

Appendix 1 Western Australian Flora and Fauna Conservation Codes (DPaW 2017)

Specially protected fauna or flora are species* which have been adequately searched for and are deemed to be, in the wild, either rare, at risk of extinction, or otherwise in need of special protection, and have been gazetted as such.

Categories of specially protected fauna and flora are:

T Threatened species

Published as Specially Protected under the Wildlife Conservation Act 1950, and listed under Schedules 1 to 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).

Threatened fauna is that subset of 'Specially Protected Fauna' declared to be 'likely to become extinct' pursuant to section 14(4) of the Wildlife Conservation Act.

Threatened flora is flora that has been declared to be 'likely to become extinct or is rare, or otherwise in need of special protection', pursuant to section 23F(2) of the Wildlife Conservation Act.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

CR Critically endangered species

Threatened species considered to be facing an extremely high risk of extinction in the wild. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

EN Endangered species

Threatened species considered to be facing a very high risk of extinction in the wild. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

VU Vulnerable species

Threatened species considered to be facing a high risk of extinction in the wild. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

EX Presumed extinct species

Species which have been adequately searched for and there is no reasonable doubt that the last individual has died. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora.

IA Migratory birds protected under an international agreement

Birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and the Bonn Convention, relating to the protection of migratory birds. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 5 of the Wildlife Conservation (Specially Protected Fauna) Notice.

CD Conservation dependent fauna

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice.

OS Other specially protected fauna

Fauna otherwise in need of special protection to ensure their conservation. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice.

P Priority species

Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened flora or fauna.

Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

1 Priority 1: Poorly-known species

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

2 Priority 2: Poorly-known species

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

3 Priority 3: Poorly-known species

Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

4 Priority 4: Rare, Near Threatened and other species in need of monitoring

- (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.
- (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable, but are not listed as Conservation Dependent.
- (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

Appendix 2 Survey site locations

Quadrat	Relevé	TEC	Latitude	Longitude
CAL17001		CalTEC001	-30.9919	116.2047
CAL17002		CalTEC002	-31.0204	116.211
CAL17003		CalTEC003	-31.0252	116.2143
CAL17004		CalTEC004	-31.0516	116.2051
CAL17005		CalTEC005	-31.0398	116.2067
CAL17006		CalTEC006	-31.046	116.2187
CAL17007		CalTEC007	-31.0419	116.2119
CAL17008		CalTEC008	-31.0573	116.2135
CAL17009		CalTEC009	-31.0595	116.2061
CAL17010		CalTEC010	-31.0633	116.2043
CAL17011		CalTEC011	-31.0687	116.2061
CAL17012		CalTEC012	-31.0667	116.2045
na	CAL17013	CalTEC013	-31.0784	116.2072
CAL17014		CalTEC014	-31.0768	116.2101
CAL17015		CalTEC015	-31.1018	116.196
na	CAL17016	CalTEC016	-31.1297	116.1943
na	CAL17017	CalTEC017	-31.1313	116.1914
CAL17018		CalTEC018	-31.133	116.1907
CAL17019		CalTEC019	-31.1428	116.1855
CAL17020		CalTEC020	-31.1479	116.1866
CAL17021A		CalTEC021	-31.1488	116.1821
CAL17022		CalTEC022	-31.0007	116.2051
CALP20001		CALP20001	-31.0541	116.2074
CALP20002		CALP20002	-31.037	116.2082
CALP20004		CALP20004	-31.0132	116.2106
GAP020		na	-31.0563	116.2078
GAP021		na	-31.0605	116.2064
GAP022		na	-31.0719	116.2046
GAP023	GAP023	na	-31.0769	116.2045
na		TEC062	-30.9941	116.2072
na		TEC063	-30.9941	116.2059
na		TEC065	-30.9991	116.207
na		TEC066	-31.0008	116.2075
na		TEC068	-31.0152	116.2116
na		TEC068A	-31.0139	116.2111
na		TEC069	-31.0204	116.2127

Flora and fauna assessment for the Calingiri study area
Prepared for Muchea to Wubin Integrated Project Team (Main Roads WA, Jacobs and Arup)

Quadrat	Relevé	TEC	Latitude	Longitude
na		TEC070	-31.0212	116.2123
na		TEC071	-31.0217	116.212
na		TEC072	-31.0292	116.2097
na		TEC073	-31.0247	116.2112
na		TEC074	-31.023	116.2118
na		TEC076	-31.033	116.2089
na		TEC077	-31.0352	116.2084
na		TEC078	-31.0382	116.2084
na		TEC079	-31.0382	116.2086
na		TEC080	-31.0418	116.2074
na		TEC081	-31.0445	116.2068
na		TEC082	-31.0429	116.2069
na		TEC083	-31.0502	116.2064
na		TEC084	-31.0804	116.2038
na		TEC085	-31.0224	116.2124
na		TEC086	-31.059	116.2075
na		TEC087	-31.0766	116.2053
na		TEC088	-31.0781	116.2046
na		TEC089	-31.0832	116.2031
na		TEC090	-31.0831	116.2028
na		TEC091	-31.0859	116.202
na		TEC092	-31.0866	116.2014
na		TEC094	-31.0947	116.199
na		TEC095	-31.0947	116.1987
na		TEC096	-31.1012	116.1978
na		TEC096a	-31.0977	116.1984
na		TEC097	-31.096	116.1985
na		TEC098	-31.1016	116.1949
na		TEC099	-31.1042	116.1972
na		TEC100	-31.1161	116.1954
na		TEC101	-31.1044	116.1971
na		TEC102	-31.1095	116.1962
na		TEC103	-31.1188	116.1949
na		TEC104	-31.1226	116.1941
na		TEC105	-31.1223	116.1944
na		TEC107	-31.1277	116.1932
na		TEC108	-31.1295	116.1929

Flora and fauna assessment for the Calingiri study area
Prepared for Muchea to Wubin Integrated Project Team (Main Roads WA, Jacobs and Arup)

Quadrat	Relevé	TEC	Latitude	Longitude
na		TEC109	-31.1329	116.192
na		TEC110	-31.1331	116.1922
na		TEC112	-31.1376	116.1901
na		TEC113	-31.144	116.1861
na		TEC114	-31.1431	116.1863
na		TEC115	-31.1473	116.1851
na		TEC116	-31.1468	116.1855
na		TEC117	-30.6864	116.2112
na		TEC119	-31.1559	116.1832
na		TEC120	-31.1578	116.1831
NN3.1		na	-30.9965	116.2061
NN3.1a		TEC064	-30.9971	116.2063
NN3.2		na	-30.9882	116.2064
S3A21		na	-31.0018	116.2079
S3A22		TEC067	-31.0092	116.21
S3A23		na	-31.0244	116.2116
S3A24		na	-31.0402	116.208
S3A27		na	-31.0893	116.2007
S3A28		na	-31.0989	116.1983
S3A29		na	-31.112	116.1962
S3A30		TEC106	-31.1265	116.1936
S3A31		na	-31.1301	116.1931
S3A32		TEC111	-31.1406	116.1879
S3A33		TEC116b	-31.1481	116.1851
S3A45		na	-31.1197	116.1946
S3A47		TEC075	-31.0308	116.209
S3AB20001		TEC093	-31.0875	116.2015
na	S3AB20002	na	-31.1421	116.1876

