Forbs/Other	
<i>Harrisia martinii</i>		Shrub	*
<i>Jasminum didymum</i> subsp. <i>lineare</i>		Forbs/Other	
<i>Lomandra leucocephala</i>		Grass	
<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>		Grass	*
Species indeterminate	Native Poaceae	Grass	
<i>Nyssanthus erecta</i>		Forbs/Other	
<i>Opuntia tomentosa</i>		Shrub	*
<i>Parsonsia eucalyptophylla</i>		Forbs/Other	
<i>Pittosporum angustifolium</i>		Tree	
<i>Portulaca oleracea</i>		Forbs/Other	
<i>Rhagodia spinescens</i>		Shrub	
<i>Zygophyllum apiculatum</i>		Forbs/Other	
<i>Santalum lanceolatum</i>		Shrub	
<i>Scaevola spinescens</i>		Shrub	
<i>Sclerolaena birchii</i>		Shrub	
<i>Sclerolaena tetracuspis</i>		Forbs/Other	
<i>Senna artemisioides</i>		Shrub	
<i>Sida cunninghamii</i>		Forbs/Other	
<i>Tetragonia tetragonoides</i>		Forbs/Other	

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Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	8.4
Canopy total (m):	34.8
Emergent total (m):	0
Shrub total (m):	50.4

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Casuarina cristata</i>	Canopy	0	7.7	7.7
<i>Geijera parviflora</i>	Shrub	0.6	6.6	6
<i>Atalaya hemiglauc</i>	Canopy	7.3	8.7	1.4
<i>Geijera parviflora</i>	Shrub	12.6	22	9.4
<i>Casuarina cristata</i>	Subcanopy	13.6	14.6	1
<i>Atalaya hemiglauc</i>	Canopy	15.5	21.8	6.3
<i>Casuarina cristata</i>	Canopy	22.6	27.2	4.6
<i>Eremophila deserti</i>	Shrub	21.1	21.4	0.3
<i>Atalaya hemiglauc</i>	Subcanopy	24.2	25.3	1.1
<i>Capparis loranthifolia</i>	Subcanopy	29.9	33	3.1
<i>Atalaya hemiglauc</i>	Shrub	30.4	30.6	0.2
<i>Atalaya hemiglauc</i>	Subcanopy	30.3	30.8	0.5
<i>Citrus glauca</i>	Shrub	31.7	32.2	0.5
<i>Geijera parviflora</i>	Shrub	32.1	37.7	5.6
<i>Santalum lanceolatum</i>	Subcanopy	36	36.5	0.5
<i>Casuarina cristata</i>	Canopy	39.5	48.4	8.9
<i>Geijera parviflora</i>	Shrub	38.7	39	0.3
<i>Geijera parviflora</i>	Shrub	47.8	58.5	10.7
<i>Geijera parviflora</i>	Shrub	59.9	64.5	4.6
<i>Scaevola spinescens</i>	Shrub	60.6	62.1	1.5
<i>Casuarina cristata</i>	Subcanopy	62.9	65.6	2.7
<i>Geijera parviflora</i>	Shrub	66.4	77.5	11.1
<i>Apophyllum anomalum</i>	Shrub	75	76.1	1.1
<i>Citrus glauca</i>	Subcanopy	78.7	80.9	2.2
<i>Casuarina cristata</i>	Canopy	85.3	88.9	3.6
<i>Eremophila deserti</i>	Shrub	85.8	87	1.2
<i>Eremophila deserti</i>	Shrub	87.4	88.4	1
<i>Geijera parviflora</i>	Shrub	88.9	90.1	1.2
<i>Casuarina cristata</i>	Canopy	94.5	97.2	2.7
<i>Scaevola spinescens</i>	Shrub	94.8	95.2	0.4

<i>Eremophila deserti</i>		Shrub	95.1	95.8	0.7
<i>Geijera parviflora</i>		Shrub	96.7	98.8	2.1

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BB
	Date:	5/11/2020
	Observers:	DF_AF

100 x 50m Area

SITE INFORMATION

Location:	Brigalow Belt - South	Bioregion:	Brigalow belt					
Plot Origin:	Zone:	56	Easting:	150.624	Northing:	-28.6086	Accuracy:	+/-10m
Datum:	GDA94	Plot bearing:	60°					
Locality description:								

Regional Ecosystem and Tree Heights

Habitat Description:	<i>Casuarina cristata</i> forest						
Regional Ecosystem:	11.4.3	Median Tree Canopy ht:	18	Emergent ht:		Subcanopy ht:	6

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 106

Per ha Total (m): 1060

Site Total (m): 530

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass		15	5	20	7	9.4
% Native annual grass						
% Native forbs and other species	1	5	1	5	3	3
% Native shrubs (<1m in height)						
% Non-native grass						
% Non-native forbs & shrubs				3	1	0.8
% Litter	89	75	91	66	85	81.2
% Rock				3		0.6
% Bare ground	10	5		3	4	4.4
% Cryptogams			3			0.6
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BB
Entered:.....	Date:	5/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	100%
Total No. Large Trees:	34
Total No. Large Trees per ha:	68
Native Tree Species Richness:	1
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 34
	# of trees >= benchmark per ha: 68

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	4
Grass spp. richness:	2
Forbs and others spp. richness:	15
Non-native plant cover (%)	1%

100 x 50m area			
Species	EDL	Non-EDL	Recruitment
<i>Casuarina cristata</i>	Canopy	Subcanopy	Yes

50 x 10m area

Species		Life Form	Status
<i>Abutilon oxycarpum</i>		Forbs/Other	
<i>Alectryon diversifolius</i>		Shrub	
<i>Alternanthera denticulata</i>		Forbs/Other	
<i>Amyema cambagei</i>		Forbs/Other	
<i>Brachyscome dentata</i>		Forbs/Other	
<i>Casuarina cristata</i>		Tree	
<i>Casuarina cristata</i>		Tree	
<i>Cirsium vulgare</i>		Forbs/Other	*
<i>Dysphania carinata</i>		Forbs/Other	
<i>Einadia nutans</i>		Forbs/Other	
<i>Einadia nutans</i> subsp. <i>linifolia</i>		Forbs/Other	
<i>Euphorbia dallachyana</i>		Forbs/Other	
<i>Harrisia martinii</i>		Shrub	*
<i>Leptochloa digitata</i>		Grass	
Species indeterminate	Native Cyperaceae	Forbs/Other	
<i>Opuntia tomentosa</i>		Shrub	*
<i>Phyllanthus maderaspatensis</i>		Shrub	
<i>Physalis lanceifolia</i>		Forbs/Other	*
<i>Plantago debilis</i>		Forbs/Other	
<i>Portulaca oleracea</i>		Forbs/Other	
<i>Sclerolaena birchii</i>		Shrub	
<i>Sclerolaena muricata</i> var. <i>villosa</i>		Shrub	
<i>Sclerolaena tetracuspis</i>		Forbs/Other	
<i>Sida cunninghamii</i>		Forbs/Other	
<i>Solanum ellipticum</i>		Forbs/Other	
<i>Sonchus oleraceus</i>		Forbs/Other	*
<i>Tetragonia tetragonoides</i>		Forbs/Other	
<i>Walwhalleya subxerophila</i>		Grass	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BB
Entered:.....	Date:	5/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	5.5
Canopy total (m):	67
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Casuarina cristata</i>		Canopy	2.5	11	8.5
<i>Casuarina cristata</i>		Canopy	15.5	23.5	8
<i>Casuarina cristata</i>		Canopy	26	36.5	10.5
<i>Casuarina cristata</i>		Canopy	40	66.5	26.5
<i>Casuarina cristata</i>		Subcanopy	52	57.5	5.5
<i>Casuarina cristata</i>		Canopy	78.5	83.5	5
<i>Casuarina cristata</i>		Canopy	85	93.5	8.5

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BC
	Date:	7/11/2020
	Observers:	DF_AF

100 x 50m Area

SITE INFORMATION

Location:	Brigalow Belt - South	Bioregion:	Brigalow belt					
Plot Origin:	Zone:	56	Easting:	151.0230	Northing:	-28.3998	Accuracy:	+/-10m
Datum:	GDA94	Plot bearing:	270°					
Locality description:	144MH194							

Regional Ecosystem and Tree Heights

Habitat Description:	Poplar box and Narrow leaf iron bark open forest						
Regional Ecosystem:	11.5.1	Median Tree Canopy ht:	13	Emergent ht:		Subcanopy ht:	8

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	94
Per ha Total (m):	940
Site Total (m):	470

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	5	3	5	5	2	4
% Native annual grass						
% Native forbs and other species	1	2	10	13		5.2
% Native shrubs (<1m in height)		5		2		1.4
% Non-native grass						
% Non-native forbs & shrubs						
% Litter	59	85	75	70	53	68.4
% Rock	5		5	5	15	6
% Bare ground	30	5	5	5	30	15
% Cryptograms						
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BC
Entered:.....	Date:	7/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	100%
Total No. Large Trees:	3
Total No. Large Trees per ha:	6
Native Tree Species Richness:	2
Eucalypts:	# of trees >= benchmark: 3
	# of trees >= benchmark per ha: 6
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	8
Grass spp. richness:	6
Forbs and others spp. richness:	15
Non-native plant cover (%)	0.1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Callitris glaucophylla</i>			Subcanopy	
<i>Eucalyptus crebra</i>		Canopy	Subcanopy	Yes
<i>Eucalyptus populnea</i>		Canopy		Yes

50 x 10m area

Species		Life Form	Status
<i>Abutilon oxycarpum</i>		Forbs/Other	
<i>Acacia crassa</i>		Shrub	
<i>Acacia decora</i>		Shrub	
<i>Ancistrachne uncinulata</i>		Grass	
<i>Aristida caput-medusae</i>		Grass	
<i>Aristida jerichoensis</i>		Grass	
<i>Brunoniella australis</i>		Forbs/Other	
<i>Callitris glaucophylla</i>		Tree	
<i>Capparis mitchellii</i>		Forbs/Other	
<i>Cheilanthes distans</i>		Forbs/Other	
<i>Denhamia silvestris</i>		Shrub	
<i>Dodonaea viscosa</i>		Shrub	
<i>Dysphania carinata</i>		Forbs/Other	
<i>Einadia hastata</i>		Forbs/Other	
<i>Sporobolus caroli</i>		Grass	
<i>Eremophila debilis</i>		Forbs/Other	
<i>Eucalyptus crebra</i>		Tree	
<i>Eucalyptus populnea</i>		Tree	
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>		Forbs/Other	
<i>Gahnia aspera</i>		Forbs/Other	
<i>Jasminum didymum</i> subsp. <i>lineare</i>		Forbs/Other	
<i>Lomandra filiformis</i>		Forbs/Other	
<i>Lomandra longifolia</i>		Forbs/Other	
<i>Maireana enchylaenoides</i>		Forbs/Other	
<i>Monotoca scoparia</i>		Shrub	
<i>Myoporum acuminatum</i>		Shrub	
Species indeterminate	Native <i>Eragrostis</i>	Grass	
<i>Opuntia tomentosa</i>		Shrub	*
<i>Parsonsia eucalyptophylla</i>		Forbs/Other	
<i>Paspalidium distans</i>		Grass	
<i>Phyllanthus virgatus</i>		Shrub	
<i>Phyllanthus virgatus</i>		Forbs/Other	
<i>Rhagodia spinescens</i>		Shrub	
<i>Solanum ellipticum</i>		Forbs/Other	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BC
Entered:.....	Date:	7/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	27
Canopy total (m):	58.5
Emergent total (m):	0
Shrub total (m):	7

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Eucalyptus populnea</i>	Canopy	0	4.5	4.5
<i>Acacia decora</i>	Shrub	0	2	2
<i>Callitris glaucophylla</i>	Subcanopy	6.5	8.5	2
<i>Eucalyptus populnea</i>	Canopy	15.5	24	8.5
<i>Eucalyptus populnea</i>	Canopy	26	32.5	6.5
<i>Callitris glaucophylla</i>	Canopy	26	31.5	5.5
<i>Acacia decora</i>	Shrub	27	28.5	1.5
<i>Acacia decora</i>	Shrub	31	32	1
<i>Acacia decora</i>	Shrub	34.5	35	0.5
<i>Callitris glaucophylla</i>	Subcanopy	35.5	42.5	7
<i>Eucalyptus crebra</i>	Canopy	43	48	5
<i>Callitris glaucophylla</i>	Subcanopy	44	45.5	1.5
<i>Callitris glaucophylla</i>	Subcanopy	46.5	47.5	1
<i>Eucalyptus populnea</i>	Canopy	48	61	13
<i>Callitris glaucophylla</i>	Subcanopy	49	53	4
<i>Callitris glaucophylla</i>	Subcanopy	57.5	59	1.5
<i>Eucalyptus crebra</i>	Subcanopy	62.5	63	0.5
<i>Callitris glaucophylla</i>	Subcanopy	64.5	66	1.5
<i>Callitris glaucophylla</i>	Subcanopy	67	68.5	1.5
<i>Eucalyptus populnea</i>	Canopy	67.5	79	11.5
<i>Callitris glaucophylla</i>	Subcanopy	70.5	73	2.5
<i>Callitris glaucophylla</i>	Subcanopy	79	80.5	1.5
<i>Eucalyptus crebra</i>	Canopy	89.5	100	10.5
<i>Acacia conferta</i>	Shrub	90	92	2
<i>Callitris glaucophylla</i>	Subcanopy	93	95.5	2.5

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BD
	Date:	8/11/2020
	Observers:	DF_AF

100 x 50m Area

SITE INFORMATION

Location:	Brigalow Belt - South	Bioregion:	Brigalow belt					
Plot Origin:	Zone:	56	Easting:	151.011	Northing:	-28.4072	Accuracy:	+/-10m
Datum:	GDA94	Plot bearing:	80°					
Locality description:	60MA3456							

Regional Ecosystem and Tree Heights

Habitat Description:	<i>Eucalyptus fibrosa</i> & <i>Corymbia trachyphloia</i> open forest						
Regional Ecosystem:	11.7.7	Median Tree Canopy ht:	18	Emergent ht:		Subcanopy ht:	10

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 45

Per ha Total (m): 165

Site Total (m): 225

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	69	72	30	69	51	58.2
% Native annual grass						
% Native forbs and other species	15	3	25	15	20	15.6
% Native shrubs (<1m in height)	1			1	3	1
% Non-native grass						
% Non-native forbs & shrubs						
% Litter		25	43	15	25	21.6
% Rock	10					2
% Bare ground	5		2		1	1.6
% Cryptograms						
Total	100%	100%	100%	100%	100%	

Quadrat 1:

Note: no 1 x 1 m quadrat photos recorded for this site.

Quadrat 2:

Quadrat 3:

Quadrat 4:

Quadrat 5:

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BD
	Date:	8/11/2020
	Observers:	DF_AF

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	25%
Total No. Large Trees:	3
Total No. Large Trees per ha:	6
Native Tree Species Richness:	8
Eucalypts:	# of trees>= benchmark: 0
	# of trees>= benchmark per ha: 0
Non-eucalypts:	# of trees>= benchmark: 3
	# of trees>= benchmark per ha: 6

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	6
Grass spp. richness:	5
Forbs and others spp. richness:	11
Non-native plant cover (%)	1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Acacia crassa</i>			Subcanopy	
<i>Eucalyptus fibrosa</i>		Canopy		
<i>Eucalyptus crebra</i>		Canopy		Yes
<i>Eucalyptus chloroclada</i>		Canopy		
<i>Allocasuarina inophloia</i>			Subcanopy	
<i>Corymbia trachyphloia</i>		Canopy		
<i>Acacia shirleyi</i>				
<i>Callitris glaucophylla</i>	Dead	Canopy		

50 x 10m area

Species		Life Form	Status
<i>Acacia conferta</i>		Shrub	
<i>Acacia crassa</i>		Shrub	
<i>Acacia shirleyi</i>		Tree	
<i>Actinotus gibbonsii</i>		Forbs/Other	
<i>Aristida caput-medusae</i>		Grass	
<i>Aristida jerichoensis</i>		Grass	
<i>Brunoniella australis</i>		Forbs/Other	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>		Forbs/Other	
<i>Cryptandra amara</i>		Shrub	
<i>Dodonaea triangulare</i>		Shrub	
<i>Dysphania carinata</i>		Forbs/Other	
<i>Entolasia minutifolia</i>		Grass	
<i>Goodenia glabra</i>		Forbs/Other	
<i>Haloragis aspera</i>		Forbs/Other	
<i>Hibiscus sturtii</i>		Shrub	
Species indeterminate	Native <i>Solanum</i>	Forbs/Other	
<i>Oxalis perennans</i>		Forbs/Other	
<i>Phyllanthus maderaspatensis</i>		Shrub	
<i>Pomax umbellata</i>		Forbs/Other	
<i>Thyridolepis xerophila</i>		Grass	
<i>Vittadinia cuneata</i> var. <i>hirsuta</i>		Forbs/Other	
<i>Wahlenbergia communis</i>		Forbs/Other	
<i>Walwhalleya subxerophila</i>		Grass	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BD
Entered:.....	Date:	8/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	8.5
Canopy total (m):	29.5
Emergent total (m):	0
Shrub total (m):	6

100m Transect: Tree Shrub and Canopy Cover:

Species		Type	Start	Finish	Total
Acacia crassa		Subcanopy	0	3	3
Eucalyptus fibrosa		Canopy	5	6.5	1.5
Eucalyptus crebra		Canopy	6.5	14	7.5
Eucalyptus crebra		Canopy	15	17	2
Acacia crassa		Subcanopy	16	18	2
Acacia conferta		Shrub	18	18.5	0.5
Eucalyptus crebra		Canopy	19	26	7
Acacia crassa		Shrub	30	31.5	1.5
Eucalyptus crebra		Canopy	33	36	3
Acacia conferta		Shrub	37	38	1
Eucalyptus crebra		Canopy	40.5	42	1.5
Acacia crassa		Shrub	41	44	3
Eucalyptus crebra		Canopy	44	46	2
Eucalyptus chloroclada		Canopy	46.5	48.5	2
Acacia crassa		Subcanopy	59.5	61	1.5
Allocasuarina inophloia		Subcanopy	61	63	2
Corymbia trachyphloia		Canopy	66	69	3
Callitris glaucophylla	Dead	Canopy	72.5	100	27.5

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BA
	Date:	8/11/2020
	Observers:	BJ_KS

100 x 50m Area

SITE INFORMATION

Location:	Brigalow Belt - South	Bioregion:	Brigalow belt					
Plot Origin:	Zone:	56	Easting:	150.9310	Northing:	-28.4738	Accuracy:	+/-10m
Datum:	GDA94	Plot bearing:	210°					
Locality description:	58SP169187							

Regional Ecosystem and Tree Heights

Habitat Description:	<i>Eucalyptus chloroclada</i> and <i>Callitris glaucophylla</i> woodland						
Regional Ecosystem:	11.5.1	Median Tree Canopy ht:	12	Emergent ht:		Subcanopy ht:	6

Site Photos:

North:



South:



East:



West:

Note: only three site photos recorded for this location.

50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 113

Per ha Total (m): 1130

Site Total (m): 565

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	25	40	77	65	80	57.4
% Native annual grass						
% Native forbs and other species		3	3	2	4	2.4
% Native shrubs (<1m in height)	1	1			1	0.6
% Non-native grass						
% Non-native forbs & shrubs						
% Litter	39	27	10	21	10	21.4
% Rock						
% Bare ground	35	29	10	12	5	18.2
% Cryptograms						
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BA
Entered:.....	Date:	8/11/2020
Checked:.....	Observers:	BJ_KS
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	75%
Total No. Large Trees:	20
Total No. Large Trees per ha:	40
Native Tree Species Richness:	10
Eucalypts:	# of trees >= benchmark: 3
	# of trees >= benchmark per ha: 6
Non-eucalypts:	# of trees >= benchmark: 7
	# of trees >= benchmark per ha: 14

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	3
Grass spp. richness:	7
Forbs and others spp. richness:	8
Non-native plant cover (%)	1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus chloroclada</i>		Canopy		Yes
<i>Corymbia clarksoniana</i>		Canopy		Yes
<i>Corymbia glaucophylla</i>		Canopy		Yes
<i>Allocasuarina luehmannii</i>			Subcanopy	
<i>Allocasuarina inophloia</i>			Subcanopy	
<i>Alphitonia excelsa</i>			Subcanopy	
<i>Brachychiton populneus</i>		Canopy		
<i>Acacia leiocalyx</i>			Subcanopy	
<i>Acacia concurrens</i>			Subcanopy	
<i>Alstonia constricta</i>			Subcanopy	

50 x 10m area

10		Life Form	Status
<i>Phyllanthus fuernrohrii</i>		Forbs and Other Species	
<i>Digitaria brownii</i>		Grass	
<i>Aristida jerichoensis</i>		Grass	
Species indeterminate	<i>Aristida</i> sp.	Grass	
Species indeterminate	<i>Cheilanthes</i> sp.	Forbs and Other Species	
<i>Cleistochloa subjuncea</i>		Grass	
<i>Acacia conferta</i>		Shrub	
Species indeterminate	<i>Cheilanthes</i> sp.	Grass	
<i>Calotis cuneifolia</i>		Forbs and Other Species	
<i>Portulaca australis</i>		Forbs and Other Species	
Species indeterminate	<i>Oxalis</i> sp.	Forbs and Other Species	
<i>Gahnia aspera</i>		Forbs and Other Species	
<i>Opuntia tomentosa</i>		Shrub	*
<i>Lomandra multiflora</i>		Forbs and Other Species	
<i>Setaria surgens</i>		Grass	
<i>Alphitonia excelsa</i>		Shrub	
<i>Opuntia aurantiaca</i>		Shrub	*
Species indeterminate	<i>Paspalidium</i> sp.	Grass	
<i>Haloragis aspera</i>		Forbs and Other Species	
<i>Acacia leiocalyx</i>		Shrub	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BA
Entered:.....	Date:	8/11/2020
Checked:.....	Observers:	BJ_KS
Corrected:.....		

100 x 50m Area

SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	14.3
Canopy total (m):	16.9
Emergent total (m):	0
Shrub total (m):	0.6

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
	Canopy	42.8	49.3	6.5
	Subcanopy	51.2	54.4	3.2
	Canopy	55	57	2
	Shrub	57.4	58	0.6
	Canopy	58.8	60	1.2
	Subcanopy	64.9	65.3	0.4
	Subcanopy	70.3	71.1	0.8
	Canopy	74.7	79.9	5.2
	Subcanopy	80	82.4	2.4
	Subcanopy	85	87.2	2.2
	Canopy	87.1	89.1	2
	Subcanopy	93.7	98.3	4.6
	Subcanopy	99.3	100	0.7

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BB
	Date:	8/11/2020
	Observers:	BJ_KS

100 x 50m Area SITE INFORMATION

Location:	Brigalow Belt - South	Bioregion:	Brigalow belt					
Plot Origin:	Zone:	56	Easting:	150.9319	Northing:	-28.4703	Accuracy:	+/-10m
Datum:	GDA94		Plot bearing:	0°				
Locality description:			58SP169187					

Regional Ecosystem and Tree Heights

Habitat Description:		Woodland dominated by <i>Eucalyptus tereticornis</i> , <i>Angophora leiocarpa</i> and <i>Callitris glaucophylla</i> .					
Regional Ecosystem:	11.3.14	Median Tree Canopy ht:	14	Emergent ht:		Subcanopy ht:	7

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 169

Per ha Total (m): 1690

Site Total (m): 845

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass			23			4.6
% Native annual grass						
% Native forbs and other species			2	3		1
% Native shrubs (<1m in height)		8	1			1.8
% Non-native grass						
% Non-native forbs & shrubs						
% Litter	90	92	57	92	95	85.2
% Rock						
% Bare ground	10		17	5	5	7.4
% Cryptogams						
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BB
Entered:.....	Date:	8/11/2020
Checked:.....	Observers:	BJ_KS
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	100%
Total No. Large Trees:	17
Total No. Large Trees per ha:	34
Native Tree Species Richness:	7
Eucalypts:	# of trees >= benchmark: 12
	# of trees >= benchmark per ha: 24
Non-eucalypts:	# of trees >= benchmark: 5
	# of trees >= benchmark per ha: 10

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	5
Grass spp. richness:	9
Forbs and others spp. richness:	12
Non-native plant cover (%)	0.10%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus chloroclada</i>		Canopy	Subcanopy	Yes
<i>Callitris glaucophylla</i>		Canopy	Subcanopy	Yes
<i>Angophora leiocarpa</i>		Canopy	Subcanopy	Yes
<i>Allocasuarina luehmannii</i>			Subcanopy	
<i>Eucalyptus crebra</i>		Canopy	Subcanopy	Yes
<i>Eucalyptus fibrosa</i> subsp. <i>nubilis</i>		Canopy	Subcanopy	Yes
<i>Xylomelum cunninghamianum</i>		Canopy		Yes

50 x 10m area

Species		Life Form	Status
<i>Allocasuarina luehmannii</i>		Shrub	
<i>Gahnia aspera</i>		Forbs and Other Species	
Species indeterminate		Grass	
<i>Lomandra leucocephala</i>		Forbs and Other Species	
Species indeterminate		Grass	
<i>Opuntia tomentosa</i>		Shrub	*
<i>Lomandra multiflora</i>		Forbs and Other Species	
<i>Acacia neriifolia</i>		Shrub	
<i>Alloteropsis semialata</i>		Grass	
<i>Chrysopogon fallax</i>		Grass	
Species indeterminate		Grass	
<i>Phyllanthus virgatus</i>		Forbs and Other Species	
<i>Brunoniella australis</i>		Forbs and Other Species	
Species indeterminate		Forbs and Other Species	
<i>Cheilanthes brownii</i>		Forbs and Other Species	
<i>Arundinella nepalensis</i>		Grass	
Species indeterminate		Grass	
<i>Panicum effusum</i>		Grass	
<i>Pomax umbellata</i>		Forbs and Other Species	
Species indeterminate		Grass	
<i>Goodenia rotundifolia</i>		Forbs and Other Species	
<i>Lomandra longifolia</i>		Forbs and Other Species	
<i>Knoxia sumatrensis</i>		Forbs and Other Species	
<i>Boronia bipinnata</i>		Shrub	
<i>Leptospermum lamellatum</i>		Shrub	
Species indeterminate		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BB
Entered:.....	Date:	8/11/2020
Checked:.....	Observers:	BJ_KS
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	30.8
Canopy total (m):	56.9
Emergent total (m):	0
Shrub total (m):	2.3

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
	Canopy	0	3.9	3.9
	Subcanopy	1.2	6	4.8
	Subcanopy	7.4	8.5	1.1
	Canopy	10.4	17.4	7
	Subcanopy	10.8	13.4	2.6
	Subcanopy	17.9	20.2	2.3
	Canopy	19.4	31	11.6
	Subcanopy	22.7	24.8	2.1
	Subcanopy	34.7	39.2	4.5
	Canopy	40.2	53.3	13.1
	Subcanopy	41.9	43.9	2
	Subcanopy	44.7	47.4	2.7
	Subcanopy	53	54.4	1.4
	Canopy	58.5	67	8.5
	Subcanopy	64.7	66	1.3
	Subcanopy	65	71	6
	Shrub	69.7	71.1	1.4
	Canopy	69.8	80.3	10.5
	Shrub	82.6	83.5	0.9
	Canopy	97.7	100	2.3

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BC
Entered:.....	Date:	9/11/2020
Checked:.....	Observers:	BJ_LA
Corrected:.....		

100 x 50m Area SITE INFORMATION

Location:		Brigalow Belt - South		Bioregion:		Brigalow belt									
Plot Origin:		Zone:	56	Easting:		151.048		Northing:		-28.3905		Accuracy:		+/-10m	
Datum:			GDA94		Plot bearing:				170°						
Locality description:					141MH193										

Regional Ecosystem and Tree Heights

Habitat Description:	Woodland dominated by <i>Eucalyptus tereticornis</i> and <i>Eucalyptus chloroclada</i> with <i>Callitris glaucophylla</i> , <i>Allocasuarina luehmannii</i> and <i>Angophora subvelutina</i> and a grassy ground layer						
Regional Ecosystem:	11.3.4	Median Tree Canopy ht:	13	Emergent ht:		Subcanopy ht:	8

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	40.5
Per ha Total (m):	405
Site Total (m):	202.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	73	63	35	1	6	35.6
% Native annual grass						
% Native forbs and other species	1	5	1	6	1	2.8
% Native shrubs (<1m in height)			1			0.2
% Non-native grass						
% Non-native forbs & shrubs	5	2	1	12	6	5.2
% Litter	15	25	57	81	87	53
% Rock						
% Bare ground	6	5	5			3.2
% Cryptogams						
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BC
	Date:	9/11/2020
	Observers:	BJ_LA

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	100%
Total No. Large Trees:	14
Total No. Large Trees per ha:	28
Native Tree Species Richness:	5
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 14
	# of trees >= benchmark per ha: 28

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	1
Grass spp. richness:	15
Forbs and others spp. richness:	15
Non-native plant cover (%)	3.10%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus tereticornis</i>		Canopy	Subcanopy	Yes
<i>Eucalyptus chloroclada</i>		Canopy	Subcanopy	Yes
<i>Callitris glaucophylla</i>		Canopy	Subcanopy	Yes
<i>Allocasuarina luehmannii</i>		Canopy	Subcanopy	Yes
<i>Angophora subvelutina</i>		Canopy	Subcanopy	Yes

50 x 10m area

Species	Life Form	Status
<i>Glandularia aristigera</i>	Forbs and Other Species	*
<i>Enteropogon ramosus</i>	Grass	
<i>Aristida calycina</i>	Grass	
<i>Aristida jerichoensis</i>	Grass	
<i>Solanum ellipticum</i>	Forbs and Other Species	
<i>Dysphania carinata</i>	Forbs and Other Species	
<i>Heliotropium amplexicaule</i>	Forbs and Other Species	*
<i>Lomandra longifolia</i>	Forbs and Other Species	
<i>Rostellularia adscendens</i>	Forbs and Other Species	
<i>Einadia hastata</i>	Forbs and Other Species	
<i>Alternanthera denticulata</i>	Forbs and Other Species	
<i>Phyllanthus fuernrohrii</i>	Forbs and Other Species	
<i>Dichanthium sericeum</i>	Grass	
<i>Solanum nigrum</i>	Forbs and Other Species	*
<i>Panicum effusum</i>	Grass	
<i>Ancistrachne uncinulata</i>	Grass	
Species indeterminate	Forbs and Other Species	
<i>Setaria surgens</i>	Grass	
Species indeterminate	Grass	
Species indeterminate	Grass	
Species indeterminate	Grass	
Species indeterminate	Grass	
<i>Eragrostis spartinooides</i>	Grass	
<i>Calotis cuneifolia</i>	Forbs and Other Species	
Species indeterminate	Forbs and Other Species	
Species indeterminate	Forbs and Other Species	
<i>Allocasuarina luehmannii</i>	Shrub	
<i>Lomandra leucocephala</i>	Forbs and Other Species	
<i>Aristida benthamii</i>	Grass	
<i>Arundinella nepalensis</i>	Grass	
<i>Melinis repens</i>	Grass	*

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BC
Entered:.....	Date:	9/11/2020
Checked:.....	Observers:	BJ_LA
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	6.3
Canopy total (m):	42.1
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
	Other	6.6	9	2.4
	Canopy	9.4	19.2	9.8
	Subcanopy	13.9	15.3	1.4
	Canopy	21	24.5	3.5
	Canopy	30.4	34.1	3.7
	Canopy	35.7	37	1.3
	Subcanopy	37.9	39.9	2
	Canopy	41.2	43	1.8
	Canopy	52.8	56.3	3.5
	Canopy	56.8	59.4	2.6
	Subcanopy	58	60.9	2.9
	Canopy	62.7	67.5	4.8
	Canopy	70.5	71.9	1.4
	Canopy	87.3	90	2.7
	Canopy	93	100	7

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BD
	Date:	9/11/2020
	Observers:	BJ_LA

100 x 50m Area

SITE INFORMATION

Location:	Brigalow Belt - South		Bioregion:	Brigalow belt				
Plot Origin:	Zone:	56	Easting:	151.0430	Northing:	-28.3894	Accuracy:	+/-10m
Datum:	GDA94		Plot bearing:	240°				
Locality description:			141MH193					

Regional Ecosystem and Tree Heights

Habitat Description:		<i>Eucalyptus crebra</i> dominated open forest.					
Regional Ecosystem:	11.7.7	Median Tree Canopy ht:	23	Emergent ht:		Subcanopy ht:	8

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	34.5
Per ha Total (m):	345
Site Total (m):	172.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	62	30	89	20	60	52.2
% Native annual grass						
% Native forbs and other species		3	1	12	5	4.2
% Native shrubs (<1m in height)	1	1	4	15	5	5.2
% Non-native grass						
% Non-native forbs & shrubs						
% Litter	35	63	6	53	30	37.4
% Rock						
% Bare ground	2	3				1
% Cryptogams						
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



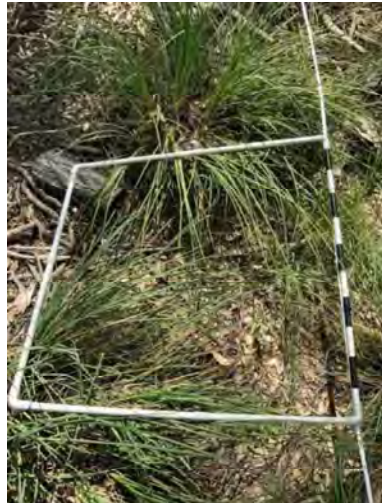
Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BD
	Date:	9/11/2020
	Observers:	BJ_LA

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	0%
Total No. Large Trees:	9
Total No. Large Trees per ha:	18
Native Tree Species Richness:	6
Eucalypts:	# of trees >= benchmark: 9
	# of trees >= benchmark per ha: 18
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	6
Grass spp. richness:	5
Forbs and others spp. richness:	9
Non-native plant cover (%)	0.01%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus crebra</i>		Canopy		
<i>Angophora leiocarpa</i>		Canopy		
<i>Callitris glaucophylla</i>			Subcanopy	
<i>Acacia shirleyi</i>			Subcanopy	
<i>Allocasuarina luehmannii</i>			Subcanopy	
<i>Allocasuarina inophloia</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
Digitaria brownii		Grass	
Species indeterminate		Forbs and Other Species	
Species indeterminate		Grass	
Scleria mackaviensis		Forbs and Other Species	
Cleistochloa subjuncea		Grass	
Boronia bipinnata		Shrub	
Solanum ellipticum		Forbs and Other Species	
Species indeterminate		Grass	
Aristida calycina		Grass	
Acacia leiocalyx		Shrub	
Commelina lanceolata		Forbs and Other Species	
Sida rohlenae		Forbs and Other Species	
Goodenia rotundifolia		Forbs and Other Species	
Opuntia tomentosa		Shrub	*
Einadia hastata		Forbs and Other Species	
Alphitonia excelsa		Shrub	
Gahnia aspera		Forbs and Other Species	
Lomandra multiflora		Forbs and Other Species	
Maireana microphylla		Shrub	
Acacia shirleyi		Shrub	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BD
Entered:.....	Date:	9/11/2020
Checked:.....	Observers:	BJ_LA
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	18.4
Canopy total (m):	50.4
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
	Canopy	3	7	4
	Canopy	5.2	18	12.8
	Subcanopy	17.6	18.7	1.1
	Subcanopy	23.3	25.7	2.4
	Canopy	28.4	37	8.6
	Subcanopy	27.7	34.5	6.8
	Canopy	41.7	50.5	8.8
	Canopy	58.5	67.5	9
	Subcanopy	79.6	87.7	8.1
	Canopy	89	98	9

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BE
	Date:	9/11/2020
	Observers:	DF_AF

100 x 50m Area

SITE INFORMATION

Location:	Brigalow Belt - South		Bioregion:	Brigalow belt		
Plot Origin:	Zone:	56	Easting:	151.1710	Northing:	-28.1917
			Accuracy:	+/-10m		
Datum:	GDA94		Plot bearing:	220°		
Locality description:	10MH737					

Regional Ecosystem and Tree Heights

Habitat Description:	<i>Acacia harpophylla</i> and <i>Casuarina cristata</i> forest						
Regional Ecosystem:	11.9.5	Median Tree Canopy ht:	15	Emergent ht:		Subcanopy ht:	3

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 169

Per ha Total (m): 1690

Site Total (m): 845

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	1	1	2	1	3	1.6
% Native annual grass						
% Native forbs and other species	5	10	10	5	3	6.6
% Native shrubs (<1m in height)						
% Non-native grass						
% Non-native forbs & shrubs						
% Litter	54	89	63	84	74	72.8
% Rock						
% Bare ground	40		25	10	20	19
% Cryptograms						
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BE
Entered:.....	Date:	9/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	60%
Total No. Large Trees:	11
Total No. Large Trees per ha:	22
Native Tree Species Richness:	4
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 11
	# of trees >= benchmark per ha: 22

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	3
Grass spp. richness:	2
Forbs and others spp. richness:	13
Non-native plant cover (%)	1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus woollsiana</i>		Canopy		
<i>Acacia harpophylla</i>		Canopy	Subcanopy	Yes
<i>Casuarina cristata</i>		Canopy		Yes
<i>Eremophila mitchellii</i>			Subcanopy	

50 x 10m area

Species	Life Form	Status
<i>Abutilon oxycarpum</i>	Forbs/Other	
<i>Acacia harpophylla</i>	Tree	
<i>Brunoniella australis</i>	Forbs/Other	
<i>Casuarina cristata</i>	Tree	
<i>Cheilanthes distans</i>	Forbs/Other	
<i>Commelina diffusa</i>	Forbs/Other	
<i>Enchylaena tomentosa</i>	Forbs/Other	
<i>Enteropogon acicularis</i>	Grass	
<i>Eremophila mitchellii</i>	Tree	
<i>Geijera parviflora</i>	Shrub	
<i>Glycine tabacina</i>	Forbs/Other	
<i>Lycium ferocissimum</i>	Shrub	*
<i>Marsdenia viridiflora</i> subsp. <i>viridiflora</i>	Forbs/Other	
<i>Opuntia tomentosa</i>	Exotic	*
<i>Paspalidium gracile</i>	Grass	
<i>Portulaca oleracea</i>	Forbs/Other	
<i>Pseuderanthemum variabile</i>	Forbs/Other	
<i>Rhagodia spinescens</i>	Shrub	
<i>Zygophyllum apiculatum</i>	Forbs/Other	
<i>Rostellularia adscendens</i>	Forbs/Other	
<i>Sclerolaena tetracuspis</i>	Forbs/Other	
<i>Teucrium junceum</i>	Shrub	
<i>Tribulus micrococcus</i>	Forbs/Other	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BE
Entered:.....	Date:	9/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	3.5
Canopy total (m):	53.5
Emergent total (m):	0
Shrub total (m):	10

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Acacia harpophylla</i>	Canopy	0	3	3
<i>Acacia harpophylla</i>	Shrub	0.5	3	2.5
<i>Acacia harpophylla</i>	Canopy	13	22.5	9.5
<i>Acacia harpophylla</i>	Shrub	13.5	15.5	2
<i>Acacia harpophylla</i>	Canopy	31.5	37	5.5
<i>Acacia harpophylla</i>	Subcanopy	36	37.5	1.5
<i>Geijera parviflora</i>	Shrub	42.5	44.5	2
<i>Casuarina cristata</i>	Canopy	47	48	1
<i>Acacia harpophylla</i>	Canopy	47.5	54	6.5
<i>Acacia harpophylla</i>	Canopy	60	72	12
<i>Eucalyptus microcarpa</i>	Canopy	64	73	9
<i>Geijera parviflora</i>	Shrub	71.5	75	3.5
<i>Acacia harpophylla</i>	Canopy	77	80	3
<i>Casuarina cristata</i>	Canopy	80	87	7
<i>Acacia harpophylla</i>	Canopy	86.5	90	3.5
<i>Acacia harpophylla</i>	Canopy	93	95.5	2.5
<i>Acacia harpophylla</i>	Subcanopy	95.5	97.5	2
	No canopy	97.5	100	2.5

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BF
	Date:	10/11/2020
	Observers:	DF_AF

100 x 50m Area

SITE INFORMATION

Location:	Brigalow Belt - South		Bioregion:	Brigalow belt		
Plot Origin:	Zone:	56	Easting:	151.1680	Northing:	-28.1937
			Accuracy:	+/-10m		
Datum:	GDA94		Plot bearing:	225°		
Locality description:	10MH737					

Regional Ecosystem and Tree Heights

Habitat Description:	<i>Eucalyptus chloroclada</i> woodland with <i>Allocasuarina luehmannii</i> subcanopy						
Regional Ecosystem:	11.5.4	Median Tree Canopy ht:	12	Emergent ht:		Subcanopy ht:	6

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 97

Per ha Total (m): 970

Site Total (m): 485

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	5	7	3	7	55	15.4
% Native annual grass						
% Native forbs and other species	1		2	5	2	2
% Native shrubs (<1m in height)			2			0.4
% Non-native grass						
% Non-native forbs & shrubs						
% Litter	64	41	75	78	37	59
% Rock						
% Bare ground	20	17	15	10	5	13.4
% Cryptogams	10	35	3		1	9.8
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BF
Entered:.....	Date:	10/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	40%
Total No. Large Trees:	91
Total No. Large Trees per ha:	182
Native Tree Species Richness:	5
Eucalypts:	# of trees >= benchmark: 23
	# of trees >= benchmark per ha: 46
Non-eucalypts:	# of trees >= benchmark: 68
	# of trees >= benchmark per ha: 136

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	1
Grass spp. richness:	3
Forbs and others spp. richness:	14
Non-native plant cover (%)	0.01%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus populnea</i>		Canopy		Yes
<i>Allocasuarina luehmannii</i>			Subcanopy	
<i>Callitris glaucophylla</i>		Canopy	Subcanopy	
<i>Eucalyptus chloroclada</i>		Canopy		
<i>Casuarina cristata</i>		Canopy		

50 x 10m area

Species		Life Form	Status
Species indeterminate	Cyperaceae sp.	Forbs/Other	
<i>Acacia decora</i>		Shrub	
<i>Aristida calycina</i>		Grass	
<i>Brunoniella australis</i>		Forbs/Other	
<i>Calandrinia pickeringii</i>		Forbs/Other	
<i>Commelina diffusa</i>		Forbs/Other	
<i>Dysphania carinata</i>		Forbs/Other	
<i>Enchylaena tomentosa</i>		Forbs/Other	
<i>Enteropogon ramosus</i>		Grass	
<i>Euphorbia drummondii</i>		Forbs/Other	
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>		Forbs/Other	
<i>Glycine tabacina</i>		Forbs/Other	
<i>Lomandra confertifolia</i> subsp. <i>pallida</i>		Forbs/Other	
Species indeterminate	Native <i>Boerhavia</i>	Forbs/Other	
Species indeterminate	Native Campanulaceae	Forbs/Other	
<i>Paspalidium distans</i>		Grass	
<i>Rostellularia adscendens</i>		Forbs/Other	
<i>Solanum ellipticum</i>		Forbs/Other	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BF
Entered:.....	Date:	10/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	56
Canopy total (m):	60.5
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:					
Species	Type	Start	Finish	Total	
<i>Allocasuarina luehmannii</i>	Subcanopy	0	1.5	1.5	
<i>Allocasuarina luehmannii</i>	Subcanopy	5	7	2	
<i>Allocasuarina luehmannii</i>	Subcanopy	10	17	7	
<i>Eucalyptus populnea</i>	Canopy	11.5	17	5.5	
<i>Allocasuarina luehmannii</i>	Subcanopy	20	21.5	1.5	
<i>Eucalyptus populnea</i>	Canopy	20.5	27	6.5	
<i>Allocasuarina luehmannii</i>	Subcanopy	22.5	25	2.5	
<i>Callitris glaucophylla</i>	Subcanopy	28	29	1	
<i>Allocasuarina luehmannii</i>	Subcanopy	29.5	30	0.5	
<i>Callitris glaucophylla</i>	Subcanopy	30	32	2	
<i>Allocasuarina luehmannii</i>	Subcanopy	31	35.5	4.5	
<i>Allocasuarina luehmannii</i>	Subcanopy	38	40	2	
<i>Eucalyptus populnea</i>	Canopy	38	52	14	
<i>Allocasuarina luehmannii</i>	Subcanopy	41	42.5	1.5	
<i>Callitris glaucophylla</i>	Canopy	45	48	3	
<i>Allocasuarina luehmannii</i>	Subcanopy	47.5	52	4.5	
<i>Callitris glaucophylla</i>	Subcanopy	50	52	2	
<i>Eucalyptus populnea</i>	Canopy	53.5	64.5	11	
<i>Allocasuarina luehmannii</i>	Subcanopy	53.5	55	1.5	
<i>Allocasuarina luehmannii</i>	Subcanopy	57.5	60	2.5	
<i>Callitris glaucophylla</i>	Canopy	56.5	59	2.5	
<i>Allocasuarina luehmannii</i>	Subcanopy	61	62.5	1.5	
<i>Allocasuarina luehmannii</i>	Subcanopy	65	66.5	1.5	
<i>Callitris glaucophylla</i>	Canopy	66	69	3	
<i>Allocasuarina luehmannii</i>	Subcanopy	67.5	70	2.5	
<i>Eucalyptus chloroclada</i>	Canopy	69	80	11	
<i>Allocasuarina luehmannii</i>	Subcanopy	73.5	76.5	3	
<i>Allocasuarina luehmannii</i>	Subcanopy	78	82	4	

<i>Eucalyptus populnea</i>		Canopy	81	86	5
<i>Allocasuarina luehmannii</i>		Subcanopy	84	86	2
<i>Callitris glaucophylla</i>		Canopy	86	87	1
<i>Allocasuarina luehmannii</i>		Subcanopy	88	90.5	2.5
<i>Callitris glaucophylla</i>		Canopy	88.5	91	2.5
<i>Callitris glaucophylla</i>		Canopy	93.5	95.5	2
<i>Eucalyptus chloroclada</i>		Canopy	94.5	100	5.5
<i>Allocasuarina luehmannii</i>		Subcanopy	94.5	100	5.5

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BE
Entered:.....	Date:	10/11/2020
Checked:.....	Observers:	BJ_LA
Corrected:.....		

100 x 50m Area

SITE INFORMATION

Location:		Brigalow Belt - South		Bioregion:		Brigalow belt													
Plot Origin:		Zone:	56	Easting:		151.154		Northing:		-28.2287		Accuracy:		+/-10m					
Datum:			GDA94		Plot Alignment description:			270°											
Locality description:				341FTY1881															

Regional Ecosystem and Tree Heights

Habitat Description:		Eucalyptus tereticornis open forest with Lomandra longifolia dominated ground layer.					
Regional Ecosystem:	11.3.25	Median Tree Canopy ht:	26.8	Emergent ht:		Subcanopy ht:	10

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 31.6

Per ha Total (m): 316

Site Total (m): 158

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	1		3		1	1
% Native annual grass						
% Native forbs and other species	20	70	72	60	53	55
% Native shrubs (<1m in height)					1	0.2
% Non-native grass						
% Non-native forbs & shrubs						
% Litter	79	30	25	40	45	43.8
% Rock						
% Bare ground						
% Cryptogams						
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



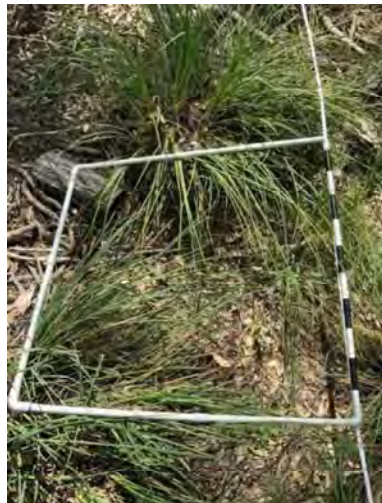
Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BE
	Date:	10/11/2020
	Observers:	BJ_LA

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	100%
Total No. Large Trees:	22
Total No. Large Trees per ha:	44
Native Tree Species Richness:	3
Eucalypts:	# of trees >= benchmark: 15
	# of trees >= benchmark per ha: 30
Non-eucalypts:	# of trees >= benchmark: 7
	# of trees >= benchmark per ha: 14

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	2
Grass spp. richness:	2
Forbs and others spp. richness:	22
Non-native plant cover (%)	0.10%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus tereticornis</i>		Canopy	Subcanopy	Yes
<i>Angophora floribunda</i>		Canopy	Subcanopy	Yes
<i>Callitris glaucophylla</i>		Canopy	Subcanopy	Yes

50 x 10m area

Species	Life Form	Status
<i>Lomandra longifolia</i>	Forbs and Other Species	
<i>Centella asiatica</i>	Forbs and Other Species	
<i>Sonchus oleraceus</i>	Forbs and Other Species	*
<i>Centipeda minima</i>	Forbs and Other Species	
<i>Cyperus exaltatus</i>	Forbs and Other Species	
Species indeterminate	Forbs and Other Species	
<i>Leptospermum polygalifolium</i>	Shrub	
<i>Erigeron bonariensis</i>	Forbs and Other Species	*
<i>Leersia hexandra</i>	Grass	
<i>Dianella longifolia</i>	Forbs and Other Species	
<i>Hydrocotyle acutiloba</i>	Forbs and Other Species	
<i>Themeda avenacea</i>	Grass	
Other Species	Forbs and Other Species	
<i>Lysimachia arvensis</i>	Forbs and Other Species	*
<i>Solanum nigrum</i>	Forbs and Other Species	*
Species indeterminate	Forbs and Other Species	
Species indeterminate	Forbs and Other Species	
<i>Sigesbeckia orientalis</i>	Forbs and Other Species	
<i>Cirsium vulgare</i>	Forbs and Other Species	*
<i>Verbena litoralis</i>	Forbs and Other Species	*
<i>Glandularia aristigera</i>	Forbs and Other Species	*
Species indeterminate	Forbs and Other Species	
<i>Bidens pilosa</i>	Forbs and Other Species	*
<i>Solanum ellipticum</i>	Forbs and Other Species	
<i>Acacia neriifolia</i>	Shrub	
<i>Heliotropium amplexicaule</i>	Forbs and Other Species	*
Species indeterminate	Forbs and Other Species	
<i>Commelina lanceolata</i>	Forbs and Other Species	
<i>Gahnia aspera</i>	Forbs and Other Species	
Species indeterminate	Forbs and Other Species	
<i>Lomandra multiflora</i>	Forbs and Other Species	
<i>Euchiton sphaericus</i>	Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BE
Entered:.....	Date:	10/11/2020
Checked:.....	Observers:	BJ_LA
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	3.8
Canopy total (m):	91.1
Emergent total (m):	0
Shrub total (m):	2.2

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
		Canopy	0	10.4	10.4
		Subcanopy	4.2	8	3.8
		Canopy	14.3	23.7	9.4
		Canopy	24.8	44.3	19.5
		Canopy	48.2	100	51.8
		Shrub	59.2	61.4	2.2

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BF
	Date:	11/11/2020
	Observers:	BJ_LA

100 x 50m Area

SITE INFORMATION

Location:	Brigalow Belt - South	Bioregion:	Brigalow belt					
Plot Origin:	Zone:	56	Easting:	151.5680	Northing:	-27.7141	Accuracy:	+/-10m
Datum:	GDA94	Plot bearing:	277°					
Locality description:	3RP7480							

Regional Ecosystem and Tree Heights

Habitat Description:	<i>Eucalyptus orgadophilla</i> , <i>Callitris glaucophylla</i> woodland with <i>Carissa ovata</i> shrub layer and grassy ground layer. Loose surface rocks abundant throughout.						
Regional Ecosystem:	11.8.5	Median Tree Canopy ht:	16	Emergent ht:		Subcanopy ht:	11

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	16.5
Per ha Total (m):	165
Site Total (m):	82.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	7		2			1.8
% Native annual grass						
% Native forbs and other species	60	15	20		10	21
% Native shrubs (<1m in height)		45	5	30	15	19
% Non-native grass						
% Non-native forbs & shrubs	5		15		15	7
% Litter	15	40	24	65	50	38.8
% Rock	5		14	5	10	6.8
% Bare ground	8		20			5.6
% Cryptogams						
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BF
	Date:	10/11/2020
	Observers:	BJ_LA

100 x 50m Area SITE INFORMATION

100 x 50m area	
%EDL Recruitment:	100%
Total No. Large Trees:	6
Total No. Large Trees per ha:	12
Native Tree Species Richness:	11
Eucalypts:	# of trees >= benchmark: 6
	# of trees >= benchmark per ha: 12
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	8
Grass spp. richness:	3
Forbs and others spp. richness:	15
Non-native plant cover (%)	7.10%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus orgadophila</i>		Canopy	Subcanopy	Yes
<i>Callitris glaucophylla</i>		Canopy	Subcanopy	Yes
<i>Auranticarpa rhombifolia</i>			Subcanopy	
<i>Dodonaea viscosa</i> subsp. <i>angustifolia</i>			Subcanopy	
<i>Acacia decora</i>			Subcanopy	
<i>Psyrax odorata</i>			Subcanopy	
<i>Elaeodendron australe</i> var. <i>australe</i>			Subcanopy	
<i>Geijera parviflora</i>			Subcanopy	
<i>Notelaea microcarpa</i>			Subcanopy	
<i>Alphitonia excelsa</i>			Subcanopy	
<i>Acacia maidenii</i>			Subcanopy	

50 x 10m area

Species	Life Form	Status
<i>Carissa ovata</i>	Shrub	
<i>Malvastrum americanum</i> var. <i>americanum</i>	Forbs and Other Species	*
<i>Glandularia aristigera</i>	Forbs and Other Species	*
<i>Acacia decora</i>	Shrub	
<i>Psyrax odorata</i>	Shrub	
<i>Opuntia tomentosa</i>	Shrub	*
<i>Sigesbeckia orientalis</i>	Forbs and Other Species	
<i>Vittadinia cuneata</i>	Forbs and Other Species	
<i>Jasminum didymum</i>	Forbs and Other Species	
<i>Cyperus gracilis</i>	Forbs and Other Species	
Species indeterminate	Grass	
<i>Asclepias curassavica</i>	Forbs and Other Species	*
Species indeterminate	Forbs and Other Species	
<i>Cirsium vulgare</i>	Forbs and Other Species	*
<i>Megathyrsus maximus</i>	Grass	*
Species indeterminate	Forbs and Other Species	
<i>Einadia hastata</i>	Forbs and Other Species	
<i>Einadia nutans</i>	Forbs and Other Species	
Species indeterminate	Forbs and Other Species	
<i>Geitonoplesium cymosum</i>	Forbs and Other Species	
<i>Paspalidium caespitosum</i>	Grass	
<i>Jasminum simplicifolium</i> subsp. <i>australiense</i>	Shrub	
<i>Breynia oblongifolia</i>	Shrub	
<i>Asparagus africanus</i>	Forbs and Other Species	*
<i>Abutilon oxycarpum</i>	Shrub	
Species indeterminate	Shrub	
<i>Capparis mitchellii</i>	Shrub	
<i>Solanum nigrum</i>	Forbs and Other Species	*
<i>Austrostipa verticillata</i>	Grass	
Species indeterminate	Shrub	
<i>Opuntia stricta</i>	Shrub	*

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BF
Entered:.....	Date:	10/11/2020
Checked:.....	Observers:	BJ_LA
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	15.1
Canopy total (m):	24.5
Emergent total (m):	0
Shrub total (m):	44.3

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
	Subcanopy	0.4	6	5.6
	Shrub	3.7	6.2	2.5
	Subcanopy	6.7	11.7	5
	Shrub	14.9	20.9	6
	Subcanopy	17.8	22.3	4.5
	Shrub	21.2	22.3	1.1
	Shrub	23.2	23.7	0.5
	Shrub	28.3	28.9	0.6
	Shrub	32	32.3	0.3
	Other	32.5	35.6	3.1
	Canopy	40.7	53	12.3
	Shrub	40.2	47.6	7.4
	Shrub	48.3	50.8	2.5
	Other	47.2	49	1.8
	Shrub	54.8	59.4	4.6
	Other	56.3	60.1	3.8
	Shrub	61.7	67.3	5.6
	Shrub	71	82	11
	Other	73.4	77.6	4.2
	Canopy	75	80.5	5.5
	Shrub	83.7	85.9	2.2
	Other	88.8	91.7	2.9
	Canopy	93.3	100	6.7

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BG
Entered:.....	Date:	11/11/2020
Checked:.....	Observers:	DF_AF
Corrected:.....		