Appendix 3 Quadrat descriptions

Site:	CAL17001	Type:	Quadrat (unbounded)
Date(s):	01 November 2017	Position:	-30.991926, 116.204748
Total vegetation cover (%):	60	Topography:	river
Tree/shrub cover >2 m (%):	30	Soil colour:	brown,
Shrub cover <2 m (%):	0.1	Soil:	sandy clay,
Grass cover (%):	35	Rock type:	none
Herb cover (%):	2	Fire age:	not evident
Disturbance details:	erosion channels, vehicle tracks, weed infestation,		
Vegetation condition:	Degraded, EPA (2016)		
Vegetation description:	Mid <i>Eucalyptus rudis</i> woodland over mid open <i>Avena sativa</i> , <i>Hordeum glaucum</i> and <i>Bromus rubens</i> grassland		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus rudis</i>	30.0	12.00		
<i>Avena sativa</i>	15.0	00.80	*	
<i>Hordeum glaucum</i>	07.0	00.30	*	
<i>Ehrharta longiflora</i>	05.0	00.60	*	
<i>Bromus rubens</i>	05.0	00.50	*	
<i>Salicornia quinqueflora</i> subsp. <i>quinqueflora</i>	02.0	00.10		
<i>Pentameris airoides</i> subsp. <i>airoides</i>	00.5	00.05	*	
<i>Neurachne alopecuroidea</i>	00.1	00.50		
<i>Chloris truncata</i>	00.1	00.50		
<i>Lolium perenne</i>	00.1	00.30	*	
<i>Solanum nigrum</i>	00.1	00.20	*	
<i>Solanum</i> sp.	00.1	00.10		
<i>Hypochaeris radicata</i>	00.1	00.10	*	
<i>Maireana marginata</i>	00.1	00.10		
<i>Cotula bipinnata</i>	00.1	00.10	*	
<i>Romulea rosea</i> var. <i>australis</i>	00.1	00.10	*	
<i>Sonchus asper</i>	00.1	00.10	*	
<i>Heliotropium curassavicum</i>	00.1	00.05		
<i>Arctotheca calendula</i>	00.1	00.05	*	
<i>Atriplex semilunaris</i>	00.1	00.05		

Site:	CAL17001	Type:	Quadrat (unbounded)
Date(s):	01 November 2017	Position:	-30.991926, 116.204748
Total vegetation cover (%):	60	Topography:	river
Tree/shrub cover >2 m (%):	30	Soil colour:	brown,
Shrub cover <2 m (%):	0.1	Soil:	sandy clay,
Grass cover (%):	35	Rock type:	none
Herb cover (%):	2	Fire age:	not evident
Disturbance details:	erosion channels, vehicle tracks, weed infestation,		
Vegetation condition:	Degraded, EPA (2016)		
Vegetation description:	Mid <i>Eucalyptus rudis</i> woodland over mid open <i>Avena sativa</i> , <i>Hordeum glaucum</i> and <i>Bromus rubens</i> grassland		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus rudis</i>	30.0	12.00		
<i>Avena sativa</i>	15.0	00.80	*	
<i>Hordeum glaucum</i>	07.0	00.30	*	
<i>Ehrharta longiflora</i>	05.0	00.60	*	
<i>Bromus rubens</i>	05.0	00.50	*	
<i>Salicornia quinqueflora</i> subsp. <i>quinqueflora</i>	02.0	00.10		
<i>Pentameris airoides</i> subsp. <i>airoides</i>	00.5	00.05	*	
<i>Neurachne alopecuroidea</i>	00.1	00.50		
<i>Chloris truncata</i>	00.1	00.50		
<i>Lolium perenne</i>	00.1	00.30	*	
<i>Solanum nigrum</i>	00.1	00.20	*	
<i>Solanum</i> sp.	00.1	00.10		
<i>Hypochaeris radicata</i>	00.1	00.10	*	
<i>Maireana marginata</i>	00.1	00.10		
<i>Cotula bipinnata</i>	00.1	00.10	*	
<i>Romulea rosea</i> var. <i>australis</i>	00.1	00.10	*	
<i>Sonchus asper</i>	00.1	00.10	*	
<i>Heliotropium curassavicum</i>	00.1	00.05		
<i>Arctotheca calendula</i>	00.1	00.05	*	
<i>Atriplex semilunaris</i>	00.1	00.05		

Tecticornia lepidosperma

Site:	CAL17002	Type:	Quadrat (10 m x 10 m)
Date(s):	14 November 2017	Position:	-31.02035, 116.210991
Total vegetation cover (%):	41	Topography:	creek
Tree/shrub cover >2 m (%):	30	Soil colour:	brown,
Shrub cover <2 m (%):	0	Soil:	clay loam,
Grass cover (%):	41	Rock type:	none
Herb cover (%):	0	Fire age:	not evident
Disturbance details:	grazing – high, weed infestation,		
Vegetation condition:	Degraded, EPA (2016)		
Vegetation description:	Mid <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> woodland over low open <i>Hordeum glaucum</i> , <i>Bromus rubens</i> and <i>Erharta longiflora</i> grassland		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	30.0	12.00		
<i>Hordeum glaucum</i>	16.0	00.10	*	
<i>Bromus rubens</i>	10.0	00.20	*	
<i>Ehrharta longiflora</i>	07.0	00.30	*	
<i>Avena barbata</i>	05.0	00.40	*	
<i>Lolium perenne</i>	03.0	00.20	*	
<i>Austrostipa elegantissima</i>	00.1	00.30		
<i>Arctotheca calendula</i>	00.1	00.10	*	

Site:	CAL17003	Type:	Quadrat (10 m x 10 m)
Date(s):	01 November 2017	Position:	-31.025164, 116.214318
Total vegetation cover (%):	45	Topography:	hill slope
Tree/shrub cover >2 m (%):	30	Soil colour:	red-brown,
Shrub cover <2 m (%):	16	Soil:	laterite,
Grass cover (%):	1	Rock type:	none
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	none		
Vegetation condition:	Good, EPA (2016)		
Vegetation description:	Mid <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> woodland over low <i>Acacia lasiocarpa</i> var. <i>sedifolia</i> , <i>Astroloma compactum</i> and <i>Gastrolobium polystachyum</i> low shrubland over low isolated <i>Amphipogon turbinatus</i> and <i>Austrostipa elegantissima</i> tussock grasses		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	30.0	12.00		
<i>Acacia lasiocarpa</i> var. <i>sedifolia</i>	10.0	00.40		
<i>Astroloma compactum</i>	03.0	00.40		
<i>Gastrolobium polystachyum</i>	03.0	00.40		
<i>Austrostipa elegantissima</i>	01.0	00.50		
<i>Desmocladius asper</i>	01.0	00.10		
<i>Amphipogon turbinatus</i>	00.3	00.20		
<i>Gladiolus caryophyllaceus</i>	00.1	00.70	*	
<i>Dianella revoluta</i>	00.1	00.50		
<i>Hakea erinacea</i>	00.1	00.50		
<i>Banksia fraseri</i> var. <i>fraseri</i>	00.1	00.30		
<i>Burchardia congesta</i>	00.1	00.30		
<i>Stypandra glauca</i>	00.1	00.20		
<i>Orthrosanthus laxus</i> var. <i>laxus</i>	00.1	00.20		
? <i>Beyeria lechenaultii</i> (sterile)	00.1	00.10		
<i>Lomandra rupestris</i>	00.1	00.10		
<i>Ptilotus drummondii</i>	00.1	00.10		
<i>Desmocladius lateriticus</i>	00.1	00.10		

<i>Enchylaena lanata</i>	00.1	00.10
<i>Opercularia vaginata</i>	00.1	00.10
<i>Conostylis setigera</i> subsp. <i>setigera</i>	00.1	00.05
<i>Rhodanthe citrina</i>	00.1	00.05
<i>Stylidium</i> sp. sterile	00.1	00.05

Site:	CAL17004	Type:	Quadrat (10 m x 10 m)
Date(s):	14 November 2017	Position:	-31.051568, 116.205143
Total vegetation cover (%):	70	Topography:	plain
Tree/shrub cover >2 m (%):	50	Soil colour:	brown,
Shrub cover <2 m (%):	0	Soil:	clay loam,
Grass cover (%):	43	Rock type:	none
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	grazing – high, weed infestation,		
Vegetation condition:	Degraded, EPA (2016)		
Vegetation description:	<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> woodland over low * <i>Ehrharta longiflora</i> , * <i>Avena barbata</i> and <i>Austrostipa elegantissima</i> tussock grassland		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	50.0	12.00		
<i>Ehrharta longiflora</i>	35.0	00.20	*	
<i>Avena barbata</i>	05.0	00.40	*	
<i>Austrostipa elegantissima</i>	02.0	00.20		
<i>Lolium perenne</i>	01.0	00.20	*	
<i>Ursinia anthemoides</i>	00.1	00.20	*	
<i>Sonchus oleraceus</i>	00.1	00.10	*	
<i>Hordeum glaucum</i>	00.1	00.10	*	
<i>Lysimachia arvensis</i>	00.1	00.05	*	

Site:	CAL17005	Type:	Quadrat (10 m x 10 m)
Date(s):	14 November 2017	Position:	-31.039754, 116.206747
Total vegetation cover (%):	50	Topography:	drainage line
Tree/shrub cover >2 m (%):	35	Soil colour:	brown,
Shrub cover <2 m (%):	5	Soil:	clay loam,
Grass cover (%):	33	Rock type:	none
Herb cover (%):	0	Fire age:	>5 years
Disturbance details:	weed infestation,		
Vegetation condition:	Good, EPA (2016)		
Vegetation description:	Low <i>Casuarina obesa</i> woodland over <i>Tecticornia</i> sp. sterile 1 low open shrubland over low open <i>*Parapholis incurva</i> , <i>*Lolium rigidum</i> and <i>*Hordeum leporinum</i> tussock grassland		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Casuarina obesa</i>	35.0	10.00		
<i>Parapholis incurva</i>	20.0	00.05	*	
<i>Lolium rigidum</i>	07.0	00.40	*	
<i>Tecticornia</i> sp. sterile 1	05.0	00.40		
<i>Ehrharta longiflora</i>	03.0	00.30	*	
<i>Hordeum leporinum</i>	03.0	00.10	*	
<i>Rhagodia ? drummondii</i>	00.1	00.10		
<i>Sonchus oleraceus</i>	00.1	00.10	*	
<i>Enchylaena lanata</i>	00.1	00.05		
<i>Salicornia quinqueflora</i> subsp. <i>quinqueflora</i>				

Site:	CAL17006	Type:	Quadrat (10 m x 10 m)
Date(s):	01 November 2017	Position:	-31.046014, 116.21872
Total vegetation cover (%):	45	Topography:	hill slope
Tree/shrub cover >2 m (%):	30	Soil colour:	brown,
Shrub cover <2 m (%):	0	Soil:	sandy clay,
Grass cover (%):	33	Rock type:	none
Herb cover (%):	1	Fire age:	not evident
Disturbance details:	weed infestation,		
Vegetation condition:	Degraded, EPA (2016)		
Vegetation description:	Mid <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> and <i>Eucalyptus wandoo</i> woodland over low <i>Avena sativa</i> , <i>Ehrharta longiflora</i> and <i>Hordeum glaucum</i> tussock grassland		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Avena sativa</i>	30.0	00.50	*	
<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	20.0	15.00		
<i>Eucalyptus wandoo</i>	10.0	12.00		
<i>Ehrharta longiflora</i>	03.0	00.50	*	
<i>Austrostipa elegantissima</i>	00.5	00.60		
<i>Hordeum glaucum</i>	00.5	00.30	*	
<i>Enteropogon ramosus</i>	00.5	00.10		
<i>Lolium perenne</i> x <i>rigidum</i>	00.1	00.80	*	
<i>Austrostipa campylachne</i>	00.1	00.70		
<i>Amphipogon turbinatus</i>	00.1	00.40		
<i>Lolium perenne</i>	00.1	00.20	*	
<i>Briza maxima</i>	00.1	00.10	*	
<i>Freesia alba</i> x <i>leichtlinii</i>	00.1	00.10	*	
<i>Centaurium tenuiflorum</i>	00.1	00.10	*	
<i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	00.1	00.10	*	
<i>Pentameris airoides</i> subsp. <i>airoides</i>	00.1	00.05	*	
<i>Lysimachia arvensis</i>	00.1	00.05	*	