100 x 50m Area

SITE INFORMATION

Location:		Brigalow Belt - South		Bioregion:		Brigalow belt									
Plot Origin:		Zone:	56	Easting:		151.4110		Northing:		-27.7924		Accuracy:		+/-10m	
Datum:			GDA94		Plot bearing:				30°						
Locality description:				22SP124720											

Regional Ecosystem and Tree Heights

Habitat Description:		Natural grasslands on basalt and fine-textured alluvial plains of northern New South Wales and southern Queensland					
Regional Ecosystem:	Non-rem 11.3.21	Median Tree Canopy ht:	0	Emergent ht:		Subcanopy ht:	0

Note: As per Biocondition assessment guidelines (Eyre et al., 2015, p.14), woody-type site attributes such as tree canopy cover, tree canopy height, large trees etc are not assessable for grassland REs and the final condition score is standardised accordingly.

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 0

Per ha Total (m): 0

Site Total (m): 0

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	80	30	90	15	40	51
% Native annual grass						
% Native forbs and other species	10	10	1			4.2
% Native shrubs (<1m in height)						
% Non-native grass						
% Non-native forbs & shrubs				35	30	13
% Litter	5	15		5	30	11
% Rock						
% Bare ground	5	45	9	45		20.8
% Cryptogams						
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BG
Entered:.....	Date:	12/11/2020
Checked:.....	Observers:	BJ_LA
Corrected:.....		

100 x 50m Area

SITE INFORMATION

Location:		Brigalow Belt - South		Bioregion:		Brigalow belt									
Plot Origin:		Zone:	56	Easting:		151.4510		Northing:		-27.7551		Accuracy:		+/-10m	
Datum:			GDA94		Plot bearing:				120°						
Locality description:				RD02RP838169											

Regional Ecosystem and Tree Heights

Habitat Description:		Natural grasslands on basalt and fine-textured alluvial plains of northern New South Wales and southern Queensland					
Regional Ecosystem:	Non-rem 11.3.21	Median Tree Canopy ht:	0	Emergent ht:		Subcanopy ht:	0

Note: As per Biocondition assessment guidelines (Eyre et al., 2015, p.14), woody-type site attributes such as tree canopy cover, tree canopy height, large trees etc are not assessable for grassland REs and the final condition score is standardised accordingly.

Site Photos:

North:



* Note: only one photo taken for this Site

South:

East:

West:

50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 0

Per ha Total (m): 0

Site Total (m): 0

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	71	63	69	75	45	64.6
% Native annual grass						
% Native forbs and other species	5	5	3	3	3	3.8
% Native shrubs (<1m in height)						
% Non-native grass						
% Non-native forbs & shrubs	3	10	3	3		3.8
% Litter	6	20	25	15	15	16.2
% Rock						
% Bare ground	15	2		4	37	11.6
% Cryptograms						
Total	100%	100%	100%	100%	100%	

Quadrat 1:

Note: no 1x1 m quadrat photos recorded at this site.

Quadrat 2:

Quadrat 3:

Quadrat 4:

Quadrat 5:

Post-wet biocondition data

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BA
Entered:.....	Date:	26/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	287354.69938	Northing:	6840041.02051	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Eucalyptus populnea, Eucalyptus woollsiana and Callitris glaucophylla</i> open forest					
Regional Ecosystem:	11.5.1a	Median Tree Canopy ht:	15	Emergent ht:		Subcanopy ht:	6

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 151

Per ha Total (m): 1510

Site Total (m): 755

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	25	10	30	30	20	23%
% Native annual grass						0%
% Native forbs and other species	5	10		10	20	9%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	20	50	50	40	40	40%
% Rock						0%
% Bare ground	50	30	20	20	20	28%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BA
	Date:	26/02/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	33%
Total No. Large Trees:	5
Total No. Large Trees per ha:	10
Native Tree Species Richness:	7
Eucalypts:	# of trees >= benchmark: 4
	# of trees >= benchmark per ha: 8
Non-eucalypts:	# of trees >= benchmark: 1
	# of trees >= benchmark per ha: 2

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	6
Grass spp. richness:	13
Forbs and others spp. richness:	18
Non-native plant cover (%)	1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus populnea</i>		Canopy		
<i>Callitris glaucophylla</i>		Canopy		Yes
<i>Allocasuarina luehmannii</i>			Subcanopy	
<i>Corymbia tessellaris</i>		Canopy		
<i>Capparis mitchellii</i>			Subcanopy	
<i>Acacia decurrens</i>			Subcanopy	
<i>Callitris glaucophylla</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Geijera parviflora</i>		Shrub	
<i>Allocasuarina luehmannii</i>		Shrub	
<i>Callitris glaucophylla</i>		Shrub	
<i>Commelina ensifolia</i>		Forbs and Other Species	
<i>Paspalidium caespitosum</i>		Grass	
<i>Portulaca pilosa</i>		Forbs and Other Species	Exotic
<i>Portulaca filifolia</i>		Forbs and Other Species	
<i>Calandrinia pickeringii</i>		Forbs and Other Species	
<i>Portulaca oleracea</i>		Forbs and Other Species	
<i>Evolvulus alsinoides</i>		Forbs and Other Species	
Other	Cyperaceae 1	Forbs and Other Species	
Other	Cyperaceae 2	Forbs and Other Species	
Other	Eragrostis sp1	Grass	
<i>Calotis cuneifolia</i>		Forbs and Other Species	
<i>Lomandra multiflora</i>		Forbs and Other Species	
<i>Solanum ellipticum</i>		Forbs and Other Species	
<i>Enchylaena tomentosa</i>		Forbs and Other Species	
Other	Solanum sp	Forbs and Other Species	
<i>Crinum flaccidum</i>		Forbs and Other Species	
<i>Bryophyllum delagoense</i>		Forbs and Other Species	Exotic
Other	Eragrostis sp2	Grass	
Other	Poaceae sp1	Grass	
<i>Enteropogon unispiceus</i>		Grass	
<i>Gomphrena celosioides</i>		Forbs and Other Species	Exotic
<i>Acacia oswaldii</i>		Forbs and Other Species	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>		Forbs and Other Species	
<i>Aristida caput medusae</i>		Grass	
<i>Eremophila debilis</i>		Forbs and Other Species	
Other	Aristida sp1	Grass	
<i>Opuntia tomentosa</i>		Forbs and Other Species	Exotic
<i>Enteropogon acicularis</i>		Grass	
<i>Lomandra longifolia</i>		Forbs and Other Species	
<i>Eremophila deserti</i>		Shrub	
<i>Pittosporum angustifolium</i>		Shrub	
Other	Aristida sp2	Grass	
Other	Poaceae sp2	Grass	
<i>Capparis mitchellii</i>		Shrub	
<i>Dactyloctenium radulans</i>		Grass	
<i>Erigeron bonariensis</i>		Forbs and Other Species	Exotic
<i>Cymbopogon refractus</i>		Grass	
<i>Thellungia advena</i>		Grass	
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
<i>Alternanthera denticulata</i>		Forbs and Other Species	
<i>Opuntia aurantiaca</i>		Forbs and Other Species	Exotic
<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>		Grass	Exotic

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BA
Entered:.....	Date:	26/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	19.9
Canopy total (m):	54.7
Emergent total (m):	0
Shrub total (m):	8

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Callitris glaucophylla</i>	Canopy	3.2	5.8	2.6
<i>Allocasuarina luehmannii</i>	Subcanopy	5.8	6.9	1.1
<i>Callitris glaucophylla</i>	Canopy	9.2	11.1	1.9
<i>Callitris glaucophylla</i>	Canopy	11.2	17.6	6.4
<i>Callitris glaucophylla</i>	Subcanopy	12.9	15.5	2.6
<i>Allocasuarina luehmannii</i>	Subcanopy	18.3	20.6	2.3
<i>Eucalyptus populnea</i>	Canopy	18.5	29.8	11.3
<i>Callitris glaucophylla</i>	Canopy	21.6	26.3	4.7
<i>Allocasuarina luehmannii</i>	Subcanopy	22.2	23	0.8
<i>Allocasuarina luehmannii</i>	Subcanopy	26.6	28.2	1.6
<i>Callitris glaucophylla</i>	Canopy	25	28.1	3.1
<i>Allocasuarina luehmannii</i>	Subcanopy	36.5	38.5	2
<i>Allocasuarina luehmannii</i>	Subcanopy	50.6	52	1.4
<i>Eucalyptus populnea</i>	Canopy	53.9	79.7	25.8
<i>Geijera parviflora</i>	Shrub	61.2	66.9	5.7
<i>Allocasuarina luehmannii</i>	Subcanopy	63.8	65.6	1.8
<i>Allocasuarina luehmannii</i>	Subcanopy	69.6	74.9	5.3
<i>Geijera parviflora</i>	Shrub	75.5	77.8	2.3
<i>Callitris glaucophylla</i>	Canopy	86.5	89.4	2.9
<i>Callitris glaucophylla</i>	Canopy	92.9	97.6	4.7
<i>Callitris glaucophylla</i>	Canopy	99	99.8	0.8
<i>Allocasuarina luehmannii</i>	Subcanopy	99	100	1

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BB
	Date:	27/02/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	290684.36636	Northing:	6842095.54084	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Eucalyptus crebra</i> , <i>Callitris glaucophylla</i> and <i>Geijera parviflora</i> open forest					
Regional Ecosystem:	11.5.1	Median Tree Canopy ht:	12	Emergent ht:		Subcanopy ht:	6

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 71

Per ha Total (m): 710

Site Total (m): 355

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	20	30	60	20	10	28%
% Native annual grass						0%
% Native forbs and other species				10		2%
% Native shrubs (<1m in height)				10		2%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	50	20	30	50	80	46%
% Rock						0%
% Bare ground	30	50	10	10	10	22%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

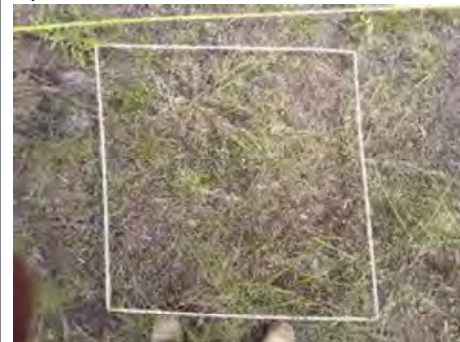
Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BB
Entered:.....	Date:	27/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	290684.36636	Northing:	6842095.54084	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Eucalyptus crebra</i> , <i>Callitris glaucophylla</i> and <i>Geijera parviflora</i> open forest					
Regional Ecosystem:	11.5.1	Median Tree Canopy ht:	12	Emergent ht:		Subcanopy ht:	6

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 71

Per ha Total (m): 710

Site Total (m): 355

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	20	30	60	20	10	28%
% Native annual grass						0%
% Native forbs and other species				10		2%
% Native shrubs (<1m in height)				10		2%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	50	20	30	50	80	46%
% Rock						0%
% Bare ground	30	50	10	10	10	22%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

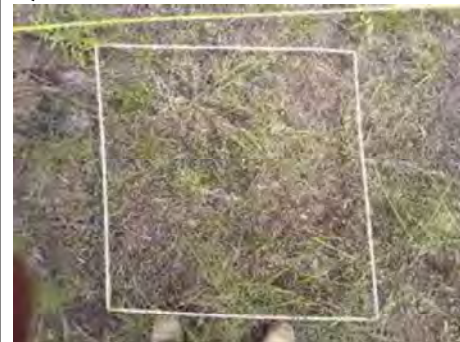
Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BB
Entered:.....	Date:	27/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	34.9
Canopy total (m):	39
Emergent total (m):	0
Shrub total (m):	8.9

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Callitris glaucophylla</i>	Subcanopy	6.2	8.3	2.1
<i>Callitris glaucophylla</i>	Subcanopy	8.5	9.2	0.7
<i>Callitris glaucophylla</i>	Subcanopy	10.1	11.8	1.7
<i>Callitris glaucophylla</i>	Subcanopy	13.2	15.1	1.9
<i>Eucalyptus chloroclada</i>	Canopy	13.7	19.8	6.1
<i>Callitris glaucophylla</i>	Subcanopy	15.9	18.4	2.5
<i>Allocasuarina luehmannii</i>	Shrub	19	19.7	0.7
<i>Eucalyptus crebra</i>	Canopy	19	19.8	0.8
<i>Allocasuarina luehmannii</i>	Shrub	21.7	22.3	0.6
<i>Eucalyptus crebra</i>	Canopy	28.8	33.9	5.1
<i>Callitris glaucophylla</i>	Subcanopy	29.2	32.2	3
<i>Callitris glaucophylla</i>	Canopy	32.7	39	6.3
<i>Allocasuarina luehmannii</i>	Shrub	34.3	35.2	0.9
<i>Allocasuarina luehmannii</i>	Subcanopy	37.2	39.6	2.4
<i>Callitris glaucophylla</i>	Subcanopy	39.7	40.2	0.5
<i>Callitris glaucophylla</i>	Subcanopy	40.8	41.5	0.7
<i>Callitris glaucophylla</i>	Canopy	44.9	50.6	5.7
<i>Allocasuarina luehmannii</i>	Shrub	46.5	48.7	2.2
<i>Eucalyptus crebra</i>	Shrub	50.9	51.6	0.7
<i>Callitris glaucophylla</i>	Shrub	53.5	55.3	1.8
<i>Callitris glaucophylla</i>	Subcanopy	58.9	78.3	19.4
<i>Eucalyptus chloroclada</i>	Canopy	72	74.8	2.8
<i>Eucalyptus crebra</i>	Canopy	74.8	80	5.2
<i>Callitris glaucophylla</i>	Shrub	80	80.9	0.9
<i>Eucalyptus crebra</i>	Canopy	82	85.2	3.2
<i>Allocasuarina luehmannii</i>	Shrub	84.7	85.8	1.1
<i>Callitris glaucophylla</i>	Canopy	94.2	100	5.8

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BC
Entered:.....	Date:	27/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area

SITE INFORMATION

Location								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	290529.87042	Northing:	6842126.91765	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

Regional Ecosystem and Tree Heights							
Habitat Description:		<i>Acacia harpophylla</i> forest					
Regional Ecosystem:	11.4.3	Median Tree Canopy ht:	15	Emergent ht:		Subcanopy ht:	6

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 89

Per ha Total (m): 890

Site Total (m): 445

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	25		20	30	55	26%
% Native annual grass						0%
% Native forbs and other species		5	60	30	25	24%
% Native shrubs (<1m in height)		10				2%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	5	75	20	5		21%
% Rock						0%
% Bare ground	40	10		30	15	19%
% Cryptograms	30			5	5	8%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BC
	Date:	27/02/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	16
Total No. Large Trees per ha:	32
Native Tree Species Richness:	9
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 16
	# of trees >= benchmark per ha: 32

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	6
Grass spp. richness:	7
Forbs and others spp. richness:	22
Non-native plant cover (%)	2%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Acacia harpophylla</i>		Canopy		Yes
<i>Casuarina cristata</i>		Canopy		Yes
<i>Eucalyptus populnea</i>			Canopy	
<i>Eremophila mitchellii</i>			Subcanopy	
<i>Capparis mitchellii</i>			Subcanopy	
<i>Eucalyptus woollsiana</i>			Canopy	
<i>Callitris glaucophylla</i>			Subcanopy	
<i>Geijera parviflora</i>			Subcanopy	
<i>Pittosporum angustifolium</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Acacia harpophylla</i>		Shrub	
<i>Opuntia tomentosa</i>		Shrub	Exotic
<i>Nyssanthus erecta</i>		Forbs and Other Species	
<i>Enchylaena tomentosa</i>		Forbs and Other Species	
<i>Cheilanthes distans</i>		Forbs and Other Species	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>		Forbs and Other Species	
<i>Calotis cuneifolia</i>		Forbs and Other Species	
<i>Solanum nigrum</i>		Forbs and Other Species	Exotic
<i>Carissa ovata</i>		Shrub	
<i>Tetragonia tetragonoides</i>		Forbs and Other Species	
<i>Brunoniella australis</i>		Forbs and Other Species	
<i>Solanum stelligerum</i>		Shrub	
<i>Coleus australis</i>		Forbs and Other Species	
<i>Calandrinia pickeringii</i>		Forbs and Other Species	
<i>Tragus australianus</i>		Grass	
<i>Enteropogon ramosus</i>		Grass	
<i>Enteropogon acicularis</i>		Grass	
<i>Abutilon oxycarpum</i>		Forbs and Other Species	
<i>Sporobolus caroli</i>		Grass	
<i>Salsola australis</i>		Shrub	
<i>Sclerolaena tetracuspis</i>		Forbs and Other Species	
<i>Sclerolaena birchii</i>		Shrub	
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
<i>Einadia nutans</i>		Forbs and Other Species	
<i>Alternanthera denticulata</i>		Forbs and Other Species	
<i>Paspalidium caespitosum</i>		Grass	
<i>Panicum effusum</i>		Grass	
<i>Portulaca filifolia</i>		Forbs and Other Species	
<i>Commelina ensifolia</i>		Forbs and Other Species	
<i>Solanum ellipticum</i>		Forbs and Other Species	
<i>Capparis lasiantha</i>		Shrub	
<i>Sclerolaena bicornis</i>		Forbs and Other Species	
<i>Marsilea hirsuta</i>		Forbs and Other Species	
<i>Cyperus gracilis</i>		Forbs and Other Species	
Other	Poaceae sp1	Grass	
Other	Cyperaceae sp1	Forbs and Other Species	
Other	Cyperaceae sp2	Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BC
Entered:.....	Date:	27/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	24.2
Canopy total (m):	40.3
Emergent total (m):	0
Shrub total (m):	8.2

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Allocasuarina luehmannii</i>	Canopy	0	2.2	2.2
<i>Acacia harpophylla</i>	Canopy	4	9.8	5.8
<i>Geijera parviflora</i>	Subcanopy	9	10.5	1.5
<i>Acacia harpophylla</i>	Canopy	11.8	19.4	7.6
<i>Geijera parviflora</i>	Subcanopy	12.8	17.3	4.5
<i>Pittosporum angustifolium</i>	Subcanopy	20	21.7	1.7
<i>Geijera parviflora</i>	Subcanopy	21.7	25.7	4
<i>Eremophila mitchellii</i>	Subcanopy	23.2	24.3	1.1
<i>Acacia harpophylla</i>	Subcanopy	32.5	37.3	4.8
<i>Acacia harpophylla</i>	Shrub	38.6	39.1	0.5
<i>Acacia harpophylla</i>	Canopy	39.2	48.4	9.2
<i>Geijera parviflora</i>	Subcanopy	40	42.7	2.7
<i>Eremophila mitchellii</i>	Shrub	46.4	48.4	2
<i>Capparis mitchellii</i>	Shrub	50.9	52.9	2
<i>Geijera parviflora</i>	Subcanopy	52.6	54.7	2.1
<i>Acacia harpophylla</i>	Canopy	54.9	56.2	1.3
<i>Eremophila mitchellii</i>	Shrub	55.6	56.9	1.3
<i>Allocasuarina luehmannii</i>	Canopy	71	74.4	3.4
<i>Eremophila mitchellii</i>	Subcanopy	72.1	72.8	0.7
<i>Geijera parviflora</i>	Shrub	75.3	79.6	4.3
<i>Eremophila mitchellii</i>	Shrub	75.8	76.7	0.9
<i>Eucalyptus populnea</i>	Canopy	72.6	83	10.4
<i>Geijera parviflora</i>	Subcanopy	84.2	87.8	3.6
<i>Eucalyptus populnea</i>	Canopy	85	87.2	2.2
<i>Eremophila mitchellii</i>	Shrub	95	96	1

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BD
	Date:	28/02/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

Location								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	300457.15385	Northing:	6851830.67398	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

Regional Ecosystem and Tree Heights							
Habitat Description:		<i>Angophora floribunda</i> , <i>Eucalyptus chloroclada</i> and <i>Callitris glaucophylla</i> open forest					
Regional Ecosystem:	11.3.14	Median Tree Canopy ht:	20	Emergent ht:		Subcanopy ht:	6

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 72

Per ha Total (m): 720

Site Total (m): 360

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	60	20	60	30	30	40%
% Native annual grass						0%
% Native forbs and other species			10	20	20	10%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs		5				1%
% Litter	40	75	30	50	40	47%
% Rock						0%
% Bare ground					10	2%
% Cryptogams						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BD
	Date:	28/02/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	67%
Total No. Large Trees:	21
Total No. Large Trees per ha:	42
Native Tree Species Richness:	1
Eucalypts:	# of trees >= benchmark: 17
	# of trees >= benchmark per ha: 34
Non-eucalypts:	# of trees >= benchmark: 4
	# of trees >= benchmark per ha: 8

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	2
Grass spp. richness:	9
Forbs and others spp. richness:	13
Non-native plant cover (%)	10%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus chloroclada</i>		Canopy		Yes
<i>Angophora floribunda</i>		Canopy		
<i>Callitris glaucophylla</i>		Canopy		Yes
<i>Opuntia tomentosa</i>			Sub-Canopy	

50 x 10m area

Species		Life Form	Status
<i>Opuntia tomentosa</i>		Shrub	
<i>Solanum ellipticum</i>		Forbs and Other Species	
<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>		Grass	Exotic
<i>Portulaca pilosa</i>		Forbs and Other Species	Exotic
<i>Portulaca oleracea</i>		Forbs and Other Species	
<i>Einadia nutans</i>		Forbs and Other Species	
<i>Commelina ensifolia</i>		Forbs and Other Species	
<i>Thellungia advena</i>		Grass	
Other	Aristida sp1	Grass	
Other	Eragrostis sp1	Grass	
Other	Poaceae sp1	Grass	
<i>Vittadinia cuneata</i> var. <i>hirsuta</i>		Forbs and Other Species	
<i>Cyperus aggregatus</i>		Forbs and Other Species	
<i>Panicum decompositum</i>		Grass	
<i>Cymbopogon refractus</i>		Grass	
<i>Bidens bipinnata</i>		Forbs and Other Species	Exotic
<i>Heliotropium amplexicaule</i>		Forbs and Other Species	Exotic
<i>Sida rhombifolia</i>		Forbs and Other Species	Exotic
Other	Setaria sp	Grass	
<i>Solanum nigrum</i>		Forbs and Other Species	Exotic
<i>Desmodium rhytidophyllum</i>		Forbs and Other Species	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>		Forbs and Other Species	
<i>Eragrostis curvula</i>		Grass	Exotic
<i>Einadia hastata</i>		Forbs and Other Species	
<i>Pittosporum angustifolium</i>		Shrub	
<i>Lepidium bonariense</i>		Forbs and Other Species	Exotic
<i>Enteropogon ramosus</i>		Grass	
Other	Austostripa sp		
<i>Erigeron bonariensis</i>		Forbs and Other Species	Exotic
Other	Poaceae sp2	Grass	
Other	Pavonia	Forbs and Other Species	Exotic
Other	Asteracea sp		
<i>Pittosporum angustifolium</i>		Forbs and Other Species	
<i>Einadia nutans</i> subsp. <i>linifolia</i>		Forbs and Other Species	
Other	Cyperaceae sp2		
<i>Dysphania carinata</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BD
Entered:.....	Date:	28/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	57.2
Canopy total (m):	66.8
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Callitris glaucophylla</i>	Subcanopy	0	4.1	4.1
<i>Angophora floribunda</i>	Canopy	4.6	26.8	22.2
<i>Callitris glaucophylla</i>	Subcanopy	8.3	13.4	5.1
<i>Callitris glaucophylla</i>	Subcanopy	15.9	24.4	8.5
<i>Callitris glaucophylla</i>	Subcanopy	28	37.1	9.1
<i>Angophora floribunda</i>	Canopy	28.1	40.1	12
<i>Callitris glaucophylla</i>	Subcanopy	38.9	40	1.1
<i>Callitris glaucophylla</i>	Subcanopy	41.1	49.1	8
<i>Eucalyptus chloroclada</i>	Canopy	49.2	55.2	6
<i>Angophora floribunda</i>	Canopy	53.9	77.9	24
<i>Callitris glaucophylla</i>	Subcanopy	60	73.4	13.4
<i>Eucalyptus chloroclada</i>	Canopy	66.9	72.2	5.3
<i>Eucalyptus chloroclada</i>	Canopy	77.9	86	8.1
<i>Callitris glaucophylla</i>	Subcanopy	86.1	94	7.9
<i>Angophora floribunda</i>	Canopy	98.5	100	1.5

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BA
Entered:.....	Date:	28/02/2021
Checked:.....	Observers:	KR / BJ
Corrected:.....		

100 x 50m Area

SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	313794.82748	Northing:	6859671.30167	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		Woodland canopy dominated by <i>Angophora floribunda</i> with <i>Eucalyptus chloroclada</i> , <i>Callitris glaucophylla</i> sub canopy <i>Callitris glaucophylla</i> . Very sparse shrub layer dominated by regenerating canopy species, ground layer dominated by native grasses and forbs.					
Regional Ecosystem:	11.3.14	Median Tree Canopy ht:	14	Emergent ht:		Subcanopy ht:	9

Site Photos:

North:



East:



South:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	52.5
Per ha Total (m):	525
Site Total (m):	262.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	15	10	35	40	30	26%
% Native annual grass						0%
% Native forbs and other species	10	10	15	15	25	15%
% Native shrubs (<1m in height)			10		25	7%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	70	70	40	40	20	48%
% Rock						0%
% Bare ground	5	10		5		4%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BA
	Date:	28/02/2021
	Observers:	KR / BJ

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	40%
Total No. Large Trees:	20
Total No. Large Trees per ha:	40
Native Tree Species Richness:	5
Eucalypts:	# of trees >= benchmark: 10
	# of trees >= benchmark per ha: 20
Non-eucalypts:	# of trees >= benchmark: 10
	# of trees >= benchmark per ha: 20

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	0
Grass spp. richness:	12
Forbs and others spp. richness:	4
Non-native plant cover (%)	2%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Angophora floribunda</i>		Canopy		Yes
<i>Callitris glaucophylla</i>		Canopy		Yes
<i>Eucalyptus chloroclada</i>		Canopy		
<i>Eucalyptus tereticornis</i>		Canopy	Canopy	
<i>Corymbia tessellaris</i>		Canopy	Canopy	

50 x 10m area

Species		Life Form	Status
Other	Aristida sp.	Grass	
<i>Thellungia advena</i>		Grass	
<i>Heliotropium amplexicaule</i>		Forbs and Other Species	Exotic
<i>Sida rhombifolia</i>		Forbs and Other Species	Exotic
<i>Setaria surgens</i>		Grass	
<i>Digitaria brownii</i>		Grass	
<i>Portulaca pilosa</i>		Forbs and Other Species	Exotic
<i>Aristida vagans</i>		Grass	
<i>Eragrostis curvula</i>		Grass	Exotic
<i>Lomandra multiflora</i>		Forbs and Other Species	
<i>Eragrostis brownii</i>		Grass	
<i>Glycine tomentella</i>		Forbs and Other Species	
<i>Panicum effusum</i>		Grass	
<i>Cymbopogon refractus</i>		Grass	
<i>Lomandra longifolia</i>		Forbs and Other Species	
Other	Cyperus sp.	Forbs and Other Species	
<i>Digitaria divaricatissima</i>		Grass	
<i>Enneapogon nigricans</i>		Grass	
<i>Chrysopogon fallax</i>		Grass	
Other	Aristida sp.	Grass	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BA
Entered:.....	Date:	28/02/2021
Checked:.....	Observers:	KR / BJ
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	15.2
Canopy total (m):	26.5
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:					
Species	Type	Start	Finish	Total	
<i>Angophora floribunda</i>	Canopy	3.4	4	0.6	
<i>Angophora floribunda</i>	Subcanopy	4.3	5.8	1.5	
<i>Angophora floribunda</i>	Canopy	7.3	13.4	6.1	
<i>Angophora floribunda</i>	Canopy	17.7	24	6.3	
<i>Angophora floribunda</i>	Subcanopy	25	26.7	1.7	
<i>Angophora floribunda</i>	Subcanopy	35.5	38.5	3	
<i>Angophora floribunda</i>	Canopy	42.5	45.4	2.9	
<i>Angophora floribunda</i>	Subcanopy	42.9	43.6	0.7	
<i>Angophora floribunda</i>	Subcanopy	47	50.9	3.9	
<i>Angophora floribunda</i>	Canopy	51	52.2	1.2	
<i>Angophora floribunda</i>	Canopy	58.2	62	3.8	
<i>Angophora floribunda</i>	Canopy	67	70.6	3.6	
<i>Eucalyptus tereticornis</i> subsp. <i>tereticornis</i>	Subcanopy	78	82.4	4.4	
<i>Angophora floribunda</i>	Canopy	88	90	2	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BE
Entered:.....	Date:	28/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	302844.19307	Northing:	6854114.29524	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Callitris glaucophylla</i> , <i>Eucalyptus chloroclada</i> open forest - historic clearing					
Regional Ecosystem:	11.5.1	Median Tree Canopy ht:	12	Emergent ht:		Subcanopy ht:	4

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	62
Per ha Total (m):	620
Site Total (m):	310

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	10	10	5	15	5	9%
% Native annual grass						0%
% Native forbs and other species						0%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	60	70	35	60	65	58%
% Rock						0%
% Bare ground	30	20	60	25	30	33%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BE
Entered:.....	Date:	28/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	2
Total No. Large Trees per ha:	4
Native Tree Species Richness:	2
Eucalypts:	# of trees >= benchmark: 1
	# of trees >= benchmark per ha: 2
Non-eucalypts:	# of trees >= benchmark: 1
	# of trees >= benchmark per ha: 2

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	1
Grass spp. richness:	9
Forbs and others spp. richness:	11
Non-native plant cover (%)	1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus chloroclada</i>		Canopy		Yes
<i>Callitris glaucophylla</i>		Canopy		Yes
<i>Acacia crassa</i> subsp. <i>crassa</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>		Forbs and Other Species	
Other	Cyperaceae sp1	Forbs and Other Species	
Other	Campanulaceae sp	Forbs and Other Species	
Other	Poaceae sp 1	Grass	
Other	Eragrostis sp1	Grass	
<i>Cheilanthes distans</i>		Forbs and Other Species	
Other	Aristida sp1	Grass	
<i>Cyperus dietrichiae</i>		Forbs and Other Species	
<i>Opuntia aurantiaca</i>		Forbs and Other Species	Exotic
<i>Solanum ellipticum</i>		Forbs and Other Species	
<i>Cymbopogon refractus</i>		Grass	
Other	Herb1	Forbs and Other Species	
<i>Lomandra longifolia</i>		Forbs and Other Species	
<i>Lomandra filiformis</i>		Forbs and Other Species	
<i>Eragrostis brownii</i>		Grass	
Other	Aristida sp2	Grass	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>		Forbs and Other Species	
<i>Panicum effusum</i>		Grass	
<i>Chrysopogon fallax</i>		Grass	
<i>Desmodium rhytidophyllum</i>		Forbs and Other Species	
Other	Cactus	Shrub	Exotic
<i>Acacia conferta</i>		Shrub	
<i>Opuntia tomentosa</i>		Forbs and Other Species	Exotic
Other	Eragrostis sp2	Grass	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BE
Entered:.....	Date:	28/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	1.5
Canopy total (m):	53
Emergent total (m):	0
Shrub total (m):	2

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Callitris glaucophylla</i>	Canopy	0	0.2	0.2
<i>Callitris glaucophylla</i>	Canopy	1.2	11.2	10
<i>Eucalyptus chloroclada</i>	Canopy	11.3	15.3	4
<i>Eucalyptus chloroclada</i>	Canopy	15.4	22	6.6
<i>Callitris glaucophylla</i>	Canopy	25.3	26.5	1.2
<i>Callitris glaucophylla</i>	Canopy	29	33.5	4.5
<i>Eucalyptus chloroclada</i>	Canopy	32	38	6
<i>Callitris glaucophylla</i>	Canopy	34.5	35.5	1
<i>Eucalyptus chloroclada</i>	Canopy	45.5	50.5	5
<i>Callitris glaucophylla</i>	Subcanopy	47.5	49	1.5
<i>Eucalyptus chloroclada</i>	Canopy	57	59	2
<i>Callitris glaucophylla</i>	Canopy	61	64	3
<i>Callitris glaucophylla</i>	Canopy	76.5	85	8.5
<i>Acacia conferta</i>	Shrub	79	81	2
<i>Eucalyptus chloroclada</i>	Canopy	94	100	6

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BB
Entered:.....	Date:	28/02/2021
Checked:.....	Observers:	KR / BJ
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	311126.0699	Northing:	6856205.70835	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		Mostly dead canopy of <i>Callitris glaucophylla</i> , <i>Eucalyptus chloroclada</i> and <i>Eucalyptus viridis</i>					
Regional Ecosystem:	Non-rem Cat C 11.3.14	Median Tree Canopy ht:	8	Emergent ht:		Subcanopy ht:	0

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	68
Per ha Total (m):	680
Site Total (m):	340

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	60	50	60	35	35	48%
% Native annual grass						0%
% Native forbs and other species	15	5	5	30	20	15%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	10	5	5	20	15	11%
% Rock	5	20	10		25	12%
% Bare ground	10	20	20	15	5	14%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BB
	Date:	28/02/2021
	Observers:	KR / BJ

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	0
Total No. Large Trees per ha:	0
Native Tree Species Richness:	2
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	6
Grass spp. richness:	7
Forbs and others spp. richness:	3
Non-native plant cover (%)	1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus chloroclada</i>		Canopy		Yes
<i>Eucalyptus viridis</i>		Canopy		Yes
<i>Callitris glaucophylla</i>		Canopy		Yes

50 x 10m area

Species		Life Form	Status
Other	<i>Aristida sp.</i>	Grass	
<i>Mirbelia pungens</i>		Shrub	
<i>Eucalyptus chloroclada</i>		Shrub	
Other	<i>Eragrostis sp.</i>	Grass	
<i>Panicum effusum</i>		Grass	
<i>Phyllanthus virgatus</i>		Forbs and Other Species	
<i>Eucalyptus viridis</i>		Shrub	
Other	<i>Solanum sp.</i>	Forbs and Other Species	
<i>Gomphrena celosioides</i>		Forbs and Other Species	Exotic
<i>Denhamia silvestris</i>		Shrub	
Other	<i>Aristida sp.</i>	Grass	
<i>Dodonaea viscosa</i> subsp. <i>spatulata</i>		Shrub	
<i>Cymbopogon refractus</i>		Grass	
Other	<i>Eragrostis sp.</i>	Grass	
<i>Melinis repens</i>		Grass	Exotic
<i>Eulalia aurea</i>		Grass	
<i>Callitris glaucophylla</i>		Shrub	
<i>Stylidium graminifolium</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BB
Entered:.....	Date:	28/02/2021
Checked:.....	Observers:	KR / BJ
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	0
Canopy total (m):	11.1
Emergent total (m):	0
Shrub total (m):	3.4

100m Transect: Tree Shrub and Canopy Cover:					
Species	Type	Start	Finish	Total	
<i>Eucalyptus viridis</i>	Shrub	8	8.3	0.3	
<i>Eucalyptus viridis</i>	Shrub	11.4	11.8	0.4	
<i>Denhamia silvestris</i>	Shrub	15.5	15.7	0.2	
<i>Eucalyptus viridis</i>	Shrub	15.8	16.2	0.4	
<i>Eucalyptus viridis</i>	Canopy	20.9	22	1.1	
<i>Eucalyptus viridis</i>	Canopy	25.6	27	1.4	
<i>Eucalyptus viridis</i>	Shrub	27.5	27.7	0.2	
<i>Callitris glaucophylla</i>	Canopy	31.7	33	1.3	
<i>Eucalyptus viridis</i>	Shrub	35.8	36.2	0.4	
<i>Callitris glaucophylla</i>	Canopy	37.1	38.1	1	
<i>Eucalyptus viridis</i>	Shrub	42.2	42.8	0.6	
<i>Eucalyptus viridis</i>	Canopy	52.7	54.2	1.5	
<i>Callitris glaucophylla</i>	Canopy	63	66.3	3.3	
<i>Eucalyptus viridis</i>	Shrub	76.4	76.7	0.3	
<i>Mirbelia pungens</i>	Shrub	82	82.4	0.4	
<i>Callitris glaucophylla</i>	Canopy	92	93.5	1.5	
<i>Mirbelia pungens</i>	Shrub	98.6	98.8	0.2	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BF
Entered:.....	Date:	28/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:				Brigalow belt				
Plot Origin:	Zone:	56	Easting:	302654.59256	Northing:	6853642.64387	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Eucalyptus microcarpa</i> open forest					
Regional Ecosystem:	11.3.2	Median Tree Canopy ht:	20	Emergent ht:		Subcanopy ht:	5

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	87.5
Per ha Total (m):	875
Site Total (m):	437.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	40	40	5	60	40	37%
% Native annual grass						0%
% Native forbs and other species	10					2%
% Native shrubs (<1m in height)						0%
% Non-native grass	10	5			5	4%
% Non-native forbs & shrubs			15	10	10	7%
% Litter	40	50	80	30	30	46%
% Rock						0%
% Bare ground		5			15	4%
% Cryptogams						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BF
	Date:	28/02/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	50%
Total No. Large Trees:	19
Total No. Large Trees per ha:	38
Native Tree Species Richness:	4
Eucalypts:	# of trees >= benchmark: 18
	# of trees >= benchmark per ha: 36
Non-eucalypts:	# of trees >= benchmark: 1
	# of trees >= benchmark per ha: 2

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	2
Grass spp. richness:	8
Forbs and others spp. richness:	13
Non-native plant cover (%)	1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus conica</i>		Canopy		Yes
<i>Casuarina cristata</i>			Canopy	
<i>Callitris glaucophylla</i>			Subcanopy	
<i>Pittosporum angustifolium</i>			Subcanopy	
Other	Cactus	Subcanopy		

50 x 10m area

Species		Life Form	Status
<i>Walwhalleya proluta</i>		Grass	
<i>Alternanthera denticulata</i>		Forbs and Other Species	
<i>Solanum ellipticum</i>		Forbs and Other Species	
<i>Eulalia aurea</i>		Grass	
<i>Gomphrena celosioides</i>		Forbs and Other Species	Exotic
Other	Poaceae sp1	Grass	
<i>Eremophila debilis</i>		Forbs and Other Species	
Other	Cactus	Forbs and Other Species	Exotic
<i>Opuntia tomentosa</i>		Forbs and Other Species	Exotic
<i>Cyperus gracilis</i>		Forbs and Other Species	
<i>Vittadinia cuneata</i> var. <i>hirsuta</i>		Forbs and Other Species	
Other	Poaceae sp2	Grass	
<i>Opuntia aurantiaca</i>		Forbs and Other Species	Exotic
<i>Sida rhombifolia</i>		Forbs and Other Species	Exotic
<i>Enchylaena tomentosa</i>		Forbs and Other Species	
<i>Heliotropium amplexicaule</i>		Forbs and Other Species	Exotic
Other	Poaceae sp2	Grass	
Other	Poaceae sp3	Grass	
<i>Einadia nutans</i> subsp. <i>linifolia</i>		Forbs and Other Species	
<i>Paspalidium caespitosum</i>		Grass	
<i>Einadia nutans</i>		Forbs and Other Species	
<i>Pittosporum angustifolium</i>		Forbs and Other Species	
<i>Boerhavia dominii</i>		Forbs and Other Species	
<i>Glycine clandestina</i>		Forbs and Other Species	
Other	Sclerolaena sp	Forbs and Other Species	
<i>Sclerolaena birchii</i>		Shrub	
<i>Enteropogon ramosus</i>		Grass	
<i>Maireana microphylla</i>		Shrub	
<i>Solanum nigrum</i>		Forbs and Other Species	
Other	Cactus	Shrub	Exotic

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BF
Entered:.....	Date:	28/02/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	0
Canopy total (m):	76.7
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Eucalyptus conica</i>		Canopy	0	5	5
<i>Eucalyptus conica</i>		Canopy	20.6	62	41.4
<i>Eucalyptus conica</i>		Canopy	64	75.9	11.9
<i>Eucalyptus conica</i>		Canopy	81.6	100	18.4

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BG
Entered:.....	Date:	01/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area

SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	316205.56087	Northing:	6860667.4949	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>								
Habitat Description:		<i>Eucalyptus melanophloia</i> , <i>Eucalyptus populnea</i> , <i>Allocasuarina luehmannii</i> and <i>Callitris glaucophylla</i> open forest						
Regional Ecosystem:		11.9.7	Median Tree Canopy ht:	16	Emergent ht:		Subcanopy ht:	8

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	62.5
Per ha Total (m):	625
Site Total (m):	312.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	5	5	5	15	10	8%
% Native annual grass						0%
% Native forbs and other species		5	5	5	5	4%
% Native shrubs (<1m in height)		10				2%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	95	80	80	70	60	77%
% Rock						0%
% Bare ground			10	10	25	9%
% Cryptogams						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BG
Entered:.....	Date:	01/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	37
Total No. Large Trees per ha:	74
Native Tree Species Richness:	7
Eucalypts:	# of trees >= benchmark: 4
	# of trees >= benchmark per ha: 8
Non-eucalypts:	# of trees >= benchmark: 33
	# of trees >= benchmark per ha: 66

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	3
Grass spp. richness:	8
Forbs and others spp. richness:	30
Non-native plant cover (%)	1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus melanophloia</i>		Canopy		Yes
<i>Eucalyptus populnea</i>		Canopy		Yes
<i>Corymbia tessellaris</i>			Canopy	
<i>Callitris glaucophylla</i>		Canopy		Yes
<i>Allocasuarina luehmannii</i>			Subcanopy	
<i>Eucalyptus woollsiana</i>			Canopy	
<i>Psyrax oleifolia</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Allocasuarina luehmannii</i>		Shrub	
<i>Geijera parviflora</i>		Shrub	
<i>Brunoniella australis</i>		Forbs and Other Species	
<i>Portulaca filifolia</i>		Forbs and Other Species	
<i>Cyperus gracilis</i>		Forbs and Other Species	
Other		Forbs and Other Species	
<i>Rostellularia adscendens</i>		Forbs and Other Species	
Other	<i>Sida</i> sp	Forbs and Other Species	
<i>Enteropogon ramosus</i>		Grass	
<i>Dianella longifolia</i>		Forbs and Other Species	
<i>Enchylaena tomentosa</i>		Forbs and Other Species	
<i>Cheilanthes distans</i>		Forbs and Other Species	
<i>Calandrinia pickeringii</i>		Forbs and Other Species	
<i>Aristida benthamii</i> var. <i>benthamii</i>		Grass	
Other	Cyperaceae sp1	Forbs and Other Species	
Other	<i>Eragrostis</i> sp1	Grass	
Other	Poaceae sp2	Grass	
<i>Evolvulus alsinoides</i>		Forbs and Other Species	
<i>Opuntia aurantiaca</i>		Forbs and Other Species	Exotic
<i>Eremophila debilis</i>		Forbs and Other Species	
Other	<i>Eragrostis</i> sp1	Grass	
<i>Psydrax oleifolia</i>		Forbs and Other Species	
<i>Glycine tabacina</i>		Forbs and Other Species	
<i>Einadia nutans</i> subsp. <i>linifolia</i>		Forbs and Other Species	
<i>Paspalidium caespitosum</i>		Grass	
Other	Cactus	Forbs and Other Species	
<i>Acacia oswaldii</i>		Shrub	
<i>Jasminum didymum</i> subsp. <i>lineare</i>		Forbs and Other Species	
<i>Commelina ensifolia</i>		Forbs and Other Species	
<i>Lomandra filiformis</i>		Forbs and Other Species	
<i>Coleus australis</i>		Forbs and Other Species	
<i>Dysphania carinata</i>		Forbs and Other Species	
<i>Aristida caput medusae</i>		Grass	
<i>Solanum ellipticum</i>		Forbs and Other Species	
Other	Cyperaceae sp2	Forbs and Other Species	
<i>Portulaca pilosa</i>		Forbs and Other Species	Exotic
<i>Aristida benthamii</i> var. <i>benthamii</i>		Grass	
<i>Boerhavia dominii</i>		Forbs and Other Species	
<i>Amyema linophylla</i> subsp. <i>orientalis</i>		Forbs and Other Species	
Other	<i>Seteria</i> sp	Grass	
<i>Vittadinia cuneata</i> var. <i>hirsuta</i>		Forbs and Other Species	

<i>Aristida benthamii</i> var. <i>benthamii</i>		Grass	
<i>Oldenlandia</i> <i>mitrasacmoides</i> subsp. <i>trachymenoides</i>		Forbs and Other Species	
<i>Opuntia tomentosa</i>		Forbs and Other Species	Exotic
<i>Einadia nutans</i> subsp. <i>nutans</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BG
Entered:.....	Date:	01/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	10.4
Canopy total (m):	84.8
Emergent total (m):	0
Shrub total (m):	21.8

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Allocasuarina luehmannii</i>	Canopy	0	6.6	6.6
<i>Eucalyptus populnea</i>	Canopy	0	11.8	11.8
<i>Callitris glaucophylla</i>	Subcanopy	3.4	6.2	2.8
<i>Geijera parviflora</i>	Shrub	7.8	9.5	1.7
<i>Callitris glaucophylla</i>	Canopy	7.8	11.8	4
<i>Allocasuarina luehmannii</i>	Canopy	12	15.9	3.9
<i>Geijera parviflora</i>	Shrub	12.3	14.6	2.3
<i>Callitris glaucophylla</i>	Canopy	16	22.5	6.5
<i>Eucalyptus populnea</i>	Canopy	17.9	22.5	4.6
<i>Geijera parviflora</i>	Shrub	23.3	30.9	7.6
<i>Eucalyptus populnea</i>	Canopy	24.5	48.2	23.7
<i>Allocasuarina luehmannii</i>	Canopy	25.6	30.8	5.2
<i>Callitris glaucophylla</i>	Canopy	28.5	30.8	2.3
<i>Allocasuarina luehmannii</i>	Shrub	31.2	33.7	2.5
<i>Geijera parviflora</i>	Shrub	34.5	36.3	1.8
<i>Callitris glaucophylla</i>	Canopy	34.5	39.1	4.6
<i>Geijera parviflora</i>	Shrub	39.4	42.7	3.3
<i>Allocasuarina luehmannii</i>	Canopy	40.1	43	2.9
<i>Callitris glaucophylla</i>	Canopy	43.2	50	6.8
<i>Allocasuarina luehmannii</i>	Subcanopy	43.3	47.1	3.8
<i>Allocasuarina luehmannii</i>	Canopy	50.2	55.8	5.6
<i>Callitris glaucophylla</i>	Canopy	54.2	63.9	9.7
<i>Corymbia tessellaris</i>	Shrub	57.9	58.2	0.3
<i>Allocasuarina luehmannii</i>	Canopy	60	66	6
<i>Callitris glaucophylla</i>	Canopy	66	67	1
<i>Eucalyptus populnea</i>	Subcanopy	66.9	70.7	3.8
<i>Callitris glaucophylla</i>	Canopy	69.3	84.4	15.1
<i>Allocasuarina luehmannii</i>	Shrub	76.2	77.4	1.2

<i>Allocasuarina luehmannii</i>		Shrub	82.3	83.4	1.1
<i>Eucalyptus melanophloia</i>		Canopy	85.3	95.7	10.4
<i>Allocasuarina luehmannii</i>		Canopy	85.7	91.2	5.5
<i>Callitris glaucophylla</i>		Canopy	95.8	100	4.2

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BH
Entered:.....	Date:	01/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	314831.8823	Northing:	6859835.6131	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Eucalyptus tereticornis</i> and <i>Angophora floribunda</i> open forest					
Regional Ecosystem:	11.3.4	Median Tree Canopy ht:	20	Emergent ht:		Subcanopy ht:	8

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 142

Per ha Total (m): 1420

Site Total (m): 710

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	25	20	35	10	5	19%
% Native annual grass						0%
% Native forbs and other species						0%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	50	20	50	10	5	27%
% Rock						0%
% Bare ground	25	60	15	80	90	54%
% Cryptogams						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BH
Entered:.....	Date:	01/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	13
Total No. Large Trees per ha:	26
Native Tree Species Richness:	3
Eucalypts:	# of trees >= benchmark: 10
	# of trees >= benchmark per ha: 20
Non-eucalypts:	# of trees >= benchmark: 3
	# of trees >= benchmark per ha: 6

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	1
Grass spp. richness:	11
Forbs and others spp. richness:	12
Non-native plant cover (%)	2%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus tereticornis</i>		Canopy		Yes
<i>Angophora floribunda</i>		Canopy		Yes
<i>Callitris glaucophylla</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Perotis rara</i>		Grass	
<i>Calandrinia balonensis</i>		Forbs and Other Species	
<i>Aristida calycina</i> var. <i>calycina</i>		Grass	
<i>Tragus australianus</i>		Grass	
Other	Cyperaceae sp1	Forbs and Other Species	
Other	Cyperaceae sp2	Forbs and Other Species	
Other	<i>Aristida</i> sp	Grass	
Other	Fabaceae sp1	Forbs and Other Species	
Other	Poaceae sp1	Grass	
<i>Lomandra leucocephala</i> subsp. <i>leucocephala</i>		Forbs and Other Species	
<i>Panicum decompositum</i>		Grass	
<i>Aristida benthamii</i> var. <i>benthamii</i>		Grass	
Other	<i>Setaria</i>	Grass	
Other	<i>Eragrostis</i> sp1	Grass	
Other	Cyperaceae sp3	Forbs and Other Species	
<i>Portulaca oleracea</i>		Forbs and Other Species	
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
<i>Bidens pilosa</i>		Forbs and Other Species	Exotic
Other	Poaceae sp3	Grass	
<i>Lomandra longifolia</i>		Forbs and Other Species	
Other	<i>Senecio</i> sp	Forbs and Other Species	
<i>Vittadinia cuneata</i> var. <i>hirsuta</i>		Forbs and Other Species	
<i>Erigeron sumatrensis</i>		Forbs and Other Species	Exotic
<i>Erigeron bonariensis</i>		Forbs and Other Species	Exotic
<i>Portulaca pilosa</i>		Forbs and Other Species	Exotic
Other	<i>Wallenbergia</i> sp		
<i>Heliotropium amplexicaule</i>		Forbs and Other Species	Exotic
<i>Solanum ellipticum</i>		Forbs and Other Species	
<i>Melinis repens</i>		Grass	Exotic
Other	Poaceae sp3	Grass	
<i>Einadia nutans</i> subsp. <i>linifolia</i>		Forbs and Other Species	
Other	Eriaceae	Shrub	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BH
Entered:.....	Date:	01/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	4.7
Canopy total (m):	45.2
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Angophora floribunda</i>	Canopy	0	9.2	9.2
<i>Eucalyptus tereticornis</i>	Canopy	0	10.1	10.1
<i>Angophora floribunda</i>	Canopy	20	27.8	7.8
<i>Callitris glaucophylla</i>	Canopy	21.6	39.8	18.2
<i>Callitris glaucophylla</i>	Canopy	41	44.1	3.1
<i>Angophora floribunda</i>	Canopy	52.7	61.7	9
<i>Callitris glaucophylla</i>	Subcanopy	74.9	77.7	2.8
<i>Callitris glaucophylla</i>	Subcanopy	79.6	81.5	1.9
<i>Eucalyptus tereticornis</i>	Canopy	86	100	14
<i>Callitris glaucophylla</i>	Canopy	87	89.2	2.2

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BI
	Date:	03/03/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	324683.33366	Northing:	6902649.2424	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Acacia harpophylla</i> open forest					
Regional Ecosystem:	11.9.5	Median Tree Canopy ht:	10	Emergent ht:		Subcanopy ht:	4

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 72

Per ha Total (m): 720

Site Total (m): 360

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	40	40	15	10	10	23%
% Native annual grass						0%
% Native forbs and other species	30	30	20	20	20	24%
% Native shrubs (<1m in height)					30	6%
% Non-native grass				50		10%
% Non-native forbs & shrubs			15		10	5%
% Litter	20	30	50	20	30	30%
% Rock						0%
% Bare ground	10					2%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BI
Entered:.....	Date:	03/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	6
Total No. Large Trees per ha:	12
Native Tree Species Richness:	6
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 6
	# of trees >= benchmark per ha: 12

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	12
Grass spp. richness:	5
Forbs and others spp. richness:	17
Non-native plant cover (%)	30%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Acacia harpophylla</i>		Canopy		Yes
<i>Melaleuca trichostachya</i>			Canopy	
<i>Santalum lanceolatum</i>			Subcanopy	
<i>Capparis lasiantha</i>			Subcanopy	
<i>Alectryon diversifolius</i>			Subcanopy	
<i>Eremophila deserti</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Carissa ovata</i>		Shrub	
<i>Enteropogon acicularis</i>		Grass	
<i>Coleus australis</i>		Forbs and Other Species	
<i>Enchylaena tomentosa</i>		Forbs and Other Species	
<i>Tetragonia tetragonoides</i>		Forbs and Other Species	
<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>		Grass	Exotic
<i>Opuntia tomentosa</i>		Shrub	Exotic
<i>Clematicissus opaca</i>		Forbs and Other Species	
<i>Paspalidium caespitosum</i>		Grass	
<i>Setaria sphacelata</i>		Grass	Exotic
<i>Solanum nigrum</i>		Forbs and Other Species	
<i>Rhagodia spinescens</i>		Shrub	
<i>Acacia harpophylla</i>		Shrub	
<i>Malvastrum americanum</i> var. <i>americanum</i>		Forbs and Other Species	Exotic
<i>Abutilon oxycarpum</i>		Forbs and Other Species	
<i>Einadia nutans</i>		Forbs and Other Species	
<i>Sclerolaena tetracuspis</i>		Forbs and Other Species	
<i>Zygophyllum apiculatum</i>		Forbs and Other Species	
<i>Eremophila deserti</i>		Forbs and Other Species	
<i>Capparis lasiantha</i>		Forbs and Other Species	
<i>Portulaca oleracea</i>		Forbs and Other Species	
<i>Alectryon diversifolius</i>		Shrub	
<i>Geijera parviflora</i>		Shrub	
<i>Pimelea neoanglica</i>		Shrub	
<i>Jasminum didymum</i> subsp. <i>lineare</i>		Forbs and Other Species	
<i>Senna artemisioides</i>		Shrub	
<i>Melaleuca trichostachya</i>		Shrub	
Other	<i>Parsonsia</i> sp	Forbs and Other Species	
Other	Poaceae sp1	Grass	
Other	Mistletoe sp1	Shrub	
Other	<i>Maytenus</i> sp	Shrub	
Other	<i>Abutilon</i> sp	Forbs and Other Species	
<i>Cenchrus ciliaris</i>		Grass	Exotic
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>		Shrub	
<i>Eriochloa crebra</i>		Grass	
Other	<i>Eremophilla</i> sp	Shrub	
<i>Dianella longifolia</i>		Forbs and Other Species	
<i>Aristida calycina</i> var. <i>calycina</i>		Grass	
<i>Salsola australis</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BI
Entered:.....	Date:	03/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	4.7
Canopy total (m):	45.2
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Acacia harpophylla</i>	Canopy	0	2	2
<i>Acacia harpophylla</i>	Canopy	3.1	14	10.9
<i>Acacia harpophylla</i>	Canopy	20.1	38	17.9
<i>Melaleuca trichostachya</i>	Canopy	39.6	54.3	14.7
<i>Acacia harpophylla</i>	Shrub	42.1	45	2.9
<i>Acacia harpophylla</i>	Canopy	49.9	53.7	3.8
<i>Melaleuca trichostachya</i>	Shrub	55.6	58.1	2.5
<i>Acacia harpophylla</i>	Shrub	58.3	59.3	1
<i>Acacia harpophylla</i>	Canopy	59.4	79.5	20.1
<i>Acacia harpophylla</i>	Canopy	84.1	95	10.9

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BJ
Entered:.....	Date:	04/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	330324.29581	Northing:	6912090.80206	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Eucalyptus populnea</i> open forest.					
Regional Ecosystem:	11.3.2	Median Tree Canopy ht:	20	Emergent ht:		Subcanopy ht:	8

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 32

Per ha Total (m): 320

Site Total (m): 160

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	20	20	30	20	30	24%
% Native annual grass						0%
% Native forbs and other species	10	30	30	30	20	24%
% Native shrubs (<1m in height)						0%
% Non-native grass	10		20	10		8%
% Non-native forbs & shrubs	40	30		10	40	24%
% Litter	20	20	20	30	10	20%
% Rock						0%
% Bare ground						0%
% Cryptogams						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BJ
	Date:	04/03/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	14
Total No. Large Trees per ha:	28
Native Tree Species Richness:	3
Eucalypts:	# of trees >= benchmark: 14
	# of trees >= benchmark per ha: 28
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	1
Grass spp. richness:	12
Forbs and others spp. richness:	21
Non-native plant cover (%)	50%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus populnea</i>		Canopy		Yes
<i>Eucalyptus tereticornis</i>		Canopy		Yes
<i>Pittosporum angustifolium</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Bryophyllum delagoense</i>		Forbs and Other Species	Exotic
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
<i>Opuntia tomentosa</i>		Shrub	Exotic
<i>Harrisia martinii</i>		Forbs and Other Species	Exotic
<i>Dichondra repens</i>		Forbs and Other Species	
<i>Sida hackettiana</i>		Forbs and Other Species	
<i>Sida rhombifolia</i>		Forbs and Other Species	Exotic
<i>Nyssanthus diffusa</i>		Forbs and Other Species	
<i>Chrysocephalum apiculatum</i>		Forbs and Other Species	
<i>Cymbopogon refractus</i>		Grass	
<i>Panicum effusum</i>		Grass	
<i>Aristida calycina</i> var. <i>calycina</i>		Grass	
<i>Enteropogon ramosus</i>		Grass	
Other	<i>Aristida</i> sp	Grass	
<i>Portulaca pilosa</i>		Forbs and Other Species	Exotic
<i>Rytidosperma bipartitum</i>		Grass	
<i>Cyperus gracilis</i>		Forbs and Other Species	
<i>Calotis cuneata</i>		Forbs and Other Species	
<i>Eriochloa crebra</i>		Grass	
Other	Cyperaceae sp1	Forbs and Other Species	
<i>Enchylaena tomentosa</i>		Forbs and Other Species	
<i>Evolvulus alsinoides</i>		Forbs and Other Species	
<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>		Forbs and Other Species	Exotic
<i>Pittosporum angustifolium</i>		Shrub	
<i>Malvastrum coromandelianum</i> subsp. <i>coromandelianum</i>		Forbs and Other Species	Exotic
<i>Maireana microphylla</i>		Forbs and Other Species	
Other	<i>Austrostipa</i> sp	Grass	
<i>Mentha satereioides</i>		Forbs and Other Species	
Other	Poaceae sp2	Grass	
<i>Swainsona galegifolia</i>		Forbs and Other Species	
<i>Dichanthium sericeum</i>		Grass	
<i>Boerhavia dominii</i>		Forbs and Other Species	
<i>Commelina ensifolia</i>		Forbs and Other Species	
<i>Portulaca oleracea</i>		Forbs and Other Species	
<i>Rostellularia adscendens</i>		Forbs and Other Species	
Other	<i>Euphoria</i> sp	Forbs and Other Species	
<i>Einadia nutans</i> subsp. <i>linifolia</i>		Forbs and Other Species	
<i>Sclerolaena birchii</i>		Forbs and Other Species	
Other	Poaceae sp3	Grass	
<i>Salvia reflexa</i>		Forbs and Other Species	Exotic
<i>Glycine tabacina</i>		Forbs and Other Species	
<i>Einadia nutans</i> subsp. <i>nutans</i>		Forbs and Other Species	
<i>Panicum decompositum</i>		Grass	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BJ
Entered:.....	Date:	04/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	14
Canopy total (m):	27.8
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Eucalyptus populnea</i>		Canopy	0	4	4
<i>Eucalyptus populnea</i>		Canopy	5.5	14	8.5
<i>Eucalyptus populnea</i>		Subcanopy	21.2	26.7	5.5
<i>Eucalyptus populnea</i>		Canopy	33.7	37	3.3
<i>Eucalyptus populnea</i>		Canopy	40	47	7
<i>Eucalyptus populnea</i>		Subcanopy	49.1	56.6	7.5
<i>Eucalyptus populnea</i>		Canopy	76	81	5
<i>Eucalyptus tereticornis</i>		Subcanopy	99	100	1

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BC
Entered:.....	Date:	04/03/2021
Checked:.....	Observers:	KR
Corrected:.....		