Site:	CAL17007	Type:	Quadrat (10 m x 10 m)
Date(s):	02 November 2017	Position:	-31.041944, 116.211865
Total vegetation cover (%):	70	Topography:	plain
Tree/shrub cover >2 m (%):	35	Soil colour:	red-brown,
Shrub cover <2 m (%):	1	Soil:	clay,
Grass cover (%):	60	Rock type:	none
Herb cover (%):	0	Fire age:	
Disturbance details:	historic clearing, weed infestation,		
Vegetation condition:	Good, EPA (2016)		
Vegetation description:	Low <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> and <i>Casuarina obesa</i> woodland over low <i>*Hordeum marinum</i> , <i>*Ehrharta longiflora</i> and <i>*Bromus arenarius</i> grassland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Hordeum marinum</i>	40.0	00.20	*	
<i>Casuarina obesa</i>	30.0	04.00		
<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	20.0	10.00		
<i>Ehrharta longiflora</i>	15.0	00.40	*	
<i>Bromus arenarius</i>	02.0	00.20		
<i>Pentameris airoides</i> subsp. <i>airoides</i>	01.0	00.50	*	
<i>Ursinia anthemoides</i>	01.0	00.10	*	
<i>Lysimachia arvensis</i>	00.5	00.05	*	
Poaceae sp. seedling	00.1	00.20		
<i>Briza maxima</i>	00.1	00.20	*	
<i>Lolium perenne</i> x <i>rigidum</i>	00.1	00.10	*	
<i>Acacia</i> sp. seedling	00.1	00.05		
<i>Centaurium tenuiflorum</i>	00.1	00.05	*	
<i>Angianthus preissianus</i>	00.1	00.05		

Site:	CAL17008	Type:	Quadrat (10 m x 10 m)
Date(s):	02 November 2017	Position:	-31.057348, 116.213473
Total vegetation cover (%):	40	Topography:	hill slope
Tree/shrub cover >2 m (%):	40	Soil colour:	brown,
Shrub cover <2 m (%):	0	Soil:	sandy clay,
Grass cover (%):	30	Rock type:	granite rocks
Herb cover (%):	1	Fire age:	not evident
Disturbance details:	weed infestation,		
Vegetation condition:	Degraded, EPA (2016)		
Vegetation description:	Mid <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> woodland over low open <i>Ehrharta longiflora</i> , <i>Bromus rubens</i> and <i>Avena sativa</i> grassland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	40.0	12.00		
<i>Ehrharta longiflora</i>	20.0	00.40	*	
<i>Avena sativa</i>	05.0	00.30	*	
<i>Bromus rubens</i>	05.0	00.20	*	
<i>Trifolium campestre</i>	00.1	00.10	*	
<i>Trifolium hirtum</i>	00.1	00.10	*	
<i>Lolium perenne</i>	00.1	00.10	*	
<i>Romulea rosea</i> var. <i>australis</i>	00.1	00.10	*	

Site:	CAL17009	Type:	Quadrat (10 m x 10 m)
Date(s):	20 October 2017	Position:	-31.059456, 116.206072
Total vegetation cover (%):	80	Topography:	hill top
Tree/shrub cover >2 m (%):	15	Soil colour:	brown, whitish,
Shrub cover <2 m (%):	71	Soil:	clay loam,
Grass cover (%):	0	Rock type:	quartz
Herb cover (%):	1	Fire age:	not evident
Disturbance details:	weed infestation,		
Vegetation condition:	Excellent, EPA (2016)		
Vegetation description:	Mid <i>Eucalyptus wandoo</i> woodland over isolated mid <i>Banksia armata</i> var. <i>armata</i> shrubs over low <i>Acacia lasiocarpa</i> var. <i>sedifolia</i> and <i>Glischocaryon aureum</i> shrubland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Acacia lasiocarpa</i> var. <i>sedifolia</i>	70.0	00.50		
<i>Eucalyptus wandoo</i>	15.0	12.00		
<i>Glischocaryon aureum</i>	01.0	00.50		
<i>Gastrolobium spathulatum</i>	01.0	00.40		
<i>Banksia armata</i> var. <i>armata</i>	00.5	01.20		
<i>Melaleuca scalena</i>	00.1	00.40		
<i>Cassytha pomiformis</i>	00.1	00.40		
<i>Ursinia anthemoides</i>	00.1	00.15	*	
<i>Drosera</i> sp.	00.1	00.15		
<i>Austrostipa macalpinei</i>	00.1	00.15		
<i>Romulea rosea</i>	00.1	00.15	*	
<i>Opercularia vaginata</i>	00.1	00.10		
<i>Neurachne alopecuroidea</i>	00.1	00.10		
<i>Stylidium leptophyllum</i>	00.1	00.10		
<i>Stylidium caricifolium</i>	00.1	00.10		
<i>Trachymene cyanopetala</i>	00.1	00.02		

Site:	CAL17010	Type:	Quadrat (10 m x 10 m)
Date(s):	20 October 2017	Position:	-31.063303, 116.204332
Total vegetation cover (%):	90	Topography:	hill slope
Tree/shrub cover >2 m (%):	25	Soil colour:	red-brown,
Shrub cover <2 m (%):	60	Soil:	clay,
Grass cover (%):	10	Rock type:	granite rocks
Herb cover (%):	2	Fire age:	not evident
Disturbance details:	weed infestation,		
Vegetation condition:	Very Good, EPA (2016)		
Vegetation description:	Low <i>Eucalyptus wandoo</i> and <i>Allocasuarina campestris</i> low woodland over mid <i>Trymalium odoratissimum</i> subsp. <i>odoratissimum</i> and <i>Acacia acuminata</i> shrubland over <i>Cheilanthes austrotenuifolia</i> open forbland		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Trymalium odoratissimum</i> subsp. <i>odoratissimum</i>	60.0	01.70		
<i>Allocasuarina campestris</i>	10.0	05.00		
<i>Dioscorea hastifolia</i>	05.0	00.50		
<i>Eucalyptus wandoo</i>	03.0	08.00		
<i>Acacia acuminata</i>	03.0	02.50		
<i>Cheilanthes austrotenuifolia</i>	03.0	00.10		
<i>Calothamnus pachystachyus</i>	00.1	01.20		P4 (WC Act)
<i>Freesia</i> sp. sterile	00.1	00.40		
<i>Cassytha pomiformis</i>	00.1	00.30		
<i>Ehrharta longiflora</i>	00.1	00.20	*	
<i>Hordeum leporinum</i>	00.1	00.20	*	
<i>Briza maxima</i>	00.1	00.10	*	
<i>Lysimachia arvensis</i>	00.1	00.05	*	
<i>Parietaria cardiostegia</i>	00.1	00.05		
<i>Aira caryophyllea</i>	00.1	00.05	*	
<i>Romulea rosea</i>	00.1	00.05	*	