100 x 50m Area SITE INFORMATION

Location								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	331985.89536	Northing:	6912889.02745	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

Regional Ecosystem and Tree Heights							
Habitat Description:		Dominant Canopy of <i>Eucalyptus populnea</i> , with patches of <i>Casuarina cristata</i> regrowth. Sub canopy consists of juvenile <i>E. populnea</i> and <i>Casuarina cristata</i> . Shrub layer consists of <i>Myoporum acuminatum</i> and <i>Pittosporum angustifolium</i> . Ground layer native grasses and forbs. Woody debris prevelant					
Regional Ecosystem:	11.3.2	Median Tree Canopy ht:	15	Emergent ht:		Subcanopy ht:	9

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	39.5
Per ha Total (m):	395
Site Total (m):	197.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	35	35		60	40	34%
% Native annual grass						0%
% Native forbs and other species	35	15	15	5	15	17%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	30	20	85	15	30	36%
% Rock						0%
% Bare ground		30		20	15	13%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BC
	Date:	04/03/2021
	Observers:	Brad and Kim

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	12
Total No. Large Trees per ha:	24
Native Tree Species Richness:	6
Eucalypts:	# of trees >= benchmark: 12
	# of trees >= benchmark per ha: 24
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	7
Grass spp. richness:	14
Forbs and others spp. richness:	18
Non-native plant cover (%)	2%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus populnea</i>		Canopy		Yes
<i>Casuarina cristata</i>			Subcanopy	
<i>Pittosporum angustifolium</i>			Subcanopy	
<i>Alectryon oleifolius</i> subsp. <i>elongatus</i>			Subcanopy	
<i>Geijera parviflora</i>			Subcanopy	
<i>Acacia salicina</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
Other	<i>Aristida</i> b90	Grass	
Other	<i>Aristida</i> b91	Grass	
Other	<i>Aristida</i> b92	Grass	
Other	<i>Solanum</i> b81	Forbs and Other Species	
<i>Myoporum acuminatum</i>		Shrub	
<i>Brunoniella australis</i>		Shrub	
<i>Acacia salicina</i>		Shrub	
<i>Jasminum didymum</i> subsp. <i>racemosum</i>		Forbs and Other Species	
<i>Harrisia tortuosa</i>		Shrub	Exotic
<i>Dichanthium sericeum</i>		Grass	
<i>Nyssanthus erecta</i>		Forbs and Other Species	
<i>Paspalidium caespitosum</i>		Grass	
<i>Eriochloa crebra</i>		Grass	
<i>Megathyrsus maximus</i> var. <i>maximus</i>		Grass	Exotic
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
<i>Homopholis belsonii</i>		Grass	Endangered
<i>Enteropogon ramosus</i>		Grass	
<i>Enchylaena tomentosa</i>		Forbs and Other Species	
<i>Portulaca australis</i>		Forbs and Other Species	
<i>Einadia hastata</i>		Forbs and Other Species	
<i>Digitaria brownii</i>		Grass	
<i>Cymbopogon refractus</i>		Grass	
<i>Sporobolus caroli</i>		Grass	
Other	<i>Calotis</i> sp.collected	Forbs and Other Species	
Other	<i>Rutidosia</i> sp. collected	Forbs and Other Species	
<i>Opuntia tomentosa</i>		Shrub	Exotic
<i>Evolvulus alsinoides</i>		Forbs and Other Species	
Other	<i>Glycine</i> sp. infert	Forbs and Other Species	
Other	<i>Eriachne</i> sp. collected	Grass	
<i>Melhanian ovata</i>		Forbs and Other Species	
<i>Austrostipa verticillata</i>		Grass	
<i>Dichondra repens</i>		Forbs and Other Species	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>		Forbs and Other Species	
<i>Malvastrum coromandelianum</i> subsp. <i>coromandelianum</i>		Forbs and Other Species	Exotic
<i>Calotis hispidula</i>		Forbs and Other Species	
<i>Eucalyptus populnea</i>		Shrub	
<i>Portulaca oleracea</i>		Forbs and Other Species	Exotic
<i>Neptunia gracilis</i> forma <i>gracilis</i>		Forbs and Other Species	
<i>Sclerolaena birchii</i>		Shrub	
<i>Panicum decompositum</i>		Grass	
<i>Pittosporum angustifolium</i>		Shrub	
<i>Commelina lanceolata</i>		Forbs and Other Species	

<i>Acacia salicina</i>		Shrub	
<i>Dianella longifolia</i>		Forbs and Other Species	
<i>Rostellularia adscendens</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BC
Entered:.....	Date:	04/03/2021
Checked:.....	Observers:	KR BJ
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	15
Canopy total (m):	48.9
Emergent total (m):	0
Shrub total (m):	5.5

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Pittosporum angustifolium</i>		Shrub	2.7	3.6	0.9
<i>Eucalyptus populnea</i>		Canopy	15	22.5	7.5
<i>Acacia salicina</i>		Shrub	21.1	21.5	0.4
<i>Acacia salicina</i>		Shrub	21.9	22.1	0.2
<i>Eucalyptus populnea</i>		Shrub	25.8	25.9	0.1
<i>Myoporum acuminatum</i>		Shrub	25.8	25.9	0.1
<i>Eucalyptus populnea</i>		Subcanopy	14	17.8	3.8
<i>Eucalyptus populnea</i>		Subcanopy	21.3	25	3.7
<i>Acacia salicina</i>		Shrub	26.6	27.2	0.6
<i>Eucalyptus populnea</i>		Canopy	26	30.4	4.4
<i>Acacia salicina</i>		Shrub	30.5	30.8	0.3
<i>Acacia salicina</i>		Shrub	31.3	31.8	0.5
<i>Eucalyptus populnea</i>		Canopy	32.3	47.8	15.5
<i>Myoporum acuminatum</i>		Shrub	31.5	34.3	2.8
<i>Casuarina cristata</i>		Subcanopy	51.8	56.9	5.1
<i>Eucalyptus populnea</i>		Canopy	58	66	8
<i>Eucalyptus populnea</i>		Canopy	68.2	75.2	7
<i>Eucalyptus populnea</i>		Subcanopy	69.6	70.6	1
<i>Eucalyptus populnea</i>		Canopy	79	81.2	2.2
<i>Pittosporum angustifolium</i>		Subcanopy	91	92.4	1.4
<i>Eucalyptus populnea</i>		Canopy	95.7	100	4.3

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BK
	Date:	05/03/2021
	Observers:	KR/DRF

100 x 50m Area SITE INFORMATION

Location								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	337873.62296	Northing:	6918765.95135	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

Regional Ecosystem and Tree Heights							
Habitat Description:		Dominant canopy of <i>Eucalyptus populnea</i> and sub canopy of juvenile <i>E. populnea</i> . Shrub layer consists of <i>Acacia stenophylla</i> . Ground layer predominantly native grasses and forbs with scattered woody debris.					
Regional Ecosystem:	11.3.2	Median Tree Canopy ht:	17	Emergent ht:		Subcanopy ht:	4

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 106.5

Per ha Total (m): 1065

Site Total (m): 532.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	20	80	20	65	15	40%
% Native annual grass						0%
% Native forbs and other species	10	5			5	4%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs	30		35	20	25	22%
% Litter	20	15	10	10	50	21%
% Rock						0%
% Bare ground	20		35	5	5	13%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BK
	Date:	05/03/2021
	Observers:	DRF/KR

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	15
Total No. Large Trees per ha:	30
Native Tree Species Richness:	3
Eucalypts:	# of trees >= benchmark: 15
	# of trees >= benchmark per ha: 30
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	1
Grass spp. richness:	9
Forbs and others spp. richness:	10
Non-native plant cover (%)	10%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus populnea</i>		Canopy		Yes
<i>Eucalyptus tereticornis</i>			Canopy	
<i>Acacia stenophylla</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Phyla canescens</i>		Forbs and Other Species	Exotic
<i>Enteropogon acicularis</i>		Grass	
<i>Panicum queenslandicum</i>		Grass	
<i>Eriochloa crebra</i>		Grass	
<i>Brunoniella australis</i>		Forbs and Other Species	
<i>Neptunia gracilis</i> forma <i>gracilis</i>		Forbs and Other Species	
<i>Sclerolaena tetracuspis</i>		Forbs and Other Species	
<i>Paspalidium constrictum</i>		Grass	
<i>Cyperus fulvus</i>		Forbs and Other Species	
<i>Dichanthium sericeum</i>		Grass	
<i>Acacia stenophylla</i>		Shrub	
<i>Bothriochloa ewartiana</i>		Grass	
Other	<i>Eragrostis</i> sp	Grass	
<i>Einadia nutans</i>		Forbs and Other Species	
<i>Enchylaena tomentosa</i>		Forbs and Other Species	
<i>Portulaca oleracea</i>		Forbs and Other Species	
<i>Lepidium bonariense</i>		Forbs and Other Species	Exotic
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
<i>Marsilea hirsuta</i>		Forbs and Other Species	
<i>Vachellia farnesiana</i>		Shrub	Exotic
	<i>Eriochloa</i> sp		
<i>Calotis cuneata</i>		Forbs and Other Species	
<i>Sclerolaena bicornis</i>		Forbs and Other Species	
<i>Opuntia stricta</i>		Shrub	Exotic
<i>Opuntia aurantiaca</i>		Forbs and Other Species	Exotic
<i>Sporobolus elongatus</i>		Grass	
<i>Dinebra divaricatissima</i>		Grass	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BK
Entered:.....	Date:	05/03/2021
Checked:.....	Observers:	KR/DRF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	7
Canopy total (m):	51.7
Emergent total (m):	0
Shrub total (m):	3.8

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Eucalyptus populnea</i>		Canopy	22.4	33.2	10.8
<i>Eucalyptus populnea</i>		Canopy	33.6	50	16.4
<i>Acacia stenophylla</i>		Shrub	35.2	39	3.8
<i>Eucalyptus populnea</i>		Canopy	56.8	81.3	24.5
<i>Eucalyptus populnea</i>		Subcanopy	68.5	71.4	2.9
<i>Eucalyptus populnea</i>		Subcanopy	91.6	95.7	4.1

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BD
Entered:.....	Date:	05/03/2021
Checked:.....	Observers:	BJ/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	340531.89301	Northing:	6922147.07993	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Eucalyptus camaldulensis</i> open woodland					
Regional Ecosystem:	11.3.25	Median Tree Canopy ht:	16	Emergent ht:		Subcanopy ht:	10

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	16.5
Per ha Total (m):	165
Site Total (m):	82.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	65	70	90	15	35	55%
% Native annual grass						0%
% Native forbs and other species	15	20		10	15	12%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs				65	35	20%
% Litter	20	10	10	5	15	12%
% Rock						0%
% Bare ground						0%
% Cryptogams				5		1%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BD
	Date:	05/03/2021
	Observers:	Brad

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	0%
Total No. Large Trees:	11
Total No. Large Trees per ha:	22
Native Tree Species Richness:	2
Eucalypts:	# of trees >= benchmark: 10
	# of trees >= benchmark per ha: 20
Non-eucalypts:	# of trees >= benchmark: 1
	# of trees >= benchmark per ha: 2

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	2
Grass spp. richness:	4
Forbs and others spp. richness:	8
Non-native plant cover (%)	2%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy		
<i>Acacia stenophylla</i>			Sub-Canopy	

50 x 10m area

Species		Life Form	Status
Other	<i>Panicum</i> sp. collected b100	Grass	
<i>Phyla canescens</i>		Forbs and Other Species	Exotic
<i>Acacia stenophylla</i>		Shrub	
<i>Solanum nigrum</i>		Forbs and Other Species	Exotic
<i>Bidens bipinnata</i>		Forbs and Other Species	Exotic
Other	<i>Paspalidium</i> sp. b100	Grass	
<i>Astrelba elymoides</i>		Grass	
<i>Einadia hastata</i>		Forbs and Other Species	
<i>Salsola australis</i>		Shrub	
<i>Erigeron canadensis</i>		Forbs and Other Species	Exotic
<i>Marsilea hirsuta</i>		Forbs and Other Species	
Other	<i>Eragrostis</i> sp. b100	Grass	
<i>Bidens pilosa</i>		Forbs and Other Species	Exotic
<i>Oxalis chnoodes</i>		Forbs and Other Species	
Other	Cyperaceae sp. b100	Forbs and Other Species	
<i>Rapistrum rugosum</i>		Forbs and Other Species	Exotic
<i>Commelina lanceolata</i>		Forbs and Other Species	
<i>Asparagus officinalis</i>		Shrub	Exotic
<i>Alternanthera denticulata</i>		Forbs and Other Species	
<i>Tribulus terrestris</i>		Forbs and Other Species	
<i>Cyperus bifax</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BD
Entered:.....	Date:	05/03/2021
Checked:.....	Observers:	BJ/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	9.4
Canopy total (m):	41.1
Emergent total (m):	0
Shrub total (m):	1.3

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy	8	16.8	8.8
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy	24.7	29.7	5
<i>Acacia stenophylla</i>		Subcanopy	36	45.4	9.4
<i>Acacia stenophylla</i>		Shrub	42.1	43.4	1.3
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy	63.7	86	22.3
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy	95	100	5

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BM
Entered:.....	Date:	07/03/2021
Checked:.....	Observers:	DRF/KR
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>							
Bioregion:		Brigalow belt					
Plot Origin:	Zone:	56	Easting:	358071.23505	Northing:	6933744.12188	Accuracy: +/-10m
Datum:		GDA94	Plot bearing:				
Locality description:							

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Eucalyptus orgadophila</i> and <i>Callitris glaucophylla</i> .					
Regional Ecosystem:	11.8.5	Median Tree Canopy ht:	16	Emergent ht:		Subcanopy ht:	6

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	45.5
Per ha Total (m):	455
Site Total (m):	227.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	25	20	45	10	25	25%
% Native annual grass						0%
% Native forbs and other species	15	25	10	10	15	15%
% Native shrubs (<1m in height)		1		35		7%
% Non-native grass						0%
% Non-native forbs & shrubs	5	1	5			2%
% Litter	20	38	20	20	40	28%
% Rock	25	15	20	25	20	21%
% Bare ground	10					2%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BM
	Date:	07/03/2021
	Observers:	DRF/KR

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	10
Total No. Large Trees per ha:	20
Native Tree Species Richness:	10
Eucalypts:	# of trees >= benchmark: 10
	# of trees >= benchmark per ha: 20
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	6
Grass spp. richness:	7
Forbs and others spp. richness:	22
Non-native plant cover (%)	5%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus orgadophila</i>		Canopy		Yes
<i>Callitris glaucophylla</i>		Canopy		Yes
<i>Psydrax odorata</i> forma <i>buxifolia</i>			Subcanopy	
<i>Elaeodendron australe</i> var. <i>australe</i>			Subcanopy	
<i>Auranticarpa rhombifolia</i>			Subcanopy	
<i>Acacia maidenii</i>			Subcanopy	
<i>Dodonaea viscosa</i> subsp. <i>angustifolia</i>			Subcanopy	
<i>Notelaea microcarpa</i>			Subcanopy	
<i>Diospyros humilis</i>			Subcanopy	
<i>Alphitonia excelsa</i>			Subcanopy	
<i>Opuntia tomentosa</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Sida hackettiana</i>		Forbs and Other Species	
<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>		Grass	Exotic
Other	<i>Aristida</i> sp1	Grass	
<i>Dodonaea viscosa</i> subsp. <i>angustifolia</i>		Forbs and Other Species	
<i>Malvastrum coromandelianum</i> subsp. <i>coromandelianum</i>		Forbs and Other Species	Exotic
<i>Cymbopogon refractus</i>		Grass	
<i>Opuntia tomentosa</i>		Shrub	Exotic
<i>Pandorea pandorana</i>		Forbs and Other Species	
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
<i>Glycine tabacina</i>		Forbs and Other Species	
Other	Chenopodiaceae	Forbs and Other Species	
Other	<i>Abutilon</i>	Forbs and Other Species	
<i>Boerhavia dominii</i>		Forbs and Other Species	
<i>Cyperus gracilis</i>		Forbs and Other Species	
Other	<i>Aristida</i> sp2	Grass	
<i>Carissa ovata</i>		Shrub	
<i>Paspalidium gracile</i>		Grass	
<i>Dichanthium sericeum</i>		Grass	
<i>Enteropogon ramosus</i>		Grass	
<i>Desmodium brachypodum</i>		Forbs and Other Species	
<i>Vittadinia cuneata</i> var. <i>hirsuta</i>		Forbs and Other Species	
<i>Cirsium vulgare</i>		Forbs and Other Species	Exotic
<i>Sporobolus elongatus</i>		Grass	
<i>Nyssanthus erecta</i>		Forbs and Other Species	
<i>Solanum ellipticum</i>		Forbs and Other Species	
Other	<i>Hovea</i>	Forbs and Other Species	
<i>Gomphocarpus fruticosus</i>		Shrub	Exotic
<i>Sigesbeckia australiensis</i>		Forbs and Other Species	
<i>Dodonaea viscosa</i> subsp. <i>angustifolia</i>		Shrub	
<i>Notelaea microcarpa</i>		Shrub	
<i>Callitris glaucophylla</i>		Shrub	
<i>Acacia decora</i>		Shrub	
<i>Geitonoplesium cymosum</i>		Forbs and Other Species	
<i>Brachychiton populneus</i> subsp. <i>populneus</i>		Forbs and Other Species	
<i>Einadia nutans</i>		Forbs and Other Species	
Other	<i>Lepidium</i>	Forbs and Other Species	
<i>Alectryon diversifolius</i>		Shrub	
<i>Calotis lappulacea</i>		Forbs and Other Species	
<i>Eucalyptus orgadophila</i>		Forbs and Other Species	
<i>Dichondra repens</i>		Forbs and Other Species	
<i>Psydrax odorata</i> forma <i>buxifolia</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BM
Entered:.....	Date:	07/03/2021
Checked:.....	Observers:	DRF/KR
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	14
Canopy total (m):	56
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Eucalyptus orgadophila</i>	Canopy	1	11	10
<i>Callitris glaucophylla</i>	Canopy	6	11	5
<i>Psyrax odorata</i> subsp. <i>australiana</i>	Subcanopy	8	12	4
<i>Eucalyptus orgadophila</i>	Canopy	14	19	5
<i>Psyrax odorata</i> subsp. <i>australiana</i>	Subcanopy	22	24	2
<i>Callitris glaucophylla</i>	Canopy	34	40	6
<i>Eucalyptus orgadophila</i>	Canopy	35	40	5
<i>Eucalyptus orgadophila</i>	Canopy	43	47	4
<i>Eucalyptus orgadophila</i>	Canopy	50	53	3
<i>Psyrax odorata</i> subsp. <i>australiana</i>	Subcanopy	50	51	1
<i>Callitris glaucophylla</i>	Canopy	51	56	5
<i>Eucalyptus orgadophila</i>	Canopy	57	61	4
<i>Eucalyptus orgadophila</i>	Canopy	63	70	7
<i>Eucalyptus orgadophila</i>	Canopy	73	79	6
<i>Callitris glaucophylla</i>	Subcanopy	78	81	3
<i>Eucalyptus orgadophila</i>	Canopy	92	98	6
<i>Callitris glaucophylla</i>	Subcanopy	93	95	2
<i>Eucalyptus orgadophila</i>	Canopy	93	100	7
<i>Psyrax odorata</i> subsp. <i>australiana</i>	Subcanopy	97	98	1
<i>Callitris glaucophylla</i>	Subcanopy	99	100	1

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BE
	Date:	07/03/2021
	Observers:	BJ/DAF

100 x 50m Area SITE INFORMATION

Location									
Bioregion:		Brigalow belt							
Plot Origin:	Zone:	56	Easting:	370275.1174	Northing:	6937263.76661	Accuracy:	+/-10m	
Datum:		GDA94	Plot bearing:						
Locality description:									

Regional Ecosystem and Tree Heights							
Habitat Description:		<i>Eucalyptus crebra</i> open woodland					
Regional Ecosystem:	11.8.4	Median Tree Canopy ht:	15	Emergent ht:		Subcanopy ht:	5.4

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	34.5
Per ha Total (m):	345
Site Total (m):	172.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass		25	10	10	10	11%
% Native annual grass						0%
% Native forbs and other species	20	15	20	10	10	15%
% Native shrubs (<1m in height)						0%
% Non-native grass	30	25	25	60	40	36%
% Non-native forbs & shrubs	10	15	20		10	11%
% Litter	40	20	25	10	15	22%
% Rock						0%
% Bare ground				10	15	5%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BE
Entered:.....	Date:	07/03/2021
Checked:.....	Observers:	Brad and Dane
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	5
Total No. Large Trees per ha:	10
Native Tree Species Richness:	6
Eucalypts:	# of trees >= benchmark: 5
	# of trees >= benchmark per ha: 10
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	5
Grass spp. richness:	8
Forbs and others spp. richness:	14
Non-native plant cover (%)	30%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus crebra</i>		Canopy		Yes
<i>Eucalyptus tereticornis</i>		Canopy		Yes
<i>Notelaea microcarpa</i>			Subcanopy	
<i>Acacia excelsa</i> subsp. <i>excelsa</i>			Canopy	
<i>Acacia crassa</i> subsp. <i>crassa</i>			Subcanopy	
<i>Brachychiton populneus</i> subsp. <i>populneus</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Eustrephus latifolius</i>		Forbs and Other Species	
<i>Megathyrsus maximus</i> var. <i>maximus</i>		Grass	Exotic
<i>Eucalyptus crebra</i>		Shrub	
<i>Sida rhombifolia</i>		Forbs and Other Species	Exotic
<i>Eucalyptus tereticornis</i> subsp. <i>tereticornis</i>		Shrub	
<i>Brunoniella australis</i>		Forbs and Other Species	
Other	Yellow burr daisy	Forbs and Other Species	
<i>Opuntia tomentosa</i>		Shrub	Exotic
<i>Einadia nutans</i>		Forbs and Other Species	
<i>Dianella longifolia</i> var. <i>longifolia</i>		Forbs and Other Species	
<i>Acacia crassa</i> subsp. <i>crassa</i>		Shrub	
<i>Pittosporum angustifolium</i>		Shrub	
<i>Enteropogon ramosus</i>		Grass	
<i>Eriochloa crebra</i>		Grass	
<i>Salsola australis</i>		Shrub	
Other	<i>Aristida</i> sp.	Grass	
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
<i>Peripleura hispidula</i> var. <i>hispidula</i>		Forbs and Other Species	
<i>Lepidium africanum</i>		Forbs and Other Species	Exotic
<i>Glycine tomentella</i>		Forbs and Other Species	
Other	<i>Cyperus</i> sp.	Forbs and Other Species	
<i>Digitaria divaricatissima</i> var. <i>divaricatissima</i>		Grass	
<i>Cymbopogon refractus</i>		Grass	
<i>Dichanthium sericeum</i>		Grass	
<i>Eragrostis curvula</i>		Grass	Exotic
<i>Panicum queenslandicum</i>		Grass	
<i>Cyperus gracilis</i>		Forbs and Other Species	
<i>Malvastrum americanum</i> var. <i>americanum</i>		Forbs and Other Species	Exotic
<i>Jasminum simplicifolium</i> subsp. <i>australiense</i>		Forbs and Other Species	
<i>Dichondra repens</i>		Forbs and Other Species	
<i>Chloris gayana</i>		Grass	Exotic
Other	<i>Aristida</i> sp. 2	Grass	
<i>Jasminum dianthifolium</i>		Forbs and Other Species	
<i>Commelina lanceolata</i>		Forbs and Other Species	
<i>Einadia hastata</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BE
Entered:.....	Date:	07/03/2021
Checked:.....	Observers:	BJ/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	14.8
Canopy total (m):	23.1
Emergent total (m):	0
Shrub total (m):	2.3

100m Transect: Tree Shrub and Canopy Cover:					
Species	Type	Start	Finish	Total	
<i>Eucalyptus crebra</i>	Canopy	0	20.8	20.8	
<i>Eucalyptus crebra</i>	Shrub	25.2	26.2	1	
<i>Eucalyptus crebra</i>	Shrub	26.5	26.9	0.4	
<i>Eucalyptus crebra</i>	Canopy	27	29.3	2.3	
<i>Eucalyptus crebra</i>	Shrub	29.5	30	0.5	
<i>Eucalyptus crebra</i>	Shrub	32.3	32.7	0.4	
<i>Eucalyptus crebra</i>	Subcanopy	34.1	35.5	1.4	
<i>Eucalyptus crebra</i>	Subcanopy	37	39.7	2.7	
<i>Eucalyptus crebra</i>	Subcanopy	44.3	47.6	3.3	
<i>Pittosporum angustifolium</i>	Subcanopy	54	61.4	7.4	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BN
Entered:.....	Date:	08/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	283759.1734	Northing:	6838638.18362	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Eucalyptus woolsiana</i> open forest					
Regional Ecosystem:	11.5.20	Median Tree Canopy ht:	16	Emergent ht:		Subcanopy ht:	8

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	53.5
Per ha Total (m):	535
Site Total (m):	267.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	50	5	30	25	40	30%
% Native annual grass						0%
% Native forbs and other species	10	5	5	10	10	8%
% Native shrubs (<1m in height)						0%
% Non-native grass			5			1%
% Non-native forbs & shrubs	20	20			10	10%
% Litter	20	40	20	15	10	21%
% Rock						0%
% Bare ground		30	40	50	30	30%
% Cryptogams						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BN
	Date:	08/03/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	50%
Total No. Large Trees:	0
Total No. Large Trees per ha:	0
Native Tree Species Richness:	3
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	0
Grass spp. richness:	10
Forbs and others spp. richness:	17
Non-native plant cover (%)	1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus woollsiana</i>		Canopy		Yes
Other	<i>Acacia</i> sp	Subcanopy		
<i>Allocasuarina luehmannii</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Bryophyllum delagoense</i>		Forbs and Other Species	Exotic
<i>Cymbopogon refractus</i>		Grass	
<i>Paspalidium gracile</i>		Grass	
<i>Commelina ensifolia</i>		Forbs and Other Species	
Other	<i>Eragrostis sp1</i>	Grass	
Other	<i>Eragrostis sp2</i>	Grass	
Other	<i>Lomandra sp</i>	Forbs and Other Species	
<i>Dinebra ligulata</i>		Grass	
<i>Enteropogon acicularis</i>		Grass	
<i>Portulaca filifolia</i>		Forbs and Other Species	
Other	Cyperaceae sp1	Forbs and Other Species	
Other	<i>Aristida sp1</i>	Grass	
<i>Paspalidium gracile</i>		Grass	
<i>Dodonaea viscosa subsp. angustifolia</i>		Forbs and Other Species	
Other	<i>Solanum sp</i>	Forbs and Other Species	
Other	Cyperaceae sp2	Forbs and Other Species	
<i>Enchylaena tomentosa</i>		Forbs and Other Species	
<i>Calandrinia pickeringii</i>		Forbs and Other Species	
<i>Harrisia martinii</i>		Forbs and Other Species	Exotic
<i>Opuntia tomentosa</i>		Forbs and Other Species	Exotic
Other	Poaceae sp2	Grass	
<i>Solanum ellipticum</i>		Forbs and Other Species	
<i>Dianella longifolia</i>		Forbs and Other Species	
<i>Portulaca oleracea</i>		Forbs and Other Species	
Other	<i>Paspalidium sp</i>	Grass	
<i>Eragrostis cilianensis</i>		Grass	Exotic
Other	<i>Myoporum sp</i>	Forbs and Other Species	
<i>Murdannia graminea</i>		Forbs and Other Species	
Other	<i>Epaltes</i>	Forbs and Other Species	
<i>Alternanthera denticulata</i>		Forbs and Other Species	
<i>Pittosporum angustifolium</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BN
Entered:.....	Date:	08/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	2
Canopy total (m):	76.6
Emergent total (m):	0
Shrub total (m):	2.4

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Eucalyptus woollsiana</i>	Canopy	0	5	5
<i>Eucalyptus woollsiana</i>	Canopy	9.8	20.9	11.1
<i>Eucalyptus woollsiana</i>	Canopy	25.9	29.2	3.3
<i>Eucalyptus woollsiana</i>	Canopy	33.1	40.2	7.1
<i>Eucalyptus woollsiana</i>	Canopy	42.1	54	11.9
<i>Eucalyptus woollsiana</i>	Canopy	56.4	67.4	11
<i>Eucalyptus woollsiana</i>	Canopy	69	77.2	8.2
<i>Geijera parviflora</i>	Shrub	77.5	79.9	2.4
<i>Eucalyptus woollsiana</i>	Canopy	79.9	96.1	16.2
<i>Eucalyptus woollsiana</i>	Canopy	97.2	100	2.8
<i>Allocasuarina luehmannii</i>	Subcanopy	98	100	2

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BO
	Date:	08/03/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

Location							
Bioregion:		Brigalow belt					
Plot Origin:	Zone:	56	Easting:	279002.83031	Northing:	6837013.96646	Accuracy: +/-10m
Datum:	GDA94		Plot bearing:				
Locality description:							

Regional Ecosystem and Tree Heights							
Habitat Description:		<i>Melaleuca densispicata</i> open forest with <i>Eucalyptus camaldulensis</i> emergent					
Regional Ecosystem:	11.5.14	Median Tree Canopy ht:	8	Emergent ht:	18	Subcanopy ht:	3

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 8.5

Per ha Total (m): 85

Site Total (m): 42.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	45	40	60	40	20	41%
% Native annual grass						0%
% Native forbs and other species	15	10	10	25	10	14%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	15	10	10	5	15	11%
% Rock						0%
% Bare ground	25	40	20	30	15	26%
% Cryptograms					40	8%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BO
	Date:	08/03/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	5
Total No. Large Trees per ha:	10
Native Tree Species Richness:	3
Eucalypts:	# of trees >= benchmark: 4
	# of trees >= benchmark per ha: 8
Non-eucalypts:	# of trees >= benchmark: 1
	# of trees >= benchmark per ha: 2

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	1
Grass spp. richness:	3
Forbs and others spp. richness:	12
Non-native plant cover (%)	1%

100 x 50m area			
Species	EDL	Non-EDL	Recruitment
<i>Melaleuca densispicata</i>	Canopy		Yes
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Emergent	
<i>Geijera parviflora</i>		Canopy	
<i>Eremophila deserti</i>		Canopy	

50 x 10m area

Species		Life Form	Status
Other	<i>Amyema</i>	Forbs and Other Species	
<i>Marsilea hirsuta</i>		Forbs and Other Species	
Other	<i>Eragrostis sp1</i>	Grass	
Other	<i>Dinebra</i>	Grass	
Other	<i>Eriochloa</i>	Grass	
Other	Cyperaceae sp1	Forbs and Other Species	
<i>Dianella longifolia</i>		Forbs and Other Species	
<i>Alternanthera denticulata</i>		Forbs and Other Species	
Other	Cyperaceae sp2	Forbs and Other Species	
<i>Eclipta platyglossa</i>		Forbs and Other Species	
<i>Chloris gayana</i>		Grass	Exotic
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
Other	<i>Eremophila</i>	Shrub	
Other	Chenopodiaceae	Forbs and Other Species	
Other	Cyperaceae sp2	Forbs and Other Species	
<i>Eryngium paludosum</i>		Forbs and Other Species	
Other	<i>Juncus sp</i>	Forbs and Other Species	
Other	<i>Epaltes</i>	Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BO
Entered:.....	Date:	08/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	0
Canopy total (m):	7.2
Emergent total (m):	13.6
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Melaleuca densispicata</i>		Canopy	0	1.9	1.9
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy	38.1	40	1.9
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Emergent	44.5	56.2	11.7
<i>Melaleuca densispicata</i>		Canopy	45.9	49.3	3.4
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Emergent	61.2	63.1	1.9

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BF
Entered:.....	Date:	08/03/2021
Checked:.....	Observers:	KR/BJ
Corrected:.....		

100 x 50m Area SITE INFORMATION

Location								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	370921.90924	Northing:	6937926.90532	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

Regional Ecosystem and Tree Heights							
Habitat Description:		Canopy dominated by <i>Eucalyptus crebra</i> with a sub canopy of <i>Eucalyptus crebra</i> , <i>Brachychiton populneus</i> , <i>Acacia decora</i> and <i>Pittosporum angustifolium</i> . Shrub layer consists of juvenile sub canopy species. Ground layer consists of native grasses and forbs with scattered <i>Opuntia tomentosa</i> .					
Regional Ecosystem:	11.8.4	Median Tree Canopy ht:	20	Emergent ht:		Subcanopy ht:	11

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 79

Per ha Total (m): 790

Site Total (m): 395

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	50	5	70	35	30	38%
% Native annual grass						0%
% Native forbs and other species	15	20	5	15	5	12%
% Native shrubs (<1m in height)				15	25	8%
% Non-native grass	5	35				8%
% Non-native forbs & shrubs	5				5	2%
% Litter	20	15	10	5	10	12%
% Rock	5	25	15	30	25	20%
% Bare ground						0%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BF
Entered:.....	Date:	08/03/2021
Checked:.....	Observers:	KR / BJ
Corrected:.....		

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	10
Total No. Large Trees per ha:	20
Native Tree Species Richness:	8
Eucalypts:	# of trees >= benchmark: 10
	# of trees >= benchmark per ha: 20
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	5
Grass spp. richness:	7
Forbs and others spp. richness:	11
Non-native plant cover (%)	5%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus crebra</i>		Canopy		Yes
<i>Brachychiton populneus</i> subsp. <i>populneus</i>			Subcanopy	
<i>Pittosporum angustifolium</i>			Subcanopy	
<i>Geijera parviflora</i>			Subcanopy	
<i>Acacia crassa</i> subsp. <i>crassa</i>			Subcanopy	
<i>Acacia decora</i>			Subcanopy	
<i>Psydrax odorata</i> forma <i>australiana</i>			Subcanopy	
<i>Notelaea microcarpa</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
<i>Jasminum didymum</i> subsp. <i>lineare</i>		Forbs and Other Species	
Other	Aristida sp. 1	Grass	
<i>Dichanthium sericeum</i>		Grass	
<i>Einadia hastata</i>		Forbs and Other Species	
<i>Eriochloa crebra</i>		Grass	
<i>Opuntia tomentosa</i>		Shrub	Exotic
<i>Enteropogon ramosus</i>		Grass	
<i>Lepidium africanum</i>		Forbs and Other Species	Exotic
<i>Themeda triandra</i>		Grass	
<i>Eustrephus latifolius</i>		Forbs and Other Species	
<i>Geijera parviflora</i>		Shrub	
<i>Bursaria spinosa</i> subsp. <i>spinosa</i>		Shrub	
<i>Glycine tabacina</i>		Forbs and Other Species	
<i>Notelaea microcarpa</i>		Shrub	
<i>Cyperus gracilis</i>		Forbs and Other Species	
<i>Paspalidium caespitosum</i>		Grass	
<i>Acacia decora</i>		Shrub	
<i>Acacia crassa</i> subsp. <i>crassa</i>		Shrub	
<i>Coleus australis</i>		Forbs and Other Species	
<i>Sida rhombifolia</i>		Forbs and Other Species	Exotic
<i>Lomandra longifolia</i>		Forbs and Other Species	
<i>Peripleura hispidula</i> var. <i>hispidula</i>		Forbs and Other Species	
<i>Verbena bonariensis</i>		Forbs and Other Species	Exotic
<i>Cyperus gracilis</i>		Forbs and Other Species	
<i>Bothriochloa pertusa</i>		Grass	Exotic
<i>Panicum effusum</i>		Grass	
<i>Eremophila debilis</i>		Forbs and Other Species	
<i>Jasminum dianthifolium</i>		Forbs and Other Species	
<i>Bidens pilosa</i>		Forbs and Other Species	Exotic

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BF
Entered:.....	Date:	08/03/2021
Checked:.....	Observers:	KR / BJ
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	8.8
Canopy total (m):	43.1
Emergent total (m):	13.6
Shrub total (m):	8.2

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Eucalyptus crebra</i>	Canopy	0	12.2	12.2
<i>Brachychiton populneus</i> subsp. <i>populneus</i>	Subcanopy	21.6	30.4	8.8
<i>Eucalyptus crebra</i>	Canopy	27	38.8	11.8
<i>Acacia decora</i>	Shrub	44.1	48	3.9
<i>Eucalyptus crebra</i>	Canopy	46.5	54.5	8
<i>Eucalyptus crebra</i>	Shrub	51.6	52.5	0.9
<i>Eucalyptus crebra</i>	Canopy	58	62.1	4.1
<i>Acacia crassa</i> subsp. <i>crassa</i>	Shrub	72.4	73	0.6
<i>Acacia crassa</i> subsp. <i>crassa</i>	Shrub	75.3	76	0.7
<i>Dodonaea viscosa</i> subsp. <i>angustifolia</i>	Shrub	82	83	1
<i>Dodonaea viscosa</i> subsp. <i>angustifolia</i>	Shrub	86.5	87.6	1.1
<i>Eucalyptus crebra</i>	Canopy	93	100	7

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BG
Entered:.....	Date:	09/03/2021
Checked:.....	Observers:	BJ/KR
Corrected:.....		

100 x 50m Area SITE INFORMATION

Location								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	377836.59244	Northing:	6945609.64854	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

Regional Ecosystem and Tree Heights							
Habitat Description:		Canopy dominated by <i>Eucalyptus orgadophila</i> with scattered <i>Eucalyptus crebra</i> . Sub canopy and shrub layer absent, with a predominantly exotic ground layer					
Regional Ecosystem:	11.8.5	Median Tree Canopy ht:	14	Emergent ht:		Subcanopy ht:	0

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	7
Per ha Total (m):	70
Site Total (m):	35

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	5	5	5	5	10	6%
% Native annual grass						0%
% Native forbs and other species	10	3	5	5	10	7%
% Native shrubs (<1m in height)						0%
% Non-native grass	75	67	75	65	60	68%
% Non-native forbs & shrubs		5	5	5	10	5%
% Litter	10	10	10	15	10	11%
% Rock		10				2%
% Bare ground				5		1%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



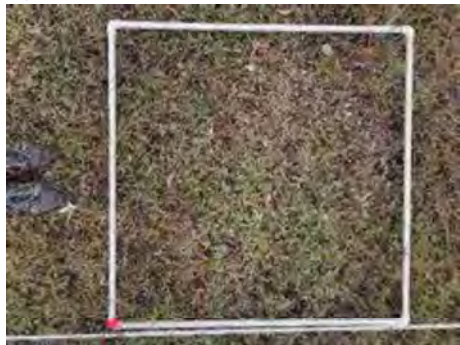
Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BG
	Date:	09/03/2021
	Observers:	KR / BJ

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	0%
Total No. Large Trees:	9
Total No. Large Trees per ha:	18
Native Tree Species Richness:	2
Eucalypts:	# of trees >= benchmark: 9
	# of trees >= benchmark per ha: 18
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	0
Grass spp. richness:	5
Forbs and others spp. richness:	5
Non-native plant cover (%)	70%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus orgadophila</i>		Canopy		
<i>Eucalyptus crebra</i>		Canopy		

50 x 10m area

Species		Life Form	Status
<i>Megathyrsus maximus</i> var. <i>maximus</i>		Grass	Exotic
<i>Heliotropium amplexicaule</i>		Forbs and Other Species	Exotic
<i>Sisymbrium irio</i>		Forbs and Other Species	Exotic
<i>Cynodon dactylon</i> var. <i>dactylon</i>		Grass	Exotic
<i>Amaranthus viridis</i>		Forbs and Other Species	Exotic
<i>Malvastrum americanum</i> var. <i>americanum</i>		Forbs and Other Species	Exotic
<i>Portulaca oleracea</i>		Forbs and Other Species	Exotic
<i>Chloris truncata</i>		Grass	
<i>Malvastrum coromandelianum</i> subsp. <i>coromandelianum</i>		Forbs and Other Species	Exotic
<i>Lepidium africanum</i>		Forbs and Other Species	Exotic
Other	<i>Aristida</i> sp.1	Grass	
<i>Dysphania carinata</i>		Forbs and Other Species	
<i>Sida rhombifolia</i>		Forbs and Other Species	Exotic
<i>Sporobolus africanus</i>		Grass	Exotic
<i>Austrostipa verticillata</i>		Grass	
<i>Urochloa mosambicensis</i>		Grass	Exotic
<i>Sida hackettiana</i>		Forbs and Other Species	
<i>Jasminum dianthifolium</i>		Forbs and Other Species	
<i>Paspalidium caespitosum</i>		Grass	
<i>Cyperus gracilis</i>		Forbs and Other Species	
<i>Alternanthera nana</i>		Forbs and Other Species	
Other	Asteraceae sp.1	Forbs and Other Species	Exotic
<i>Bothriochloa biloba</i>		Grass	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BG
Entered:.....	Date:	09/03/2021
Checked:.....	Observers:	BJ/KR
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	0
Canopy total (m):	50.9
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Eucalyptus orgadophila</i>		Canopy	1	7	6
<i>Eucalyptus crebra</i>		Canopy	3.2	7.9	4.7
<i>Eucalyptus orgadophila</i>		Canopy	15.6	36.9	21.3
<i>Eucalyptus orgadophila</i>		Canopy	51.4	55	3.6
<i>Eucalyptus orgadophila</i>		Canopy	68.6	85	16.4
<i>Eucalyptus orgadophila</i>		Canopy	86	88.7	2.7

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BH
	Date:	10/03/2021
	Observers:	KR/BJ

100 x 50m Area SITE INFORMATION

Location								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	378467.67227	Northing:	6948520.60374	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

Regional Ecosystem and Tree Heights							
Habitat Description:		Canopy consists of <i>Eucalyptus orgadophila</i> with no subcanopy or shrub layer present. Ground cover dominated by native grasses and forbs. Low grazing level with threatened species <i>Digitaria porrecta</i> present.					
Regional Ecosystem:	11.8.5	Median Tree Canopy ht:	14	Emergent ht:		Subcanopy ht:	0

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	14.5
Per ha Total (m):	145
Site Total (m):	72.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	15	50	55	25	80	45%
% Native annual grass						0%
% Native forbs and other species	50	5	10	10	5	16%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs	10	15		15	5	9%
% Litter	20	25	35	45	10	27%
% Rock						0%
% Bare ground	5	5		5		3%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BH
	Date:	10/03/2021
	Observers:	Brad

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	100%
Total No. Large Trees:	5
Total No. Large Trees per ha:	10
Native Tree Species Richness:	1
Eucalypts:	# of trees >= benchmark: 5
	# of trees >= benchmark per ha: 10
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	2
Grass spp. richness:	18
Forbs and others spp. richness:	11
Non-native plant cover (%)	15%

100 x 50m area			
Species	EDL	Non-EDL	Recruitment
<i>Eucalyptus orgadophila</i>	Canopy		Yes

50 x 10m area

Species		Life Form	Status
<i>Eriochloa crebra</i>		Grass	
<i>Digitaria porrecta</i>		Grass	Near Threatened
<i>Malvastrum americanum</i> var. <i>americanum</i>		Forbs and Other Species	Exotic
<i>Einadia nutans</i>		Forbs and Other Species	
<i>Rhynchosia minima</i>		Forbs and Other Species	
<i>Chloris truncata</i>		Grass	
<i>Glycine tomentella</i>		Forbs and Other Species	
<i>Panicum queenslandicum</i>		Grass	
<i>Boerhavia dominii</i>		Forbs and Other Species	
<i>Aristida leptopoda</i>		Grass	
<i>Salvia reflexa</i>		Forbs and Other Species	Exotic
<i>Cyperus gracilis</i>		Forbs and Other Species	
Other	<i>Oxalis</i> sp.	Forbs and Other Species	
<i>Megathyrsus maximus</i> var. <i>maximus</i>		Grass	Exotic
<i>Sida rhombifolia</i>		Forbs and Other Species	Exotic
<i>Enteropogon ramosus</i>		Grass	
<i>Bidens pilosa</i>		Forbs and Other Species	Exotic
<i>Astrebla elymoides</i>		Grass	
<i>Themeda triandra</i>		Grass	
<i>Dichanthium sericeum</i>		Grass	
Other	<i>Walwalleya</i> sp.	Grass	
<i>Bothriochloa biloba</i>		Grass	
<i>Erigeron canadensis</i>		Forbs and Other Species	Exotic
<i>Themeda avenacea</i>		Grass	
<i>Austrostipa verticillata</i>		Grass	
Other	<i>Aristida</i> sp. 1	Grass	
<i>Paspalidium caespitosum</i>		Grass	
<i>Acacia salicina</i>		Shrub	
<i>Alectryon oleifolius</i> subsp. <i>elongatus</i>		Shrub	
<i>Opuntia tomentosa</i>		Shrub	Exotic
<i>Eremophila debilis</i>		Forbs and Other Species	
<i>Lepidium africanum</i>		Forbs and Other Species	Exotic
<i>Bidens bipinnata</i>		Forbs and Other Species	Exotic
<i>Malvastrum coromandelianum</i> subsp. <i>coromandelianum</i>		Forbs and Other Species	Exotic
<i>Panicum decompositum</i>		Grass	
<i>Paspalidium globoideum</i>		Grass	
<i>Digitaria divaricatissima</i>		Grass	
<i>Portulaca oleracea</i>		Forbs and Other Species	Exotic
<i>Zinnia peruviana</i>		Forbs and Other Species	Exotic
<i>Cyperus bifax</i>		Forbs and Other Species	
<i>Neptunia gracilis</i> forma <i>gracilis</i>		Forbs and Other Species	
<i>Urochloa mosambicensis</i>		Grass	Exotic
<i>Peripleura hispidula</i> var. <i>hispidula</i>		Forbs and Other Species	
Other	<i>Amaranthus</i> sp.	Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BH
Entered:.....	Date:	10/03/2021
Checked:.....	Observers:	KR/BJ
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	0
Canopy total (m):	52.2
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Eucalyptus orgadophila</i>		Canopy	0	14.3	14.3
<i>Eucalyptus orgadophila</i>		Canopy	16.6	27.3	10.7
<i>Eucalyptus orgadophila</i>		Canopy	29.5	47.1	17.6
<i>Eucalyptus orgadophila</i>		Canopy	60.3	65.4	5.1
<i>Eucalyptus orgadophila</i>		Canopy	94.2	95	0.8
<i>Eucalyptus orgadophila</i>		Canopy	96.3	100	3.7

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BI
	Date:	10/03/2021
	Observers:	KR/BJ

100 x 50m Area SITE INFORMATION

Location									
Bioregion:		Brigalow belt							
Plot Origin:	Zone:	56	Easting:	378824.38707	Northing:	6951936.10021	Accuracy:	+/-10m	
Datum:		GDA94	Plot bearing:						
Locality description:									

Regional Ecosystem and Tree Heights							
Habitat Description:		Dominated by <i>Dichanthium sericeum</i> and <i>Aristida leptopoda</i> with scattered native forbs and exotic species <i>Salvia reflexa</i> and <i>Sorghum halapense</i> .					
Regional Ecosystem:	Non-rem 11.3.21	Median Tree Canopy ht:	0	Emergent ht:		Subcanopy ht:	0

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 0

Per ha Total (m): 0

Site Total (m): 0

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	55	75	70	75	75	70%
% Native annual grass						0%
% Native forbs and other species		2	5	5	5	3%
% Native shrubs (<1m in height)						0%
% Non-native grass						0%
% Non-native forbs & shrubs	5					1%
% Litter	5		5	10	10	6%
% Rock						0%
% Bare ground	35	23	20	10	10	20%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BI
	Date:	10/03/2021
	Observers:	KR / BJ

100 x 50m Area

SITE INFORMATION

<u>100 x 50m area</u>	
% EDL Recruitment:	N/A
Total No. Large Trees:	0
Total No. Large Trees per ha:	0
Native Tree Species Richness:	0
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

<u>50 x 10m area</u> Native Plant Species Richness	
Shrub spp. richness:	0
Grass spp. richness:	3
Forbs and others spp. richness:	7
Non-native plant cover (%)	3%

[illegible]

50 x 10m area

Species		Life Form	Status
<i>Dichanthium sericeum</i>		Grass	
<i>Aristida leptopoda</i>		Grass	
<i>Salvia reflexa</i>		Forbs and Other Species	Exotic
<i>Sorghum halepense</i>		Grass	Exotic
<i>Boerhavia dominii</i>		Forbs and Other Species	
<i>Rhynchosia minima</i>		Forbs and Other Species	
Other	<i>Callotis</i> sp.1 B9T2	Forbs and Other Species	
<i>Euphorbia drummondii</i>		Forbs and Other Species	
<i>Convolvulus arvensis</i>		Forbs and Other Species	
<i>Anoda cristata</i>		Forbs and Other Species	Exotic
<i>Panicum decompositum</i>		Grass	
Other	<i>Senecio</i> sp.1 B9T2	Forbs and Other Species	
<i>Euphorbia heterophylla</i>		Forbs and Other Species	Exotic
<i>Tribulus terrestris</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BJ
Entered:.....	Date:	10/03/2021
Checked:.....	Observers:	KR/BJ
Corrected:.....		

100 x 50m Area

SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	379063.71061	Northing:	6953519.9104	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		Native grass and forbs within TEC grassland on basaltic and alluvial soils. Highly diverse with little weed cover. No canopy, sub canopy or shrub layer present.					
Regional Ecosystem:	Non-rem 11.3.21	Median Tree Canopy ht:	0	Emergent ht:		Subcanopy ht:	0

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 0

Per ha Total (m): 0

Site Total (m): 0

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	60	50	60	35	50	51%
% Native annual grass						0%
% Native forbs and other species		5	5	10	5	5%
% Native shrubs (<1m in height)						0%
% Non-native grass	2					0%
% Non-native forbs & shrubs		1				0%
% Litter	18	24	15	10	20	17%
% Rock						0%
% Bare ground	20	20	20	45	25	26%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BJ
	Date:	10/03/2021
	Observers:	Brad and Kim

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	N/A
Total No. Large Trees:	0
Total No. Large Trees per ha:	0
Native Tree Species Richness:	0
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	1
Grass spp. richness:	6
Forbs and others spp. richness:	7
Non-native plant cover (%)	1%

[illegible]

50 x 10m area

Species		Life Form	Status
<i>Dichanthium sericeum</i>		Grass	
<i>Sclerolaena muricata</i>		Shrub	
<i>Austrostipa aristiglumis</i>		Grass	
<i>Aristida leptopoda</i>		Grass	
<i>Panicum decompositum</i>		Grass	
Other	<i>Senecio</i> sp.	Forbs and Other Species	
Other	<i>Callotis</i> sp.	Forbs and Other Species	
<i>Sorghum halepense</i>		Grass	Exotic
<i>Walwhalleya proluta</i>		Grass	
<i>Chloris gayana</i>		Grass	Exotic
<i>Salvia reflexa</i>		Forbs and Other Species	Exotic
<i>Bulbine bulbosa</i>		Forbs and Other Species	
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
<i>Erigeron canadensis</i>		Forbs and Other Species	Exotic
<i>Panicum queenslandicum</i>		Grass	
<i>Convolvulus arvensis</i>		Forbs and Other Species	
<i>Tribulus terrestris</i>		Forbs and Other Species	
<i>Rhynchosia minima</i>		Forbs and Other Species	
<i>Chenopodium album</i>		Forbs and Other Species	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BR
Entered:.....	Date:	11/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area

SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	251192.58395	Northing:	6826556.36248	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Eucalyptus camaldulensis</i> open forest					
Regional Ecosystem:	11.3.25	Median Tree Canopy ht:	25	Emergent ht:		Subcanopy ht:	12

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	67.5
Per ha Total (m):	675
Site Total (m):	337.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass						0%
% Native annual grass						0%
% Native forbs and other species	10	10	10	5	10	9%
% Native shrubs (<1m in height)						0%
% Non-native grass	25	50	60	40	40	43%
% Non-native forbs & shrubs						0%
% Litter	50	30	20	40	30	34%
% Rock						0%
% Bare ground	15	10	10	15	20	14%
% Cryptogams						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BR
	Date:	11/03/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	75%
Total No. Large Trees:	17
Total No. Large Trees per ha:	34
Native Tree Species Richness:	9
Eucalypts:	# of trees >= benchmark: 7
	# of trees >= benchmark per ha: 14
Non-eucalypts:	# of trees >= benchmark: 10
	# of trees >= benchmark per ha: 20

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	0
Grass spp. richness:	2
Forbs and others spp. richness:	5
Non-native plant cover (%)	95%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy		Yes
<i>Corymbia tessellaris</i>		Canopy		Yes
<i>Acacia salicina</i>		Canopy		Yes
<i>Alectryon oleifolius</i> subsp. <i>elongatus</i>			Subcanopy	
<i>Geijera parviflora</i>			Subcanopy	
<i>Melaleuca trichostachya</i>		Subcanopy		
<i>Eucalyptus melanophloia</i>			Canopy	
<i>Acacia salicina</i>			Subcanopy	
<i>Opuntia tomentosa</i>			Exotic	

50 x 10m area

Species		Life Form	Status
<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>		Grass	Exotic
Other	Asteraceae sp1	Forbs and Other Species	Exotic
<i>Tribulus micrococcus</i>		Forbs and Other Species	
<i>Cenchrus ciliaris</i>		Grass	Exotic
Other	Chenopodiaceae	Forbs and Other Species	
<i>Portulaca oleracea</i>		Forbs and Other Species	
<i>Cynodon dactylon</i> var. <i>dactylon</i>		Grass	Exotic
<i>Cyperus gracilis</i>		Forbs and Other Species	
<i>Tetragonia tetragonoides</i>		Forbs and Other Species	
<i>Austrostipa scabra</i>		Grass	
<i>Enteropogon ramosus</i>		Grass	
<i>Opuntia tomentosa</i>		Forbs and Other Species	Exotic

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BR
Entered:.....	Date:	11/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	20.3
Canopy total (m):	57.4
Emergent total (m):	0
Shrub total (m):	0

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Acacia salicina</i>		Canopy	0	9.1	9.1
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy	3.1	10.1	7
<i>Corymbia tessellaris</i>		Canopy	11	13.1	2.1
<i>Acacia salicina</i>		Subcanopy	15.1	17.9	2.8
<i>Corymbia tessellaris</i>		Canopy	23.2	26	2.8
<i>Acacia salicina</i>		Subcanopy	27.1	29.2	2.1
<i>Acacia salicina</i>		Canopy	31.7	43.2	11.5
<i>Corymbia tessellaris</i>		Canopy	36.4	48.1	11.7
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy	51.5	54.2	2.7
<i>Acacia salicina</i>		Canopy	54.3	58.2	3.9
<i>Acacia salicina</i>		Subcanopy	61.6	77	15.4
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy	65.6	72.1	6.5
<i>Acacia salicina</i>		Canopy	81.1	88.3	7.2
<i>Eucalyptus camaldulensis</i> subsp. <i>camaldulensis</i>		Canopy	94.3	100	5.7

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BS
Entered:.....	Date:	11/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

<u>Location</u>								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	269454.07286	Northing:	6833747.45864	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

<u>Regional Ecosystem and Tree Heights</u>							
Habitat Description:		<i>Acacia harpophylla</i> and <i>Casuarina cristata</i> open forest					
Regional Ecosystem:	11.4.3	Median Tree Canopy ht:	18	Emergent ht:		Subcanopy ht:	6

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m):	11.5
Per ha Total (m):	115
Site Total (m):	57.5

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass	15	45	55	35	25	35%
% Native annual grass						0%
% Native forbs and other species	20	10		10	20	12%
% Native shrubs (<1m in height)						0%
% Non-native grass		10	15	20		9%
% Non-native forbs & shrubs	10	15			5	6%
% Litter	10		30	20	15	15%
% Rock						0%
% Bare ground	45	20		25	35	25%
% Cryptograms						0%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	1BS
	Date:	11/03/2021
	Observers:	DRF/DAF

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	0%
Total No. Large Trees:	2
Total No. Large Trees per ha:	4
Native Tree Species Richness:	5
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 2
	# of trees >= benchmark per ha: 4

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	8
Grass spp. richness:	6
Forbs and others spp. richness:	19
Non-native plant cover (%)	10%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Acacia harpophylla</i>		Canopy		
<i>Casuarina cristata</i>		Canopy		
<i>Atalaya hemiglauc</i>			Subcanopy	
<i>Citrus glauca</i>			Subcanopy	
<i>Capparis mitchellii</i>			Subcanopy	

50 x 10m area

Species		Life Form	Status
Other	Mistletoe	Forbs and Other Species	
<i>Tetragonia tetragonoides</i>		Forbs and Other Species	
<i>Sclerolaena tetracuspis</i>		Forbs and Other Species	
<i>Einadia nutans</i>		Forbs and Other Species	
<i>Einadia nutans</i> subsp. <i>linifolia</i>		Forbs and Other Species	
<i>Enchylaena tomentosa</i>		Forbs and Other Species	
<i>Sporobolus caroli</i>		Grass	
Other	<i>Paspalidium</i>	Grass	
Other	Malvaceae	Forbs and Other Species	
<i>Rhagodia spinescens</i>		Forbs and Other Species	
<i>Alectryon oleifolius</i> subsp. <i>elongatus</i>		Shrub	
<i>Eremophila mitchellii</i>		Shrub	
<i>Citrus glauca</i>		Shrub	
<i>Casuarina cristata</i>		Shrub	
<i>Harrisia martinii</i>		Forbs and Other Species	Exotic
<i>Cenchrus ciliaris</i>		Grass	Exotic
<i>Portulaca oleracea</i>		Forbs and Other Species	
<i>Malvastrum coromandelianum</i> subsp. <i>coromandelianum</i>		Forbs and Other Species	Exotic
Other	Mistletoe sp2	Forbs and Other Species	
Other	<i>Calotis</i>	Forbs and Other Species	
<i>Glandularia aristigera</i>		Forbs and Other Species	Exotic
<i>Opuntia tomentosa</i>		Shrub	Exotic
<i>Panicum decompositum</i>		Grass	
<i>Dianella longifolia</i>		Forbs and Other Species	
<i>Capparis lasiantha</i>		Shrub	
Other	<i>Eragrostis</i> sp	Grass	
<i>Sclerolaena birchii</i>		Forbs and Other Species	
<i>Alternanthera denticulata</i>		Forbs and Other Species	
<i>Enteropogon ramosus</i>		Grass	
Other	<i>Vitadinia</i> sp		
<i>Brunoniella australis</i>		Forbs and Other Species	
<i>Polygonum plebeium</i>		Forbs and Other Species	
<i>Cheilanthes distans</i>		Forbs and Other Species	
Other	<i>Panicum</i> sp	Grass	
<i>Solanum stelligerum</i>		Forbs and Other Species	
<i>Abutilon fraseri</i> subsp. <i>fraseri</i>		Forbs and Other Species	
<i>Scaevola spinescens</i>		Shrub	
<i>Rhagodia spinescens</i>		Shrub	
<i>Geijera parviflora</i>		Shrub	
<i>Enteropogon acicularis</i>		Grass	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	1BS
Entered:.....	Date:	11/03/2021
Checked:.....	Observers:	DRF/DAF
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary	
Subcanopy total (m):	0
Canopy total (m):	46.9
Emergent total (m):	0
Shrub total (m):	24.3

100m Transect: Tree Shrub and Canopy Cover:					
Species		Type	Start	Finish	Total
<i>Acacia harpophylla</i>		Canopy	0	7.4	7.4
<i>Opuntia tomentosa</i>		Exotic	2	5	3
<i>Acacia harpophylla</i>		Shrub	17.4	18.4	1
<i>Geijera parviflora</i>		Shrub	18.3	19.7	1.4
<i>Citrus glauca</i>		Shrub	18.4	29.7	11.3
<i>Casuarina cristata</i>		Canopy	22.3	28.7	6.4
<i>Citrus glauca</i>		Shrub	33.6	38	4.4
<i>Casuarina cristata</i>		Canopy	36.1	41	4.9
<i>Citrus glauca</i>		Shrub	36.4	39.4	3
<i>Casuarina cristata</i>		Canopy	44.1	54	9.9
<i>Geijera parviflora</i>		Shrub	45.8	49.6	3.8
<i>Opuntia tomentosa</i>		Exotic	59.2	63	3.8
<i>Casuarina cristata</i>		Canopy	67.7	79	11.3
<i>Citrus glauca</i>		Shrub	88.6	91	2.4
<i>Casuarina cristata</i>		Canopy	91	98	7
<i>Opuntia tomentosa</i>		Exotic	97	100	3

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BK
	Date:	11/03/2021
	Observers:	KR/BJ

100 x 50m Area SITE INFORMATION

Location								
Bioregion:		Brigalow belt						
Plot Origin:	Zone:	56	Easting:	320053.05724	Northing:	6879984.49667	Accuracy:	+/-10m
Datum:		GDA94	Plot bearing:					
Locality description:								

Regional Ecosystem and Tree Heights							
Habitat Description:		Canopy dominated by scattered <i>Eucalyptus chloroclada</i> and <i>Eucalyptus populnea</i> with a sub canopy of regenerating eucalyptus canopy species, <i>Callitris glaucophylla</i> , <i>Allocasuarina luehmannii</i> . Shrub layer consists of scattered <i>Geijera parviflora</i> . Weeds present consist of <i>Opuntia tomentosa</i> . Ground layer dominated by native <i>Arigrotis sp.</i> , and other native forbs.					
Regional Ecosystem:	11.5.4	Median Tree Canopy ht:	23	Emergent ht:		Subcanopy ht:	12

Site Photos:

North:



South:



East:



West:



50 x 20m area

Coarse woody debris

record length of all debris >10cm diam and >0.5m long

Length (m): 143

Per ha Total (m): 1430

Site Total (m): 715

1 x 1m Plots Ground Cover

Ground Cover Type	1	2	3	4	5	Mean
% Native perennial grass		15	6	10	20	10%
% Native annual grass						0%
% Native forbs and other species	15	10	5		5	7%
% Native shrubs (<1m in height)					1	0%
% Non-native grass						0%
% Non-native forbs & shrubs						0%
% Litter	85	74	85	70	40	71%
% Rock						0%
% Bare ground		1	4		5	2%
% Cryptograms				20	29	10%
Total	100%	100%	100%	100%	100%	

Quadrat 1:



Quadrat 2:



Quadrat 3:



Quadrat 4:



Quadrat 5:



BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY Entered:..... Checked:..... Corrected:.....	Site ID:	2BK
	Date:	11/03/2021
	Observers:	KR / BJ

100 x 50m Area SITE INFORMATION

100 x 50m area	
% EDL Recruitment:	50%
Total No. Large Trees:	3
Total No. Large Trees per ha:	6
Native Tree Species Richness:	5
Eucalypts:	# of trees >= benchmark: 0
	# of trees >= benchmark per ha: 0
Non-eucalypts:	# of trees >= benchmark: 3
	# of trees >= benchmark per ha: 6

50 x 10m area Native Plant Species Richness	
Shrub spp. richness:	0
Grass spp. richness:	6
Forbs and others spp. richness:	14
Non-native plant cover (%)	1%

100 x 50m area				
Species		EDL	Non-EDL	Recruitment
<i>Allocasuarina luehmannii</i>			Subcanopy	
<i>Callitris glaucophylla</i>			Subcanopy	
<i>Eucalyptus chloroclada</i>		Canopy		
<i>Eucalyptus populnea</i>		Canopy		Yes
<i>Eucalyptus woollsiana</i>			Canopy	

50 x 10m area

Species		Life Form	Status
<i>Aristida queenslandica</i> var. <i>queenslandica</i>		Grass	
<i>Eragrostis brownii</i>		Grass	
<i>Cyperus gracilis</i>		Forbs and Other Species	
<i>Commelina lanceolata</i>		Forbs and Other Species	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>		Forbs and Other Species	
<i>Evolvulus alsinoides</i>		Forbs and Other Species	
<i>Gomphrena celosioides</i>		Forbs and Other Species	Exotic
<i>Oldenlandia mitrasacmoides</i> subsp. <i>trachymenoides</i>		Forbs and Other Species	
<i>Fimbristylis dichotoma</i>		Forbs and Other Species	
Other	<i>Cyperus</i> sp.1	Forbs and Other Species	
<i>Panicum effusum</i>		Grass	
<i>Lomandra multiflora</i>		Forbs and Other Species	
<i>Dianella longifolia</i>		Forbs and Other Species	
<i>Calandrinia pickeringii</i>		Forbs and Other Species	
Other	Ghost plant, invisible plant	Forbs and Other Species	
Other	<i>Aristida</i> sp.1	Grass	
<i>Solanum ellipticum</i>		Forbs and Other Species	
<i>Sporobolus creber</i>		Grass	
<i>Nyssanthes erecta</i>		Forbs and Other Species	
<i>Portulaca australis</i>		Forbs and Other Species	
<i>Perotis rara</i>		Grass	

BIOCONDITION REFERENCE DATASHEET

OFFICE USE ONLY	Site ID:	2BK
Entered:.....	Date:	11/03/2021
Checked:.....	Observers:	KR/BJ
Corrected:.....		

100 x 50m Area SITE INFORMATION

100m Transect Summary

Subcanopy total (m):	64.8m
Canopy total (m):	13.3m
Emergent total (m):	0m
Shrub total (m):	7.6m

100m Transect: Tree Shrub and Canopy Cover:

Species	Type	Start	Finish	Total
<i>Allocasuarina luehmannii</i>	Subcanopy	1	6.4	5.4
<i>Allocasuarina luehmannii</i>	Shrub	1.5	2.3	0.8
<i>Callitris glaucophylla</i>	Subcanopy	6.2	9.4	3.2
<i>Allocasuarina luehmannii</i>	Shrub	9.8	10.3	0.5
<i>Allocasuarina luehmannii</i>	Subcanopy	10	13	3
<i>Eucalyptus chloroclada</i>	Subcanopy	13.2	15.6	2.4
<i>Allocasuarina luehmannii</i>	Shrub	21.2	22.2	1
<i>Allocasuarina luehmannii</i>	Subcanopy	21.4	24.2	2.8
<i>Allocasuarina luehmannii</i>	Shrub	21.4	25.3	3.9
<i>Eucalyptus populnea</i>	Subcanopy	25.1	26	0.9
<i>Callitris glaucophylla</i>	Subcanopy	28.2	30	1.8
<i>Allocasuarina luehmannii</i>	Subcanopy	31.2	32.4	1.2
<i>Callitris glaucophylla</i>	Subcanopy	32.6	35.8	3.2
<i>Eucalyptus chloroclada</i>	Canopy	34	43	9
<i>Allocasuarina luehmannii</i>	Subcanopy	40	42.4	2.4
<i>Callitris glaucophylla</i>	Subcanopy	43.6	48.5	4.9
<i>Allocasuarina luehmannii</i>	Shrub	48	48.4	0.4
<i>Callitris glaucophylla</i>	Subcanopy	50.9	53.3	2.4
<i>Allocasuarina luehmannii</i>	Subcanopy	54.8	62	7.2
<i>Allocasuarina luehmannii</i>	Shrub	59.4	59.7	0.3
<i>Allocasuarina luehmannii</i>	Subcanopy	63.3	70.8	7.5
<i>Eucalyptus woollsiana</i>	Canopy	70.3	74.6	4.3
<i>Allocasuarina luehmannii</i>	Shrub	75.6	76.8	1.2
<i>Allocasuarina luehmannii</i>	Subcanopy	74	79	5
<i>Allocasuarina luehmannii</i>	Subcanopy	82	86.7	4.7
<i>Callitris glaucophylla</i>	Subcanopy	86.4	88.5	2.1
<i>Allocasuarina luehmannii</i>	Subcanopy	91.4	93	1.6
<i>Allocasuarina luehmannii</i>	Shrub	94.9	95.2	0.3
<i>Allocasuarina luehmannii</i>	Subcanopy	96.4	100	3.6

APPENDIX

D

TEC GRASSLAND TRANSECTS

Geo

Species	Diagnostic species	Exotic?	Quadrat 1 (0m)	Quadrat 2 (20m)	Quadrat 3 (40m)	Quadrat 4 (60m)	Quadrat 5 (80m)	Quadrat 6 (100m)
Bare ground/leaf litter			4	14	32	18	5	23
Bulbine semibarbata								
Chloris truncata				2	1	1		
Cyclosporum leptophyllum		Y	1	1	1			1
Dactyloctenium radulans						1	1	
Dichanthium aristatum		Y		25	50			
Dichanthium sericeum	Y		100	90	15	20	30	60
Einadia nutans							80	80
Eragrostis curvula		Y					1	
Eriochloa crebra	Y			6	10			
Glandularia aristigera		Y			1	1		
Leontodon rhagadioloides		Y						1
Medicago minima		Y					5	
Oxalis perennans			1					
Phalaris paradoxa		Y						
Plantago lanceolata		Y	2	1				
Sonchus asper		Y	2			5		
Vicia sativa		Y			1			
Indeterminate					1			
Totals			100	100	48	100	30	100
Number of diagnostic species		4 species						
Average exotic perennial cover		12%						
Total native clumps in quadrats		389						
Total native clumps per hectare		648333						
Not in plot, but within patch								
Themeda avenacea	Y							
Anthosachne pluinervis	Y							
Summary for 'Geo'								
Minimum number of tussocks	Y							
Number of diagnostic species	4							
Percent cover introduced species	12							
Size of patch	~1ha							
Quality assessment	Good quality Grassland	TEC						

Spring 1BG

Species	Diagnostic species	Exotic?	Quadrat 1 Tussock count	(0m) Percent cover	Quadrat 2 Tussock count	(20m) Percent cover	Quadrat 3 Tussock count	(40m) Percent cover	Quadrat 4 Tussock count	(60m) Percent cover	Quadrat 5 Tussock count	(80m) Percent cover	Quadrat 6 Tussock count	(100m) Percent cover
Bare ground/leaf litter				40		61		17		64		74		58
<i>Anthosachne plurinervis</i>	Y		1	1										
<i>Asperula conferta</i>				1										
<i>Boerhavia dominii</i>				1				1						
<i>Brachyscome dentata</i>														
<i>Chloris truncata</i>											3	5		
<i>Convolvulus graminetinus</i>				1						1				
<i>Cyclospermum leptophyllum</i>		Y				1		1						1
<i>Cynodon dactylon</i>		Y											1	
<i>Dicanthium sericeum</i>	Y										6	5		
<i>Einadia nutans</i>				1		1						1		30
<i>Eriocloa crebra</i>	Y		4	5			29	80	1	3				
<i>Erodium crinitum</i>						1						10		
<i>Glycine clandestina</i>				1										
<i>Heliotropium amplexicaule</i>		Y										1		1
<i>Lobelia concolor</i>				1										
<i>Neptunia gracilis</i>										1				
<i>Panicum decompositum</i>	Y								5	5			4	4
<i>Phyla canescens</i>		Y								25				5
<i>Phyllanthus virgatus</i>														
<i>Rhynchosia minima</i>												1		
<i>Sisymbrium erysimoides</i>		Y						1				1		
<i>Sonchus asper</i>		Y				1				1				
<i>Themeda triandra</i>	Y		7	10	5	30								
<i>Wahlenbergia capillaris</i>				1		5								1
Indeterminate				37								1		
Totals			12	100	5	100	29	100	6	100	9	100	4	100
Number of diagnostic species		7 species												
Average exotic perennial cover		7%												
Total native clumps in quadrats		65												
Total native clumps per hectare		108333												
Not in plot, but within patch														
Themeda avenacea	Y													
Austrostipa aristiglumis	Y													
Summary for 'Spring - 1BG'														
Minimum number of tussocks	Y													
Number of diagnostic species	7													
Percent cover introduced species	7													
Size of patch	~4.5ha													
Quality assessment	Best quality Grassland TEC (NB 5% weed cover is the threshold. Outside of the plot weed cover was observed to be <5% in much of the patch)													

Spring 2BG

Species	Diagnostic species	Exotic?	Measured across 1,000m2 plot										
Bare ground/leaf litter													
<i>Asperula conferta</i>													
<i>Bothriochloa biloba</i>	Y												
<i>Chloris ventricosa</i>													
<i>Cymbopogon refractus</i>													
<i>Dichanthium sericeum</i>	Y												
<i>Eragrostis parviflora</i>													
<i>Eriochloa crebra</i>	Y												
<i>Eulalia aurea</i>	Y												
<i>Haloragis aspera</i>													
<i>Mentha satureioides</i>													
<i>Neptunia gracilis</i>													
<i>Cullen sp. indeter.</i>													
<i>Cyperus sp. indeter</i>													
<i>Glycine sp.</i>													
<i>Plantago sp. indeter.</i>													
<i>Polymeria sp. indeter.</i>													
<i>Phyllanthus virgatus</i>													
<i>Themeda triandra</i>	Y												
Indeterminate													
Totals													
Number of diagnostic species		5 species											
Average exotic perenial cover		4%											
Total native clumps in quadrats		0											
Total native clumps per hectare		90900											
Summary for 'Spring - 2BG'													
Minimum number of tussocks	Y												
Number of diagnostic species	5												
Percent cover introduced species	4												
Size of patch	~0.75ha												
Quality assessment	Best quality Grassland	TEC											

Post-wet 1BG

Species	Diagnostic species	Exotic?	Quadrat 1 Tussock count	(0m) Percent cover	Quadrat 2 Tussock count	(20m) Percent cover	Quadrat 3 Tussock count	(40m) Percent cover	Quadrat 4 Tussock count	(60m) Percent cover	Quadrat 5 Tussock count	(80m) Percent cover	Quadrat 6 Tussock count	(100m) Percent cover
Bare ground/leaf litter				50		49.7		49.6		74.5		49.7		10
Aristida leptopoda	Y										3	5		
Asperula conferta								0.1						
Bothriochloa biloba	Y										1	25		
Brasychome sp.						0.1						0.1		
Brunoniella australis										0.1				
Chloris gayana		Y		5										
Dicanthium sericeum	Y		12	30	14	40	39	45			5	5	61	40
Digitaria sp										0.1				
Enteropogon acicularis					2		1	5			2	0.1		
Eragrostis sp						0.1								
Eriochloa crebra	Y		1	5										
Eualia aurea	Y						1	0.1						0.1
Glandularia aristigera		Y		5		5		0.1				0.1		
Neptunia gracilis										0.1				
Panicum decompositum	Y													
Phyllanthus virgatus										0.1				
Plantago lanceolata		Y				5								0.1
Rhyncosia minima						0.1		0.1		0.1				
Themeda triandra	Y													
Indeterminate				5						25		15		49.8
Totals			13	100	16	100	41	100	0	100	11	100	61	100
Number of diagnostic species		7 species												
Average exotic perennial cover		3%												
Total native clumps in quadrats		142												
Total native clumps per hectare		236667												
Summary for 'Post-wet - 1BG'														
Minimum number of tussocks	Y													
Number of diagnostic species	7													
Percent cover introduced species	3													
Size of patch	~0.75ha													
Quality assessment	Best quality Grassland TEC													

Post-wet 1BP

Species	Diagnostic species	Exotic?	Quadrat 1 Tussock count	(0m) Percent cover	Quadrat 2 Tussock count	(20m) Percent cover	Quadrat 3 Tussock count	(40m) Percent cover	Quadrat 4 Tussock count	(60m) Percent cover	Quadrat 5 Tussock count	(80m) Percent cover	Quadrat 6 Tussock count	(100m) Percent cover
Bare ground/leaf litter				10		15		10				10		25
<i>Boerhavia domini</i>				0.1										0.1
<i>Chloris gayana</i>		Y		0.1										
<i>Commelina sp.</i>										0.1				
<i>Erigeron sp.</i>		Y		0.1		5					10			
<i>Dicanthium sericeum</i>	Y													
<i>Digitaria divaricatissima</i>			2	5										
<i>Dinebra decipiens</i>						0.1						0.1		
<i>Elymus plurinervis</i>	Y		1											
<i>Erichloa crebra</i>	Y		5	15			1	0.1						
<i>Panicum queenslandicum</i>	Y		6	65	1	25	3	25	20	100	3	80	5	75
<i>Phylla canescens</i>		Y		0.1										
<i>Phyllanthus sp.</i>						5								
<i>Poaceae indeterminate</i>						50		65						
<i>Solanum nigrum</i>						0.1								
<i>Themeda triandra</i>	Y													
Indeterminate				5										
Totals			14	100.4	1	100.2	4	100.1	20	100.1	3	100.1	5	100.1
Number of diagnostic species		5 species												
Average exotic perenial cover		3%												
Total native clumps in quadrats		47												
Total native clumps per hectare		78333												
Summary for 'Post-wet 1BP'														
Minimum number of tussocks	Y													
Number of diagnostic species	5													
Percent cover introduced species	3													
Size of patch	~1ha													
Quality assessment	Not Grassland TEC - entirely on rail batter made of fill and ballast													

Post-wet 1BQ

Species	Diagnostic species	Exotic?	Quadrat 1	(0m)	Quadrat 2	(20m)	Quadrat 3	(40m)	Quadrat 4	(60m)	Quadrat 5	(80m)	Quadrat 6	(100m)
			Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover
Bare ground/leaf litter				64.4		15		69.9		50		45		60
<i>Commelina sp.</i>				5								0.1		0.1
<i>Cullen tenax</i>												0.1		
<i>Dichanthium sericeum</i>	Y						1	3						
<i>Dinebra decipiens</i>					3	10								
<i>Elymus plurinervis</i>	Y		5	30	1	5					6	50	1	0.1
<i>Enteropogon acicularis</i>														
<i>Erigeron sp.</i>		Y				0.1								
<i>Eriochloa crebra</i>	Y				5	69.7	2	5	1	5			1	5
<i>Glandularia aristigera</i>		Y		0.1		0.1						0.1		
<i>Neptunia gracilis</i>				0.1				0.1						
<i>Oxalis sp.</i>				0.1										
<i>Panicum decompositum</i>	Y						1	2	5	25			5	30
<i>Phyla canescens</i>		Y		0.1				20		20		5		5
<i>Plantago lanceolata</i>		Y		0.1										
<i>Polymeria sp.</i>				0.1		0.1								
<i>Rhynchosia minima</i>														0.1
<i>Themeda triandra</i>	Y													
Indeterminate												0.1		
Totals			5	100	9	100	4	100	6	100	6	100	7	100
Number of diagnostic species		5 species												
Average exotic perennial cover		8%												
Total native clumps in quadrats		37												
Total native clumps per hectare		61667												
Summary for 'Post-wet 1-BQ'														
Minimum number of tussocks	Y													
Number of diagnostic species	5													
Percent cover introduced species	8													
Size of patch	~1ha													
Quality assessment	Good quality Grassland TEC													

Post-wet 2BI

Species			Quadrat 1 (0m)		Quadrat 2 (20m)		Quadrat 3 (40m)		Quadrat 4 (60m)		Quadrat 5 (80m)		Quadrat 6 (100m)	
	Diagnostic species	Exotic?	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover
Bare ground/leaf litter				36		40		48		34		32		61
<i>Aristida leptopoda</i>	Y		1	1					1	1	1	1	1	1
<i>Boerhavia dominii</i>			3	2	1	1					3	2	2	5
<i>Convulvulus arvensis</i>							1	1						
<i>Dichanthium sericeum</i>	Y		30	60	38	55	37	50	45	65	26	60	9	15
<i>Neptunia gracilis</i>													1	2
<i>Rhynchosia minima</i>					3	4					4	5	1	2
<i>Salvia reflexa</i>													11	12
<i>Sorghum halipense</i>			2	1			1	1					2	2
Indeterminate														
Total			36	100	42	100	39	100	46	100	34	100	27	100
Number of diagnostic species		4 species												
Average exotic perennial cover		0%												
Total native clumps in quadrats		224												
Total native clumps per hectare		373333												
Not in plot, but within patch														
<i>Austrostipa aristiglumis</i>	Y													
<i>Walwalleya prolata</i>	Y													
Summary for 'Post-wet - 2BI'														
Minimum number of tussocks		Y												
Number of diagnostic species		4												
Percent cover introduced species		0												
Size of patch		~13.5ha												
Quality assessment		Best quality Grassland TEC												

Post-wet 2BJ

Species			Quadrat 1 (0m)		Quadrat 2 (20m)		Quadrat 3 (40m)		Quadrat 4 (60m)		Quadrat 5 (80m)		Quadrat 6 (100m)	
	Diagnostic species	Exotic?	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover	Tussock count	Percent cover
Bare ground/leaf litter				51		60		37		63		59		53
<i>Aristida leptopoda</i>	Y							1		12				
<i>Austrostipa aristiglumis</i>	Y								2			1	1	
<i>Boerhavia dominii</i>														
<i>Bulbine bulbosa</i>					4	3								
<i>Calotis</i> sp.					3	2	1	1	1	1				
<i>Convolvulus arvensis</i>														
<i>Dichanthium sericeum</i>	Y		30	45	20	30	28	55	7	15	19	40	18	35
<i>Neptunia gracilis</i>														
<i>Panicum decompositum</i>	Y				1	1								
<i>Rhynchosia minima</i>									1	1				
<i>Salsola australis</i>							1	1						
<i>Salvia reflexa</i>		Y												
<i>Schleralena muricata</i>													1	6
<i>Senecio</i> sp.			2	2	1	1							1	1
<i>Sorghum halipense</i>		Y					2	1						
<i>Tribolis trestris</i>							1	1						
<i>Walwalleya prolata</i>	Y		5	2	4	3	2	3	2	8			4	5
Indeterminate														
Total			37	100	33	100	36	100	13	100	20	100	24	100
Number of diagnostic species		5 species												
Average exotic perennial cover		0%												
Total native clumps in quadrats		28												
Total native clumps per hectare		46667												
Summary for Post-wet - 2BJ														
Minimum number of tussocks		Y												
Number of diagnostic species		5												
Percent cover introduced species		1												
Size of patch		~3.5ha												
Quality assessment		Best quality Grassland TEC												

APPENDIX

E

GROUND TRUTHED RES & TECS



Legend

- Flora Study Area
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

Vegetation Management Act 1999 Status

- Of Concern
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

Page 1

1:10,000 Scale at A3

0 m 225



Cardno

Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
Date: 2021-05-21 | Project: NE30044
Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-074-Report_GroundTruthedRE_TEC.mxd 03
Aerial Imagery supplied by the State of Queensland (2017)



Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- TEC
 - Brigalow (*Acacia harpophylla*) dominant and co-dominant ecological community

Suburb labels as per
Australian Bureau of Statistics (2011)

Page 2

1:20,000 Scale at A3

0 250
m



Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
Date: 2021-05-21 | Project: NE30044
Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-QS-074-Report_GroundTruthedRE_TEC.mxd 03
Aerial Imagery supplied by the State of Queensland (2017)



Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)

TEC

- Brigalow (*Acacia harpophylla*)
dominant and co-dominant
ecological community

Ground-truthed non-remnant

- Mapped by State as
Endangered - dominant

Vegetation Management Act 1999 Status

- Endangered

Suburb labels as per
Australian Bureau of Statistics (2011)

Page 3

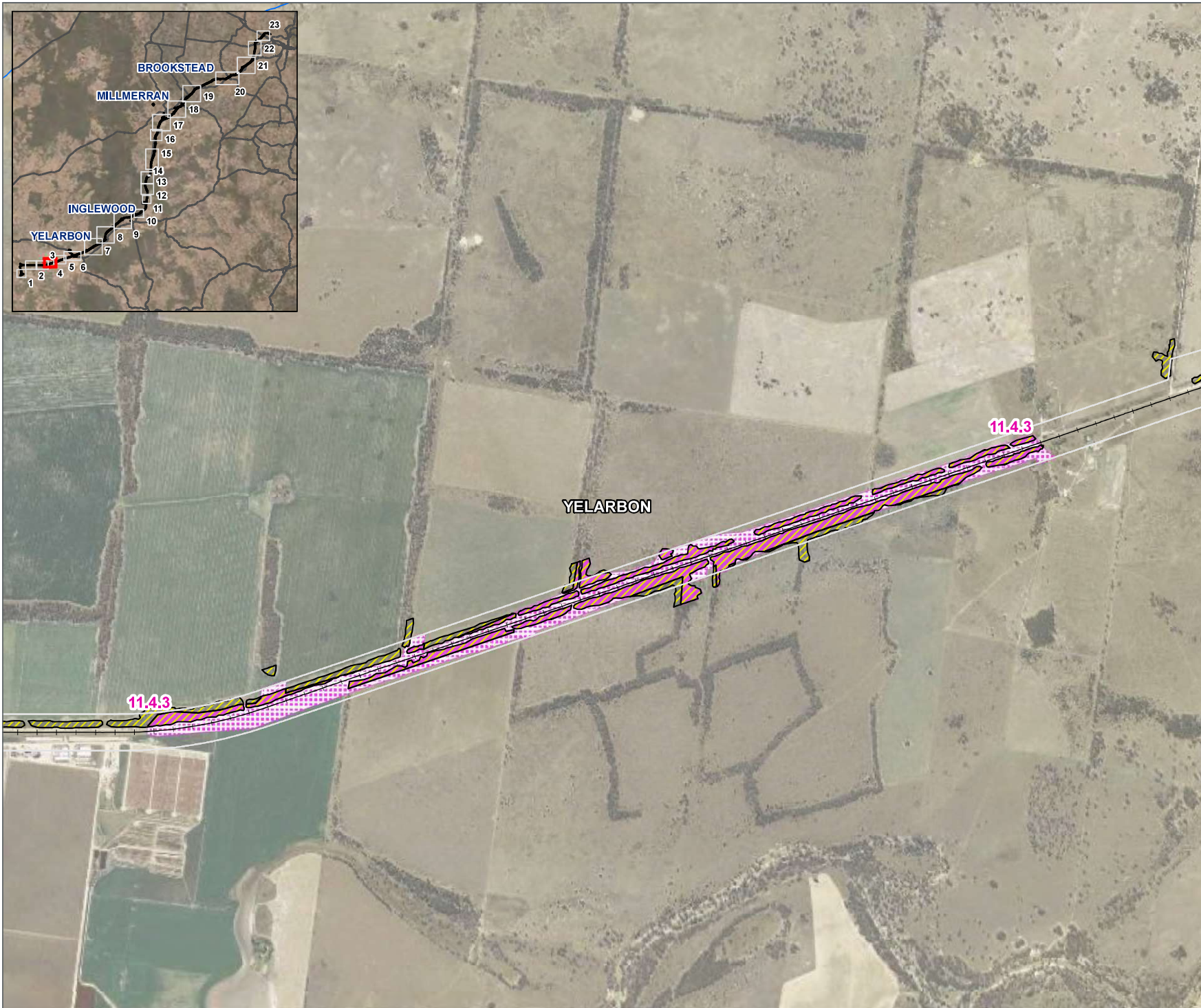
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m



Cardno

Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
Date: 2021-05-21 | Project: NE30044
Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-074-Report_GroundTruthedRE_TEC.mxd 03
Aerial Imagery supplied by the State of Queensland (2017)



Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

TEC

- Brigalow (Acacia harpophylla dominant and co-dominant) ecological community

Ground-truthed non-remnant

- Mapped by State as Endangered - dominant

Vegetation Management Act 1999 Status

- Endangered

Suburb labels as per
Australian Bureau of Statistics (2011)

Page 4

1:20,000 Scale at A3

0 250
m



Cardno

Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
Date: 2021-05-21 | Project: NE30044
Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-074-Report_GroundTruthedRE_TEC.mxd 03
Aerial Imagery supplied by the State of Queensland (2017)



Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

TEC

- Brigalow (Acacia harpophylla dominant and co-dominant) ecological community

Ground-truthed non-remnant

- Mapped by State as Endangered - dominant

Vegetation Management Act 1999 Status

- Endangered

Suburb labels as per
Australian Bureau of Statistics (2011)

Page 5

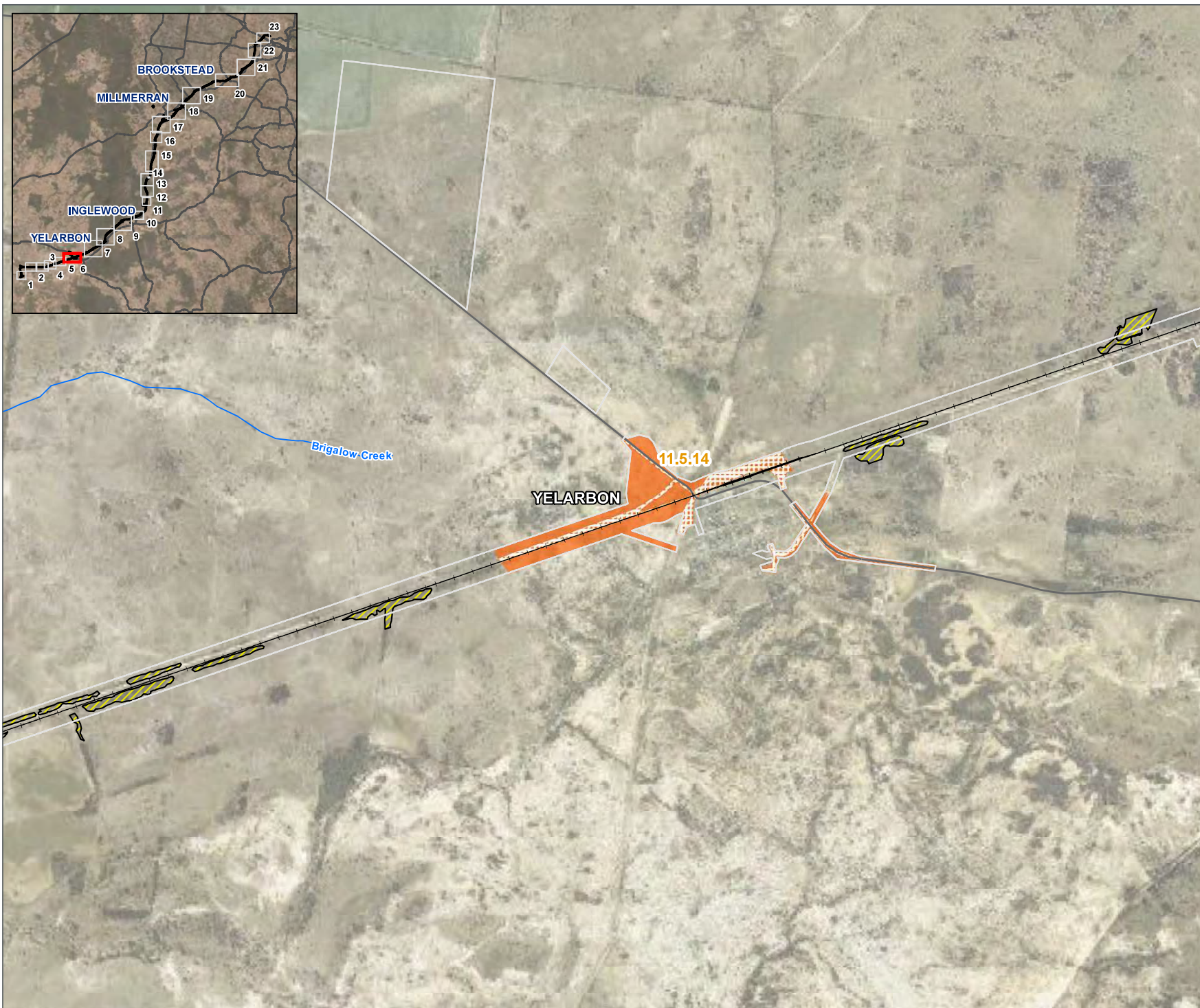
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Cardno

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Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

TEC

- Brigalow (Acacia harpophylla dominant and co-dominant) ecological community

Ground-truthed non-remnant

- Mapped by State as Of Concern - dominant

Vegetation Management Act 1999 Status

- Of Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

Page 6

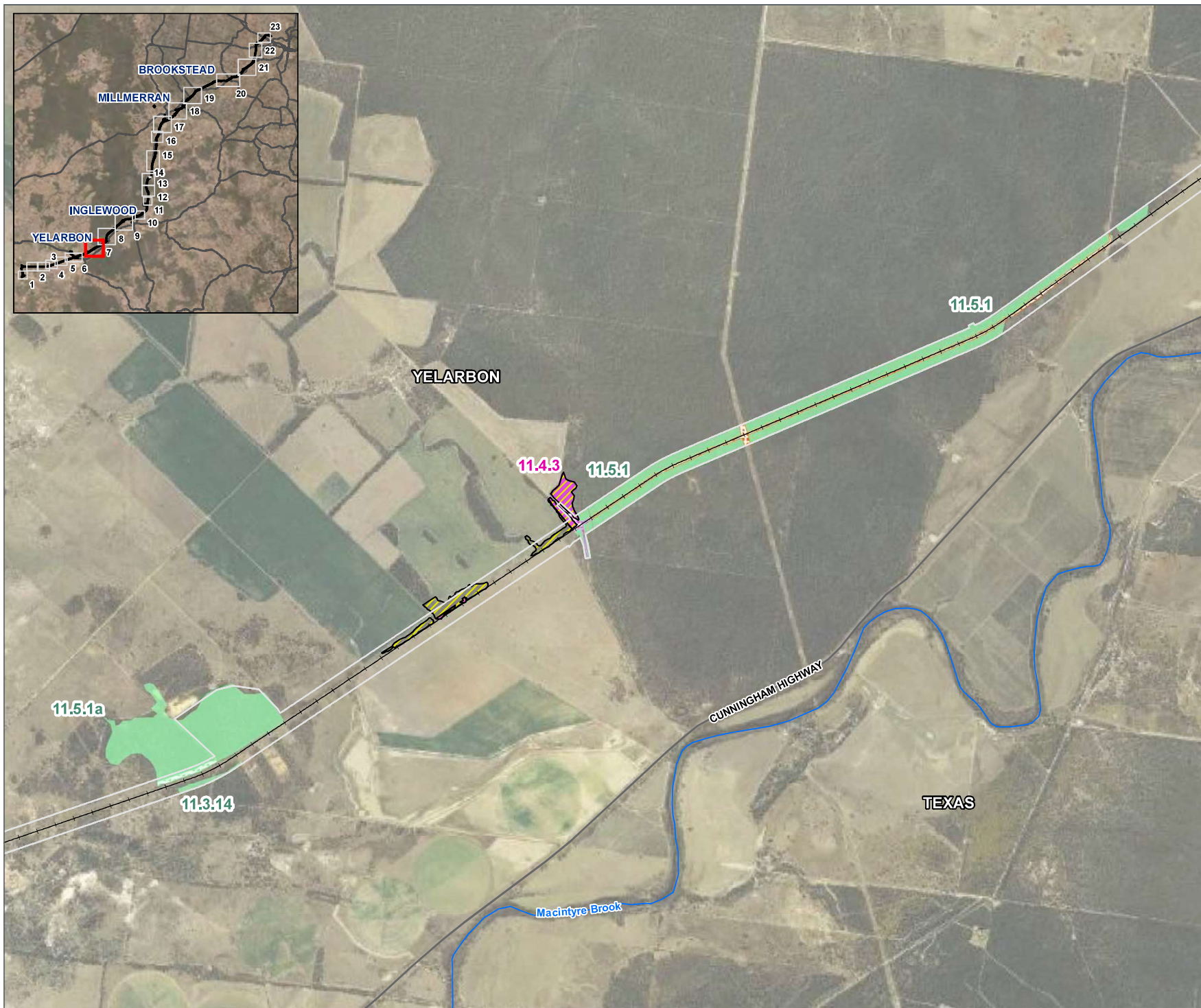
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Cardno

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Coordinate System: GDA 1994 MGA Zone 56
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ARTC

Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

TEC

- Brigalow (Acacia harpophylla dominant and co-dominant) ecological community

Ground-truthed non-remnant

- Mapped by State as Endangered - dominant
- Mapped by State as Least Concern
- Mapped by State as Of Concern - subdominant

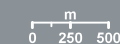
Vegetation Management Act 1999 Status

- Endangered
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

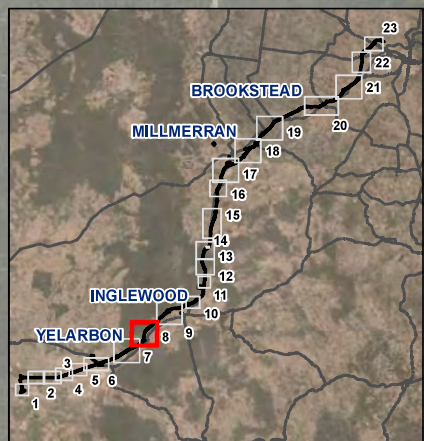
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Cardno

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ARTC

Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

Ground-truthed non-remnant

- Mapped by State as Least Concern
- Mapped by State as Of Concern - subdominant

Vegetation Management Act 1999 Status

- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

Page 8

1:35,000 Scale at A3

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Cardno

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Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

Ground-truthed non-remnant

- Mapped by State as Least Concern
- Mapped by State as Of Concern - subdominant

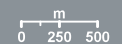
Vegetation Management Act 1999 Status

- Of Concern
- Of Concern - Subdominant
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

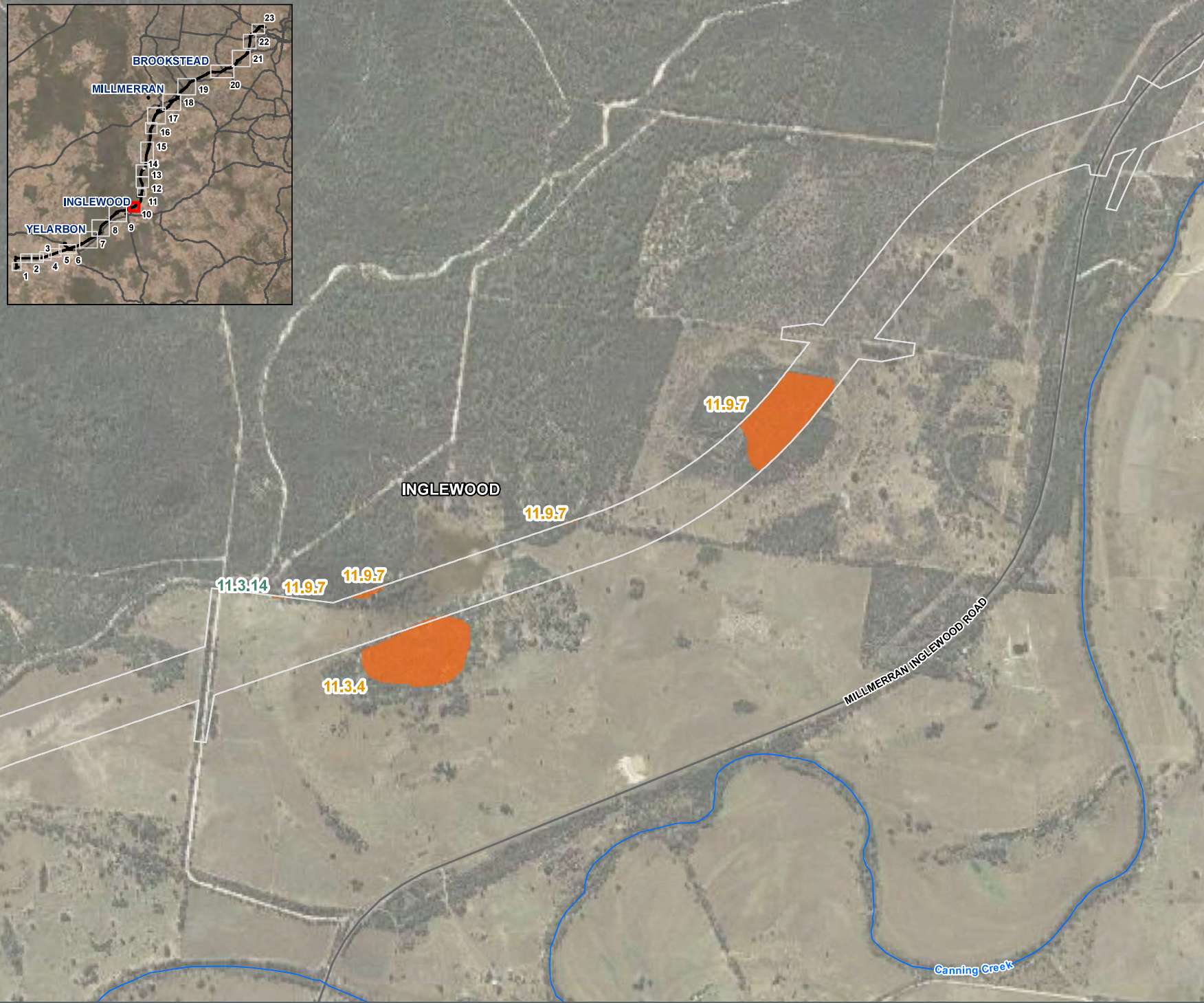
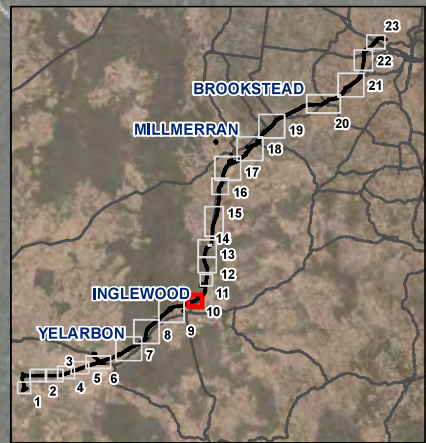
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Coordinate System: GDA 1994 MGA Zone 58
Map: NE30044-GS-074-Report_GroundTruthedRE_TEC.mxd 03
Aerial Imagery supplied by the State of Queensland (2017)



Legend

- Flora Study Area
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)
- Vegetation Management Act 1999 Status**
 - Of Concern
 - Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)





Legend

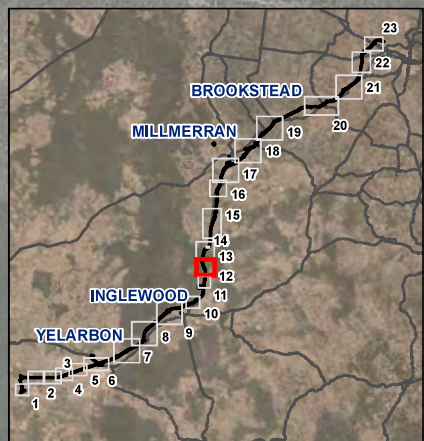
- Flora Study Area
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

Ground-truthed non-remnant

- Mapped by State as Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)