Site:	CAL17011	Type:	Quadrat (10 m x 10 m)
Date(s):	20 October 2017	Position:	-31.068725, 116.206082
Total vegetation cover (%):	25	Topography:	hill top
Tree/shrub cover >2 m (%):	12	Soil colour:	brown, whitish,
Shrub cover <2 m (%):	20	Soil:	clay loam,
Grass cover (%):	0.1	Rock type:	granite rocks
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	none		
Vegetation condition:	Excellent, EPA (2016)		
Vegetation description:	Low <i>Eucalyptus accedens</i> woodland over tall <i>Melaleuca marginata</i> open shrubland over mid <i>Melaleuca scalena</i> shrubland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Melaleuca marginata</i>	15.0	00.80		
<i>Eucalyptus accedens</i>	12.0	08.00		
<i>Melaleuca scalena</i>	03.0	02.00		
<i>Dodonaea divaricata</i>	02.0	00.30		
<i>Gastrolobium spinosum</i>	01.0	01.70		
<i>Hypocalymma angustifolium</i>	01.0	01.00		
<i>Banksia armata</i> var. <i>armata</i>	01.0	01.00		
<i>Melaleuca parviceps</i>	00.1	00.50		
<i>Austrostipa elegantissima</i>	00.1	00.50		
<i>Patersonia ?occidentalis</i>	00.1	00.40		
<i>Glischrocaryon aureum</i>	00.1	00.30		
<i>Melaleuca sclerophylla</i>	00.1	00.20		P3 (WC Act)
<i>Hakea chromatropa</i>	00.1	00.20		P1 (WC Act)
<i>Neurachne alopecuroidea</i>	00.1	00.10		

Site:	CAL17012	Type:	Quadrat (10 m x 10 m)
Date(s):	20 October 2017	Position:	-31.066692, 116.204513
Total vegetation cover (%):	80	Topography:	hill slope
Tree/shrub cover >2 m (%):	15	Soil colour:	red-brown,
Shrub cover <2 m (%):	70	Soil:	clay,
Grass cover (%):	0.5	Rock type:	granite rocks
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	weed infestation, historic clearing		
Vegetation condition:	Very Good, EPA (2016)		
Vegetation description:	Low <i>Eucalyptus loxophleba</i> woodland over <i>Casuarina obesa</i> tall open shrubland over mid <i>Spyridium globulosum</i> closed shrubland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Spyridium globulosum</i>	65.0	01.50		
<i>Eucalyptus loxophleba</i>	10.0	08.00		
<i>Casuarina obesa</i>	03.0	04.50		
<i>Dioscorea hastifolia</i>	02.0	00.40		
<i>Acacia acuminata</i>	01.0	03.50		
<i>Freesia</i> sp. sterile	01.0	00.30		
<i>Dianella revoluta</i>	00.1	00.50		
<i>Austrostipa elegantissima</i>	00.1	00.50		
<i>Lepidosperma leptostachyum</i>	00.1	00.50		
<i>Hordeum leporinum</i>	00.1	00.15	*	
<i>Neurachne alopecuroidea</i>	00.1	00.10		
<i>Cheilanthes austrotenuifolia</i>	00.1	00.10		
<i>Parietaria cardiostegia</i>	00.1	00.10		
<i>Tricoryne elatior</i>	00.1	00.05		
<i>Seringia velutina</i>				

Site:	CAL17014	Type:	Quadrat (10 m x 10 m)
Date(s):	02 November 2017	Position:	-31.076769, 116.210126
Total vegetation cover (%):	35	Topography:	hill slope
Tree/shrub cover >2 m (%):	15	Soil colour:	red-brown,
Shrub cover <2 m (%):	15	Soil:	laterite,
Grass cover (%):	0.1	Rock type:	granite rocks
Herb cover (%):	0.1	Fire age:	>5 years
Disturbance details:	none		
Vegetation condition:	Very Good, EPA (2016)		
Vegetation description:	Mid <i>Eucalyptus accedens</i> , <i>Corymbia calophylla</i> and <i>Eucalyptus wandoo</i> woodland over <i>Banksia armata</i> var. <i>armata</i> and <i>Gastrolobium spinosum</i> mid open shrubland over <i>Hibbertia hibernioides</i> var. <i>hibbertioides</i> , <i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i> and <i>Hibbertia hypericoides</i> low open shrubland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus accedens</i>	10.0	10.00		
<i>Corymbia calophylla</i>	05.0	12.00		
<i>Banksia armata</i> var. <i>armata</i>	05.0	01.20		
<i>Hibbertia hibernioides</i> var. <i>hibbertioides</i>	05.0	00.20		
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	02.0	00.30		
<i>Gastrolobium spinosum</i>	01.0	01.80		
<i>Banksia nobilis</i> subsp. <i>nobilis</i>	00.5	02.20		
<i>Hibbertia hypericoides</i>	00.5	00.30		
<i>Austrostipa elegantissima</i>	00.1	00.30		
<i>Lepidosperma pubisquameum</i>	00.1	00.20		
<i>Stackhousia pubescens</i>	00.1	00.20		
<i>Lepidobolus preissianus</i>	00.1	00.20		
<i>Amphipogon turbinatus</i>	00.1	00.20		
<i>Ursinia anthemoides</i>	00.1	00.10	*	
<i>Ptilotus manglesii</i>	00.1	00.10		
<i>Podolepis gracilis</i>	00.1	00.10		
<i>Opercularia vaginata</i>	00.1	00.10		
<i>Laxmannia squarrosa</i>	00.1	00.05		

<i>Tricoryne humilis</i>	00.1	00.05
<i>Conostylis setigera</i> subsp. <i>setigera</i>	00.1	00.05
<i>Schoenus clandestinus</i>	00.1	00.05
<i>Eucalyptus wandoo</i>		
<i>Synaphea spinulosa</i> subsp. <i>major</i>		

Site:	CAL17015	Type:	Quadrat (10 m x 10 m)
Date(s):	03 November 2017	Position:	-31.101807, 116.19601
Total vegetation cover (%):	40	Topography:	hill slope
Tree/shrub cover >2 m (%):	40	Soil colour:	brown,
Shrub cover <2 m (%):	0	Soil:	sandy clay,
Grass cover (%):	28	Rock type:	granite rocks
Herb cover (%):	0	Fire age:	>5 years
Disturbance details:	grazing – high, weed infestation,		
Vegetation condition:	Degraded, EPA (2016)		
Vegetation description:	Mid <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> over low open * <i>Avena sativa</i> , * <i>Hordeum glaucum</i> and * <i>Ehrharta longiflora</i> grassland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	40.0	12.00		
<i>Avena sativa</i>	15.0	00.30	*	
<i>Hordeum glaucum</i>	07.0	00.10	*	
<i>Ehrharta longiflora</i>	05.0	00.30	*	
<i>Bromus rubens</i>	00.5	00.20	*	
<i>Lolium perenne</i>	00.1	00.10	*	
<i>Trifolium ?hirtum</i>	00.1	00.03		