Legend

- Flora Study Area
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

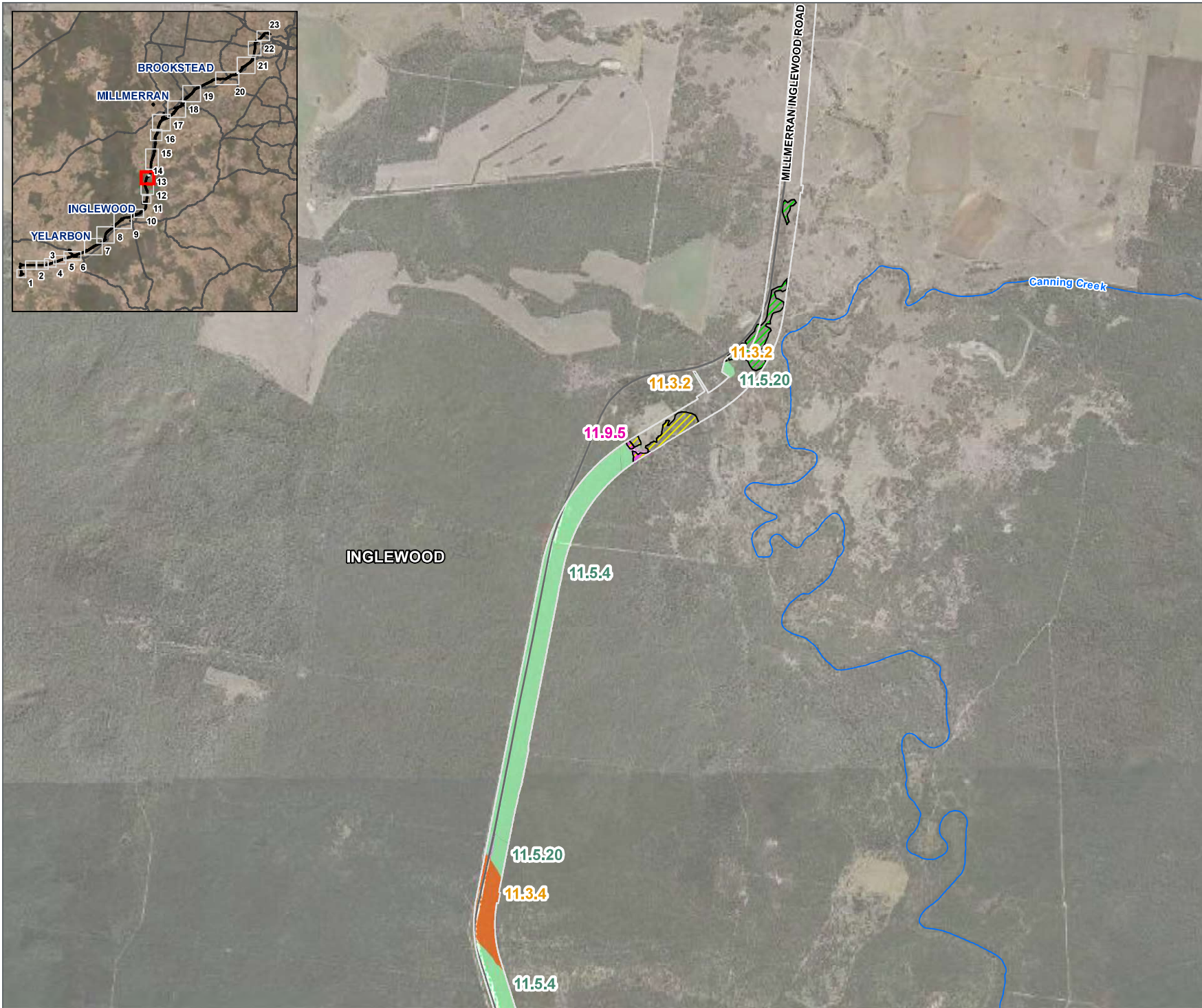
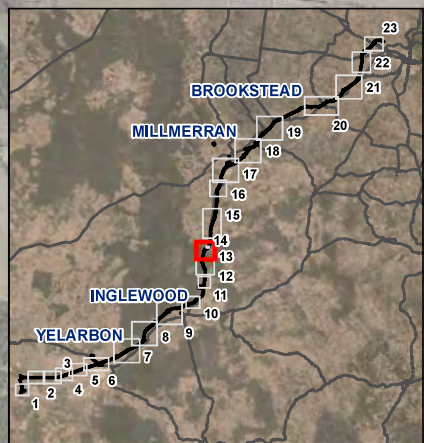
Ground-truthed non-remnant

- Mapped by State as Endangered - subdominant
- Mapped by State as Least Concern
- Mapped by State as Of Concern - dominant

Vegetation Management Act 1999 Status

- Of Concern
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)



Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

TEC

- Brigalow (Acacia harpophylla dominant and co-dominant) ecological community
- Poplar Box Grassy Woodland on Alluvial Plains

Ground-truthed non-remnant

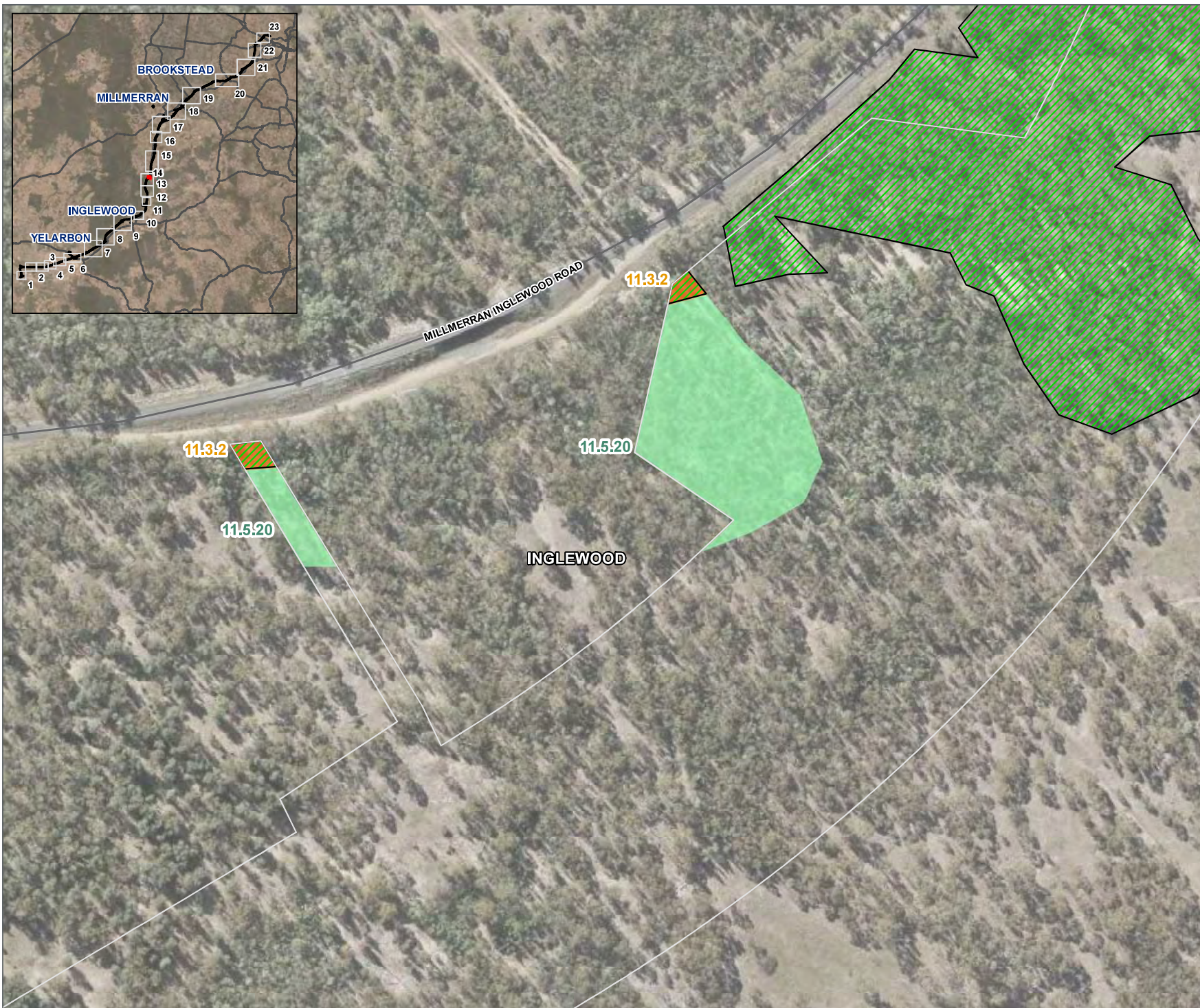
- Mapped by State as Endangered - subdominant
- Mapped by State as Least Concern
- Mapped by State as Of Concern - dominant

Vegetation Management Act 1999 Status

- Endangered
- Of Concern
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)





Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Major Road (QSpatial, 2019)
- TEC
 - Poplar Box Grassy Woodland on Alluvial Plains
- Vegetation Management Act 1999 Status
 - Of Concern
 - Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

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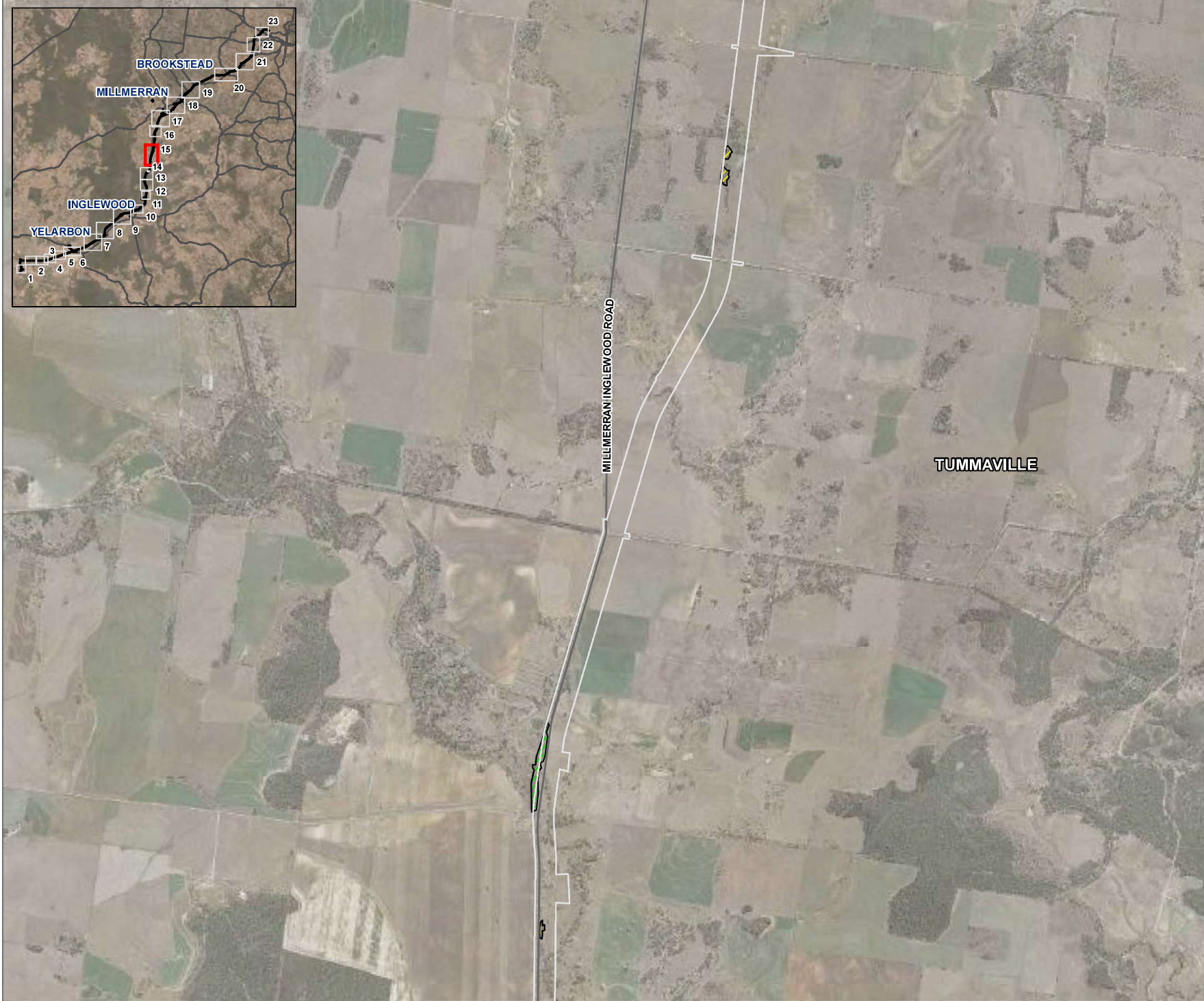
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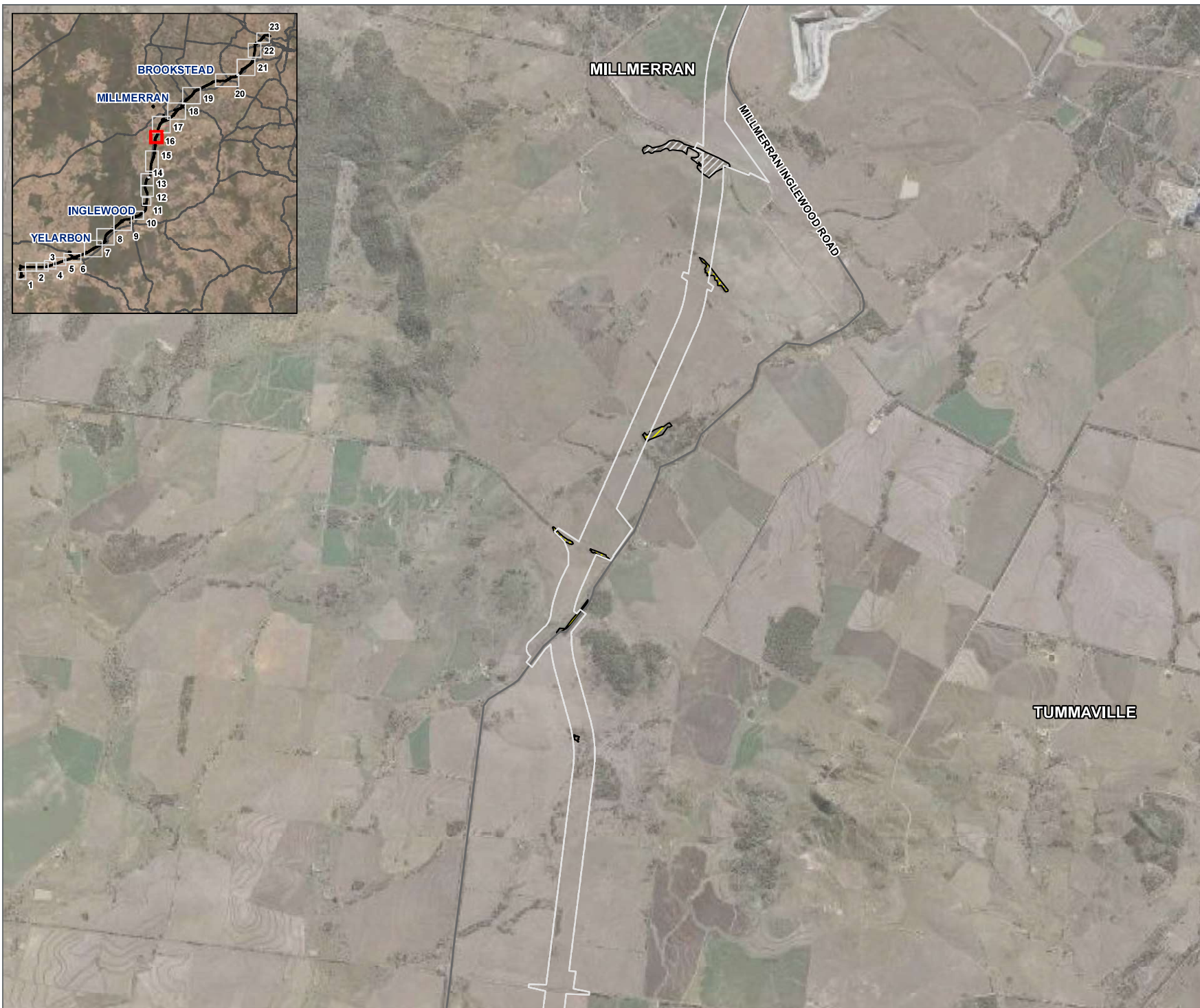
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Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-074-Report_GroundTruthedRE_TEC.mxd 03
Aerial Imagery supplied by the State of Queensland (2017)



Legend

- Flora Study Area
- Major Road (QSpatial, 2019)
- TEC
 - Brigalow (*Acacia harpophylla*) dominant and co-dominant ecological community
 - Poplar Box Grassy Woodland on Alluvial Plains

Suburb labels as per
Australian Bureau of Statistics (2011)



Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Major Road (QSpatial, 2019)

TEC

- Brigalow (*Acacia harpophylla*) dominant and co-dominant ecological community
- Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions
- White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland

Suburb labels as per
Australian Bureau of Statistics (2011)

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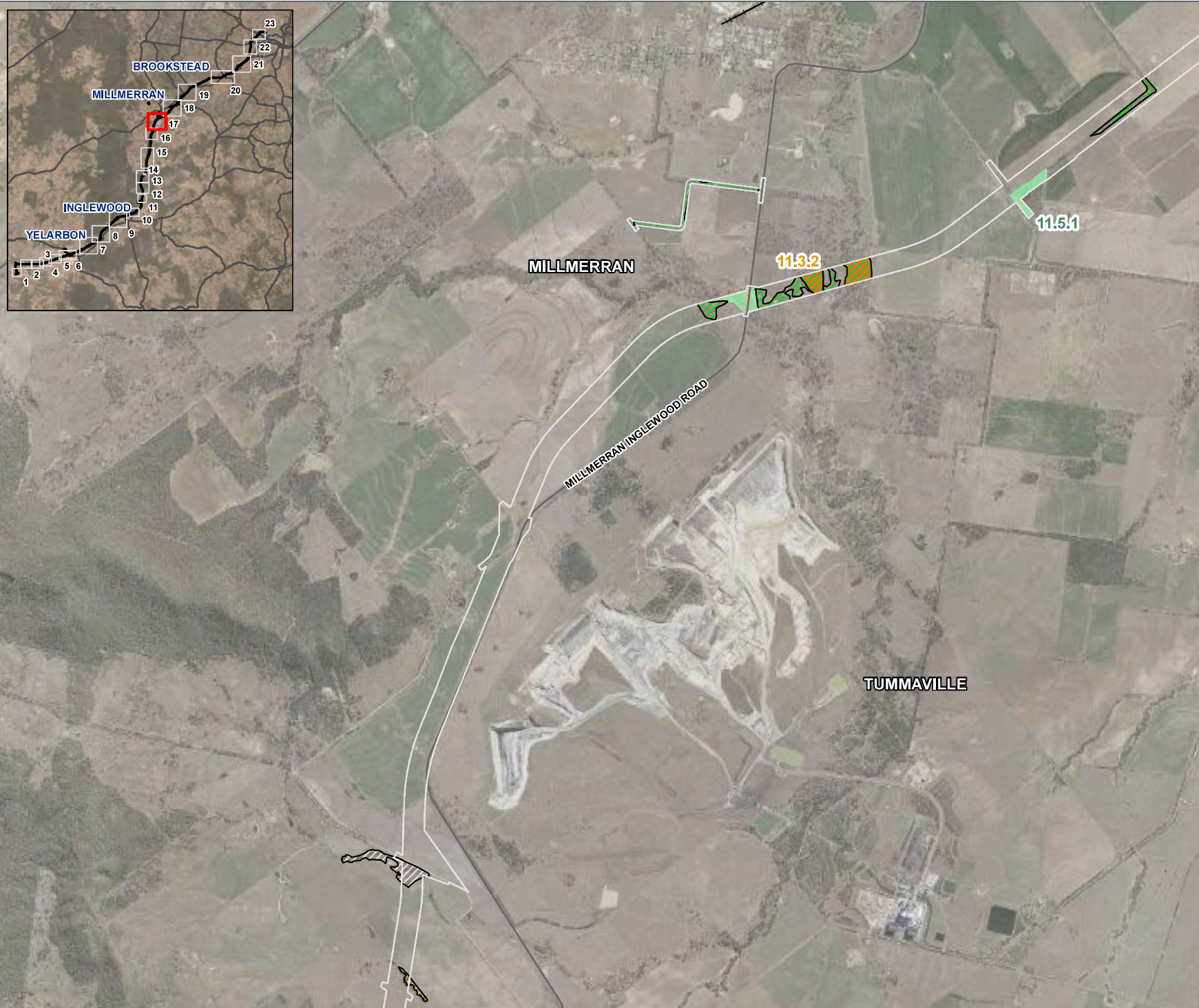
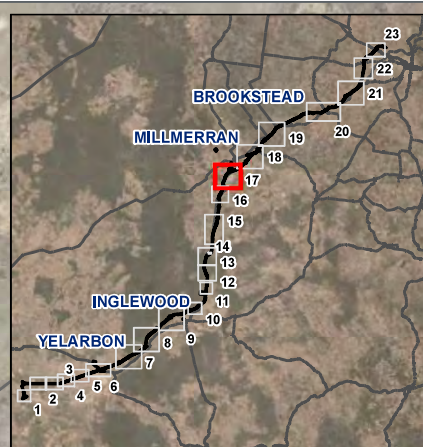
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Cardno

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Coordinate System: GDA 1994 MGA Zone 58
Map: NE30044-GS-074-Report_GroundTruthedRE_TEC.mxd 03
Aerial Imagery supplied by the State of Queensland (2017)



Ground Truthed Regional Ecosystems and TECs

BORDER TO GOWRIE
ECOLOGICAL ASSESSMENT

Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)

TEC

- Brigalow (*Acacia harpophylla*) dominant and co-dominant ecological community
- Poplar Box Grassy Woodland on Alluvial Plains
- White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland

Ground-truthed non-remnant

- Mapped by State as Of Concern - dominant

Vegetation Management Act 1999 Status

- Of Concern
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

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Aerial Imagery supplied by the State of Queensland (2017)



Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

TEC

- Poplar Box Grassy Woodland on Alluvial Plains

Ground-truthed non-remnant

- Mapped by State as Least Concern

Vegetation Management Act 1999 Status

- Of Concern
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

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Cardno

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TUMMAVILLE



Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

TEC

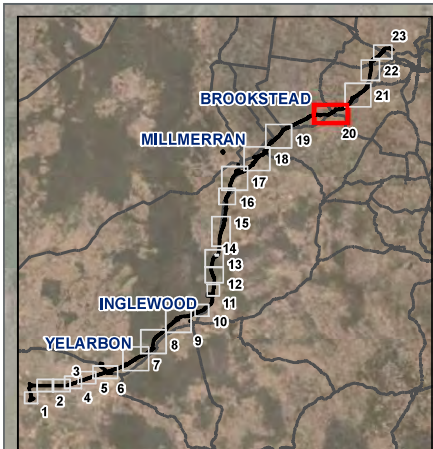
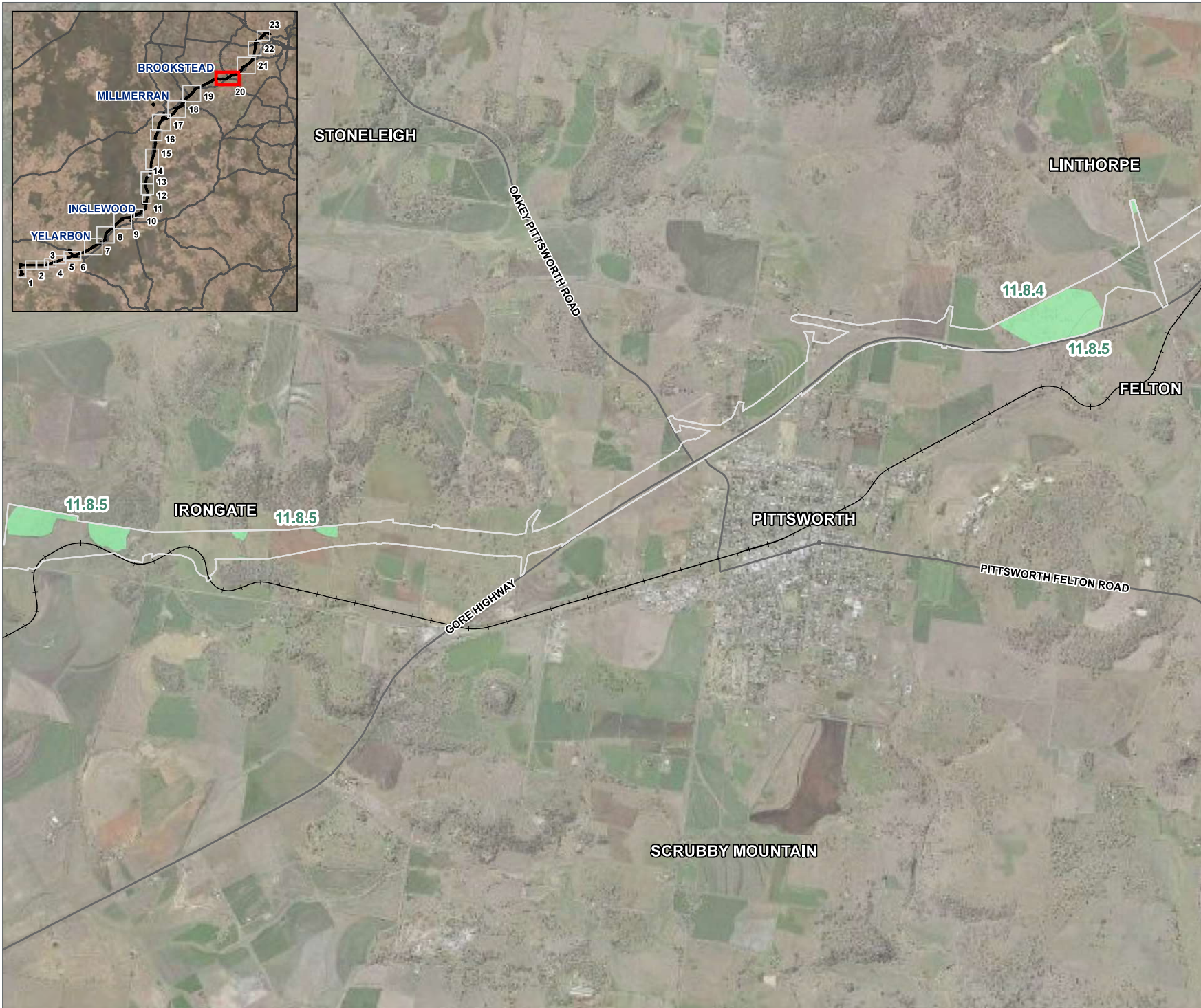
- Natural grasslands on basalt and fine-textured alluvial plains of northern New South Wales and southern Queensland

Vegetation Management Act 1999 Status

- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)





Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- Vegetation Management Act
1999 Status**
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

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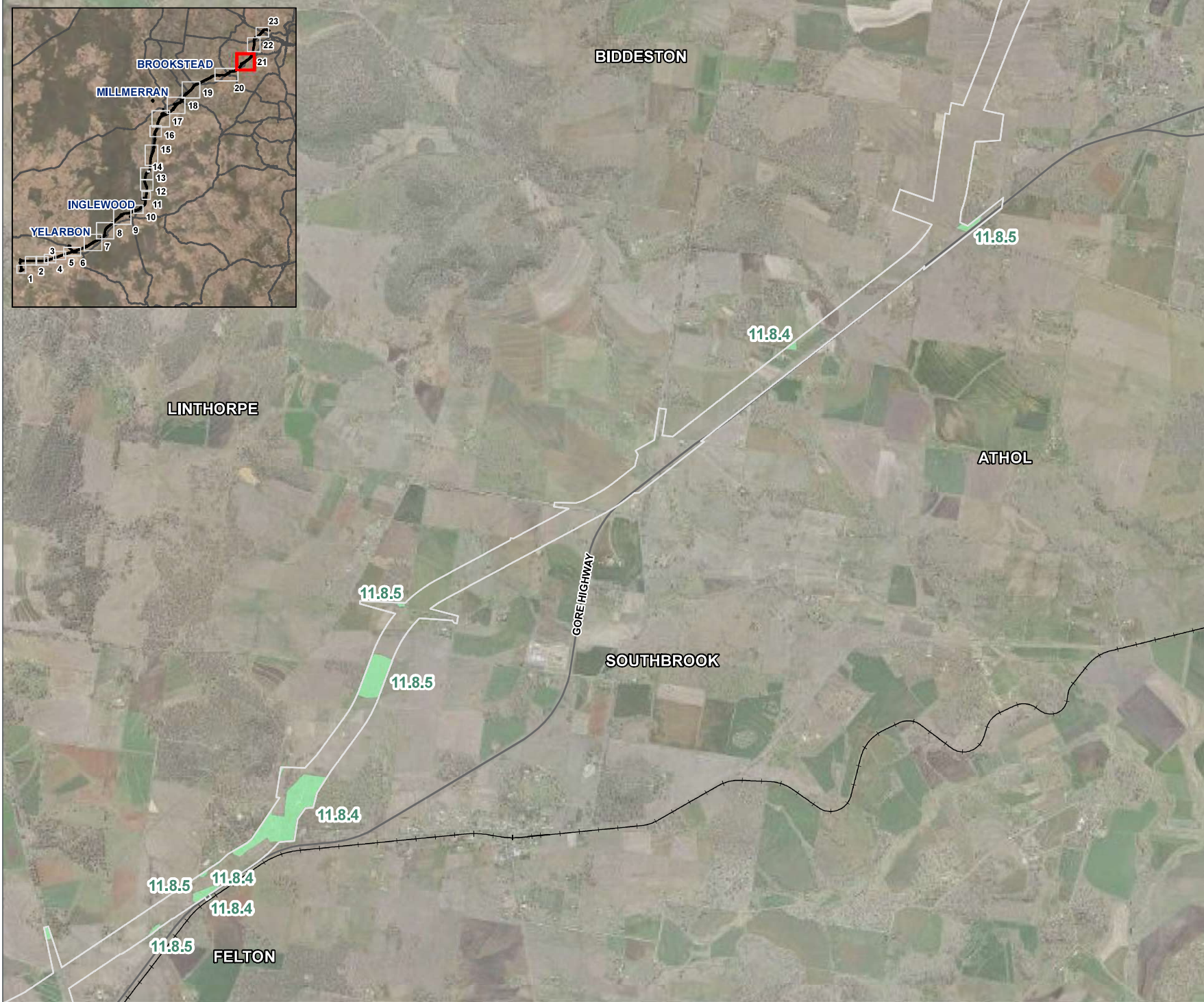
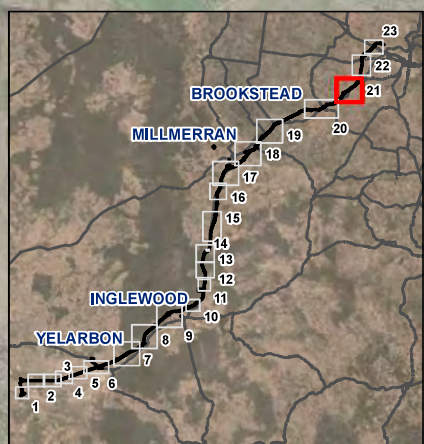
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Cardno

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Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-074-Report_GroundTruthedRE_TEC.mxd 03
Aerial Imagery supplied by the State of Queensland (2017)



Legend

- Flora Study Area
- Railway (QSpatial, 2019)
- Major Road (QSpatial, 2019)
- Vegetation Management Act
1999 Status**
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

Page 21

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Aerial Imagery supplied by the State of Queensland (2017)



Legend

- Flora Study Area
- Major Road (QSpatial, 2019)

TEC

- Natural grasslands on basalt and fine-textured alluvial plains of northern New South Wales and southern Queensland

Vegetation Management Act 1999 Status

- Of Concern
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)





Legend

- Flora Study Area
- Major Road (QSpatial, 2019)
- Vegetation Management Act
1999 Status**
- Least Concern

Suburb labels as per
Australian Bureau of Statistics (2011)

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Aerial Imagery supplied by the State of Queensland (2017)

APPENDIX

F

BIOCONDITION SCORING

Spring biocondition data

SITE ID: 1BA			Vegetation status: Remnant			
Regional Ecosystem: 11.4.3						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	6	80	7.5	15	5
Canopy	Median height (m)	10	24	41.7	5	3
	Cover (%)	34.8	70	49.7	5	2
Recruitment of dominant canopy species %		33	100	33.0	5	3
Shrubs	Native shrub cover (%)	1.4	48	2.9	5	0
Coarse woody debris	Total length per hectare (m)	200	1752	11.4	5	2
Native plant species richness	Trees	4	2	200.0	5	5
	Shrub	11	10	110.0	5	5
	Grass	5	4	125.0	5	5
	Forbs etc.	13	13	100.0	5	5
Non-native plant cover (%)		8	0	N/A	10	5
Ground cover	Native perennial grass cover (%)	1.2	6	20.0	5	1
	Organic litter cover (%)	59.4	75	79.2	5	5
Size of Patch					10	7
Context					5	2
Connectivity					5	2
Total weighted score					100	57
BioCondition score (=Total score /100)					1	0.57

SITE ID: 1BD			Vegetation status: Remnant			
Regional Ecosystem: 11.7.7						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Pecentage of Benchmark		
Large trees	Total large trees per hectare	6	26	23.1	15	5
Canopy	Median height (m)	18	19	94.7	5	5
	Cover (%)	29.5	40	73.8	5	5
Recruitment of dominant canopy species %		25	100	25.0	5	3
Shrubs	Native shrub cover (%)	1	15	6.7	5	0
Coarse woody debris	Total length per hectare (m)	165	157	105.1	5	5
Native plant species richness	Trees	8	5	160.0	5	5
	Shrub	6	9	66.7	5	2.5
	Grass	5	4	125.0	5	5
	Forbs etc.	11	9	122.2	5	5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	58.2	4	1455.0	5	5
	Organic litter cover (%)	21.6	68	31.8	5	3
Size of Patch					10	10
Context					5	4
Connectivity					5	4
Total weighted score					100	76.5
BioCondition score (=Total score /100)					1	0.765

SITE ID: 2BC			Vegetation status: Remnant			
Regional Ecosystem: 11.3.4						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Pecentage of Benchmark		
Large trees	Total large trees per hectare	28	35	80.0	15	10
Canopy	Median height (m)	13	22	59.1	5	3
	Cover (%)	42.1	17	247.6	5	3
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0.2	1	20.0	5	3
Coarse woody debris	Total length per hectare (m)	405	384	105.5	5	5
Native plant species richness	Trees	5	4	125.0	5	5
	Shrub	1	2	50.0	5	2.5
	Grass	15	7	214.3	5	5
	Forbs etc.	15	10	150.0	5	5
Non-native plant cover (%)		3.1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	35.6	43	82.8	5	3
	Organic litter cover (%)	53	20	265.0	5	3
Size of Patch					10	10
Context					5	5
Connectivity					5	5
Total weighted score					100	82.5
BioCondition score (=Total score /100)					1	0.825

SITE ID: 1BF			Vegetation status: Remnant			
Regional Ecosystem: 11.5.4						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	182	17	1070.6	15	15
Canopy	Median height (m)	12	21	57.1	5	3
	Cover (%)	60.5	30	201.7	5	3
Recruitment of dominant canopy species %		40	100	40.0	5	3
Shrubs	Native shrub cover (%)	0.4	7	5.7	5	0
Coarse woody debris	Total length per hectare (m)	970	204	475.5	5	2
Native plant species richness	Trees	5	4	125.0	5	5
	Shrub	1	3	33.3	5	2.5
	Grass	3	13	23.1	5	2.5
	Forbs etc.	14	18	77.8	5	2.5
Non-native plant cover (%)		0.01	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	15.4	30	51.3	5	3
	Organic litter cover (%)	59	58	101.7	5	5
Size of Patch					10	10
Context					5	5
Connectivity					5	5
Total weighted score					100	76.5
BioCondition score (=Total score /100)					1	0.765

SITE ID: 1BB			Vegetation status: Remnant			
Regional Ecosystem: 11.4.3						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	34	80	42.5	15	5
Canopy	Median height (m)	18	24	75.0	5	5
	Cover (%)	67	70	95.7	5	5
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0	48	0.0	5	0
Coarse woody debris	Total length per hectare (m)	1060	1752	60.5	5	5
Native plant species richness	Trees	1	2	50.0	5	2.5
	Shrub	4	10	40.0	5	2.5
	Grass	2	4	50.0	5	2.5
	Forbs etc.	15	13	115.4	5	5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	9.4	6	156.7	5	5
	Organic litter cover (%)	81.2	75	108.3	5	5
Size of Patch					10	7
Context					5	2
Connectivity					5	2
Total weighted score					100	68.5
BioCondition score (=Total score /100)					1	0.685

SITE ID: 2BA			Vegetation status: Remnant			
Regional Ecosystem: 11.5.1						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	40	17	235.3	15	15
Canopy	Median height (m)	12	20	60.0	5	3
	Cover (%)	16.9	25	67.6	5	5
Recruitment of dominant canopy species %		75	100	75.0	5	5
Shrubs	Native shrub cover (%)	0.6	6	10.0	5	3
Coarse woody debris	Total length per hectare (m)	1130	135	837.0	5	3
Native plant species richness	Trees	10	5	200.0	5	5
	Shrub	3	5	60.0	5	2.5
	Grass	7	8	87.5	5	2.5
	Forbs etc.	8	10	80.0	5	2.5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	57.4	23	249.6	5	5
	Organic litter cover (%)	21.4	45	47.6	5	3
Size of Patch					10	10
Context					5	5
Connectivity					5	4
Total weighted score					100	83.5
BioCondition score (=Total score /100)					1	0.835

SITE ID: 2BD		Vegetation status: Remnant				
Regional Ecosystem: 11.7.7						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	18	26	69.2	15	10
Canopy	Median height (m)	23	19	121.1	5	5
	Cover (%)	50.4	40	126.0	5	5
Recruitment of dominant canopy species %		0	100	0.0	5	0
Shrubs	Native shrub cover (%)	5.2	15	34.7	5	3
Coarse woody debris	Total length per hectare (m)	345	157	219.7	5	2
Native plant species richness	Trees	6	5	120.0	5	5
	Shrub	6	9	66.7	5	2.5
	Grass	5	4	125.0	5	5
	Forbs etc.	9	9	100.0	5	5
Non-native plant cover (%)		0.01	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	52.2	4	1305.0	5	5
	Organic litter cover (%)	37.4	68	55.0	5	5
Size of Patch					10	10
Context					5	5
Connectivity					5	4
Total weighted score					100	81.5
BioCondition score (=Total score /100)					1	0.815

SITE ID: 2BE			Vegetation status: Remnant			
Regional Ecosystem: 11.3.25						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	44	21	209.5	15	15
Canopy	Median height (m)	26.8	23	116.5	5	5
	Cover (%)	91.1	22	414.1	5	3
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0.2	1	20.0	5	3
Coarse woody debris	Total length per hectare (m)	316	375	84.3	5	5
Native plant species richness	Trees	3	4	75.0	5	2.5
	Shrub	2	2	100.0	5	5
	Grass	2	8	25.0	5	2.5
	Forbs etc.	22	12	183.3	5	5
Non-native plant cover (%)		0.1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	1	12	8.3	5	0
	Organic litter cover (%)	43.8	15	292.0	5	3
Size of Patch					10	10
Context					5	5
Connectivity					5	5
Total weighted score					100	84
BioCondition score (=Total score /100)					1	0.84

SITE ID: 1BC		Vegetation status: Remnant				
Regional Ecosystem: 11.5.1						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Pecentage of Benchmark		
Large trees	Total large trees per hectare	6	17	35.3	15	5
Canopy	Median height (m)	13	20	65.0	5	3
	Cover (%)	58.5	25	234.0	5	3
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	1.4	6	23.3	5	3
Coarse woody debris	Total length per hectare (m)	940	135	696.3	5	2
Native plant species richness	Trees	2	5	40.0	5	2.5
	Shrub	8	5	160.0	5	5
	Grass	6	8	75.0	5	2.5
	Forbs etc.	15	10	150.0	5	5
Non-native plant cover (%)		0.1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	4	23	17.4	5	1
	Organic litter cover (%)	68	45	151.1	5	5
Size of Patch					10	10
Context					5	5
Connectivity					5	5
Total weighted score					100	72
BioCondition score (=Total score /100)					1	0.72

SITE ID: 2BB		Vegetation status: Remnant				
Regional Ecosystem: 11.3.14						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	34	40	85.0	15	10
Canopy	Median height (m)	14	14	100.0	5	5
	Cover (%)	56.9	26.5	214.7	5	3
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	1.8	7	25.7	5	3
Coarse woody debris	Total length per hectare (m)	1690	525	321.9	5	2
Native plant species richness	Trees	7	5	140.0	5	5
	Shrub	5	0	N/A	5	0
	Grass	9	12	75.0	5	2.5
	Forbs etc.	12	3	400.0	5	5
Non-native plant cover (%)		0.1	0		10	10
Ground cover	Native perennial grass cover (%)	4.6	26	17.7	5	1
	Organic litter cover (%)	85.2	48	177.5	5	5
Size of Patch					10	10
Context					5	2
Connectivity					5	4
Total weighted score					100	72.5
BioCondition score (=Total score /100)					1	0.725

SITE ID: 1BE		Vegetation status: Remnant				
Regional Ecosystem: 11.9.5						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Pecentage of Benchmark		
Large trees	Total large trees per hectare	22	98	22.4	15	5
Canopy	Median height (m)	15	25	60.0	5	3
	Cover (%)	53.5	59	90.7	5	5
Recruitment of dominant canopy species %		60	100	60.0	5	3
Shrubs	Native shrub cover (%)	0	11	0.0	5	0
Coarse woody debris	Total length per hectare (m)	1690	616	274.4	5	2
Native plant species richness	Trees	4	2	200.0	5	5
	Shrub	3	10	30.0	5	2.5
	Grass	2	4	50.0	5	2.5
	Forbs etc.	13	9	144.4	5	5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	1.6	4	40.0	5	1
	Organic litter cover (%)	72.8	66	110.3	5	5
Size of Patch					10	10
Context					5	5
Connectivity					5	4
Total weighted score					100	68
BioCondition score (=Total score /100)					1	0.68

SITE ID: 2BF		Vegetation status: Remnant				
Regional Ecosystem: 11.8.5						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	12	6	200.0	15	15
Canopy	Median height (m)	16	15	106.7	5	5
	Cover (%)	24.5	13	188.5	5	5
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	19	2	950.0	5	3
Coarse woody debris	Total length per hectare (m)	970	250	388.0	5	2
Native plant species richness	Trees	11	2	550.0	5	5
	Shrub	8	3	266.7	5	5
	Grass	3	6	50.0	5	2.5
	Forbs etc.	15	16	93.8	5	5
Non-native plant cover (%)		7.1	0	N/A	10	5
Ground cover	Native perennial grass cover (%)	1.8	60	3.0	5	0
	Organic litter cover (%)	38.8	25	155.2	5	5
Size of Patch					10	5
Context					5	2
Connectivity					5	2
Total weighted score					100	71.5
BioCondition score (=Total score /100)					1	0.715

Post-wet biocondition data

SITE ID: 1BA			Vegetation status: Remnant			
Regional Ecosystem: 11.5.1						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	5	17	29.4	15	5
Canopy	Median height (m)	15	20	75.0	5	5
	Cover (%)	54.7	25	218.8	5	3
Recruitment of dominant canopy species %		33	100	33.0	5	3
Shrubs	Native shrub cover (%)	0	6	0.0	5	0
Coarse woody debris	Total length per hectare (m)	1510	135	1118.5	5	2
Native plant species richness	Trees	7	5	140.0	5	5
	Shrub	6	5	120.0	5	5
	Grass	13	8	162.5	5	5
	Forbs etc.	18	10	180.0	5	5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	23	23	100.0	5	5
	Organic litter cover (%)	40	45	88.9	5	5
Size of Patch					10	5
Context					5	0
Connectivity					5	4
Total weighted score					100	67
BioCondition score (=Total score /100)					1	0.67

SITE ID: 1BD		Vegetation status: Remnant				
Regional Ecosystem: 11.3.14						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	42	40	105.0	15	15
Canopy	Median height (m)	20	14	142.9	5	5
	Cover (%)	66.8	26.5	252.1	5	3
Recruitment of dominant canopy species %		67	100	67.0	5	3
Shrubs	Native shrub cover (%)	0	7	0.0	5	0
Coarse woody debris	Total length per hectare (m)	720	525	137.1	5	5
Native plant species richness	Trees	1	5	20.0	5	0
	Shrub	0	0	100.0	5	5
	Grass	9	12	75.0	5	5
	Forbs etc.	13	3	433.3	5	5
Non-native plant cover (%)		10	0	N/A	10	
Ground cover	Native perennial grass cover (%)	40	26	153.8	5	5
	Organic litter cover (%)	47	48	97.9	5	5
Size of Patch					10	10
Context					5	2
Connectivity					5	2
Total weighted score					100	70
BioCondition score (=Total score /100)					1	0.7

SITE ID: 2BB		Vegetation status: Remnant				
Regional Ecosystem: 11.3.14						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	0	40	0.0	15	0
Canopy	Median height (m)	8	14	57.1	5	3
	Cover (%)	11.1	26.5	41.9	5	2
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0	7	0.0	5	0
Coarse woody debris	Total length per hectare (m)	680	525	129.5	5	5
Native plant species richness	Trees	2	5	40.0	5	2.5
	Shrub	6	0		5	0
	Grass	7	12	58.3	5	2.5
	Forbs etc.	3	3	100.0	5	5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	48	26	184.6	5	5
	Organic litter cover (%)	11	48	22.9	5	1
Size of Patch					10	2
Context					5	0
Connectivity					5	0
Total weighted score					100	43
BioCondition score (=Total score /100)					1	0.43

SITE ID: 1BH			Vegetation status: Remnant			
Regional Ecosystem: 11.3.4						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	26	35	74.3	15	10
Canopy	Median height (m)	20	22	90.9	5	5
	Cover (%)	45.2	17	265.9	5	3
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0	1	0.0	5	0
Coarse woody debris	Total length per hectare (m)	1420	384	369.8	5	2
Native plant species richness	Trees	3	4	75.0	5	2.5
	Shrub	1	2	50.0	5	2.5
	Grass	11	7	157.1	5	5
	Forbs etc.	12	10	120.0	5	5
Non-native plant cover (%)		2	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	19	43	44.2	5	1
	Organic litter cover (%)	27	20	135.0	5	5
Size of Patch					10	2
Context					5	2
Connectivity					5	4
Total weighted score					100	64
BioCondition score (=Total score /100)					1	0.64

SITE ID: 2BC			Vegetation status: Remnant			
Regional Ecosystem: 11.3.2						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	24	22	109.1	15	15
Canopy	Median height (m)	15	18	83.3	5	5
	Cover (%)	48.9	40	122.3	5	5
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0	2	0.0	5	0
Coarse woody debris	Total length per hectare (m)	395	307	128.7	5	5
Native plant species richness	Trees	6	2	300.0	5	5
	Shrub	7	2	350.0	5	5
	Grass	14	9	155.6	5	5
	Forbs etc.	18	17	105.9	5	5
Non-native plant cover (%)		2	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	34	35	97.1	5	5
	Organic litter cover (%)	36	30	120.0	5	5
Size of Patch					10	2
Context					5	4
Connectivity					5	0
Total weighted score					100	81
BioCondition score (=Total score /100)					1	0.81

SITE ID: 1BM			Vegetation status: Remnant			
Regional Ecosystem: 11.8.5						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	20	6	333.3	15	15
Canopy	Median height (m)	16	15	106.7	5	5
	Cover (%)	56	13	430.8	5	3
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	7	2	350.0	5	3
Coarse woody debris	Total length per hectare (m)	455	250	182.0	5	5
Native plant species richness	Trees	10	2	500.0	5	5
	Shrub	6	3	200.0	5	5
	Grass	7	6	116.7	5	5
	Forbs etc.	22	16	137.5	5	5
Non-native plant cover (%)		5	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	25	60	41.7	5	1
	Organic litter cover (%)	28	25	112.0	5	5
Size of Patch					10	5
Context					5	2
Connectivity					5	2
Total weighted score					100	81
BioCondition score (=Total score /100)					1	0.81

SITE ID: 1BN			Vegetation status: Remnant			
Regional Ecosystem: 11.5.20						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	0	24	0.0	15	0
Canopy	Median height (m)	16	23	69.6	5	3
	Cover (%)	76.6	43	178.1	5	5
Recruitment of dominant canopy species %		50	100	50.0	5	3
Shrubs	Native shrub cover (%)	0	5	0.0	5	0
Coarse woody debris	Total length per hectare (m)	535	178	300.6	5	2
Native plant species richness	Trees	3	3	100.0	5	5
	Shrub	0	4	0.0	5	0
	Grass	10	7	142.9	5	5
	Forbs etc.	17	13	130.8	5	5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	30	8	375.0	5	5
	Organic litter cover (%)	21	57	36.8	5	3
Size of Patch					10	2
Context					5	2
Connectivity					5	0
Total weighted score					100	50
BioCondition score (=Total score /100)					1	0.5

SITE ID: 2BG			Vegetation status: Remnant			
Regional Ecosystem: 11.8.5						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	18	6	300.0	15	15
Canopy	Median height (m)	14	15	93.3	5	5
	Cover (%)	50.9	13	391.5	5	3
Recruitment of dominant canopy species %		0	100	0.0	5	0
Shrubs	Native shrub cover (%)	0	2	0.0	5	0
Coarse woody debris	Total length per hectare (m)	70	250	28.0	5	2
Native plant species richness	Trees	2	2	100.0	5	5
	Shrub	0	3	0.0	5	0
	Grass	5	6	83.3	5	2.5
	Forbs etc.	5	16	31.3	5	0
Non-native plant cover (%)		70	0	N/A	10	0
Ground cover	Native perennial grass cover (%)	6	60	10.0	5	1
	Organic litter cover (%)	11	25	44.0	5	3
Size of Patch					10	0
Context					5	0
Connectivity					5	0
Total weighted score					100	36.5
BioCondition score (=Total score /100)					1	0.365

SITE ID: 1BR			Vegetation status: Remnant			
Regional Ecosystem: 11.3.25						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	34	21	161.9	15	15
Canopy	Median height (m)	25	23	108.7	5	5
	Cover (%)	57.4	22	260.9	5	3
Recruitment of dominant canopy species %		75	100	75.0	5	5
Shrubs	Native shrub cover (%)	0	1	0.0	5	0
Coarse woody debris	Total length per hectare (m)	675	375	180.0	5	5
Native plant species richness	Trees	9	4	225.0	5	5
	Shrub	0	2	0.0	5	0
	Grass	2	8	25.0	5	2.5
	Forbs etc.	5	12	41.7	5	2.5
Non-native plant cover (%)		95	0	N/A	10	0
Ground cover	Native perennial grass cover (%)	0	12	0.0	5	0
	Organic litter cover (%)	34	15	226.7	5	3
Size of Patch					10	10
Context					5	4
Connectivity					5	2
Total weighted score					100	62
BioCondition score (=Total score /100)					1	0.62

SITE ID: 2BK			Vegetation status: Remnant			
Regional Ecosystem: 11.5.4						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	6	17	35.3	15	5
Canopy	Median height (m)	23	21	109.5	5	5
	Cover (%)	13.3	30	44.3	5	2
Recruitment of dominant canopy species %		50	100	50.0	5	3
Shrubs	Native shrub cover (%)	0	7	0.0	5	0
Coarse woody debris	Total length per hectare (m)	1430	204	701.0	5	2
Native plant species richness	Trees	5	4	125.0	5	5
	Shrub	0	3	0.0	5	0
	Grass	6	13	46.2	5	2.5
	Forbs etc.	14	18	77.8	5	2.5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	10	30	33.3	5	1
	Organic litter cover (%)	71	58	122.4	5	5
Size of Patch					10	7
Context					5	2
Connectivity					5	2
Total weighted score					100	54
BioCondition score (=Total score /100)					1	0.54

SITE ID: 1BB			Vegetation status: Remnant			
Regional Ecosystem: 11.5.1						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	62	17	364.7	15	15
Canopy	Median height (m)	12	20	60.0	5	3
	Cover (%)	39	25	156.0	5	5
Recruitment of dominant canopy species %		75	100	75.0	5	5
Shrubs	Native shrub cover (%)	2	6	33.3	5	3
Coarse woody debris	Total length per hectare (m)	355	135	263.0	5	2
Native plant species richness	Trees	5	5	100.0	5	5
	Shrub	3	5	60.0	5	2.5
	Grass	6	8	75.0	5	2.5
	Forbs etc.	15	10	150.0	5	5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	28	23	121.7	5	5
	Organic litter cover (%)	46	45	102.2	5	5
Size of Patch					10	10
Context					5	5
Connectivity					5	4
Total weighted score					100	87
BioCondition score (=Total score /100)					1	0.87

SITE ID: 2BA		Vegetation status: Remnant				
Regional Ecosystem: 11.3.14						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	40	40	100.0	15	15
Canopy	Median height (m)	14	14	100.0	5	5
	Cover (%)	26.5	26.5	100.0	5	5
Recruitment of dominant canopy species %		40	100	40.0	5	3
Shrubs	Native shrub cover (%)	7	7	100.0	5	5
Coarse woody debris	Total length per hectare (m)	525	525	100.0	5	5
Native plant species richness	Trees	5	5	100.0	5	5
	Shrub	0	0	100.0	5	5
	Grass	12	12	100.0	5	5
	Forbs etc.	3	3	100.0	5	5
Non-native plant cover (%)		2	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	26	26	100.0	5	5
	Organic litter cover (%)	48	48	100.0	5	5
Size of Patch					10	5
Context					5	0
Connectivity					5	2
Total weighted score					100	85
BioCondition score (=Total score /100)					1	0.85

SITE ID: 1BF		Vegetation status: Remnant				
Regional Ecosystem: 11.3.2						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	38	22	172.7	15	15
Canopy	Median height (m)	20	18	111.1	5	5
	Cover (%)	76.6	40	191.5	5	5
Recruitment of dominant canopy species %		50	100	50.0	5	3
Shrubs	Native shrub cover (%)	0	2	0.0	5	0
Coarse woody debris	Total length per hectare (m)	875	307	285.0	5	2
Native plant species richness	Trees	4	2	200.0	5	5
	Shrub	2	2	100.0	5	5
	Grass	8	9	88.9	5	2.5
	Forbs etc.	13	17	76.5	5	2.5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	37	35	105.7	5	5
	Organic litter cover (%)	46	30	153.3	5	5
Size of Patch					10	7
Context					5	2
Connectivity					5	4
Total weighted score					100	78
BioCondition score (=Total score /100)					1	0.78

SITE ID: 1BI		Vegetation status: Remnant				
Regional Ecosystem: 11.9.5						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	12	98	12.2	15	5
Canopy	Median height (m)	10	25	40.0	5	3
	Cover (%)	45.2	59	76.6	5	5
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	6	11	54.5	5	5
Coarse woody debris	Total length per hectare (m)	720	616	116.9	5	5
Native plant species richness	Trees	6	2	300.0	5	5
	Shrub	12	10	120.0	5	5
	Grass	5	4	125.0	5	5
	Forbs etc.	17	9	188.9	5	5
Non-native plant cover (%)		30	0	N/A	10	3
Ground cover	Native perennial grass cover (%)	23	4	575.0	5	5
	Organic litter cover (%)	30	66	45.5	5	3
Size of Patch					10	0
Context					5	0
Connectivity					5	0
Total weighted score					100	59
BioCondition score (=Total score /100)					1	0.59

SITE ID: 1BK		Vegetation status: Remnant				
Regional Ecosystem: 11.3.2						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	30	22	136.4	15	15
Canopy	Median height (m)	17	18	94.4	5	5
	Cover (%)	51.7	40	129.3	5	5
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0	2	0.0	5	0
Coarse woody debris	Total length per hectare (m)	1065	307	346.9	5	2
Native plant species richness	Trees	3	2	150.0	5	5
	Shrub	1	2	50.0	5	2.5
	Grass	9	9	100.0	5	5
	Forbs etc.	10	17	58.8	5	2.5
Non-native plant cover (%)		10	0	N/A	10	5
Ground cover	Native perennial grass cover (%)	40	35	114.3	5	5
	Organic litter cover (%)	21	30	70.0	5	5
Size of Patch					10	7
Context					5	4
Connectivity					5	2
Total weighted score					100	75
BioCondition score (=Total score /100)					1	0.75

SITE ID: 2BE		Vegetation status: Non-remnant				
Regional Ecosystem: 11.8.4						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	10	14	71.4	15	10
Canopy	Median height (m)	15	14	107.1	5	5
	Cover (%)	23.1	27	85.6	5	5
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0	2	0.0	5	0
Coarse woody debris	Total length per hectare (m)	345	128	269.5	5	2
Native plant species richness	Trees	6	4	150.0	5	5
	Shrub	5	6	83.3	5	2.5
	Grass	8	5	160.0	5	5
	Forbs etc.	14	6	233.3	5	5
Non-native plant cover (%)		30	0	N/A	10	3
Ground cover	Native perennial grass cover (%)	11	53	20.8	5	1
	Organic litter cover (%)	22	24	91.7	5	5
Size of Patch					10	2
Context					5	4
Connectivity					5	2
Total weighted score					100	61.5
BioCondition score (=Total score /100)					1	0.615

SITE ID: 1BO			Vegetation status: Remnant			
Regional Ecosystem: 11.5.14						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	10	10	100.0	15	15
Canopy	Median height (m)	8	8	100.0	5	5
	Cover (%)	7.2	7.2	100.0	5	5
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0	0	#DIV/0!	5	5
Coarse woody debris	Total length per hectare (m)	85	85	100.0	5	5
Native plant species richness	Trees	3	3	100.0	5	5
	Shrub	1	1	100.0	5	5
	Grass	3	3	100.0	5	5
	Forbs etc.	12	12	100.0	5	5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	41	41	100.0	5	5
	Organic litter cover (%)	11	11	100.0	5	5
Size of Patch					10	10
Context					5	5
Connectivity					5	5
Total weighted score					100	100
BioCondition score (=Total score /100)					1	1

SITE ID: 2BH		Vegetation status: Remnant				
Regional Ecosystem: 11.8.5						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	10	6	166.7	15	15
Canopy	Median height (m)	14	15	93.3	5	5
	Cover (%)	52.2	13	401.5	5	3
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0	2	0.0	5	0
Coarse woody debris	Total length per hectare (m)	145	250	58.0	5	5
Native plant species richness	Trees	1	2	50.0	5	2.5
	Shrub	2	3	66.7	5	2.5
	Grass	18	6	300.0	5	5
	Forbs etc.	11	16	68.8	5	2.5
Non-native plant cover (%)		15	0	N/A	10	5
Ground cover	Native perennial grass cover (%)	45	60	75.0	5	3
	Organic litter cover (%)	27	25	108.0	5	5
Size of Patch					10	5
Context					5	2
Connectivity					5	2
Total weighted score					100	67.5
BioCondition score (=Total score /100)					1	0.675

SITE ID: 1BS		Vegetation status: Remnant				
Regional Ecosystem: 11.4.3						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	4	80	5.0	15	5
Canopy	Median height (m)	18	24	75.0	5	5
	Cover (%)	46.9	70	67.0	5	3
Recruitment of dominant canopy species %		0	100	0.0	5	0
Shrubs	Native shrub cover (%)	0	48	0.0	5	0
Coarse woody debris	Total length per hectare (m)	115	1752	6.6	5	0
Native plant species richness	Trees	5	2	250.0	5	5
	Shrub	8	10	80.0	5	2.5
	Grass	6	4	150.0	5	2.5
	Forbs etc.	19	13	146.2	5	5
Non-native plant cover (%)		10	0	N/A	10	5
Ground cover	Native perennial grass cover (%)	35	6	583.3	5	3
	Organic litter cover (%)	15	75	20.0	5	3
Size of Patch					10	0
Context					5	0
Connectivity					5	0
Total weighted score					100	39
BioCondition score (=Total score /100)					1	0.39

SITE ID: 1BC		Vegetation status: Remnant				
Regional Ecosystem: 11.4.3						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	32	80	40.0	15	5
Canopy	Median height (m)	15	24	62.5	5	3
	Cover (%)		70	0.0	5	
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	2	48	4.2	5	0
Coarse woody debris	Total length per hectare (m)	890	1752	50.8	5	5
Native plant species richness	Trees	9	2	450.0	5	5
	Shrub	6	10	60.0	5	2.5
	Grass	7	4	175.0	5	5
	Forbs etc.	22	13	169.2	5	5
Non-native plant cover (%)		2	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	26	6	433.3	5	5
	Organic litter cover (%)	21	75	28.0	5	3
Size of Patch					10	10
Context					5	4
Connectivity					5	4
Total weighted score					100	71.5
BioCondition score (=Total score /100)					1	0.715

SITE ID: 1BE		Vegetation status: Remnant				
Regional Ecosystem: 11.5.1						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	4	17	23.5	15	5
Canopy	Median height (m)	12	20	60.0	5	3
	Cover (%)	53	25	212.0	5	3
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0	6	0.0	5	0
Coarse woody debris	Total length per hectare (m)	620	135	459.3	5	2
Native plant species richness	Trees	2	5	40.0	5	2.5
	Shrub	1	5	20.0	5	0
	Grass	9	8	112.5	5	5
	Forbs etc.	11	10	110.0	5	5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	9	23	39.1	5	1
	Organic litter cover (%)	58	45	128.9	5	5
Size of Patch					10	7
Context					5	5
Connectivity					5	4
Total weighted score					100	62.5
BioCondition score (=Total score /100)					1	0.625

SITE ID: 1BG		Vegetation status: Remnant				
Regional Ecosystem: 11.9.7						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	74	16	462.5	15	15
Canopy	Median height (m)	16	16	100.0	5	5
	Cover (%)	84.8	27	314.1	5	3
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	2	1	200.0	5	5
Coarse woody debris	Total length per hectare (m)	625	287	217.8	5	2
Native plant species richness	Trees	7	3	233.3	5	5
	Shrub	3	5	60.0	5	2.5
	Grass	8	9	88.9	5	2.5
	Forbs etc.	30	28	107.1	5	5
Non-native plant cover (%)		1	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	8	26	30.8	5	1
	Organic litter cover (%)	77	16	481.3	5	3
Size of Patch					10	10
Context					5	4
Connectivity					5	4
Total weighted score					100	82
BioCondition score (=Total score /100)					1	0.82

SITE ID: 1BJ			Vegetation status: Remnant			
Regional Ecosystem: 11.3.2						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	28	22	127.3	15	15
Canopy	Median height (m)	20	18	111.1	5	5
	Cover (%)	27.8	40	69.5	5	5
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	0	2	0.0	5	0
Coarse woody debris	Total length per hectare (m)	320	307	104.2	5	5
Native plant species richness	Trees	3	2	150.0	5	5
	Shrub	1	2	50.0	5	2.5
	Grass	12	9	133.3	5	5
	Forbs etc.	21	17	123.5	5	5
Non-native plant cover (%)		50	0	N/A	10	3
Ground cover	Native perennial grass cover (%)	24	35	68.6	5	3
	Organic litter cover (%)	20	30	66.7	5	5
Size of Patch					10	5
Context					5	4
Connectivity					5	2
Total weighted score					100	74.5
BioCondition score (=Total score /100)					1	0.745

SITE ID: 2BD		Vegetation status: Non-remnant				
Regional Ecosystem: 11.3.25						
BIOCONDITION ATTRIBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	22	21	104.8	15	15
Canopy	Median height (m)	16	23	69.6	5	3
	Cover (%)	41.1	22	186.8	5	5
Recruitment of dominant canopy species %		0	100	0.0	5	0
Shrubs	Native shrub cover (%)	0	1	0.0	5	0
Coarse woody debris	Total length per hectare (m)	165	375	44.0	5	2
Native plant species richness	Trees	2	4	50.0	5	2.5
	Shrub	2	2	100.0	5	5
	Grass	4	8	50.0	5	2.5
	Forbs etc.	8	12	66.7	5	2.5
Non-native plant cover (%)		2	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	55	12	458.3	5	5
	Organic litter cover (%)	12	15	80.0	5	5
Size of Patch					10	10
Context					5	2
Connectivity					5	2
Total weighted score					100	71.5
BioCondition score (=Total score /100)					1	0.715

SITE ID: 2BF			Vegetation status: Remnant			
Regional Ecosystem: 11.8.4						
BIOCONDITION ATTRIRBUTE		Measurement			MAX SCORE	WEIGHTED SCORE
		Score	RE Benchmark	Percentage of Benchmark		
Large trees	Total large trees per hectare	20	14	142.9	15	15
Canopy	Median height (m)	20	14	142.9	5	5
	Cover (%)	43.1	27	159.6	5	5
Recruitment of dominant canopy species %		100	100	100.0	5	5
Shrubs	Native shrub cover (%)	8	2	400.0	5	3
Coarse woody debris	Total length per hectare (m)	790	128	617.2	5	2
Native plant species richness	Trees	8	4	200.0	5	5
	Shrub	5	6	83.3	5	2.5
	Grass	7	5	140.0	5	5
	Forbs etc.	11	6	183.3	5	5
Non-native plant cover (%)		5	0	N/A	10	10
Ground cover	Native perennial grass cover (%)	38	53	71.7	5	3
	Organic litter cover (%)	12	24	50.0	5	5
Size of Patch					10	10
Context					5	4
Connectivity					5	4
Total weighted score					100	88.5
BioCondition score (=Total score /100)					1	0.885

APPENDIX

G

FLORA SPECIES LIST

Family	Scientific Name	Common Name	Nature Conservation Act	Environment Protection and Biodiversity Conservation	
			1992 Status	Act 1999 Status	Exotic?
Acanthaceae	<i>Brunoniella australis</i>	Blue trumpet	C	-	-
Acanthaceae	<i>Pseuderanthemum variable</i>	Pastel flower	C	-	-
Acanthaceae	<i>Rostellularia adscendens</i>	-	C	-	-
Acanthaceae	<i>Xerothamnella herbacea</i>	-	E	E	-
Aizoaceae	<i>Tetragonia tetragonoides</i>	New Zealand spinach	C	-	-
Amaranthaceae	<i>Alternanthera denticulata</i>	Lesser joyweed	C	-	-
Amaranthaceae	<i>Gomphrena celosioides</i>	Gomphrena weed	-	-	Yes
Amaranthaceae	<i>Nyssanthus erecta</i>	-	C	-	-
Amaranthaceae	<i>Ptilotus exaltatus</i>	-	-	-	-
Amaranthaceae	<i>Ptilotus nobilis</i>	-	C	-	-
Amaryllidaceae	<i>Calostemma luteum</i>	-	C	-	-
Anacardiaceae	<i>Schinus molle</i>	-	-	-	Yes
Apiaceae	<i>Actinotus gibbonsii</i>	Dwarf flannel flower	C	-	-
Apiaceae	<i>Centella asiatica</i>	-	C	-	-
Apiaceae	<i>Cyclospermum leptophyllum</i>	-	-	-	Yes
Apocynaceae	<i>Alstonia constricta</i>	Bitterbark	C	-	-
Apocynaceae	<i>Asclepias curassavica</i>	Red-head cottonbush	-	-	Yes
Apocynaceae	<i>Carissa ovata</i>	Currantbush	C	-	-
Apocynaceae	<i>Cynanchum viminalis</i>	-	C	-	-
Apocynaceae	<i>Gomphocarpus physocarpus</i>	Balloon cottonbush	-	-	Yes
Apocynaceae	<i>Marsdenia viridiflora</i>	-	C	-	-
Apocynaceae	<i>Marsdenia viridiflora</i> subsp. <i>viridiflora</i>	-	C	-	-
Apocynaceae	<i>Parsonsia eucalyptophylla</i>	Gargaloo	C	-	-
Araliaceae	<i>Hydrocotyle acutiloba</i>	-	C	-	-
Asparagaceae	<i>Asparagus africanus</i>	Ornamental asparagus	-	-	Yes
Asphodelaceae	<i>Bulbine bulbosa</i>	Golden lily	C	-	-
Asphodelaceae	<i>Bulbine semibarbata</i>	Wild onion	C	-	-
Asteraceae	<i>Bidens pilosa</i>	-	-	-	Yes
Asteraceae	<i>Brachyscome dentata</i>	-	C	-	-
Asteraceae	<i>Brachyscome multifida</i>	-	C	-	-
Asteraceae	<i>Calotis cuneata</i>	-	C	-	-
Asteraceae	<i>Calotis cuneifolia</i>	Burr daisy	C	-	-
Asteraceae	<i>Calotis hispidula</i>	Bogan flea	C	-	-
Asteraceae	<i>Calotis lappulacea</i>	Yellow burr daisy	C	-	-
Asteraceae	<i>Cassinia laevis</i>	-	C	-	-
Asteraceae	<i>Centipeda minima</i>	-	C	-	-
Asteraceae	<i>Chrysocephalum apiculatum</i>	Yellow buttons	C	-	-
Asteraceae	<i>Cirsium vulgare</i>	Spear thistle	-	-	Yes
Asteraceae	<i>Erigeron bonariensis</i>	-	-	-	Yes
Asteraceae	<i>Euchiton sphaericus</i>	-	C	-	-
Asteraceae	<i>Lactuca serriola</i> forma <i>serriola</i>	-	-	-	Yes

Asteraceae	<i>Leiocarpa brevicompta</i>	-	C	-	-
Asteraceae	<i>Leiocarpa websteri</i>	-	C	-	-
Asteraceae	<i>Leontodon rhagadioloides</i>	-	-	-	Yes
Asteraceae	<i>Picris barbarorum</i>	-	V	-	-
Asteraceae	<i>Picris evae</i>	-	V	V	-
Asteraceae	<i>Pseudognaphalium luteoalbum</i>	Jersey cudweed	C	-	-
Asteraceae	<i>Rhaponticum australe</i>	-	V	V	-
Asteraceae	<i>Senecio lautus</i>	-	C	-	-
Asteraceae	<i>Senecio queenslandicus</i>	-	C	-	-
Asteraceae	<i>Senecio tenuiflorus</i>	-	C	-	-
Asteraceae	<i>Sigesbeckia orientalis</i>	Indian weed	C	-	-
Asteraceae	<i>Silybum marianum</i>	Variegated thistle	-	-	Yes
Asteraceae	<i>Sonchus asper</i>	Rough sowthistle	-	-	Yes
Asteraceae	<i>Sonchus oleraceus</i>	Common sowthistle	-	-	Yes
Asteraceae	<i>Tagetes minuta</i>	Stinking roger	-	-	Yes
Asteraceae	<i>Verbesina encelioides</i>	Crownbeard	-	-	Yes
Asteraceae	<i>Vittadinia cuneata</i>	-	C	-	-
Asteraceae	<i>Vittadinia cuneata</i> var. <i>hirsuta</i>	-	C	-	-
Asteraceae	<i>Vittadinia sulcata</i>	Native daisy	C	-	-
Asteraceae	<i>Vittadinia tenuissima</i>	Western New Holland daisy	C	-	-
Asteraceae	<i>Xanthium occidentale</i>	-	-	-	Yes
Asteraceae	<i>Xanthium spinosum</i>	Bathurst burr	-	-	Yes
Asteraceae	<i>Zinnia peruviana</i>	Wild zinnia	-	-	Yes
Bignoniaceae	<i>Dolichandra unguis-cati</i>	Cat's claw creeper	-	-	Yes
Bignoniaceae	<i>Pandorea jasminoides</i>	-	C	-	-
Bignoniaceae	<i>Pandorea pandorana</i>	Wonga vine	C	-	-
Bignoniaceae	<i>Tecoma stans</i>	Tecoma	-	-	Yes
Boraginaceae	<i>Echium plantagineum</i>	Paterson's curse	-	-	Yes
Boraginaceae	<i>Ehretia membranifolia</i>	Weeping koda	C	-	-
Boraginaceae	<i>Hackelia suaveolens</i>	-	C	-	-
Boraginaceae	<i>Heliotropium amplexicaule</i>	Blue heliotrope	-	-	Yes
Brassicaceae	<i>Lepidium africanum</i>	Common peppergrass	-	-	Yes
Brassicaceae	<i>Lepidium bonariense</i>	Argentine peppergrass	-	-	Yes
Brassicaceae	<i>Lepidium monoplacoides</i>	Winged peppergrass	C	E	-
Brassicaceae	<i>Rapistrum rugosum</i>	-	-	-	Yes
Brassicaceae	<i>Sisymbrium erysimoides</i>	Smooth mustard	-	-	Yes
Brassicaceae	<i>Sisymbrium irio</i>	London rocket	-	-	Yes
Brassicaceae	<i>Sisymbrium officinale</i>	Hedge mustard	-	-	Yes
Brassicaceae	<i>Sisymbrium orientale</i>	Indian hedge mustard	-	-	Yes
Byttneriaceae	<i>Seringia collina</i>	-	C	-	-
Byttneriaceae	<i>Seringia corollata</i>	-	C	-	-
Cactaceae	<i>Cereus uruguayanus</i>	-	-	-	Yes
Cactaceae	<i>Harrisia martinii</i>	-	-	-	Yes
Cactaceae	<i>Harrisia pomanensis</i>	-	-	-	Yes
Cactaceae	<i>Harrisia tortuosa</i>	-	-	-	Yes
Cactaceae	<i>Opuntia aurantiaca</i>	Tiger pear	-	-	Yes

Cactaceae	<i>Opuntia stricta</i>	-	-	-	Yes
Cactaceae	<i>Opuntia tomentosa</i>	Velvety tree pear	-	-	Yes
Caesalpiniaceae	<i>Senna artemisioides</i>	-	C	-	-
Campanulaceae	<i>Lobelia concolor</i>	-	C	-	-
Campanulaceae	<i>Wahlenbergia capillaris</i>	-	C	-	-
Campanulaceae	<i>Wahlenbergia ceracea</i>	-	C	-	-
Campanulaceae	<i>Wahlenbergia fluminalis</i>	River bluebell	C	-	-
Campanulaceae	<i>Wahlenbergia graniticola</i>	Granite bluebell	C	-	-
Campanulaceae	<i>Wahlenbergia littoricola</i>	-	C	-	-
Campanulaceae	<i>Wahlenbergia stricta</i>	-	C	-	-
Campanulaceae	<i>Wahlenbergia tumidifructa</i>	-	C	-	-
Capparaceae	<i>Capparis anomala</i>	-	C	-	-
Capparaceae	<i>Capparis lasiantha</i>	Nipan	C	-	-
Capparaceae	<i>Capparis loranthifolia</i>	-	C	-	-
Capparaceae	<i>Capparis mitchellii</i>	-	C	-	-
Caryophyllaceae	<i>Paronychia brasiliana</i>	Brazilian whitlow	-	-	Yes
Caryophyllaceae	<i>Petrorhagia dubia</i>	-	-	-	Yes
Casuarinaceae	<i>Allocasuarina inophloia</i>	-	C	-	-
Casuarinaceae	<i>Allocasuarina luehmannii</i>	Bull oak	C	-	-
Casuarinaceae	<i>Casuarina cristata</i>	Belah	C	-	-
Celastraceae	<i>Denhamia silvestris</i>	-	C	-	-
Celastraceae	<i>Elaeodendron australe</i>	-	C	-	-
Celastraceae	<i>Elaeodendron australe</i> var. <i>australe</i>	-	C	-	-
Celastraceae	<i>Elaeodendron australe</i> var. <i>integrifolium</i>	-	C	-	-
Celastraceae	<i>Elaeodendron melanocarpum</i>	-	C	-	-
Chenopodiaceae	<i>Dysphania carinata</i>	-	C	-	-
Chenopodiaceae	<i>Dysphania cristata</i>	-	C	-	-
Chenopodiaceae	<i>Dysphania melanocarpa</i>	-	C	-	-
Chenopodiaceae	<i>Einadia hastata</i>	-	C	-	-
Chenopodiaceae	<i>Einadia nutans</i>	-	C	-	-
Chenopodiaceae	<i>Einadia nutans</i> subsp. <i>linifolia</i>	-	C	-	-
Chenopodiaceae	<i>Enchylaena tomentosa</i>	-	C	-	-
Chenopodiaceae	<i>Maireana enchylaenoides</i>	-	C	-	-
Chenopodiaceae	<i>Maireana microphylla</i>	-	C	-	-
Chenopodiaceae	<i>Rhagodia parabolica</i>	-	C	-	-
Chenopodiaceae	<i>Rhagodia spinescens</i>	Thorny saltbush	C	-	-
Chenopodiaceae	<i>Salsola australis</i>	-	C	-	-
Chenopodiaceae	<i>Sclerolaena birchii</i>	Galvanised burr	C	-	-
Chenopodiaceae	<i>Sclerolaena deserticola</i>	-	C	-	-
Chenopodiaceae	<i>Sclerolaena muricata</i>	-	C	-	-
Chenopodiaceae	<i>Sclerolaena muricata</i> var. <i>villosa</i>	-	C	-	-
Chenopodiaceae	<i>Sclerolaena tetracuspis</i>	Brigalow burr	C	-	-
Chenopodiaceae	<i>Sclerolaena tricuspis</i>	Giant red burr	C	-	-
Commelinaceae	<i>Commelina diffusa</i>	Wandering jew	C	-	-
Commelinaceae	<i>Commelina lanceolata</i>	-	C	-	-
Commelinaceae	<i>Murdannia graminea</i>	Murdannia	C	-	-

Convolvulaceae	<i>Convolvulus graminetinus</i>	-	C	-	-
Convolvulaceae	<i>Dichondra repens</i>	Kidney weed	C	-	-
Convolvulaceae	<i>Evolvulus alsinoides</i>	-	C	-	-
Convolvulaceae	<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	-	C	-	-
Convolvulaceae	<i>Ipomoea purpurea</i>	Common morning glory	-	-	Yes
Crassulaceae	<i>Bryophyllum daigremontianum</i>	-	-	-	Yes
Crassulaceae	<i>Bryophyllum delagoense</i>	-	-	-	Yes
Cupressaceae	<i>Callitris endlicheri</i>	Black cypress pine	C	-	-
Cupressaceae	<i>Callitris glaucophylla</i>	White cypress pine	C	-	-
Cyperaceae	<i>Carex appressa</i>	-	C	-	-
Cyperaceae	<i>Cyperus bifax</i>	Western nutgrass	C	-	-
Cyperaceae	<i>Cyperus clarus</i>	-	V	-	-
Cyperaceae	<i>Cyperus exaltatus</i>	Tall flatsedge	C	-	-
Cyperaceae	<i>Cyperus fulvus</i>	-	C	-	-
Cyperaceae	<i>Cyperus gracilis</i>	-	C	-	-
Cyperaceae	<i>Eleocharis plana</i>	Ribbed spikerush	C	-	-
Cyperaceae	<i>Gahnia aspera</i>	-	C	-	-
Cyperaceae	<i>Scleria mackaviensis</i>	-	C	-	-
Dilleniaceae	<i>Hibbertia cistoidea</i>	-	C	-	-
Ericaceae	<i>Monotoca scoparia</i>	Prickly broom heath	C	-	-
Euphorbiaceae	<i>Euphorbia dallachyana</i>	-	C	-	-
Euphorbiaceae	<i>Euphorbia drummondii</i>	-	C	-	-
Fabaceae	<i>Cullen tenax</i>	Emu-foot	C	-	-
Fabaceae	<i>Daviesia genistifolia</i>	Broom bitter pea	C	-	-
Fabaceae	<i>Glycine clandestina</i>	-	C	-	-
Fabaceae	<i>Glycine latifolia</i>	-	C	-	-
Fabaceae	<i>Glycine tabacina</i>	Glycine pea	C	-	-
Fabaceae	<i>Glycine tomentella</i>	Woolly glycine	C	-	-
Fabaceae	<i>Indigofera baileyi</i>	-	C	-	-
Fabaceae	<i>Jacksonia scoparia</i>	-	C	-	-
Fabaceae	<i>Lotus australis</i>	Australian trefoil	C	-	-
Fabaceae	<i>Medicago lupulina</i>	Black medic	-	-	Yes
Fabaceae	<i>Medicago minima</i>	Small burr medic	-	-	Yes
Fabaceae	<i>Melilotus albus</i>	Sweet clover	-	-	Yes
Fabaceae	<i>Rhynchosia minima</i>	-	C	-	-
Fabaceae	<i>Swainsona galegifolia</i>	Smooth Darling pea	C	-	-
Fabaceae	<i>Swainsona oroboides</i>	Variable swainsona	C	-	-
Fabaceae	<i>Templetonia stenophylla</i>	Leafy templetonia	C	-	-
Fabaceae	<i>Vicia monantha</i>	-	-	-	Yes
Fabaceae	<i>Vicia sativa</i>	-	-	-	Yes
Fabaceae	<i>Vigna radiata</i>	-	C	-	-
Geraniaceae	<i>Erodium crinitum</i>	Blue crowfoot	C	-	-
Geraniaceae	<i>Geranium solanderi</i>	-	C	-	-
Goodeniaceae	<i>Goodenia glabra</i>	-	C	-	-
Goodeniaceae	<i>Goodenia rotundifolia</i>	-	C	-	-
Goodeniaceae	<i>Scaevola spinescens</i>	Prickly fan flower	C	-	-

Haloragaceae	<i>Haloragis aspera</i>	Raspweed	C	-	-
Hemerocallidaceae	<i>Dianella longifolia</i>	-	C	-	-
Hemerocallidaceae	<i>Dianella revoluta</i>	-	C	-	-
Hemerocallidaceae	<i>Geitonoplesium cymosum</i>	Scrambling lily	C	-	-
Juncaceae	<i>Juncus continuus</i>	-	C	-	-
Juncaceae	<i>Juncus usitatus</i>	-	C	-	-
Lamiaceae	<i>Coleus australis</i>	-	C	-	-
Lamiaceae	<i>Lamium amplexicaule</i>	Deadnettle	-	-	Yes
Lamiaceae	<i>Mentha satureioides</i>	Native pennyroyal	C	-	-
Lamiaceae	<i>Salvia reflexa</i>	-	-	-	Yes
Lamiaceae	<i>Stachys arvensis</i>	Stagger weed	-	-	Yes
Lamiaceae	<i>Teucrium junceum</i>	-	C	-	-
Lamiaceae	<i>Westringia parvifolia</i>	-	V	V	-
Laxmanniaceae	<i>Laxmannia gracilis</i>	Slender wire lily	C	-	-
Laxmanniaceae	<i>Lomandra confertifolia</i> subsp. <i>pallida</i>	-	C	-	-
Laxmanniaceae	<i>Lomandra filiformis</i>	-	C	-	-
Laxmanniaceae	<i>Lomandra leucocephala</i>	-	C	-	-
Laxmanniaceae	<i>Lomandra longifolia</i>	-	C	-	-
Laxmanniaceae	<i>Lomandra multiflora</i>	-	C	-	-
Loranthaceae	<i>Amyema cabbagei</i>	-	C	-	-
Loranthaceae	<i>Amyema congener</i> subsp. <i>congener</i>	-	C	-	-
Loranthaceae	<i>Amyema linophylla</i> subsp. <i>orientalis</i>	-	C	-	-
Loranthaceae	<i>Amyema quandang</i> var. <i>quandang</i>	-	C	-	-
Malvaceae	<i>Abutilon fraseri</i>	Dwarf lantern flower	C	-	-
Malvaceae	<i>Abutilon oxycarpum</i>	-	C	-	-
Malvaceae	<i>Anoda cristata</i>	Anoda weed	-	-	Yes
Malvaceae	<i>Hibiscus sturtii</i>	-	C	-	-
Malvaceae	<i>Hibiscus tridactylites</i>	-	C	-	-
Malvaceae	<i>Malva parviflora</i>	Small-flowered mallow	-	-	Yes
Malvaceae	<i>Malvastrum americanum</i>	-	-	-	Yes
Malvaceae	<i>Malvastrum americanum</i> var. <i>americanum</i>	-	-	-	Yes
Malvaceae	<i>Malvastrum coromandelianum</i>	Prickly malvastrum	-	-	Yes
Malvaceae	<i>Modiola caroliniana</i>	Red-flowered mallow	-	-	Yes
Malvaceae	<i>Sida Cordifolia</i>	-	-	-	Yes
Malvaceae	<i>Sida cunninghamii</i>	-	C	-	-
Malvaceae	<i>Sida fibulifera</i>	-	C	-	-
Malvaceae	<i>Sida hackettiana</i>	-	C	-	-
Malvaceae	<i>Sida rhombifolia</i>	-	-	-	Yes
Malvaceae	<i>Sida rohlenae</i>	-	C	-	-
Marsileaceae	<i>Marsilea drummondii</i>	Common nardoo	C	-	-
Marsileaceae	<i>Marsilea hirsuta</i>	Hairy nardoo	C	-	-
Mimosaceae	<i>Acacia concurrens</i>	-	C	-	-
Mimosaceae	<i>Acacia conferta</i>	-	C	-	-
Mimosaceae	<i>Acacia crassa</i>	-	C	-	-
Mimosaceae	<i>Acacia decora</i>	Pretty wattle	C	-	-
Mimosaceae	<i>Acacia excelsa</i>	-	C	-	-

Mimosaceae	<i>Acacia harpophylla</i>	Brigalow	C	-	-
Mimosaceae	<i>Acacia leiocalyx</i>	-	C	-	-
Mimosaceae	<i>Acacia maidenii</i>	Maiden's wattle	C	-	-
Mimosaceae	<i>Acacia neriifolia</i>	Pechey wattle	C	-	-
Mimosaceae	<i>Acacia omalophylla</i>	-	C	-	-
Mimosaceae	<i>Acacia oswaldii</i>	Miljee	C	-	-
Mimosaceae	<i>Acacia pendula</i>	Myall	C	-	-
Mimosaceae	<i>Acacia salicina</i>	Doolan	C	-	-
Mimosaceae	<i>Acacia shirleyi</i>	Lancewood	C	-	-
Mimosaceae	<i>Acacia stenophylla</i>	Belalie	C	-	-
Mimosaceae	<i>Neptunia gracilis</i>	-	C	-	-
Mimosaceae	<i>Vachellia farnesiana</i>	-	-	-	Yes
Molluginaceae	<i>Glinus lotoides</i>	Hairy carpet weed	C	-	-
Myrsinaceae	<i>Lysimachia arvensis</i>	-	-	-	Yes
Myrtaceae	<i>Angophora floribunda</i>	Rough-barked apple	C	-	-
Myrtaceae	<i>Angophora leiocarpa</i>	Rusty gum	C	-	-
Myrtaceae	<i>Angophora subvelutina</i>	-	C	-	-
Myrtaceae	<i>Calytrix longiflora</i>	Pink fringe myrtle	C	-	-
Myrtaceae	<i>Corymbia clarksoniana</i>	-	C	-	-
Myrtaceae	<i>Corymbia tessellaris</i>	Moreton Bay ash	C	-	-
Myrtaceae	<i>Corymbia trachyphloia</i>	-	C	-	-
Myrtaceae	<i>Eucalyptus albens</i>	White box	C	-	-
Myrtaceae	<i>Eucalyptus argophloia</i>	Queensland western white gum	V	V	-
Myrtaceae	<i>Eucalyptus camaldulensis</i>	-	C	-	-
Myrtaceae	<i>Eucalyptus chloroclada</i>	Baradine red gum	C	-	-
Myrtaceae	<i>Eucalyptus conica</i>	Inland grey box	C	-	-
Myrtaceae	<i>Eucalyptus crebra</i>	Narrow-leaved red ironbark	C	-	-
Myrtaceae	<i>Eucalyptus fibrosa</i>	-	C	-	-
Myrtaceae	<i>Eucalyptus fibrosa</i> subsp. <i>nubilis</i>	-	C	-	-
Myrtaceae	<i>Eucalyptus melanophloia</i>	-	C	-	-
Myrtaceae	<i>Eucalyptus moluccana</i>	Gum-topped box	C	-	-
Myrtaceae	<i>Eucalyptus orgadophila</i>	Mountain coolibah	C	-	-
Myrtaceae	<i>Eucalyptus populnea</i>	Poplar box	C	-	-
Myrtaceae	<i>Eucalyptus tereticornis</i>	-	C	-	-
Myrtaceae	<i>Eucalyptus tereticornis</i> subsp. <i>basaltica</i>	-	C	-	-
Myrtaceae	<i>Eucalyptus viridis</i>	-	C	-	-
Myrtaceae	<i>Eucalyptus woollsiana</i>	-	C	-	-
Myrtaceae	<i>Kunzea opposita</i> var. <i>opposita</i>	-	C	-	-
Myrtaceae	<i>Leptospermum brevipes</i>	-	C	-	-
Myrtaceae	<i>Leptospermum lamellatum</i>	-	C	-	-
Myrtaceae	<i>Leptospermum polygalifolium</i>	Tantoon	C	-	-
Myrtaceae	<i>Melaleuca densispicata</i>	-	C	-	-
Myrtaceae	<i>Melaleuca lanceolata</i>	-	C	-	-
Myrtaceae	<i>Melaleuca nodosa</i>	-	C	-	-
Myrtaceae	<i>Melaleuca trichostachya</i>	-	C	-	-

Nyctaginaceae	<i>Boerhavia dominii</i>	-	C	-	-
Oleaceae	<i>Jasminum dianthifolium</i>	-	C	-	-
Oleaceae	<i>Jasminum didymum</i>	-	C	-	-
Oleaceae	<i>Jasminum didymum</i> subsp. <i>lineare</i>	-	C	-	-
Oleaceae	<i>Jasminum simplicifolium</i> subsp. <i>australiense</i>	-	C	-	-
Oleaceae	<i>Notelaea microcarpa</i>	-	C	-	-
Oleaceae	<i>Olea europaea</i>	Common olive	-	-	Yes
Onagraceae	<i>Ludwigia peploides</i>	-	-	-	-
Orchidaceae	<i>Diuris tricolor</i>	-	C	-	-
Oxalidaceae	<i>Oxalis perennans</i>	-	C	-	-
Oxalidaceae	<i>Oxalis radicata</i>	-	C	-	-
Pentapetaceae	<i>Melhania oblongifolia</i>	-	C	-	-
Phyllanthaceae	<i>Breynia oblongifolia</i>	-	C	-	-
Phyllanthaceae	<i>Phyllanthus fuernrohrii</i>	-	C	-	-
Phyllanthaceae	<i>Phyllanthus maderaspatensis</i>	-	C	-	-
Phyllanthaceae	<i>Phyllanthus virgatus</i>	-	C	-	-
Phyllanthaceae	<i>Poranthera microphylla</i>	Small poranthera	C	-	-
Picrodendraceae	<i>Petalostigma pubescens</i>	Quinine tree	C	-	-
Pittosporaceae	<i>Auranticarpa rhombifolia</i>	-	C	-	-
Pittosporaceae	<i>Bursaria spinosa</i> subsp. <i>spinosa</i>	-	C	-	-
Pittosporaceae	<i>Pittosporum angustifolium</i>	-	C	-	-
Pittosporaceae	<i>Pittosporum spinescens</i>	-	C	-	-
Plantaginaceae	<i>Misopates orontium</i>	Lesser snapdragon	-	-	Yes
Plantaginaceae	<i>Plantago debilis</i>	Shade plantain	C	-	-
Plantaginaceae	<i>Plantago lanceolata</i>	-	-	-	Yes
Poaceae	<i>Alloteropsis semialata</i>	Cockatoo grass	C	-	-
Poaceae	<i>Ancistrachne uncinulata</i>	Hooky grass	C	-	-
Poaceae	<i>Anthosachne plurinervis</i>	-	C	-	-
Poaceae	<i>Aristida benthamii</i>	-	C	-	-
Poaceae	<i>Aristida calycina</i>	-	C	-	-
Poaceae	<i>Aristida caput-medusae</i>	-	C	-	-
Poaceae	<i>Aristida jerichoensis</i>	-	C	-	-
Poaceae	<i>Aristida latifolia</i>	Feathertop wiregrass	C	-	-
Poaceae	<i>Aristida leptopoda</i>	White speargrass	C	-	-
Poaceae	<i>Aristida queenslandica</i>	-	C	-	-
Poaceae	<i>Aristida ramosa</i>	Purple wiregrass	C	-	-
Poaceae	<i>Arundinella nepalensis</i>	Reedgrass	C	-	-
Poaceae	<i>Astrebla elymoides</i>	Hoop mitchell grass	C	-	-
Poaceae	<i>Austrostipa aristiglumis</i>	Plains grass	C	-	-
Poaceae	<i>Austrostipa scabra</i>	-	C	-	-
Poaceae	<i>Austrostipa verticillata</i>	Slender bamboo grass	C	-	-
Poaceae	<i>Bothriochloa biloba</i>	-	C	-	-
Poaceae	<i>Bothriochloa bladhii</i>	-	C	-	-
Poaceae	<i>Bothriochloa decipiens</i>	-	C	-	-
Poaceae	<i>Bothriochloa erianthoides</i>	Satintop grass	C	-	-

Poaceae	<i>Bothriochloa pertusa</i>	-	-	-	Yes
Poaceae	<i>Cenchrus ciliaris</i>	-	-	-	Yes
Poaceae	<i>Cenchrus clandestinus</i>	-	-	-	Yes
Poaceae	<i>Cenchrus longisetus</i>	-	-	-	Yes
Poaceae	<i>Chloris divaricata</i>	-	C	-	-
Poaceae	<i>Chloris gayana</i>	Rhodes grass	-	-	Yes
Poaceae	<i>Chloris truncata</i>	-	C	-	-
Poaceae	<i>Chloris ventricosa</i>	Tall chloris	C	-	-
Poaceae	<i>Chloris virgata</i>	Feathertop rhodes grass	-	-	Yes
Poaceae	<i>Chrysopogon fallax</i>	-	C	-	-
Poaceae	<i>Cleistochloa subjuncea</i>	-	C	-	-
Poaceae	<i>Cymbopogon refractus</i>	Barbed-wire grass	C	-	-
Poaceae	<i>Cynodon dactylon</i>	-	-	-	Yes
Poaceae	<i>Dactyloctenium radulans</i>	Button grass	C	-	-
Poaceae	<i>Dichanthium aristatum</i>	Angleton grass	-	-	Yes
Poaceae	<i>Dichanthium queenslandicum</i>	-	V	E	-
Poaceae	<i>Dichanthium sericeum</i>	-	C	-	-
Poaceae	<i>Digitaria brownii</i>	-	C	-	-
Poaceae	<i>Digitaria diminuta</i>	-	C	-	-
Poaceae	<i>Digitaria divaricatissima</i>	Spreading umbrella grass	C	-	-
Poaceae	<i>Digitaria porrecta</i>	-	NT	-	-
Poaceae	<i>Dinebra divaricatissima</i>	-	C	-	-
Poaceae	<i>Enneapogon avenaceus</i>	-	C	-	-
Poaceae	<i>Enteropogon acicularis</i>	Curly windmill grass	C	-	-
Poaceae	<i>Enteropogon ramosus</i>	-	C	-	-
Poaceae	<i>Entolasia marginata</i>	Bordered panic	C	-	-
Poaceae	<i>Entolasia minutifolia</i>	-	C	-	-
Poaceae	<i>Eragrostis brownii</i>	Brown's lovegrass	C	-	-
Poaceae	<i>Eragrostis cilianensis</i>	-	-	-	Yes
Poaceae	<i>Eragrostis curvula</i>	-	-	-	Yes
Poaceae	<i>Eragrostis lacunaria</i>	Purple lovegrass	C	-	-
Poaceae	<i>Eragrostis leptostachya</i>	-	C	-	-
Poaceae	<i>Eragrostis parviflora</i>	Weeping lovegrass	C	-	-
Poaceae	<i>Eragrostis sororia</i>	-	C	-	-
Poaceae	<i>Eragrostis spartinoides</i>	-	C	-	-
Poaceae	<i>Eragrostis trichophora</i>	-	-	-	Yes
Poaceae	<i>Eriochloa crebra</i>	Spring grass	C	-	-
Poaceae	<i>Eulalia aurea</i>	Silky browntop	C	-	-
Poaceae	<i>Heteropogon contortus</i>	Black speargrass	C	-	-
Poaceae	<i>Homopholis belsonii</i>	-	E	V	-
Poaceae	<i>Hordeum vulgare</i>	-	-	-	Yes
Poaceae	<i>Hyparrhenia hirta</i>	Coolati grass	-	-	Yes
Poaceae	<i>Leersia hexandra</i>	Swamp rice grass	C	-	-
Poaceae	<i>Leptochloa digitata</i>	-	C	-	-
Poaceae	<i>Megathyrsus maximus</i>	-	-	-	Yes
Poaceae	<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>	-	-	-	Yes

Poaceae	<i>Melinis repens</i>	Red natal grass	-	-	Yes
Poaceae	<i>Oplismenus imbecillis</i>	-	C	-	-
Poaceae	<i>Panicum decompositum</i>	-	C	-	-
Poaceae	<i>Panicum effusum</i>	-	C	-	-
Poaceae	<i>Panicum queenslandicum</i>	-	C	-	-
Poaceae	<i>Paspalidium caespitosum</i>	Brigalow grass	C	-	-
Poaceae	<i>Paspalidium distans</i>	Shotgrass	C	-	-
Poaceae	<i>Paspalidium gracile</i>	Slender panic	C	-	-
Poaceae	<i>Perotis rara</i>	Comet grass	C	-	-
Poaceae	<i>Phalaris paradoxa</i>	Paradoxa grass	-	-	Yes
Poaceae	<i>Phragmites australis</i>	Common reed	C	-	-
Poaceae	<i>Sarga leiocladum</i>	-	C	-	-
Poaceae	<i>Setaria incrassata</i>	-	-	-	Yes
Poaceae	<i>Setaria sphacelata</i>	-	-	-	Yes
Poaceae	<i>Setaria surgens</i>	-	C	-	-
Poaceae	<i>Sorghum bicolor</i>	Forage sorghum	-	-	Yes
Poaceae	<i>Sorghum halepense</i>	Johnson grass	-	-	Yes
Poaceae	<i>Sporobolus caroli</i>	Fairy grass	C	-	-
Poaceae	<i>Sporobolus creber</i>	-	C	-	-
Poaceae	<i>Themeda avenacea</i>	-	C	-	-
Poaceae	<i>Themeda triandra</i>	Kangaroo grass	C	-	-
Poaceae	<i>Thyridolepis xerophila</i>	-	C	-	-
Poaceae	<i>Tragus australianus</i>	Small burr grass	C	-	-
Poaceae	<i>Triodia scariosa</i>	-	C	-	-
Poaceae	<i>Triticum aestivum</i>	Wheat	-	-	Yes
Poaceae	<i>Urochloa mosambicensis</i>	Sabi grass	-	-	Yes
Poaceae	<i>Walwhalleya proluta</i>	-	C	-	-
Poaceae	<i>Walwhalleya subxerophila</i>	-	C	-	-
Polygonaceae	<i>Persicaria prostrata</i>	Creeping knotweed	C	-	-
Polygonaceae	<i>Polygonum aviculare</i>	Wireweed	-	-	Yes
Polygonaceae	<i>Polygonum plebeium</i>	Small knotweed	C	-	-
Polygonaceae	<i>Rumex brownii</i>	Swamp dock	C	-	-
Polygonaceae	<i>Rumex crispus</i>	Curled dock	-	-	Yes
Polygonaceae	<i>Rumex hypogaeus</i>	-	-	-	Yes
Portulacaceae	<i>Calandrinia pickeringii</i>	-	C	-	-
Portulacaceae	<i>Portulaca australis</i>	-	C	-	-
Portulacaceae	<i>Portulaca filifolia</i>	-	C	-	-
Portulacaceae	<i>Portulaca oleracea</i>	Pigweed	-	-	Yes
Portulacaceae	<i>Portulaca pilosa</i>	-	-	-	Yes
Proteaceae	<i>Xylomelum cunninghamianum</i>	-	C	-	-
Pteridaceae	<i>Cheilanthes brownii</i>	-	C	-	-
Pteridaceae	<i>Cheilanthes distans</i>	Bristly cloak fern	C	-	-
Pteridaceae	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	-	C	-	-
Rhamnaceae	<i>Alphitonia excelsa</i>	Soap tree	C	-	-
Rhamnaceae	<i>Cryptandra amara</i>	-	C	-	-
Rosaceae	<i>Pyracantha angustifolia</i>	-	-	-	Yes

Rubiaceae	<i>Asperula conferta</i>	-	C	-	-
Rubiaceae	<i>Knoxia sumatrensis</i>	-	C	-	-
Rubiaceae	<i>Pomax umbellata</i>	-	C	-	-
Rubiaceae	<i>Psydrax odorata</i>	-	C	-	-
Rubiaceae	<i>Psydrax odorata forma buxifolia</i>	-	C	-	-
Rubiaceae	<i>Psydrax oleifolia</i>	-	C	-	-
Rutaceae	<i>Boronia bipinnata</i>	Rock boronia	C	-	-
Rutaceae	<i>Citrus glauca</i>	-	C	-	-
Rutaceae	<i>Geijera parviflora</i>	Wilga	C	-	-
Rutaceae	<i>Geijera salicifolia</i>	Brush wilga	C	-	-
Santalaceae	<i>Choretrum candollei</i>	White sour bush	C	-	-
Santalaceae	<i>Santalum lanceolatum</i>	-	C	-	-
Sapindaceae	<i>Alectryon diversifolius</i>	Scrub boonaree	C	-	-
Sapindaceae	<i>Alectryon oleifolius</i> subsp. <i>elongatus</i>	-	C	-	-
Sapindaceae	<i>Atalaya hemiglauca</i>	-	C	-	-
Sapindaceae	<i>Dodonaea triangularis</i>	-	C	-	-
Sapindaceae	<i>Dodonaea viscosa</i>	-	C	-	-
Sapindaceae	<i>Dodonaea viscosa</i> subsp. <i>angustifolia</i>	-	C	-	-
Sapindaceae	<i>Dodonaea viscosa</i> subsp. <i>spatulata</i>	-	C	-	-
Scrophulariaceae	<i>Eremophila debilis</i>	Winter apple	C	-	-
Scrophulariaceae	<i>Eremophila deserti</i>	-	C	-	-
Scrophulariaceae	<i>Eremophila mitchellii</i>	-	C	-	-
Scrophulariaceae	<i>Myoporum acuminatum</i>	Coastal boobialla	C	-	-
Solanaceae	<i>Capsicum annuum</i> var. <i>glabriusculum</i>	-	-	-	Yes
Solanaceae	<i>Lycium ferocissimum</i>	African boxthorn	-	-	Yes
Solanaceae	<i>Physalis angulata</i>	-	-	-	Yes
Solanaceae	<i>Physalis lanceifolia</i>	-	-	-	Yes
Solanaceae	<i>Solanum americanum</i>	-	-	-	Yes
Solanaceae	<i>Solanum chenopodioides</i>	Whitetip nightshade	-	-	Yes
Solanaceae	<i>Solanum ellipticum</i>	Potato bush	C	-	-
Solanaceae	<i>Solanum esuriale</i>	Quena	C	-	-
Solanaceae	<i>Solanum ferocissimum</i>	-	C	-	-
Solanaceae	<i>Solanum nigrum</i>	-	-	-	Yes
Solanaceae	<i>Solanum parvifolium</i>	-	C	-	-
Solanaceae	<i>Solanum semiarmatum</i>	Prickly nightshade	C	-	-
Solanaceae	<i>Solanum stelligerum</i>	Devil's needles	C	-	-
Solanaceae	<i>Solanum tetrahectum</i>	-	C	-	-
Sterculiaceae	<i>Brachychiton populneus</i> subsp. <i>populneus</i>	-	C	-	-
Thymelaeaceae	<i>Pimelea linifolia</i>	-	C	-	-
Thymelaeaceae	<i>Pimelea neoanglica</i>	Poison pimelea	C	-	-
Thymelaeaceae	<i>Pimelea trichostachya</i>	Flaxweed	C	-	-
Ulmaceae	<i>Celtis sinensis</i>	Chinese elm	-	-	Yes
Verbenaceae	<i>Glandularia aristigera</i>	-	-	-	Yes
Verbenaceae	<i>Lantana montevidensis</i>	Creeping lantana	-	-	Yes
Verbenaceae	<i>Phyla canescens</i>	-	-	-	Yes
Verbenaceae	<i>Verbena gaudichaudii</i>	-	C	-	-

Verbenaceae	<i>Verbena litoralis</i>	Verbena	-	-	Yes
Viscaceae	<i>Korthalsella rubra</i> subsp. <i>rubra</i>	-	C	-	-
Vitaceae	<i>Clematicissus opaca</i>	-	C	-	-
Xanthorrhoeaceae	<i>Xanthorrhoea johnsonii</i>	-	C	-	-
Zygophyllaceae	<i>Tribulus micrococcus</i>	Yellow vine	C	-	-
Zygophyllaceae	<i>Tribulus minutus</i>	-	C	-	-
Zygophyllaceae	<i>Tribulus terrestris</i>	Caltrop	C	-	-
Zygophyllaceae	<i>Zygophyllum apiculatum</i>	Gall weed	C	-	-

APPENDIX

H

THREATENED FLORA RECORDS

Legend

-  Flora Study
-  Major Road (QSpatial, 2019)
- Spring Survey**
-  *Xerothamnella herbacea*

Suburb labels as per
Australian Bureau of Statistics (2011)

1:10,000 Scale at A3

0 100 200 300
m



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Aerial Imagery supplied by the State of Queensland (2017)



Legend

-  Flora Study
-  Major Road (QSpatial, 2019)
-  Major Watercourse (DNRME, 2020)

Post-Wet Survey

-  *Lepidium monolocoides*
-  *Westringia parvifolia*

Spring Survey

-  *Lepidium monolocoides*
-  *Westringia parvifolia*

Suburb labels as per
Australian Bureau of Statistics (2011)

1:30,000 Scale at A3

0 300 600 900
m



 Cardno

Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
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Map: NE30044-GS-069-Report_FloraEVNT.mxd 02
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Legend

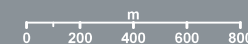
-  Flora Study
-  Major Road (QSpatial, 2019)
-  Major Watercourse (DNRME, 2020)

Post-Wet Survey

-  *Digitaria porrecta*
-  *Homopholis belsoni*

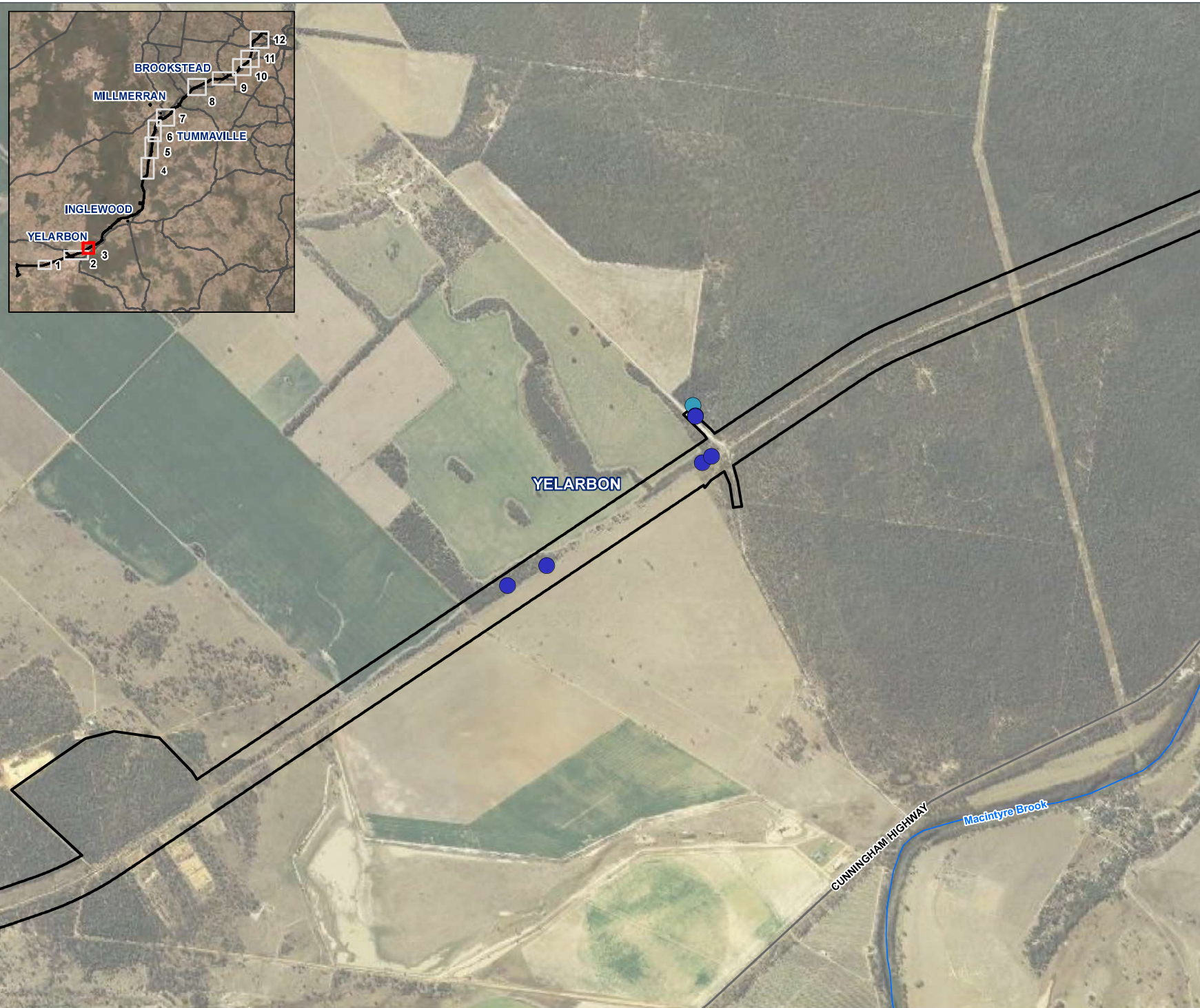
Suburb labels as per
Australian Bureau of Statistics (2011)

1:20,000 Scale at A3



 Cardno

Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
Date: 2021-05-21 | Project: NE30044
Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-009-Report_FloraEVNT.mxd 02
Aerial Imagery supplied by the State of Queensland (2017)





Legend

- Flora Study
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)

Post-Wet Survey

- Homopholis belsoni*

Suburb labels as per
Australian Bureau of Statistics (2011)