Site:	CAL17018	Type:	Quadrat (10 m x 10 m)
Date(s):	03 November 2017	Position:	-31.132973, 116.190738
Total vegetation cover (%):	40	Topography:	plain
Tree/shrub cover >2 m (%):	10	Soil colour:	red-brown,
Shrub cover <2 m (%):	30	Soil:	laterite,
Grass cover (%):	5	Rock type:	none
Herb cover (%):	1	Fire age:	not evident
Disturbance details:	none		
Vegetation condition:	Excellent, EPA (2016)		
Vegetation description:	<i>Low Eucalyptus wandoo</i> subsp. <i>wandoo</i> open woodland over <i>Allocasuarina humilis</i> and <i>Xanthorrhoea preissii</i> mid shrubland over <i>Mesomelana psuedostygia</i> and <i>Lepidosperma tenue</i> sedgeland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus wandoo</i>	10.0	10.00		
<i>Allocasuarina humilis</i>	10.0	01.00		
<i>Acacia willdenowiana</i>	07.0	00.30		
<i>Mesomelaena pseudostygia</i>	05.0	00.50		
<i>Hibbertia hypericoides</i>	05.0	00.40		
<i>Hakea incrassata</i>	03.0	00.50		
<i>Xanthorrhoea preissii</i>	02.0	01.20		
<i>Hakea erinacea</i>	01.0	00.40		
<i>Lepidosperma tenue</i>	00.5	00.40		
<i>Daviesia debilior</i> subsp. <i>sinuans</i>	00.5	00.40		P3 (WC Act)
<i>Opercularia vaginata</i>	00.5	00.10		
<i>Austrostipa elegantissima</i>	00.1	00.70		
<i>Grevillea synapheae</i> subsp. <i>synapheae</i>	00.1	00.50		
<i>Banksia armata</i>	00.1	00.40		
<i>Lepidobolus preissianus</i>	00.1	00.30		
<i>Lepidosperma pubisquameum</i>	00.1	00.30		
<i>Tetradlea confertifolia</i>	00.1	00.30		
<i>Amphipogon turbinatus</i>	00.1	00.30		
<i>Hibbertia hibbertioides</i> var. <i>hibbertioides</i>	00.1	00.20		

<i>Amphipogon caricinus</i>	00.1	00.20
<i>Cassytha racemosa</i> forma <i>racemosa</i>	00.1	00.20
<i>Xanthosia ciliata</i>	00.1	00.20
<i>Bossiaea eriocarpa</i>	00.1	00.20
<i>Burchardia congesta</i>	00.1	00.20
<i>Goodenia trichophylla</i>	00.1	00.20
<i>Stylidium pubigerum</i>	00.1	00.10
<i>Conostylis setigera</i> subsp. <i>setigera</i>	00.1	00.10
<i>Schoenus clandestinus</i>	00.1	00.05
<i>Borya sphaerocephala</i>	00.1	00.05
<i>Conostylis androstemma</i>	00.1	00.05
<i>Laxmannia squarrosa</i>	00.1	00.05
<i>Pterochaeta paniculata</i>	00.1	00.03
<i>Glischrocaryon aureum</i>		00.70
<i>Boronia ovata</i>		00.20

Site:	CAL17019	Type:	Quadrat (10 m x 10 m)
Date(s):	03 November 2017	Position:	-31.142807, 116.185541
Total vegetation cover (%):	50	Topography:	plain
Tree/shrub cover >2 m (%):	20	Soil colour:	brown,
Shrub cover <2 m (%):	10	Soil:	laterite,
Grass cover (%):	2	Rock type:	granite rocks
Herb cover (%):	3	Fire age:	not evident
Disturbance details:	weed infestation,		
Vegetation condition:	Excellent, EPA (2016)		
Vegetation description:	Low <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> woodland over <i>Banksia sessilis</i> tall isolated shrubs over <i>Bossiaea eriocarpa</i> , <i>Hibbertia hibernioides</i> var. <i>hibbertioides</i> and <i>Acacia tetragonophylla</i> low sparse shrubland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	20.0	10.00		
<i>Hibbertia hypericoides</i>	03.0	00.30		
<i>Opercularia vaginata</i>	03.0	00.10		
<i>Banksia sessilis</i>	02.0	03.00		
<i>Bossiaea eriocarpa</i>	02.0	00.40		
<i>Amphipogon turbinatus</i>	02.0	00.40		
<i>Hibbertia hibernioides</i> var. <i>hibbertioides</i>	02.0	00.20		
<i>Acacia tetragonophylla</i>	01.0	00.50		
<i>Banksia fraseri</i> var. <i>fraseri</i>	01.0	00.40		
<i>Johnsonia pubescens</i>	00.5	00.30		
<i>Hemigenia incana</i>	00.5	00.30		
<i>Isopogon</i> sp.	00.1	00.70		
<i>Banksia kippistiana</i> var. <i>kippistiana</i>	00.1	00.70		
<i>Austrostipa elegantissima</i>	00.1	00.60		
<i>Gladiolus</i> sp. sterile	00.1	00.50		
<i>Hakea prostrata</i>	00.1	00.50		
<i>Leucopogon darlingensis</i> subsp. <i>rectus</i>	00.1	00.40		P2 (WC Act)
<i>Banksia sphaerocarpa</i> var. <i>sphaerocarpa</i>	00.1	00.40		
<i>Grevillea bipinnatifida</i> subsp. <i>bipinnatifida</i>	00.1	00.40		

<i>Lepidosperma tenue</i>	00.1	00.30	
<i>Lepidosperma pubisquameum</i>	00.1	00.30	
<i>Acacia anarthros</i>	00.1	00.30	P3 (WC Act)
<i>Stackhousia pubescens</i>	00.1	00.20	
<i>Lomandra</i> sp. sterile	00.1	00.20	
<i>Drosera ?macrantha</i>	00.1	00.20	
<i>Rytidosperma caespitosum</i>	00.1	00.20	
<i>Romulea rosea</i> var. <i>australis</i>	00.1	00.10	*
<i>Platysace cirrosa</i>	00.1	00.10	
<i>Ptilotus manglesii</i>	00.1	00.10	
<i>Conostylis setigera</i> subsp. <i>setigera</i>	00.1	00.10	
<i>Dianella revoluta</i>	00.1	00.10	
<i>Goodenia pulchella</i>	00.1	00.10	
<i>Laxmannia squarrosa</i>	00.1	00.05	
<i>Daucus glochidiatus</i>	00.1	00.05	
<i>Hyalosperma cotula</i>	00.1	00.05	