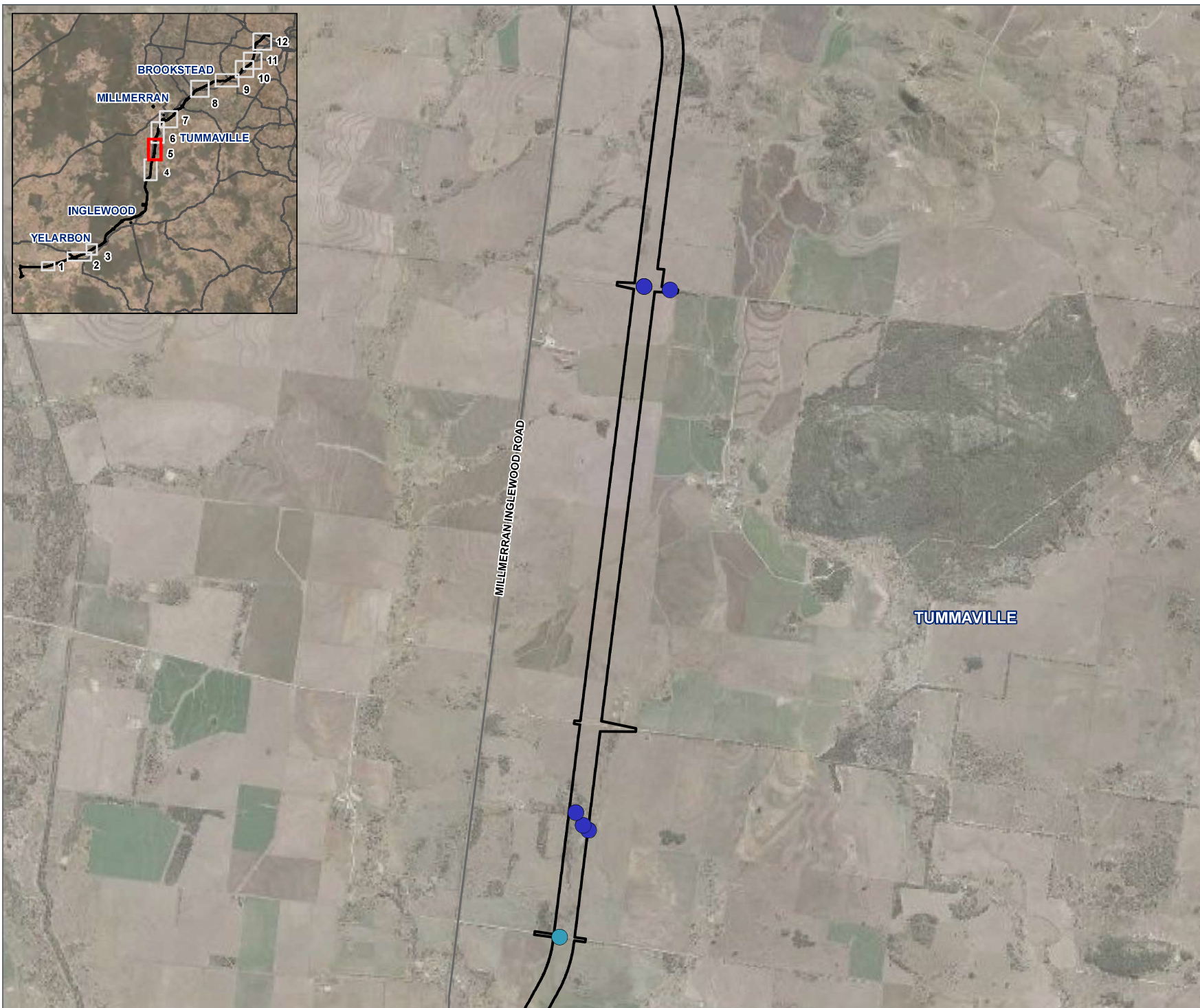
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m



Cardno

Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
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Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-069-Report_FloraEVNT.mxd 02
Aerial Imagery supplied by the State of Queensland (2017)



Legend

-  Flora Study
-  Major Road (QSpatial, 2019)
- Post-Wet Survey**
 -  *Digitaria porrecta*
 -  *Homopholis belsoni*

Suburb labels as per
Australian Bureau of Statistics (2011)

1:35,000 Scale at A3

0 400 800 1,200
m



 Cardno

Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
Date: 2021-05-21 | Project: NE30044
Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-069-Report_FloraEVNT.mxd 02
Aerial Imagery supplied by the State of Queensland (2017)



Legend

- Flora Study Area
- Major Road (QSpatial, 2019)
- Post-Wet Survey**
- Homopholis belsoni*

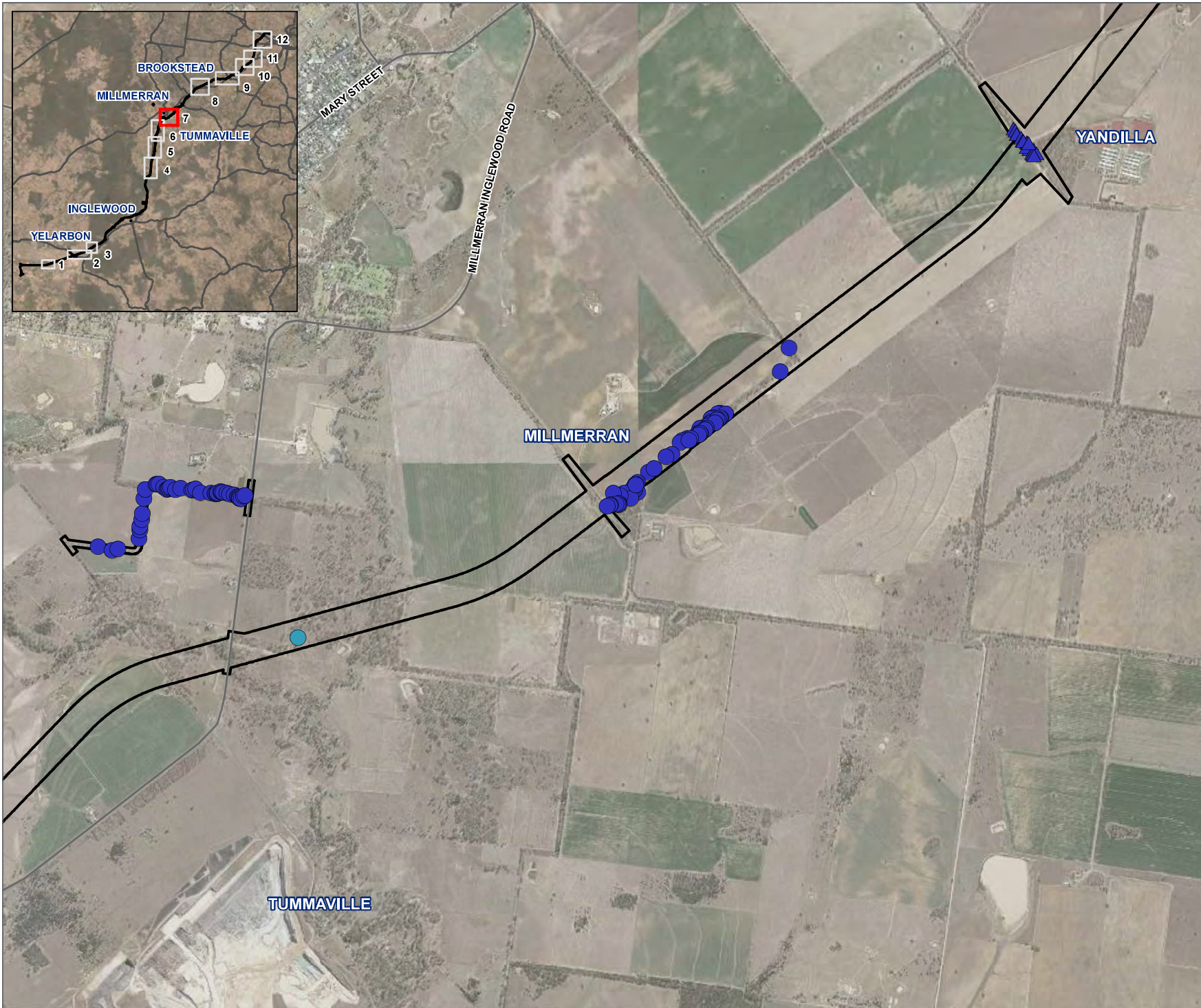
Suburb labels as per
Australian Bureau of Statistics (2011)

1:35,000 Scale at A3

0 400 800 1,200
m



Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
Date: 2021-05-21 | Project: NE30044
Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-069-Report_FloraEVNT.mxd 02
Aerial Imagery supplied by the State of Queensland (2017)



Legend

- Flora Study Area
- Major Road (QSpatial, 2019)

Post-Wet Survey

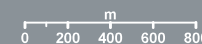
- Digitaria porrecta*
- Homopholis belsonii*

Geotech Survey

- Homopholis belsonii*

Suburb labels as per
Australian Bureau of Statistics (2011)

1:25,000 Scale at A3



Map Produced by Cardno NSW/ACT Pty Ltd (WOL)
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Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-069-Report_FloraEVNT.mxd 02
Aerial Imagery supplied by the State of Queensland (2017)

Legend

-  Flora Study Area
-  Major Road (QSpatial, 2019)
-  Major Watercourse (DNRME, 2020)

Post-Wet Survey

-  *Digitaria porrecta*

December Geotech Survey

-  *Picris barbarorum*

Spring Survey

-  *Digitaria porrecta*
-  *Picris barbarorum*

Suburb labels as per
Australian Bureau of Statistics (2011)

1:30,000 Scale at A3

0 300 600 900
m



 Cardno

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Date: 2021-05-21 | Project: NE30044
Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-009-Report_FloraEVNT.mxd 02
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Legend

- Flora Study
- Major Road (QSpatial, 2019)

Post-Wet Survey

- *Cyperus clarus*
- *Dichanthium queenslandicum*
- *Digitaria porrecta*
- *Picris barbarorum*
- *Rhaponticum australe*

Spring Survey

- *Picris barbarorum*
- *Picris evae*
- *Rhaponticum australe*

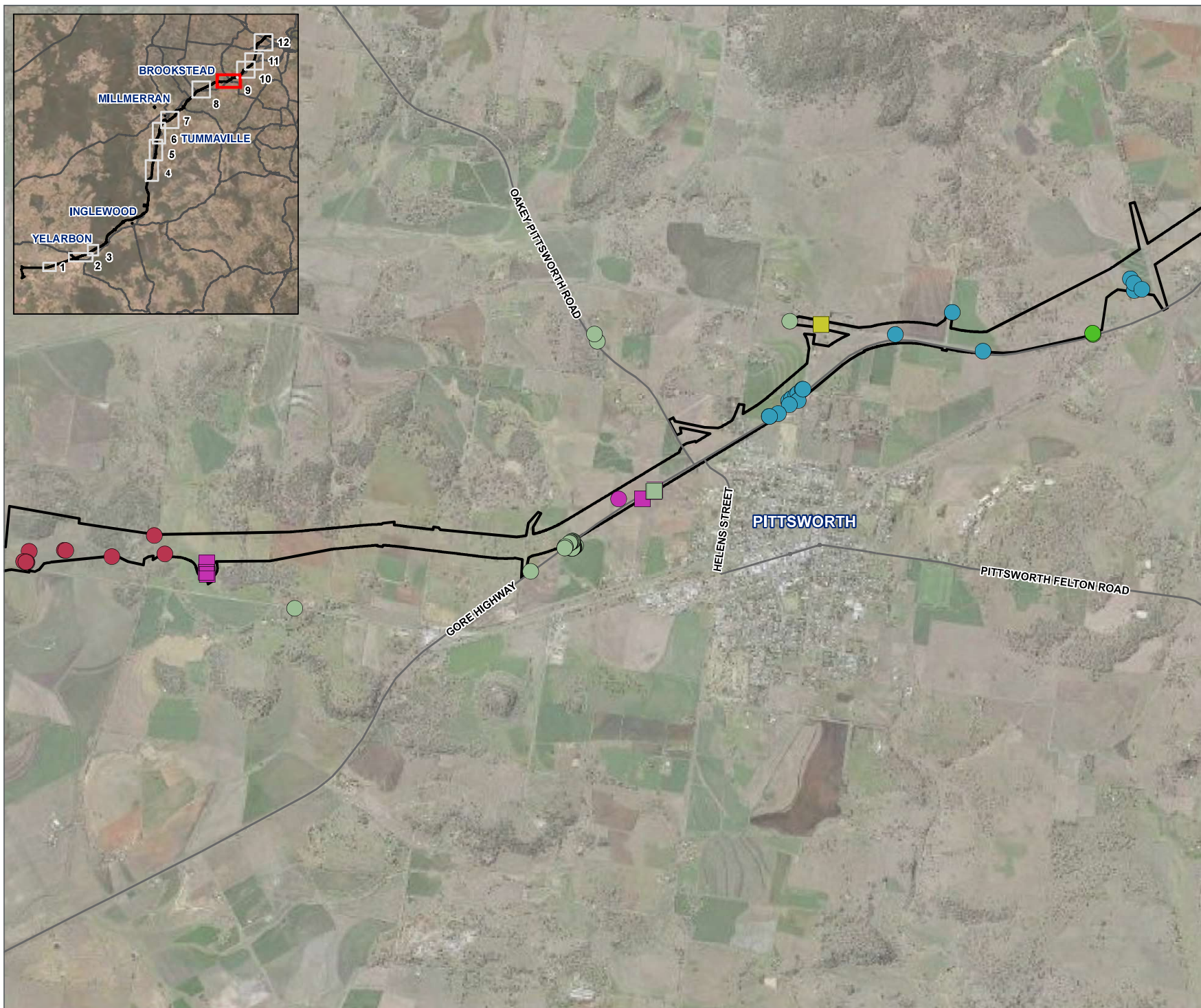
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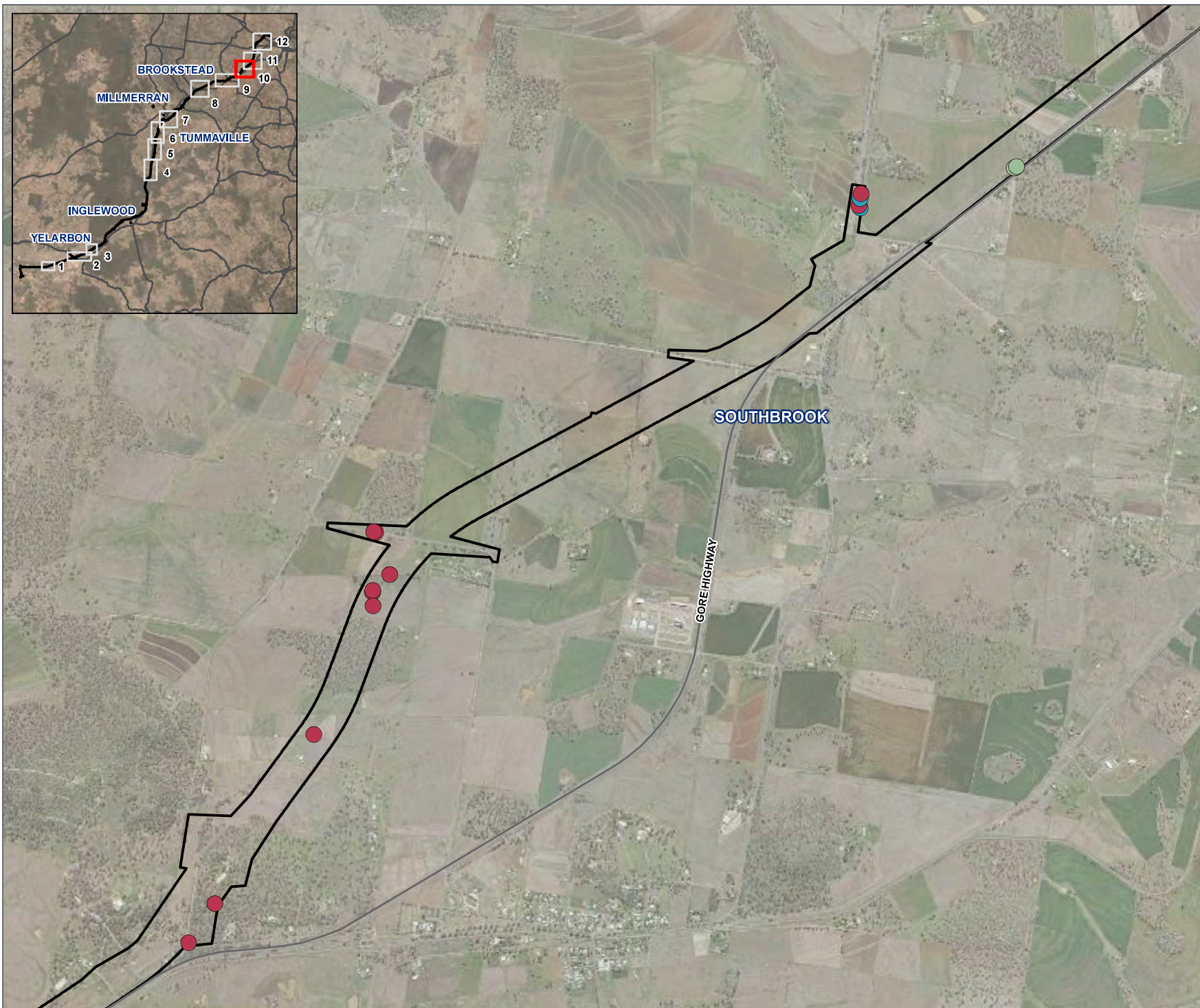
1:35,000 Scale at A3

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Map: NE30044-GS-069-Report_FloraEVNT.mxd 02
Aerial Imagery supplied by the State of Queensland (2017)





Legend

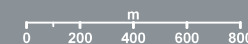
- Flora Study
- Major Road (QSpatial, 2019)

Post-Wet Survey

- Cyperus clarus*
- Digitaria porrecta*
- Rhaponticum australe*

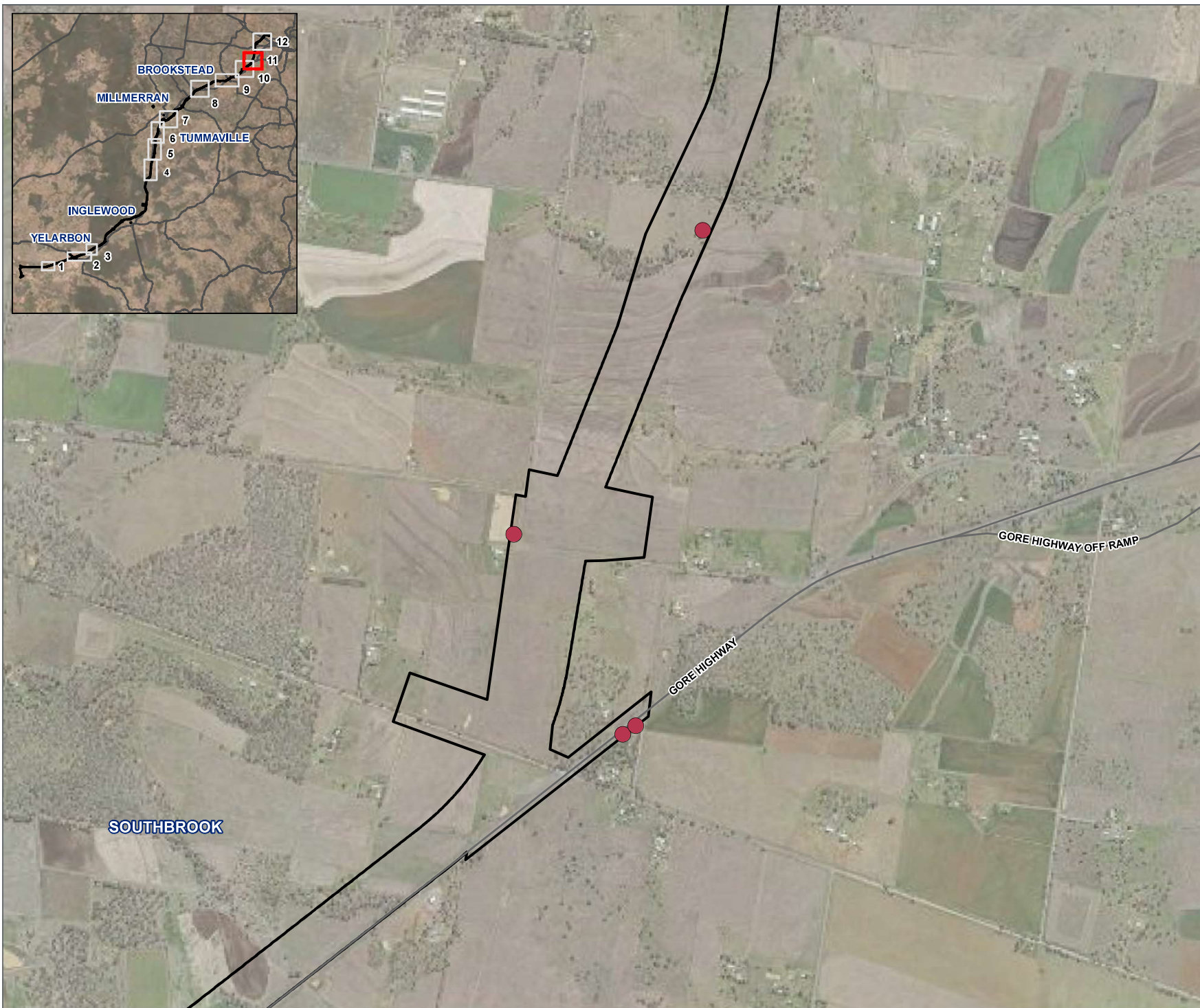
Suburb labels as per
Australian Bureau of Statistics (2011)

1:20,000 Scale at A3



Cardno

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Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-069-Report_FloraEVNT.mxd 02
Aerial Imagery supplied by the State of Queensland (2017)



Legend

- Flora Study
- Major Road (QSpatial, 2019)
- Post-Wet Survey
- Cyperus clarus*

Suburb labels as per
Australian Bureau of Statistics (2011)

1:15,000 Scale at A3

0 100 200 300 400
m



Cardno

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Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-069-Report_FloraEVNT.mxd 02
Aerial Imagery supplied by the State of Queensland (2017)



Legend

- Flora Study
- Major Road (QSpatial, 2019)
- Post-Wet Survey**
 - Cyperus clarus*
 - Digitaria porrecta*

Suburb labels as per
Australian Bureau of Statistics (2011)

1:35,000 Scale at A3

0 400 800 1,200
m



Cardno

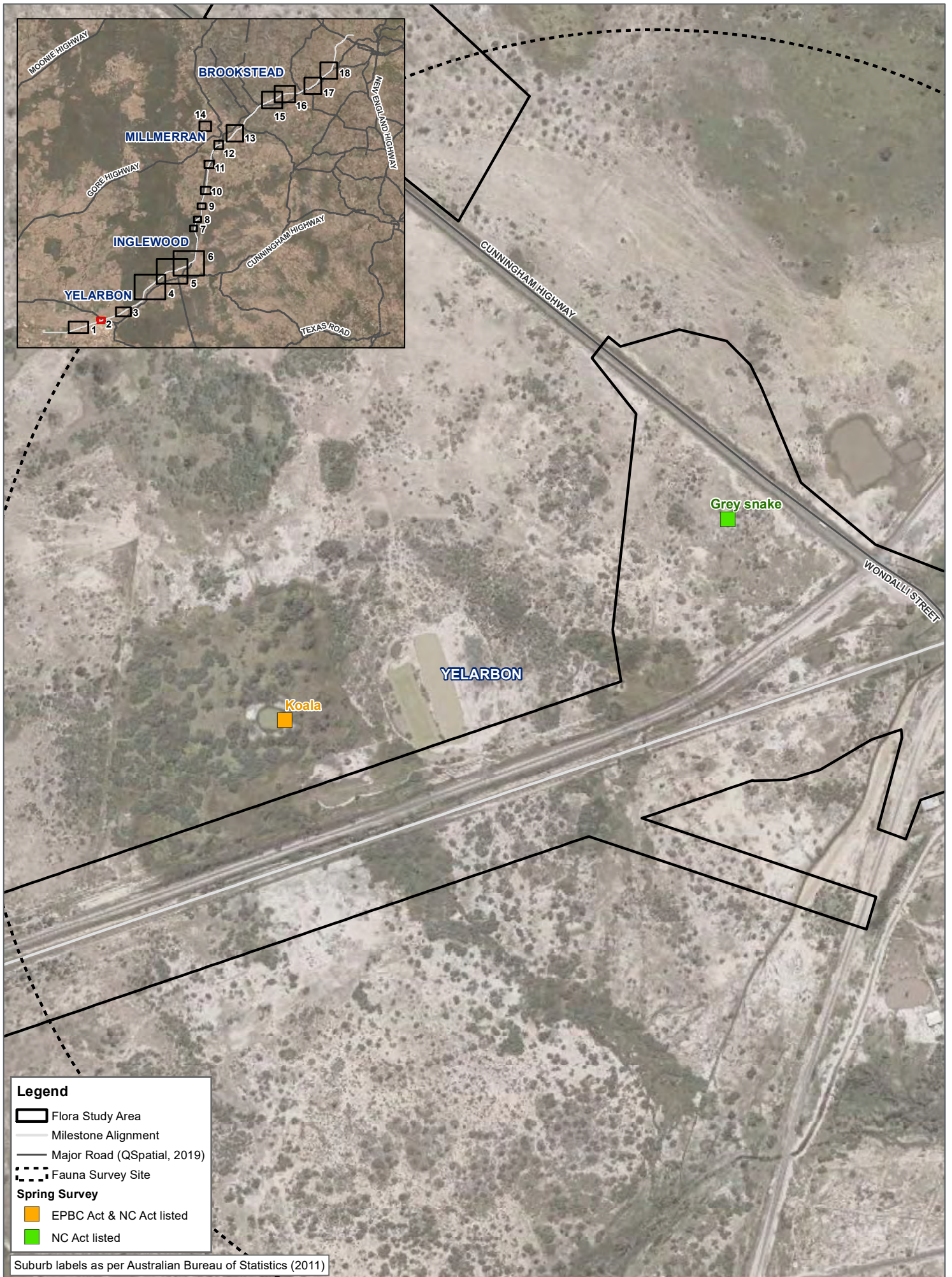
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Map: NE30044-GS-009-Report_FloraEVNT.mxd 02
Aerial Imagery supplied by the State of Queensland (2017)

APPENDIX

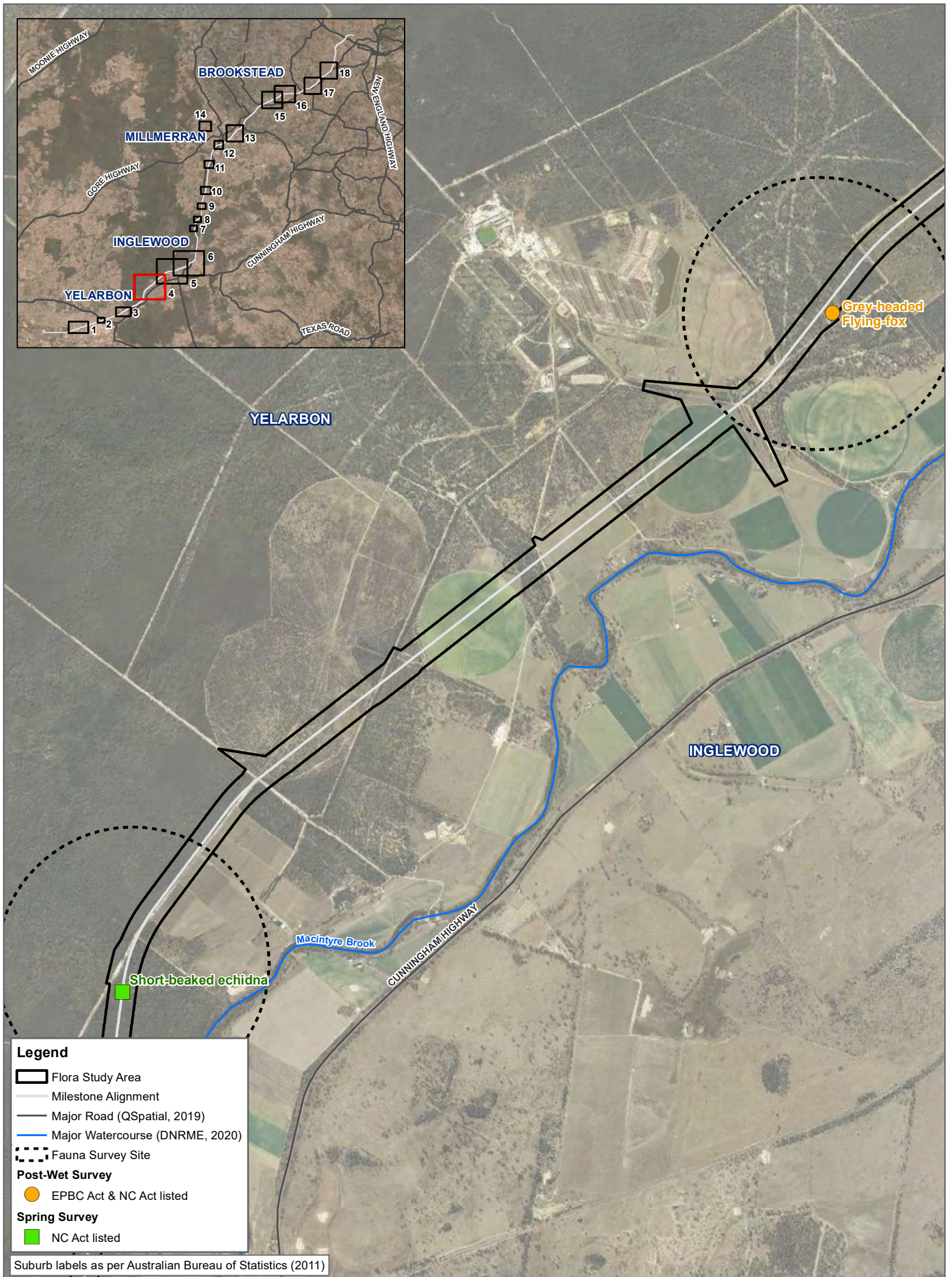
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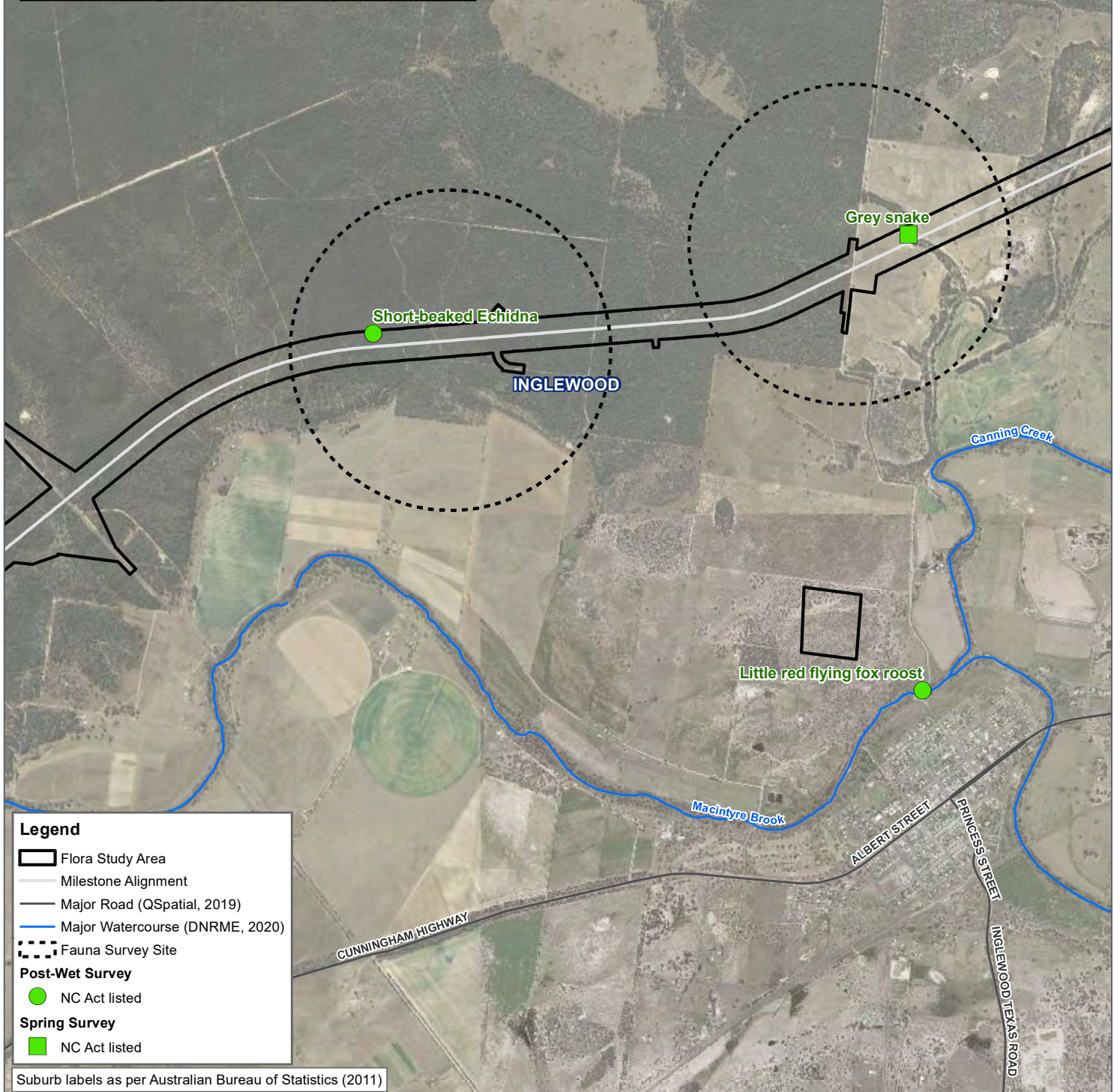
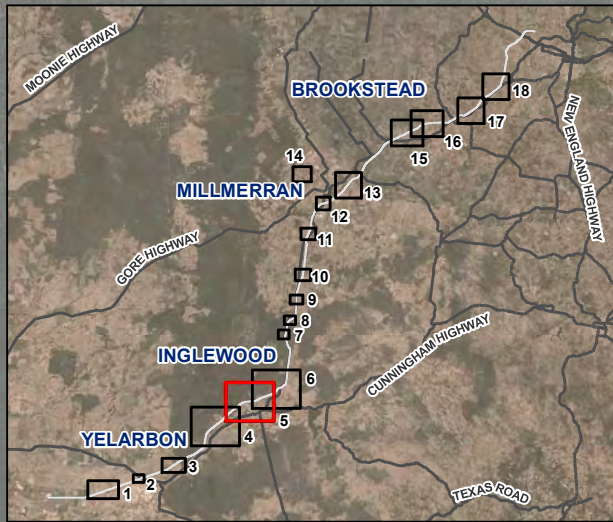
THREATENED FAUNA RECORDS











Legend

- Flora Study Area
- Milestone Alignment
- Major Road (QSpatial, 2019)
- Major Watercourse (DNRME, 2020)
- Fauna Survey Site
- Post-Wet Survey**
- NC Act listed
- Spring Survey**
- NC Act listed

Suburb labels as per Australian Bureau of Statistics (2011)

ARTC

FIGURE 1
1:25,000 Scale at A3
m
0 200 400 600

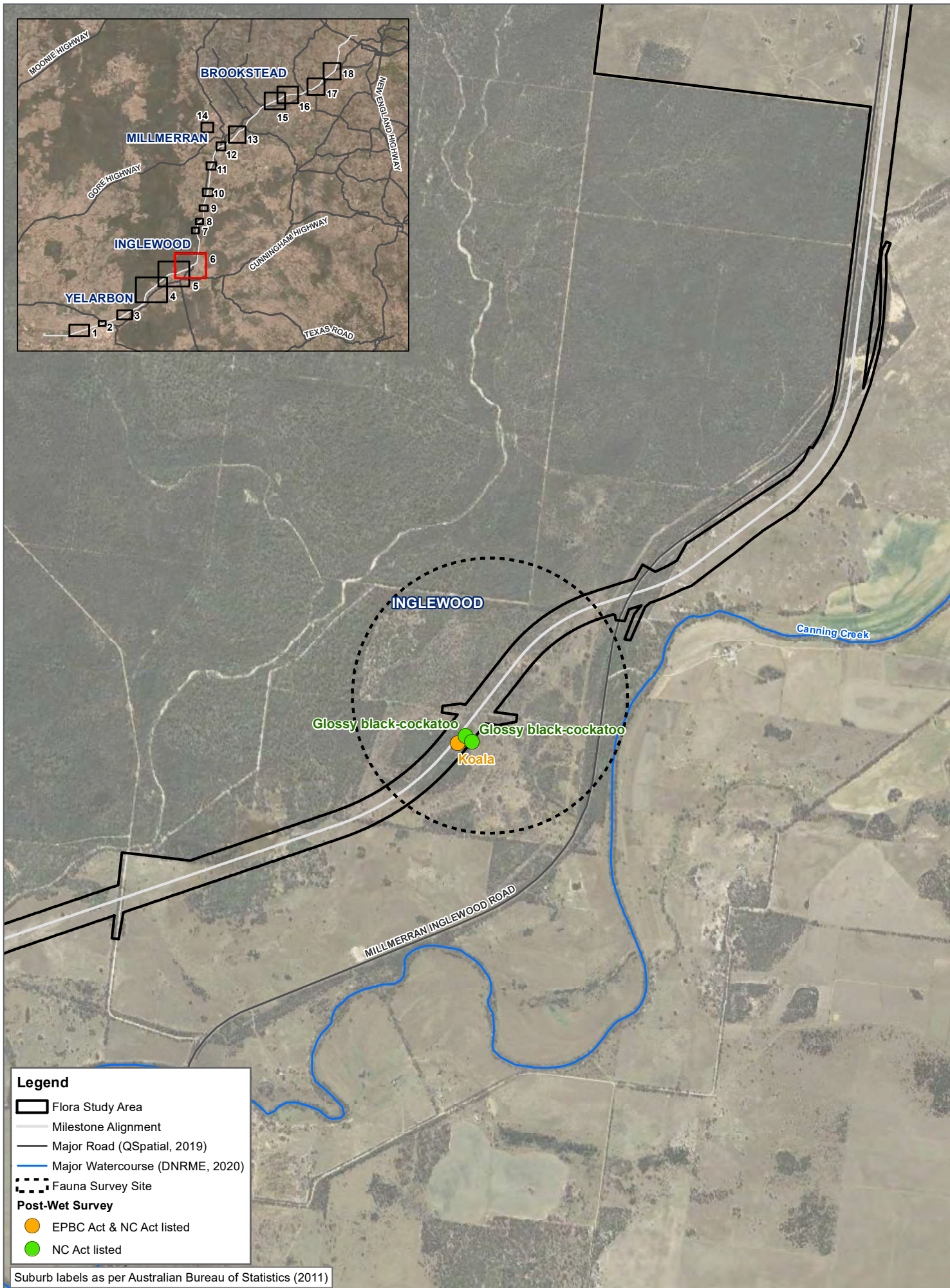
Fauna EVNT
Page 5

B2G TERRESTRIAL ECOLOGY SURVEY

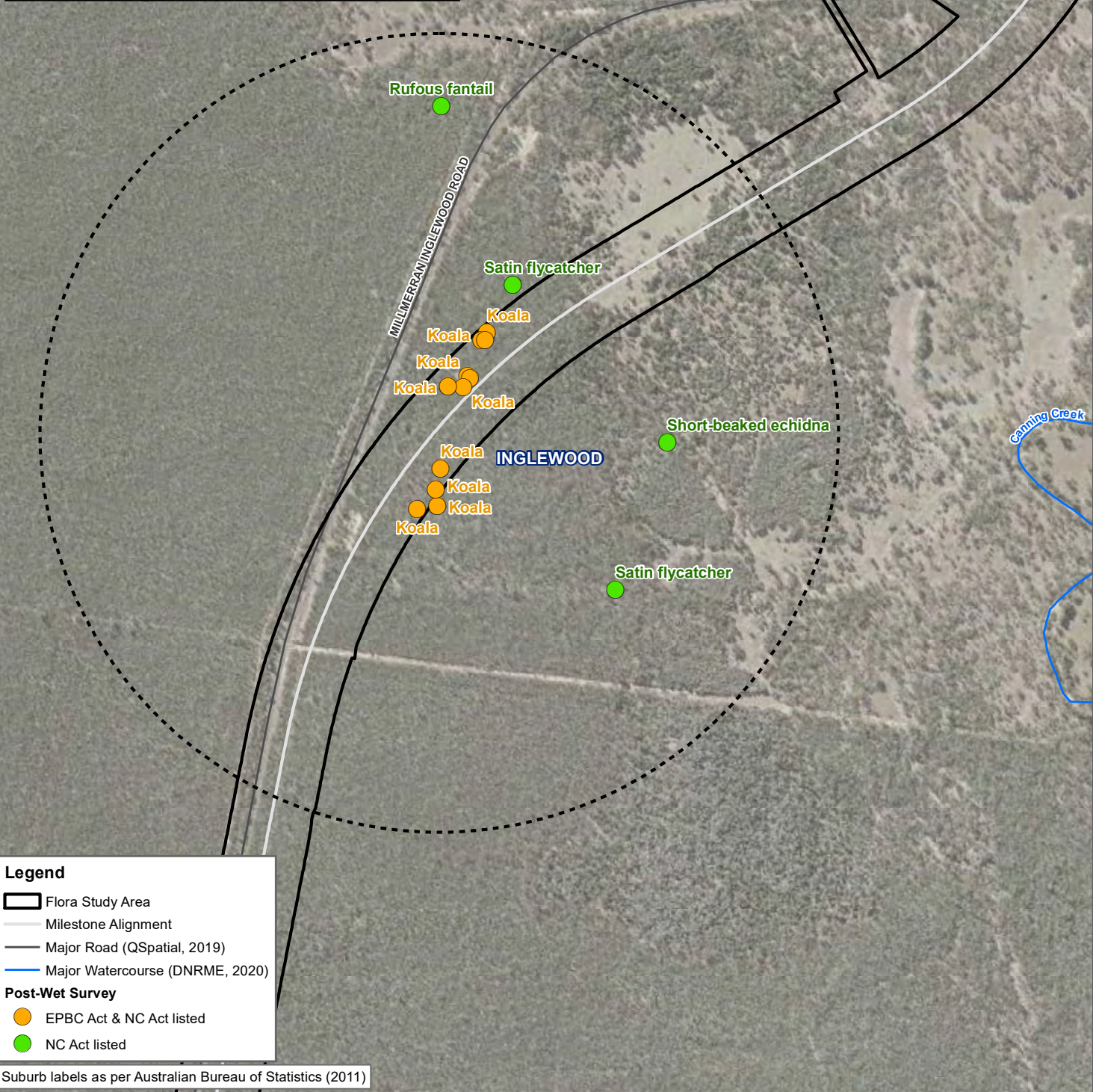
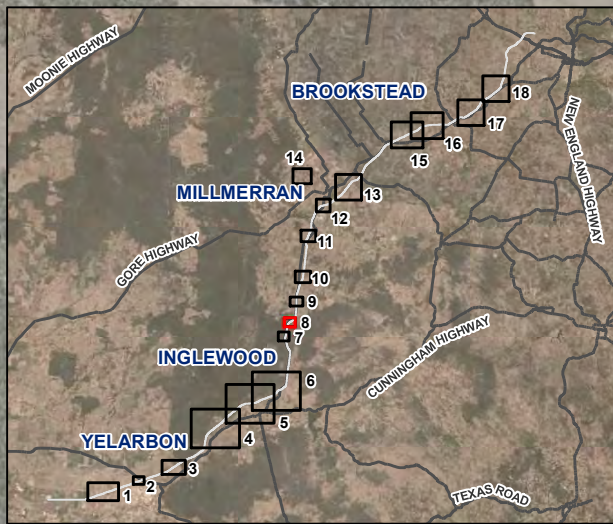


Cardno

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Date: 2021-05-21 | Project: NE30044
Coordinate System: GDA 1994 MGA Zone 56
Map: NE30044-GS-073-Report_FaunaEVNT.mxd 04
Aerial Imagery supplied by the State of Queensland (2017)

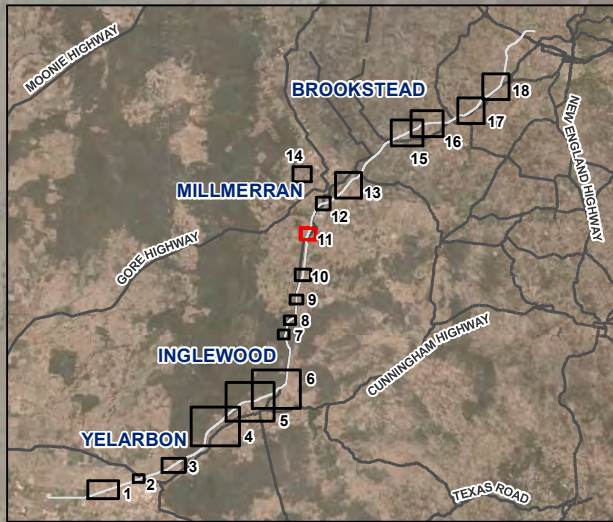












Glossy black-cockatoo



Legend

- Flora Study Area
- Milestone Alignment
- Major Road (QSpatial, 2019)
- Fauna Survey Site
- Post-Wet Survey**
- NC Act listed

Suburb labels as per Australian Bureau of Statistics (2011)

ARTC

FIGURE 1
1:5,000 Scale at A3

0 100
m

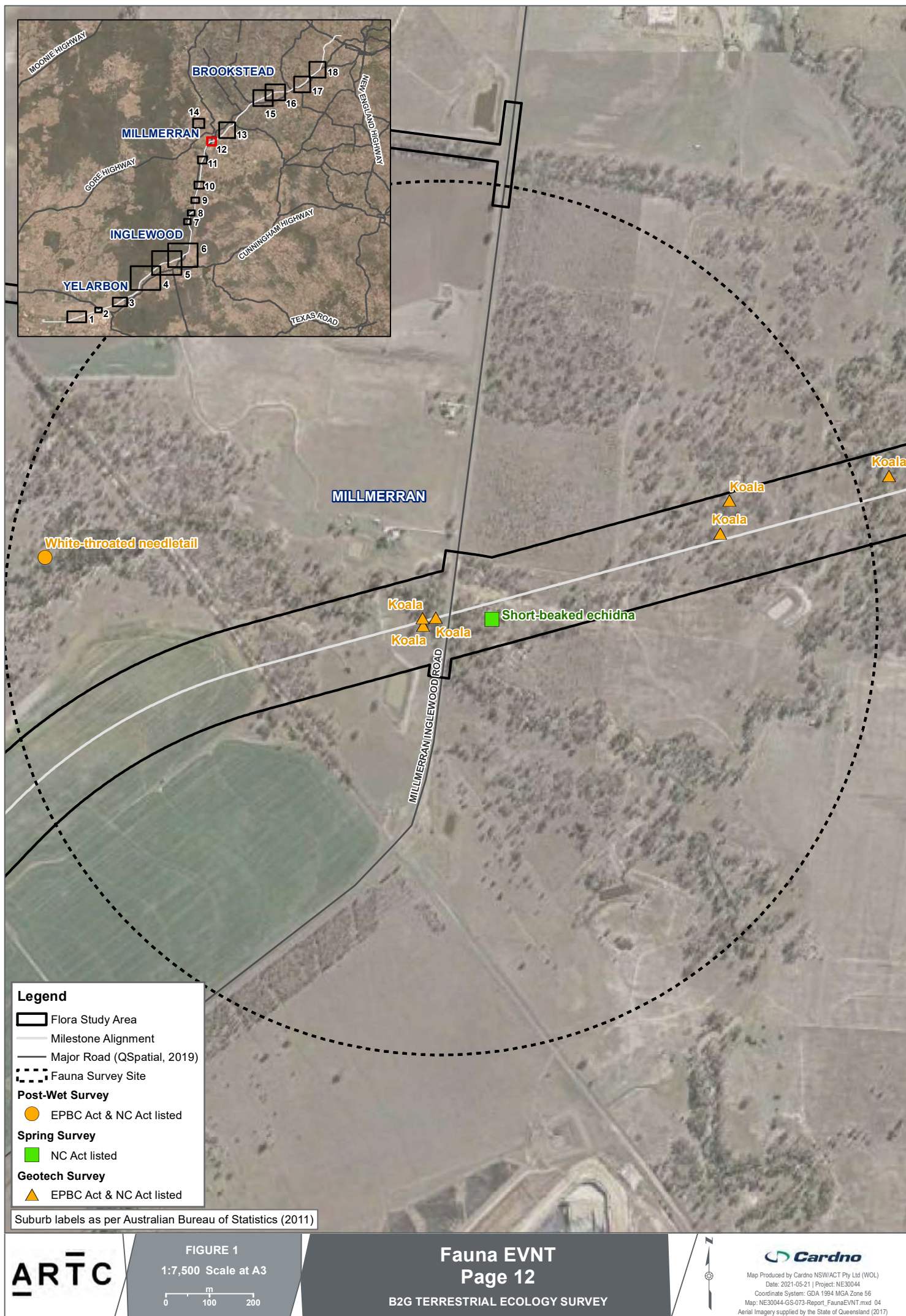
Fauna EVNT
Page 11

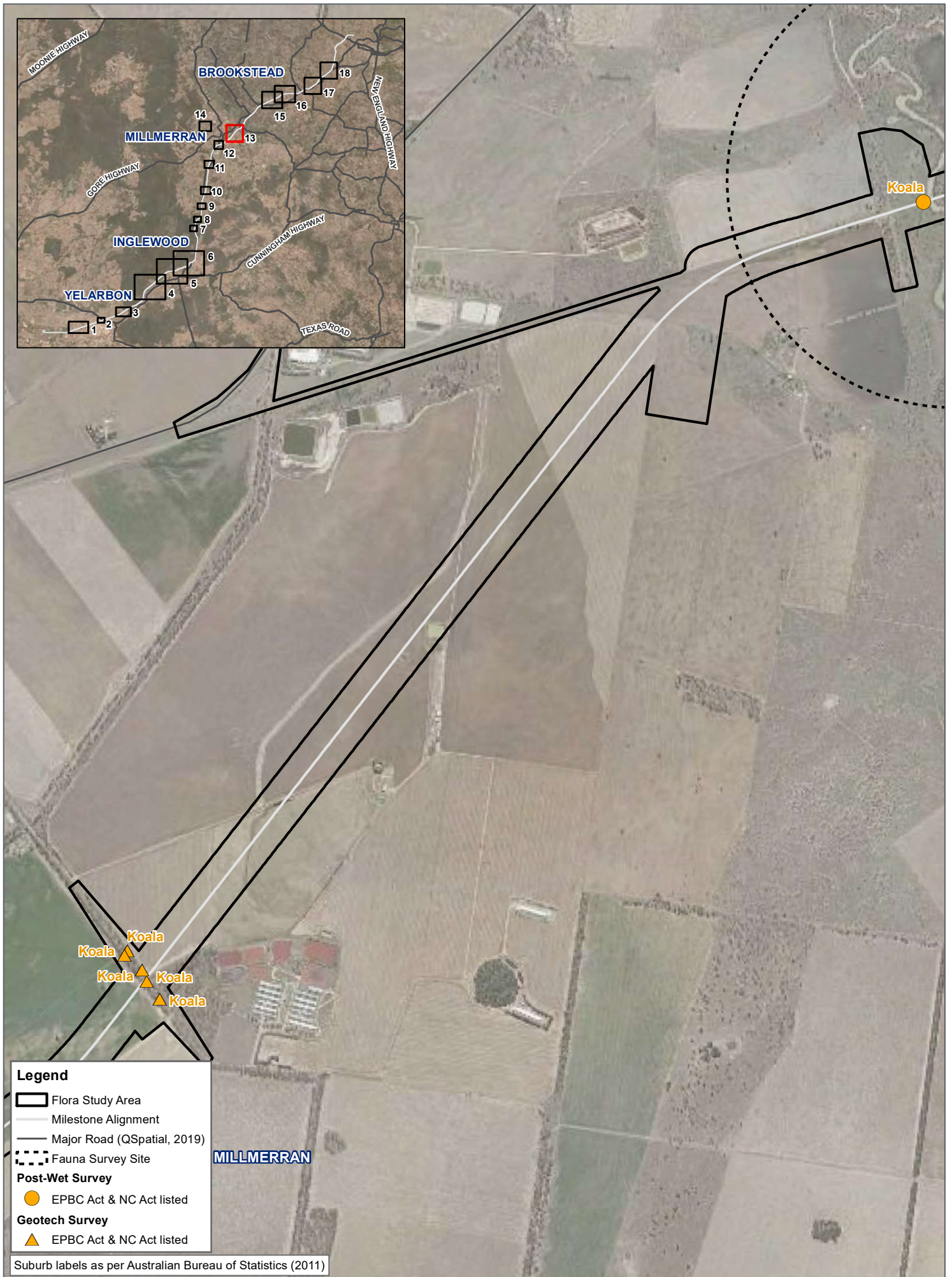
B2G TERRESTRIAL ECOLOGY SURVEY

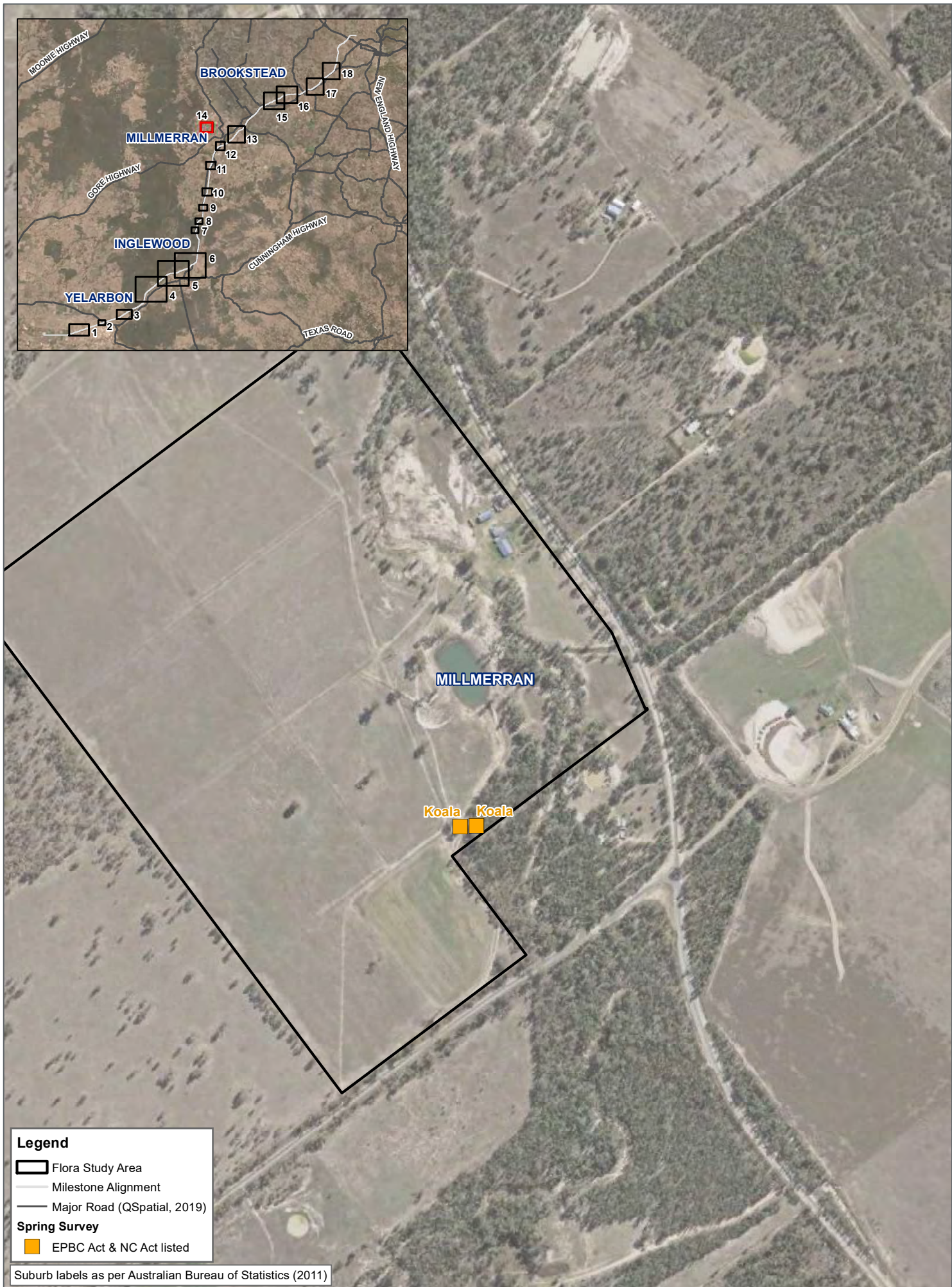


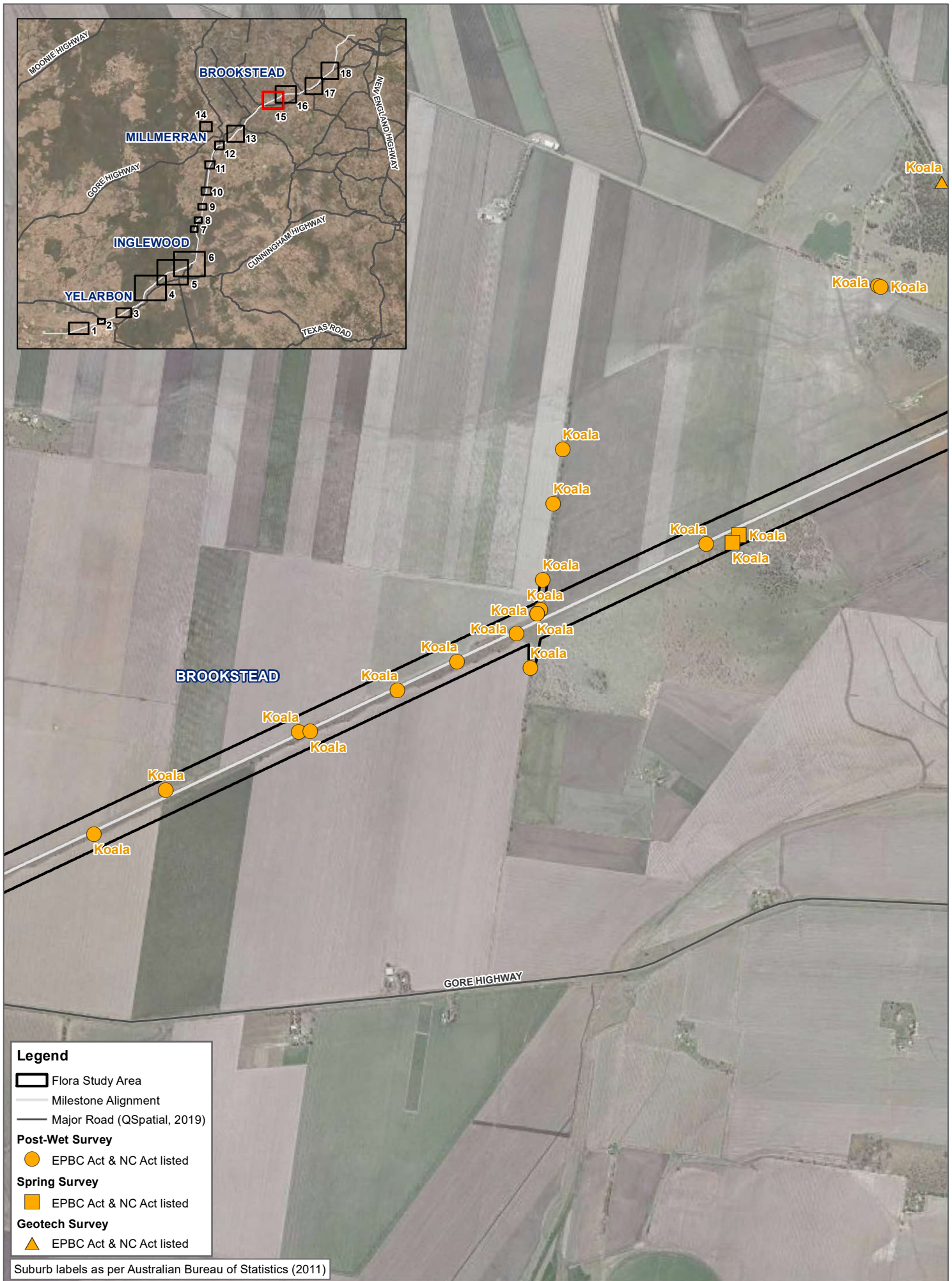
Cardno

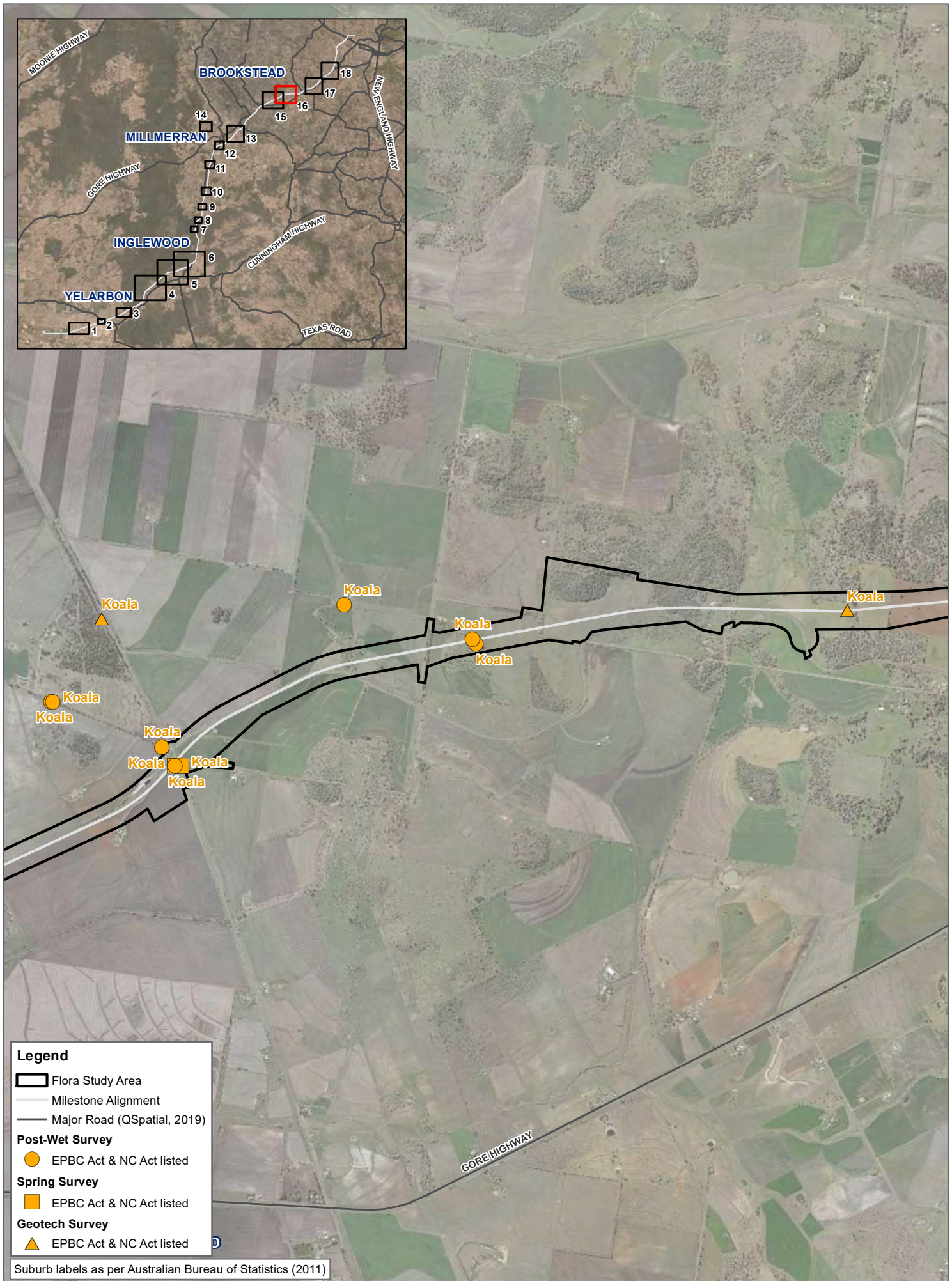
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Map: NE30044-GS-073-Report_FaunaEVNT.mxd 04
Aerial Imagery supplied by the State of Queensland (2017)