Site:	CAL17020	Type:	Quadrat (10 m x 10 m)
Date(s):	02 November 2017	Position:	-31.147903, 116.186599
Total vegetation cover (%):	45	Topography:	plain
Tree/shrub cover >2 m (%):	40	Soil colour:	brown,
Shrub cover <2 m (%):	10	Soil:	sand,
Grass cover (%):	1	Rock type:	granite rocks
Herb cover (%):	0.5	Fire age:	not evident
Disturbance details:	weed infestation,		
Vegetation condition:	Excellent, EPA (2016)		
Vegetation description:	Low <i>Corymbia calophylla</i> woodland over <i>Banksia sessilis</i> var. <i>sessilis</i> tall shrubland over <i>Hibbertia hypericoides</i> , <i>Xanthorrhoea preissii</i> and <i>Acacia huegelii</i> low sparse shrubland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Corymbia calophylla</i>	30.0	10.00		
<i>Banksia sessilis</i> var. <i>sessilis</i>	15.0	03.50		
<i>Hibbertia hypericoides</i>	05.0	00.30		
<i>Xanthorrhoea preissii</i>	02.0	00.70		
<i>Acacia huegelii</i>	02.0	00.40		
<i>Amphipogon turbinatus</i>	01.0	00.30		
<i>Tetraria octandra</i>	00.5	00.40		
<i>Hibbertia commutata</i>	00.5	00.20		
<i>Hibbertia lasiopus</i>	00.5	00.20		
<i>Grevillea synapheae</i> subsp. <i>synapheae</i>	00.3	00.50		
<i>Daviesia angulata</i>	00.1	00.70		
<i>Hakea erinacea</i>	00.1	00.60		
<i>Calothamnus sanguineus</i>	00.1	00.50		
<i>Lepidosperma squamatum</i>	00.1	00.40		
<i>Patersonia rudis</i> subsp. <i>rudis</i>	00.1	00.30		
<i>Hemiandra pungens</i>	00.1	00.30		
<i>Tricoryne humilis</i>	00.1	00.30		
<i>Bossiaea eriocarpa</i>	00.1	00.30		
<i>Briza maxima</i>	00.1	00.30	*	

<i>Rytidosperma caespitosum</i>	00.1	00.30	
<i>Acacia pulchella</i> var. <i>pulchella</i>	00.1	00.30	
<i>Acacia applanata</i>	00.1	00.20	
<i>Goodenia</i> sp. sterile	00.1	00.20	
<i>Chamaescilla corymbosa</i>	00.1	00.10	
<i>Drosera</i> ? <i>macrantha</i>	00.1	00.10	
<i>Opercularia vaginata</i>	00.1	00.10	
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	00.1	00.10	
<i>Stylidium zeicolor</i>	00.1	00.10	
<i>Ursinia anthemoides</i>	00.1	00.10	*
<i>Rhodanthe citrina</i>	00.1	00.10	
<i>Hordeum glaucum</i>	00.1	00.10	*
<i>Kennedia coccinea</i>	00.1	00.10	
<i>Daucus glochidiatus</i>	00.1	00.05	
<i>Hyalosperma cotula</i>	00.1	00.05	
<i>Levenhookia stipitata</i>	00.1	00.05	
<i>Desmocladius asper</i>	00.1	00.05	
<i>Pentameris airoides</i> subsp. <i>airoides</i>	00.1	00.05	*
<i>Wahlenbergia gracilentia</i>	00.1	00.05	
<i>Poranthera microphylla</i>	00.1	00.02	

Site:	CAL17021A	Type:	Quadrat (10 m x 10 m)
Date(s):	14 November 2017	Position:	-31.148266, 116.181982
Total vegetation cover (%):	30	Topography:	plain
Tree/shrub cover >2 m (%):	30	Soil colour:	brown,
Shrub cover <2 m (%):	1	Soil:	clay loam, laterite,
Grass cover (%):	2	Rock type:	granite rocks
Herb cover (%):	0.5	Fire age:	not evident
Disturbance details:	grazing – high, livestock tracks,		
Vegetation condition:	Very Good, EPA (2016)		
Vegetation description:	Low <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> and <i>Corymbia calophylla</i> woodland over <i>Banksia sessilis</i> tall open shrubland over isolated <i>Amphipogon turbinatus</i> , <i>Enteropogon ramosus</i> and <i>Rytidosperma caespitosum</i> grasses.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Banksia sessilis</i>	20.0	02.50		
<i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	10.0	10.00		
<i>Corymbia calophylla</i>	05.0	08.00		
<i>Amphipogon turbinatus</i>	01.5	00.20		
<i>Xanthorrhoea preissii</i>	00.5	01.00		
<i>Enteropogon ramosus</i>	00.5	00.30		
<i>Patersonia ?occidentalis</i> var. <i>occidentalis</i>	00.5	00.30		
<i>Hibbertia montana</i>	00.5	00.30		P4 (WC Act)
<i>Hibbertia hibbertioides</i> var. <i>hibbertioides</i>	00.5	00.20		
<i>Rytidosperma caespitosum</i>	00.5	00.20		
<i>Austrostipa elegantissima</i>	00.1	00.30		
<i>Austrostipa exilis</i>	00.1	00.30		
<i>Lomandra</i> sp. <i>sterile</i>	00.1	00.20		
<i>Hibbertia hypericoides</i>	00.1	00.20		
<i>Ursinia anthemoides</i>	00.1	00.10	*	
<i>Ptilotus manglesii</i>	00.1	00.10		
<i>Hyalosperma cotula</i>	00.1	00.05		
<i>Aira cupaniana</i>	00.1	00.05	*	
<i>Borya sphaerocephala</i>	00.1	00.05		

Site:	CAL17022	Type:	Quadrat (10 m x 10 m)
Date(s):	01 November 2017	Position:	-31.000708, 116.205058
Total vegetation cover (%):	60	Topography:	drainage line
Tree/shrub cover >2 m (%):	60	Soil colour:	brown,
Shrub cover <2 m (%):	0.1	Soil:	sandy clay,
Grass cover (%):	14	Rock type:	none
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	weed infestation,		
Vegetation condition:	Degraded, EPA (2016)		
Vegetation description:	Mid <i>Eucalyptus wandoo</i> open forest over low open <i>Avena sativa</i> , <i>Ehrharta longiflora</i> and <i>Lolium perenne</i> open tussock grassland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus wandoo</i>	60.0	20.00		
<i>Avena sativa</i>	10.0	00.40	*	
<i>Ehrharta longiflora</i>	03.0	00.30	*	
<i>Lolium perenne</i>	00.5	00.20	*	
<i>Bromus rubens</i>	00.1	00.30	*	
<i>Hordeum glaucum</i>	00.1	00.20	*	
<i>Solanum nigrum</i>	00.1	00.20	*	
<i>Sonchus asper</i>	00.1	00.10	*	
<i>Hypochaeris radicata</i>	00.1	00.10	*	
<i>Atriplex semilunaris</i>	00.1	00.10		
<i>Tricoryne humilis</i>	00.1	00.05		
<i>Arctotheca calendula</i>	00.1	00.05	*	