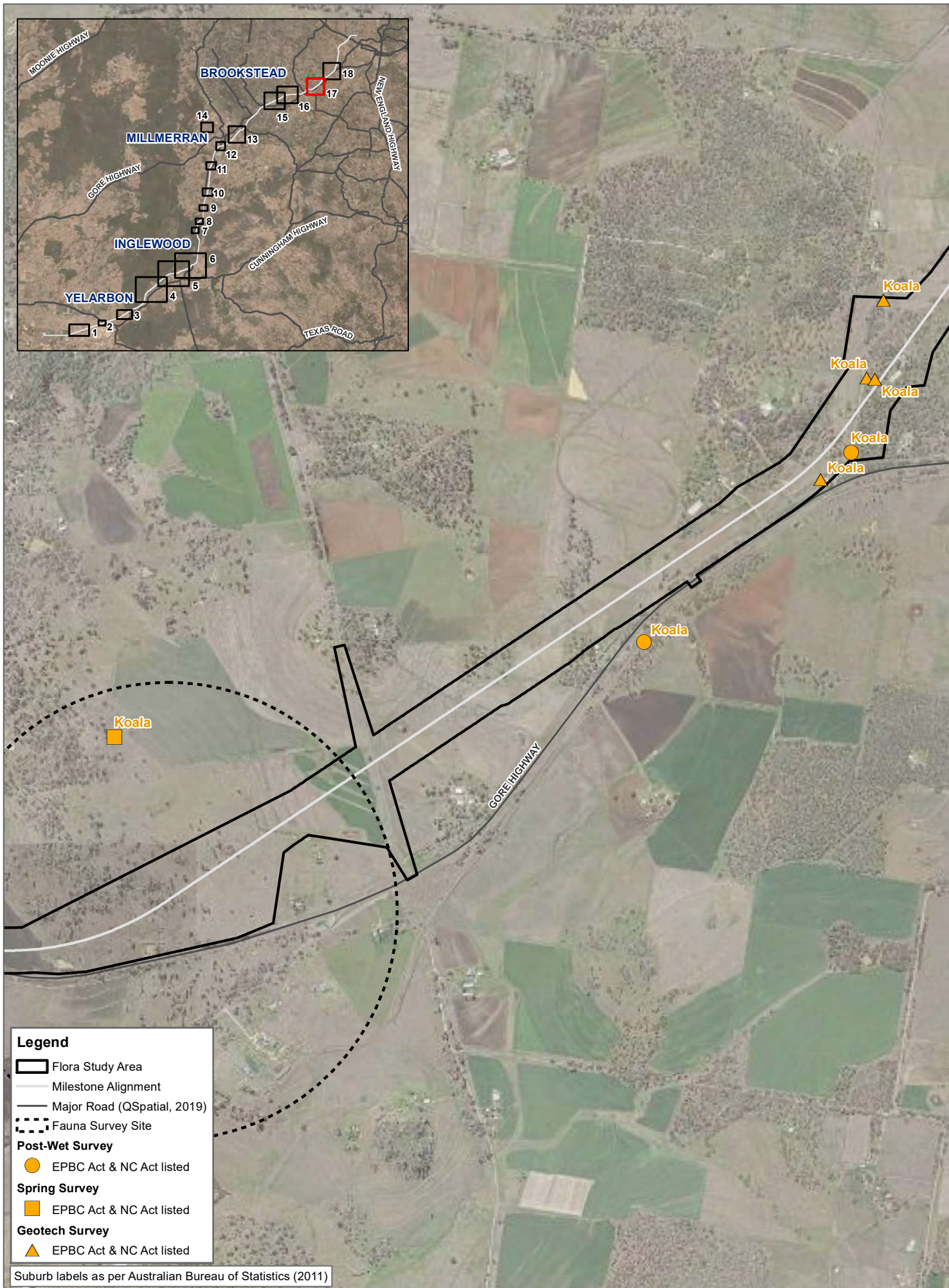


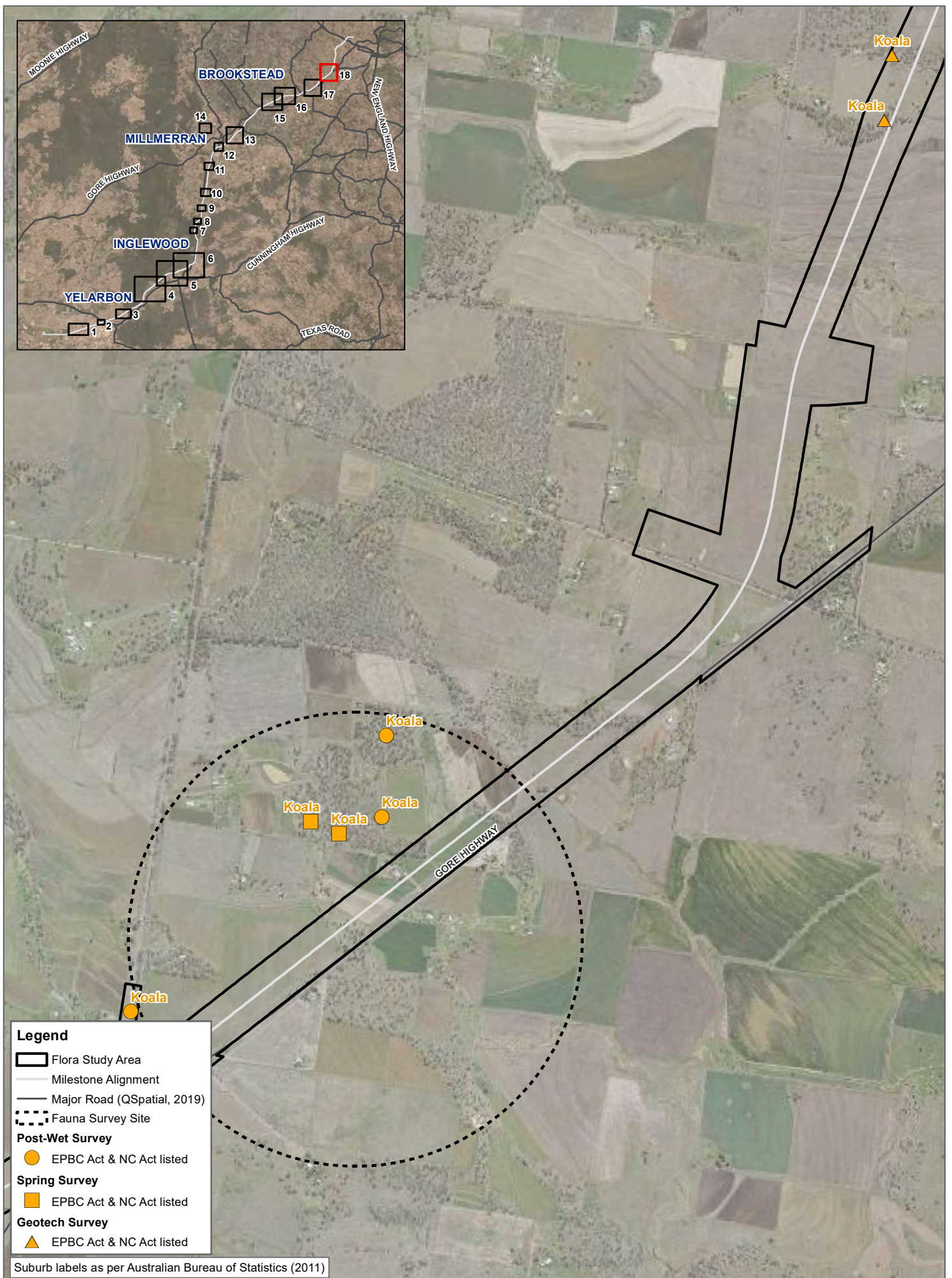
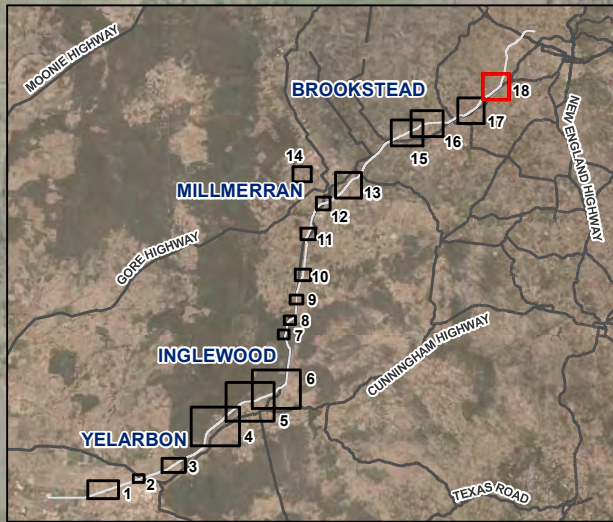












Legend

- Flora Study Area
- Milestone Alignment
- Major Road (QSpatial, 2019)
- Fauna Survey Site
- Post-Wet Survey**
 - EPBC Act & NC Act listed
- Spring Survey**
 - EPBC Act & NC Act listed
- Geotech Survey**
 - ▲ EPBC Act & NC Act listed

Suburb labels as per Australian Bureau of Statistics (2011)

APPENDIX

J

FAUNA SPECIES LIST

Class	Family	Scientific Name	Common Name	Nature Conservation Act 1992 Status	Environment Protection and Biodiversity Conservation Act 1999 Status	Exotic?	Environment Protection and Biodiversity Conservation Act 1999 Marine/Migratory (Ma/Mi)	Period observed
Amphibians	Hylidae	<i>Cyclorana albobuttata</i>	Green-striped burrowing frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Hylidae	<i>Cyclorana brevipes</i>	Short-footed frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Hylidae	<i>Cyclorana novaehollandiae</i>	Eastern snapping frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Hylidae	<i>Cyclorana verrucosa</i>	Rough collared frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Hylidae	<i>Litoria caerulea</i>	Green tree frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Hylidae	<i>Litoria latopalmata</i>	Broad-palmed rocket frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Hylidae	<i>Litoria nasuta</i>	Striped rocket frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Hylidae	<i>Litoria peronii</i>	Emerald-spotted tree frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Hylidae	<i>Litoria rubella</i>	Desert tree frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Hylidae	<i>Litoria wilcoxii</i>	Eastern stony creek frog	Least concern	-	-	-	Post-Wet
Amphibians	Hylidae	<i>Litoria fallax</i>	Eastern sedgefrog	Least concern	-	-	-	Spring
Amphibians	Limnodynastidae	<i>Limnodynastes tasmaniensis</i>	Spotted marsh frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Limnodynastidae	<i>Limnodynastes terraereginae</i>	Northern banjo frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Limnodynastidae	<i>Platyplectrum ornatum</i>	Ornate burrowing frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Limnodynastidae	<i>Limnodynastes dumerilii</i>	Eastern pobblebonk	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Limnodynastidae	<i>Limnodynastes salmini</i>	Salmon-striped frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Limnodynastidae	<i>Neobatrachus sudellae</i>	Sudell's frog	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Limnodynastidae	<i>Limnodynastes fletcheri</i>	Barking frog	Least concern	-	-	-	Spring
Amphibians	Limnodynastidae	<i>Limnodynastes peronii</i>	Striped marshfrog	Least concern	-	-	-	Spring
Amphibians	Myobatrachidae	<i>Crinia parinsignifera</i>	Beeping froglet	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Myobatrachidae	<i>Crinia signifera</i>	Clicking froglet	Least concern	-	-	-	Post-Wet
Amphibians	Myobatrachidae	<i>Uperoleia rugosa</i>	Chubby gungan	Least concern	-	-	-	Spring and Post-Wet
Amphibians	Myobatrachidae	<i>Uperoleia laevisgata</i>	Eastern gungan	Least concern	-	-	-	Spring
Birds	Acanthizidae	<i>Acanthiza apicalis</i>	Inland thornbill	Least concern	-	-	-	Spring and Post-Wet
Birds	Acanthizidae	<i>Acanthiza chrysorrhoa</i>	Yellow-rumped thornbill	Least concern	-	-	-	Post-Wet
Birds	Acanthizidae	<i>Acanthiza nana</i>	Yellow thornbill	Least concern	-	-	-	Spring and Post-Wet
Birds	Acanthizidae	<i>Acanthiza pusilla</i>	Brown thornbill	Least concern	-	-	-	Spring and Post-Wet
Birds	Acanthizidae	<i>Acanthiza reguloides</i>	Buff-rumped thornbill	Least concern	-	-	-	Spring and Post-Wet
Birds	Acanthizidae	<i>Gerygone olivacea</i>	White-throated gerygone	Least concern	-	-	-	Spring and Post-Wet
Birds	Acanthizidae	<i>Pyrholaemus sagittatus</i>	Speckled warbler	Least concern	-	-	-	Post-Wet
Birds	Acanthizidae	<i>Smicromis brevirostris</i>	Weebill	Least concern	-	-	-	Post-Wet
Birds	Acanthizidae	<i>Acanthiza lineata</i>	Striated thornbill	Least concern	-	-	-	Spring
Birds	Acanthizidae	<i>Gerygone fusca</i>	Western gerygone	Least concern	-	-	-	Spring
Birds	Accipitridae	<i>Elanus axillaris</i>	Black-shouldered kite	Least concern	-	-	-	Spring and Post-Wet
Birds	Accipitridae	<i>Haliastur spheonurus</i>	Whistling kite	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Accipitridae	<i>Milvus migrans</i>	Black kite	Least concern	-	-	-	Spring and Post-Wet
Birds	Accipitridae	<i>Haliaeetus leucogaster</i>	White-bellied sea-eagle	Least concern	-	-	Ma	Spring
Birds	Accipitridae	<i>Hieraaetus morphnoides</i>	Little eagle	Least concern	-	-	-	Spring
Birds	Acrocephalidae	<i>Acrocephalus australis</i>	Australian reed-warbler	Least concern	-	-	-	Spring
Birds	Aegothelidae	<i>Aegothales cristatus</i>	Australian owl-nightjar	Least concern	-	-	-	Spring and Post-Wet
Birds	Alaudidae	<i>Mirafra javanica</i>	Horsfield's bushlark	Least concern	-	-	-	Spring
Birds	Alcedinidae	<i>Dacelo novaeguineae</i>	Laughing kookaburra	Least concern	-	-	-	Spring and Post-Wet
Birds	Alcedinidae	<i>Ceyx azureus</i>	Azure kingfisher	Least concern	-	-	-	Spring
Birds	Anatidae	<i>Anas gracilis</i>	Grey teal	Least concern	-	-	-	Spring and Post-Wet
Birds	Anatidae	<i>Anas superciliosa</i>	Pacific black duck	Least concern	-	-	-	Spring and Post-Wet
Birds	Anatidae	<i>Chenonetta jubata</i>	Australian wood duck	Least concern	-	-	-	Spring and Post-Wet
Birds	Anatidae	<i>Dendrocygna eytoni</i>	Plumed whistling-duck	Least concern	-	-	-	Spring and Post-Wet
Birds	Anatidae	<i>Malacorhynchus membranaceus</i>	Pink-eared duck	Least concern	-	-	-	Post-Wet
Birds	Anhinga	<i>Anhinga novaehollandiae</i>	Australasian darter	Least concern	-	-	-	Post-Wet
Birds	Anseranatidae	<i>Anseranas semipalmata</i>	Maggie goose	Least concern	-	-	Ma	Spring
Birds	Apodidae	<i>Hirundapus caudacutus</i>	White-throated needletail	Vulnerable	Vulnerable	-	Ma, Mi	Spring and Post-Wet
Birds	Apodidae	<i>Collocalia esculenta</i>	Glossy swiftlet	Least concern	-	-	-	Spring
Birds	Ardeidae	<i>Ardea intermedia</i>	Intermediate egret	Least concern	-	-	Ma	Post-Wet
Birds	Ardeidae	<i>Ardea pacifica</i>	White-necked heron	Least concern	-	-	-	Spring and Post-Wet
Birds	Ardeidae	<i>Egretta novaehollandiae</i>	White-faced heron	Least concern	-	-	-	Spring and Post-Wet
Birds	Ardeidae	<i>Butorides striata</i>	Striated heron	Least concern	-	-	-	Spring
Birds	Artamidae	<i>Artamus leucorhynchus</i>	White-breasted woodswallow	Least concern	-	-	-	Spring and Post-Wet
Birds	Artamidae	<i>Cracticus nigrogularis</i>	Pied butcherbird	Least concern	-	-	-	Spring and Post-Wet
Birds	Artamidae	<i>Cracticus torquatus</i>	Grey butcherbird	Least concern	-	-	-	Spring and Post-Wet
Birds	Artamidae	<i>Gymnorhina tibicen</i>	Australian magpie	Least concern	-	-	-	Spring and Post-Wet
Birds	Artamidae	<i>Strepera graculina graculina</i>	Pied currawong (eastern Australia)	Least concern	-	-	-	Spring and Post-Wet

Birds	Artamidae	<i>Artamus minor</i>	Little woodswallow	Least concern	-	-	-	Spring
Birds	Artamidae	<i>Artamus personatus</i>	Masked woodswallow	Least concern	-	-	-	Spring
Birds	Cacatuidae	<i>Cacatua galerita</i>	Sulphur-crested cockatoo	Least concern	-	-	-	Spring and Post-Wet
Birds	Cacatuidae	<i>Cacatua sanguinea</i>	Little corella	Least concern	-	-	-	Spring and Post-Wet
Birds	Cacatuidae	<i>Calyptorhynchus lathami lathami</i>	Glossy black-cockatoo	Vulnerable	-	-	-	Post-Wet
Birds	Cacatuidae	<i>Eolophus roseicapilla</i>	Galah	Least concern	-	-	-	Spring and Post-Wet
Birds	Cacatuidae	<i>Nymphicus hollandicus</i>	Cockatiel	Least concern	-	-	-	Spring and Post-Wet
Birds	Campephagidae	<i>Coracina novaehollandiae</i>	Black-faced cuckoo-shrike	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Casuaridae	<i>Dromaius novaehollandiae</i>	Emu	Least concern	-	-	-	Spring and Post-Wet
Birds	Centropodidae	<i>Centropus phasianinus</i>	Pheasant coucal	Least concern	-	-	-	Spring and Post-Wet
Birds	Charadriidae	<i>Euseyonis melanops</i>	Black-fronted dotterel	Least concern	-	-	-	Spring and Post-Wet
Birds	Charadriidae	<i>Vanellus miles novaehollandiae</i>	Masked lapwing	Least concern	-	-	-	Spring and Post-Wet
Birds	Cisticolidae	<i>Cisticola exilis</i>	Golden-headed cisticola	Least concern	-	-	-	Spring and Post-Wet
Birds	Climacteridae	<i>Climacteris picumnus picumnus</i>	Brown treecreeper	Least concern	-	-	-	Spring and Post-Wet
Birds	Climacteridae	<i>Cormobates leucophaea metastasis</i>	White-throated treecreeper	Least concern	-	-	-	Spring and Post-Wet
Birds	Columbidae	<i>Columba livia</i>	Feral pigeon	-	-	Yes	-	Spring and Post-Wet
Birds	Columbidae	<i>Geopelia cuneata</i>	Diamond dove	Least concern	-	-	-	Spring and Post-Wet
Birds	Columbidae	<i>Geopelia humeralis</i>	Bar-shouldered dove	Least concern	-	-	-	Spring and Post-Wet
Birds	Columbidae	<i>Geopelia striata</i>	Peaceful dove	Least concern	-	-	-	Spring and Post-Wet
Birds	Columbidae	<i>Ocyphaps lophotes</i>	Crested pigeon	Least concern	-	-	-	Spring and Post-Wet
Birds	Columbidae	<i>Phaps chalcoptera</i>	Common bronzewing	Least concern	-	-	-	Spring and Post-Wet
Birds	Columbidae	<i>Streptopelia chinensis</i>	Spotted dove	-	-	Yes	-	Spring and Post-Wet
Birds	Columbidae	<i>Phaps elegans</i>	Brush bronzewing	Least concern	-	-	-	Spring
Birds	Coraciidae	<i>Eurystomus orientalis</i>	Dollarbird	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Corcoracidae	<i>Corcorax melanorhamphos</i>	White-winged cough	Least concern	-	-	-	Spring and Post-Wet
Birds	Corvidae	<i>Corvus coronoides</i>	Australian raven	Least concern	-	-	-	Spring and Post-Wet
Birds	Corvidae	<i>Corvus orru</i>	Torresian crow	Least concern	-	-	-	Spring and Post-Wet
Birds	Corvidae	<i>Struthidea cinerea</i>	Apostlebird	Least concern	-	-	-	Spring and Post-Wet
Birds	Cuculidae	<i>Eudynamis orientalis</i>	Eastern koel	Least concern	-	-	-	Spring and Post-Wet
Birds	Cuculidae	<i>Cacomantis variolosus</i>	Brush cuckoo	Least concern	-	-	-	Spring
Birds	Cuculidae	<i>Chalcites basalis</i>	Horsfield's bronze-cuckoo	Least concern	-	-	-	Spring
Birds	Cuculidae	<i>Chalcites osculans</i>	Black-eared cuckoo	Least concern	-	-	-	Spring
Birds	Cuculidae	<i>Scythrops novaehollandiae</i>	Channel-billed cuckoo	Least concern	-	-	Ma	Spring
Birds	Dicruridae	<i>Dicrurus bracteatus bracteatus</i>	Spangled drongo	Least concern	-	-	-	Post-Wet
Birds	Estrildidae	<i>Lonchura castaneothorax</i>	Chestnut-breasted mannikin	Least concern	-	-	-	Post-Wet
Birds	Estrildidae	<i>Taeniopygia bichenovii</i>	Double-barred finch	Least concern	-	-	-	Spring and Post-Wet
Birds	Estrildidae	<i>Taeniopygia guttata</i>	Zebra finch	Least concern	-	-	-	Spring and Post-Wet
Birds	Eurostopodidae	<i>Eurostopodus mystacalis</i>	White-throated nightjar	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Falconidae	<i>Falco berigora</i>	Brown falcon	Least concern	-	-	-	Spring and Post-Wet
Birds	Falconidae	<i>Falco cenchroides</i>	Nankeen kestrel	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Falconidae	<i>Falco longipennis</i>	Australian hobby	Least concern	-	-	-	Post-Wet
Birds	Falconidae	<i>Falco peregrinus</i>	Peregrine falcon	Least concern	-	-	-	Post-Wet
Birds	Falconidae	<i>Falco subniger</i>	Black falcon	Least concern	-	-	-	Spring and Post-Wet
Birds	Halcyonidae	<i>Todiramphus sanctus</i>	Sacred kingfisher	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Hirundinidae	<i>Hirundo neoxena</i>	Welcome swallow	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Hirundinidae	<i>Petrochelidon nigricans</i>	Tree martin	Least concern	-	-	-	Post-Wet
Birds	Hirundinidae	<i>Petrochelidon ariel</i>	Fairy martin	Least concern	-	-	-	Spring
Birds	Maluridae	<i>Malurus cyaneus</i>	Superb fairy-wren	Least concern	-	-	-	Spring and Post-Wet
Birds	Maluridae	<i>Malurus lamberti</i>	Variegated fairy-wren	Least concern	-	-	-	Spring and Post-Wet
Birds	Maluridae	<i>Malurus leucopterus</i>	White-winged fairy-wren	Least concern	-	-	-	Post-Wet
Birds	Megaluridae	<i>Cincloramphus mathewsi</i>	Rufous songlark	Least concern	-	-	-	Post-Wet
Birds	Meliphagidae	<i>Acanthagenys rufogularis</i>	Spiny-cheeked honeyeater	Least concern	-	-	-	Spring and Post-Wet
Birds	Meliphagidae	<i>Caligavis chrysops</i>	Yellow-faced honeyeater	Least concern	-	-	-	Post-Wet
Birds	Meliphagidae	<i>Entomyzon cyanotis</i>	Blue-faced honeyeater	Least concern	-	-	-	Spring and Post-Wet
Birds	Meliphagidae	<i>Lichmera indistincta</i>	Brown honeyeater	Least concern	-	-	-	Spring and Post-Wet
Birds	Meliphagidae	<i>Manorina melanocephala</i>	Noisy miner	Least concern	-	-	-	Spring and Post-Wet
Birds	Meliphagidae	<i>Meliphaga lewinii</i>	Lewin's honeyeater	Least concern	-	-	-	Spring and Post-Wet
Birds	Meliphagidae	<i>Melithreptus brevirostris</i>	Brown-headed honeyeater	Least concern	-	-	-	Post-Wet
Birds	Meliphagidae	<i>Myzomela sanguinolenta</i>	Scarlet honeyeater	Least concern	-	-	-	Post-Wet
Birds	Meliphagidae	<i>Nesoptilotis leucotis</i>	White-eared honeyeater	Least concern	-	-	-	Post-Wet
Birds	Meliphagidae	<i>Philemon citreoqularis</i>	Little friarbird	Least concern	-	-	-	Spring and Post-Wet
Birds	Meliphagidae	<i>Philemon corniculatus</i>	Noisy friarbird	Least concern	-	-	-	Spring and Post-Wet
Birds	Meliphagidae	<i>Plectorhyncha lanceolata</i>	Striped honeyeater	Least concern	-	-	-	Spring and Post-Wet
Birds	Meliphagidae	<i>Grantiella picta</i>	Painted honeyeater	Vulnerable	Vulnerable	-	-	Spring
Birds	Meliphagidae	<i>Manorina flavigula</i>	Yellow-throated miner	Least concern	-	-	-	Spring

Birds	Meropidae	<i>Merops ornatus</i>	Rainbow bee-eater	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Monarchidae	<i>Grallina cyanoleuca</i>	Magpie-lark	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Monarchidae	<i>Myiagra cyanoleuca</i>	Satin flycatcher	Special least concern	-	-	Ma, Mi	Post-Wet
Birds	Monarchidae	<i>Myiagra rubecula</i>	Leaden flycatcher	Least concern	-	-	-	Spring and Post-Wet
Birds	Monarchidae	<i>Myiagra inquieta</i>	Restless flycatcher	Least concern	-	-	-	Spring
Birds	Motacillidae	<i>Anthus novaeseelandiae</i>	Australasian pipit	Least concern	-	-	Ma	Spring
Birds	Nectariniidae	<i>Dicaeum hirundinaceum</i>	Mistletoebird	Least concern	-	-	-	Spring and Post-Wet
Birds	Neosittidae	<i>Daphoenositta chrysoptera</i>	Varied sittella	Least concern	-	-	-	Post-Wet
Birds	Oriolidae	<i>Oriolus sagittatus</i>	Olive-backed oriole	Least concern	-	-	-	Post-Wet
Birds	Oriolidae	<i>Sphecotheres vieillotii</i>	Australasian figbird	Least concern	-	-	-	Post-Wet
Birds	Pachycephalidae	<i>Colluricincla harmonica</i>	Grey shrike-thrush	Least concern	-	-	-	Spring and Post-Wet
Birds	Pachycephalidae	<i>Colluricincla megarrhyncha</i>	Little shrike-thrush	Least concern	-	-	-	Post-Wet
Birds	Pachycephalidae	<i>Pachycephala rufiventris</i>	Rufous whistler	Least concern	-	-	-	Spring and Post-Wet
Birds	Pachycephalidae	<i>Pachycephala pectoralis youngi</i>	Golden whistler (south-eastern Australia)	Least concern	-	-	-	Spring
Birds	Pardalotidae	<i>Pardalotus striatus</i>	Striated pardalote	Least concern	-	-	-	Spring and Post-Wet
Birds	Pelecanidae	<i>Pelecanus conspicillatus</i>	Australian pelican	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Petroicidae	<i>Eopsaltria australis</i>	Eastern yellow robin	Least concern	-	-	-	Post-Wet
Birds	Petroicidae	<i>Melanodryas cucullata</i>	Hooded robin	Least concern	-	-	-	Post-Wet
Birds	Petroicidae	<i>Microeca fascians</i>	Jacky winter	Least concern	-	-	-	Spring and Post-Wet
Birds	Petroicidae	<i>Petroica goodenovii</i>	Red-capped robin	Least concern	-	-	-	Post-Wet
Birds	Phalacrocoracidae	<i>Microcarbo melanoleucos</i>	Little pied cormorant	Least concern	-	-	-	Post-Wet
Birds	Phalacrocoracidae	<i>Phalacrocorax carbo</i>	Great cormorant	Least concern	-	-	-	Post-Wet
Birds	Phasianidae	<i>Coturnix pectoralis</i>	Stubble quail	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Phasianidae	<i>Coturnix ypsilophora</i>	Brown quail	Least concern	-	-	-	Post-Wet
Birds	Rhipiduridae	<i>Rhipidura albiscapa</i>	Grey fantail	Least concern	-	-	-	Spring and Post-Wet
Birds	Podargidae	<i>Podargus strigoides</i>	Tawny frogmouth	Least concern	-	-	-	Spring and Post-Wet
Birds	Podicipedidae	<i>Tachybaptus novaehollandiae</i>	Australasian grebe	Least concern	-	-	-	Spring and Post-Wet
Birds	Pomatostomidae	<i>Pomatostomus temporalis temporalis</i>	Grey-crowned babbler	Least concern	-	-	-	Spring and Post-Wet
Birds	Psittacidae	<i>Aprosmictus erythropterus</i>	Red-winged parrot	Least concern	-	-	-	Spring and Post-Wet
Birds	Psittacidae	<i>Platycercus adscitus palliceps</i>	Pale-headed rosella	Least concern	-	-	-	Spring and Post-Wet
Birds	Psittacidae	<i>Psephotus haematonotus</i>	Red-rumped parrot	Least concern	-	-	-	Spring and Post-Wet
Birds	Psittacidae	<i>Trichoglossus chlorolepidotus</i>	Scaly-breasted lorikeet	Least concern	-	-	-	Spring and Post-Wet
Birds	Psittacidae	<i>Trichoglossus haematodus moluccanus</i>	Rainbow lorikeet	Least concern	-	-	-	Spring and Post-Wet
Birds	Psittacidae	<i>Alisterus scapularis</i>	Australian king-parrot	Least concern	-	-	-	Spring
Birds	Psittacidae	<i>Northiella haematogaster haematorrhoea</i>	Blue bonnet (red-vented)	Least concern	-	-	-	Spring
Birds	Psittacidae	<i>Platycercus eximius</i>	Eastern rosella	Least concern	-	-	-	Spring
Birds	Ptilonorhynchidae	<i>Ptilonorhynchus maculatus</i>	Spotted bowerbird	Least concern	-	-	-	Post-Wet
Birds	Rallidae	<i>Gallinula tenebrosa</i>	Dusky moorhen	Least concern	-	-	-	Spring and Post-Wet
Birds	Rallidae	<i>Gallirallus philippensis</i>	Buff-banded rail	Least concern	-	-	-	Post-Wet
Birds	Rallidae	<i>Porphyrio melanotus</i>	Purple swamphen	Least concern	-	-	-	Post-Wet
Birds	Rhipiduridae	<i>Rhipidura leucophrys leucophrys</i>	Willie wagtail	Least concern	-	-	-	Spring and Post-Wet
Birds	Rhipiduridae	<i>Rhipidura rufifrons</i>	Rufous fantail	Special least concern	-	-	Ma, Mi	Post-Wet
Birds	Strigidae	<i>Ninox boobook</i>	Southern boobook	Least concern	-	-	-	Spring and Post-Wet
Birds	Strigidae	<i>Ninox connivens</i>	Barking owl	Least concern	-	-	-	Spring
Birds	Sturnidae	<i>Acridotheres tristis</i>	Common myna	-	-	Yes	-	Spring and Post-Wet
Birds	Threskiornithidae	<i>Platalea flavipes</i>	Yellow-billed spoonbill	Least concern	-	-	-	Post-Wet
Birds	Threskiornithidae	<i>Platalea regia</i>	Royal spoonbill	Least concern	-	-	-	Post-Wet
Birds	Threskiornithidae	<i>Threskiornis molucca</i>	Australian white ibis	Least concern	-	-	Ma	Post-Wet
Birds	Threskiornithidae	<i>Threskiornis spinicollis</i>	Straw-necked ibis	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Timaliidae	<i>Zosterops lateralis</i>	Silveryeye	Least concern	-	-	Ma	Spring and Post-Wet
Birds	Turnicidae	<i>Turnix varius</i>	Painted button-quail	Least concern	-	-	-	Spring and Post-Wet
Birds	Tytonidae	<i>Tyto delicatula</i>	Eastern barn owl	Least concern	-	-	-	Spring and Post-Wet
Gastropods	Camaenidae	<i>Ponderconcha gilberti</i>	Darling Downs woodland snail	-	-	-	-	Post-Wet
Gastropods	Camaenidae	<i>Ponderconcha ianthostoma</i>		-	-	-	-	Post-Wet
Insects	Erebidae	<i>Utetheisa pulchelloides</i>	Heliotrope moth	-	-	-	-	Post-Wet
Insects	Hesperiidae	<i>Trapezites eliena</i>	Orange ochre	-	-	-	-	Post-Wet
Insects	Mantidae	<i>Pseudomantis albofimbriata</i>	False garden mantis	-	-	-	-	Post-Wet
Insects	Noctuidae	<i>Comocrus behri</i>	Mistletoe Day Moth	-	-	-	-	Post-Wet
Insects	Nymphalidae	<i>Danaus petilia</i>	Lesser wanderer	-	-	-	-	Post-Wet
Insects	Nymphalidae	<i>Danaus plexippus</i>	Wanderer butterfly	-	-	Yes	-	Post-Wet
Insects	Nymphalidae	<i>Hypolimnas bolina nerina</i>	Varied eggfly	-	-	-	-	Spring and Post-Wet
Insects	Nymphalidae	<i>Junonia villida villida</i>	Meadow argus	-	-	-	-	Post-Wet
Insects	Nymphalidae	<i>Euploea corinna</i>	Common crow	-	-	-	-	Spring
Insects	Nymphalidae	<i>Tirumala hamata hamata</i>	Blue tiger	-	-	Yes	-	Spring

Insects	Nymphalidae	<i>Acraea andromacha</i>	Glass wing	-	-	-	-	Post-Wet
Insects	Nymphalidae	<i>Charaxes sempronius</i>	Tailed emperor	-	-	-	-	Post-Wet
Insects	Nymphalidae	<i>Pieris rapae</i>	Cabbage white	-	-	Yes	-	Post-Wet
Insects	Nymphalidae	<i>Eurema smilax</i>	Small grass-yellow	-	-	-	-	Post-Wet
Insects	Papilionidae	<i>Papilio aegaeus</i>	Orchard swallowtail	-	-	-	-	Post-Wet
Insects	Papilionidae	<i>Papilio demoleus sthenelus</i>	Chequered swallowtail	-	-	-	-	Post-Wet
Insects	Pieridae	<i>Catopsilia pomona</i>	Lemon migrant	-	-	-	-	Post-Wet
Insects	Pieridae	<i>Belenois java teutonia</i>	Caper white	-	-	Yes	-	Spring
Insects	Pieridae	<i>Catopsilia pyranthe crokera</i>	White migrant	-	-	-	-	Spring
Insects	Pieridae	<i>Cepora perimale scyllara</i>	Caper gull (Australian subspecies)	-	-	-	-	Spring
Malacostracans	Parastacidae	<i>Cherax destructor</i>	Common yabby	-	-	-	-	Post-Wet
Mammals	Bovidae	<i>Bos taurus</i>	European cattle	-	-	Yes	-	Spring and Post-Wet
Mammals	Canidae	<i>Canis lupus</i>	Dingo, domestic dog	-	-	Yes	-	Spring and Post-Wet
Mammals	Canidae	<i>Vulpes vulpes</i>	European fox	-	-	Yes	-	Spring and Post-Wet
Mammals	Cyprinidae	<i>Pseudomys delicatulus</i>	Delicate mouse	Least concern	-	-	-	Post-Wet
Mammals	Dasyuridae	<i>Planigale maculata</i>	Common planigale	Least concern	-	-	-	Post-Wet
Mammals	Dasyuridae	<i>Antechinus flavipes flavipes</i>	Yellow-footed antechinus (south-east Queensland)	Least concern	-	-	-	Spring
Mammals	Dayouroidea	<i>Sminthopsis murina murina</i>	Common dunnart	Least concern	-	-	-	Spring and Post-Wet
Mammals	Emballonuridae	<i>Phascogaleos cinereus</i>	Koala	Vulnerable	Vulnerable	-	-	Spring and Post-Wet
Mammals	Emballonuridae	<i>Saccolaimus flaviventris</i>	Yellow-bellied sheath-tailed bat	Least concern	-	-	-	Post-Wet
Mammals	Felidae	<i>Felis catus</i>	Cat	-	-	Yes	-	Spring and Post-Wet
Mammals	Leporidae	<i>Lepus europaeus</i>	Hare	-	-	Yes	-	Spring and Post-Wet
Mammals	Leporidae	<i>Oryctolagus cuniculus</i>	Rabbit	-	-	Yes	-	Spring and Post-Wet
Mammals	Macropodidae	<i>Macropus giganteus</i>	Eastern grey kangaroo	Least concern	-	-	-	Spring and Post-Wet
Mammals	Macropodidae	<i>Notamacropus parryi</i>	Whiptail wallaby	Least concern	-	-	-	Spring and Post-Wet
Mammals	Macropodidae	<i>Notamacropus rufogriseus</i>	Red-necked wallaby	Least concern	-	-	-	Spring and Post-Wet
Mammals	Macropodidae	<i>Osphranter robustus</i>	Common wallaroo	-	-	Least concern	-	Spring and Post-Wet
Mammals	Macropodidae	<i>Notamacropus dorsalis</i>	Black-striped wallaby	Least concern	-	-	-	Post-Wet
Mammals	Macropodidae	<i>Wallabia bicolor</i>	Swamp wallaby	Least concern	-	-	-	Spring and Post-Wet
Mammals	Muridae	<i>Mus musculus</i>	House mouse	-	-	Yes	-	Spring and Post-Wet
Mammals	Muridae	<i>Rattus rattus</i>	Black rat	-	-	Yes	-	Spring
Mammals	Petauridae	<i>Petaurus norfolcensis</i>	Squirrel glider	Least concern	-	-	-	Post-Wet
Mammals	Petauridae	<i>Petaurus breviceps</i>	Sugar glider	Least concern	-	-	-	Spring
Mammals	Phalangeridae	<i>Trichosurus vulpecula</i>	Common brushtail possum	Least concern	-	-	-	Spring and Post-Wet
Mammals	Pseudocheiridae	<i>Pseudocheirus peregrinus</i>	Common ringtail possum	Least concern	-	-	-	Spring
Mammals	Pteropodidae	<i>Pteropus scapulatus</i>	Little red flying-fox	Least concern	-	-	-	Spring and Post-Wet
Mammals	Pteropodidae	<i>Pteropus poliocephalus</i>	Grey-headed flying-fox	Least concern	Vulnerable	-	-	Post-Wet
Mammals	Pteropodidae	<i>Pteropus alecto</i>	Black flying-fox	Least concern	-	-	-	Spring
Mammals	Suidae	<i>Sus scrofa</i>	Feral pig	-	-	Yes	-	Spring and Post-Wet
Mammals	Tachyglossidae	<i>Tachyglossus aculeatus</i>	Short-beaked echidna	Special least concern	-	-	-	Spring and Post-Wet
Mammals	Vespertilionidae	<i>Nyctophilus geoffroyi</i>	Lesser long-eared bat	Least concern	-	-	-	Spring and Post-Wet
Mammals	Vespertilionidae	<i>Nyctophilus gouldi</i>	Gould's long-eared bat	Least concern	-	-	-	Spring and Post-Wet
Mammals	Vespertilionidae	<i>Scotorepens sp. (Parnaby)</i>	Central-eastern broad-nosed bat	Least concern	-	-	-	Post-Wet
Mammals	Vespertilionidae	<i>Vespadelus baverstocki</i>	Inland forest bat	Least concern	-	-	-	Post-Wet
Mammals	Vespertilionidae	<i>Nyctophilus corbeni</i>	Eastern long-eared bat	Vulnerable	Vulnerable	-	-	Spring
Mammals	Vespertilionidae	<i>Scotorepens greyii</i>	Little broad-nosed bat	Least concern	-	-	-	Spring
Mammals	Vespertilionidae	<i>Scotorepens orion</i>	South-eastern broad-nosed bat	Least concern	-	-	-	Spring
Mammals	Vespertilionidae	<i>Chalinolobus gouldii</i>	Gould's wattled bat	Least concern	-	-	-	Post-Wet
Mammals	Vespertilionidae	<i>Chalinolobus morio</i>	chocolate wattled bat	Least concern	-	-	-	Post-Wet
Mammals	Vespertilionidae	<i>Chalinolobus picatus</i>	Little pied bat	Least concern	-	-	-	Post-Wet
Mammals	Vespertilionidae	<i>Nyctophilus sp.</i>	-	Least concern	-	-	-	Post-Wet
Mammals	Vespertilionidae	<i>Scotorepens balstoni</i>	Inland broad-nosed bat	Least concern	-	-	-	Post-Wet
Mammals	Vespertilionidae	<i>Scotorepens sp. / Scotorepens greyii</i>	-	Least concern	-	-	-	Post-Wet
Mammals	Vespertilionidae	<i>Vespadelus regulus</i>	Southern forest bat	Least concern	-	-	-	Post-Wet
Mammals	Vespertilionidae	<i>Vespadelus vulturinus</i>	Little forest bat	Least concern	-	-	-	Post-Wet
Mammals	Miniopteridae	<i>Miniopterus orianae</i>	Eastern bent-wing bat	Least concern	-	-	-	Post-Wet
Mammals	Molossidae	<i>Austronomus australis</i>	White-striped freetail bat	Least concern	-	-	-	Post-Wet
Mammals	Molossidae	<i>Ozimops lumsdenae</i>	Northern free-tailed bat	Least concern	-	-	-	Post-Wet
Mammals	Molossidae	<i>Ozimops ridei</i>	Eastern free-tailed bat	Least concern	-	-	-	Post-Wet
Reptiles	Agamidae	<i>Amphibolurus muricatus</i>	Jacky dragon	Least concern	-	-	-	Post-Wet
Reptiles	Agamidae	<i>Diporiphora nobbi</i>	Nobbi dragon	Least concern	-	-	-	Post-Wet
Reptiles	Agamidae	<i>Pogona barbata</i>	Eastern bearded dragon	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Boidae	<i>Morelia spilota</i>	Carpet python	Least concern	-	-	-	Spring
Reptiles	Chelidae	<i>Chelodina longicollis</i>	Eastern long-necked turtle	Least concern	-	-	-	Spring and Post-Wet

Reptiles	Chelidae	<i>Emydura macquarii macquarii</i>	Murray turtle	Least concern	-	-	-	Spring
Reptiles	Colubridae	<i>Dendrelaphis punctulatus</i>	Common tree snake	Least concern	-	-	-	Post-Wet
Reptiles	Diplodactylidae	<i>Diplodactylus vittatus</i>	Eastern stone gecko	Least concern	-	-	-	Post-Wet
Reptiles	Diplodactylidae	<i>Nebulifera robusta</i>	Robust velvet gecko	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Diplodactylidae	<i>Strophurus williamsi</i>	Eastern spiny-tailed gecko	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Elapidae	<i>Cacophis churchilli</i>	Northern dwarf crowned snake	Least concern	-	-	-	Post-Wet
Reptiles	Elapidae	<i>Pseudechis guttatus</i>	Spotted black snake	Least concern	-	-	-	Post-Wet
Reptiles	Elapidae	<i>Suta dwyeri</i>	Dwyer's snake	Least concern	-	-	-	Post-Wet
Reptiles	Elapidae	<i>Cryptophis boschmai</i>	Carpentaria whip snake	Least concern	-	-	-	Spring
Reptiles	Elapidae	<i>Demansia psammophis</i>	Yellow-faced whipsnake	Least concern	-	-	-	Spring
Reptiles	Elapidae	<i>Furina diadema</i>	Red-naped snake	Least concern	-	-	-	Spring
Reptiles	Elapidae	<i>Hemiaspis damelii</i>	Grey snake	Endangered	-	-	-	Spring
Reptiles	Elapidae	<i>Hoplocephalus bitorquatus</i>	Pale-headed snake	Least concern	-	-	-	Spring
Reptiles	Elapidae	<i>Pseudonaja textilis</i>	Eastern brown snake	Least concern	-	-	-	Spring
Reptiles	Elapidae	<i>Vermicella annulata</i>	Bandy-bandy	Least concern	-	-	-	Post-Wet
Reptiles	Gekkonidae	<i>Gehyra dubia</i>	Dubious dtella	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Gekkonidae	<i>Gehyra versicolor</i>	Eastern tree dtella	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Gekkonidae	<i>Heteronotia binoei</i>	Bynoe's gecko	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Gekkonidae	<i>Gehyra catenata</i>	Chain-backed dtella	Least concern	-	-	-	Spring
Reptiles	Pygopodidae	<i>Delma plebeia</i>	Leaden delma	Least concern	-	-	-	Post-Wet
Reptiles	Pygopodidae	<i>Lialis burtonis</i>	Burton's legless lizard	Least concern	-	-	-	Spring
Reptiles	Pygopodidae	<i>Paradelma orientalis</i>	Brigalow scaly-foot	Least concern	-	-	-	Spring
Reptiles	Scincidae	<i>Carlia pectoralis</i>	Open-litter rainbow-skink	Least concern	-	-	-	Post-Wet
Reptiles	Scincidae	<i>Carlia vivax</i>	Lively rainbow skink	Least concern	-	-	-	Post-Wet
Reptiles	Scincidae	<i>Ctenotus robustus</i>	Eastern striped skink	-	-	Yes	-	Post-Wet
Reptiles	Scincidae	<i>Egernia striolata</i>	Tree skink	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Scincidae	<i>Liopholis modesta</i>	Eastern ranges rock-skink	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Scincidae	<i>Morethia boulengeri</i>	South-eastern morethia skink	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Scincidae	<i>Eremiascincus richardsonii</i>	Broad-banded sand-swimmer	Least concern	-	-	-	Post-Wet
Reptiles	Scincidae	<i>Lampropholis delicata</i>	Grass skink	Least concern	-	-	-	Post-Wet
Reptiles	Scincidae	<i>Cryptoblepharus virgatus</i>	Striped snake-eyed skink	Least concern	-	-	-	Spring
Reptiles	Scincidae	<i>Ctenotus spaldingi</i>	Straight-browed ctenotus	Least concern	-	-	-	Spring
Reptiles	Scincidae	<i>Tiliqua scincoides</i>	Common blue-tongued skink	Least concern	-	-	-	Post-Wet
Reptiles	Typhlopidae	<i>Anilius ligatus</i>	Robust blind snake	Least concern	-	-	-	Spring
Reptiles	Typhlopidae	<i>Anilius torresianus</i>	North-eastern blind snake	Least concern	-	-	-	Spring
Reptiles	Varanidae	<i>Varanus gouldii</i>	Sand goanna	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Varanidae	<i>Varanus varius</i>	Lace monitor	Least concern	-	-	-	Spring and Post-Wet
Reptiles	Varanidae	<i>Varanus panoptes</i>	Yellow-spotted monitor	Least concern	-	-	-	Spring

APPENDIX

K

BREEDING PLACES