Site:	CALP20001	Type:	Quadrat (10 m x 10m)
Date(s):	07 October 2015, 06 April 2016	Position:	-31.054107, 116.207351
Total vegetation cover (%):	90	Topography:	undulating plain
Tree/shrub cover >2 m (%):	85	Soil colour:	red-brown
Shrub cover <2 m (%):	0	Soil:	sandy loam
Grass cover (%):	5	Rock type:	none
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	evidence of feral animals, grazing – medium, historic clearing, weed infestation,		
Vegetation condition:	Very Good, Keighery (1994)		
Vegetation description:	Low Eucalyptus loxophleba and E. wandoo forest over isolated low *Lolium rigidum and *Avena barbata tussock grasses and isolated low Dianella revoluta forbs.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus loxophleba</i>	70.0	09.00		
<i>Eucalyptus wandoo</i>	15.0	10.00		
<i>Avena barbata</i>	02.0	00.20	*	
<i>Lolium rigidum</i>	02.0	00.10	*	
<i>Dianella revoluta</i>	00.1	00.40		
<i>Briza maxima</i>	00.1	00.20	*	
<i>Hordeum leporinum</i>	00.1	00.10	*	

Site:	CALP20002	Type:	Quadrat (10 m x 10m)
Date(s):	07 October 2015, 06 April 2016	Position:	-31.037024, 116.208161
Total vegetation cover (%):	35	Topography:	undulating plain
Tree/shrub cover >2 m (%):	20	Soil colour:	red-brown
Shrub cover <2 m (%):	5	Soil:	sandy loam
Grass cover (%):	10	Rock type:	none
Herb cover (%):	5	Fire age:	not evident
Disturbance details:	grazing – medium, historic clearing, litter, weed infestation		
Vegetation condition:	Good, Keighery (1994)		
Vegetation description:	Low open <i>Eucalyptus loxophleba</i> woodland over tall open <i>Acacia acuminata</i> shrubland over low isolated <i>Gompholobium aristatum</i> , <i>Gastrolobium calycinum</i> and * <i>Lupinus cosentinii</i> shrubs over low open * <i>Avena barbata</i> tussock grassland and isolated low <i>Opercularia vaginata</i>		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Acacia acuminata</i>	25.0	04.00		
<i>Eucalyptus loxophleba</i>	05.0	08.00		
<i>Podolepis aristata</i> subsp. <i>aristata</i>	02.0	00.20		
<i>Gastrolobium calycinum</i>	01.0	00.80		
<i>Gompholobium aristatum</i>	01.0	00.60		
<i>Avena barbata</i>	01.0	00.30	*	
<i>Lupinus cosentinii</i>	01.0	00.30	*	
<i>Opercularia vaginata</i>	01.0	00.20		
<i>Podolepis lessonii</i>	01.0	00.20		
<i>Dianella revoluta</i>	00.1	00.60		
<i>Acacia lasiocarpa</i> var. <i>sedifolia</i>	00.1	00.50		
<i>Dampiera lavandulacea</i>	00.1	00.30		
<i>Astroloma serratifolium</i>	00.1	00.30		
<i>Austrostipa elegantissima</i>	00.1	00.30		
<i>Burchardia congesta</i>	00.1	00.30		
<i>Neurachne alopecuroides</i>	00.1	00.30		
<i>Bromus diandrus</i>	00.1	00.20	*	
<i>Briza maxima</i>	00.1	00.20	*	

Site:	CALP20004	Type:	Quadrat (10 m x 10m)
Date(s):	07 October 2015	Position:	-31.013213, 116.210602
Total vegetation cover (%):	80	Topography:	creek
Tree/shrub cover >2 m (%):	80	Soil colour:	brown, grey
Shrub cover <2 m (%):	0	Soil:	sandy clay
Grass cover (%):	0	Rock type:	none
Herb cover (%):	0	Fire age:	not evident
Disturbance details:	erosion channels, grazing – medium, livestock tracks		
Vegetation condition:	Good, Keighery (1994)		
Vegetation description:	Low open <i>Eucalyptus loxophleba</i> and <i>E. rudis</i> woodland over tall closed <i>Melaleuca raphiophylla</i> shrubland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Melaleuca raphiophylla</i>	70.0	04.00		
<i>Eucalyptus rudis</i>	05.0	10.00		
<i>Eucalyptus loxophleba</i>	05.0	10.00		

Site:	GAP020	Type:	Quadrat (10 m x 10 m)
Date(s):	09 September 2016	Position:	-31.056309, 116.207778
Total vegetation cover (%):	100	Topography:	drainage line
Tree/shrub cover >2 m (%):	45	Soil colour:	brown
Shrub cover <2 m (%):	0	Soil:	clay loam
Grass cover (%):	55	Rock type:	Nil rock
Herb cover (%):	50	Fire age:	not evident
Disturbance details:	grazing – high, weed infestation,		
Vegetation condition:	Degraded, Keighery (1994)		
Vegetation description:	Mid open <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> , <i>E. rudis</i> and <i>E. wandoo</i> woodland over low <i>Avena barbata</i> , <i>Ehrharta longiflora</i> and <i>Lolium rigidum</i> tussock grassland and low closed <i>Oxalis purpurea</i> forbland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Oxalis purpurea</i>	50.0	00.05	*	
<i>Ehrharta longiflora</i>	40.0	00.40	*	
<i>Eucalyptus wandoo</i>	25.0	12.00		
<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	12.0	15.00		
<i>Eucalyptus rudis</i>	10.0	12.00		
<i>Avena barbata</i>	05.0	00.35	*	
<i>Lolium rigidum</i>	05.0	00.25	*	
<i>Romulea rosea</i> var. <i>communis</i>	01.0	00.25	*	
<i>Triticum aestivum</i>	00.1	00.40	*	
<i>Monoculus monstrosus</i>	00.1	00.40	*	
<i>Raphanus raphanistrum</i>	00.1	00.25	*	
<i>Hypochaeris glabra</i>	00.1	00.20	*	
<i>Trifolium hirtum</i>	00.1	00.20	*	
<i>Lysimachia arvensis</i>	00.1	00.15	*	
<i>Arctotheca calendula</i>	00.1	00.15	*	
<i>Sonchus oleraceus</i>	00.1	00.10	*	

Site:	GAP021	Type:	Quadrat (10 m x 10 m)
Date(s):	13 September 2016	Position:	-31.060541, 116.20638
Total vegetation cover (%):	60	Topography:	hill slope
Tree/shrub cover >2 m (%):	35	Soil colour:	red-brown
Shrub cover <2 m (%):	40	Soil:	gravel / alluvial, clay loam
Grass cover (%):	2	Rock type:	laterite
Herb cover (%):	0.2	Fire age:	not evident
Disturbance details:	historic operations, weed infestation,		
Vegetation condition:	Excellent, Keighery (1994)		
Vegetation description:	Low <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> woodland over low <i>Acacia lasiocarpa</i> var. <i>sedifolia</i> and <i>Gastrolobium spathulatum</i> shrubland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	35.0	08.00		
<i>Gastrolobium spathulatum</i>	20.0	00.40		
<i>Acacia lasiocarpa</i> var. <i>sedifolia</i>	15.0	00.40		
<i>Hibbertia hypericoides</i>	02.0	00.30		
<i>Desmocladius asper</i>	01.5	00.15		
<i>Bossiaea spinescens</i>	01.0	00.60		
<i>Austrostipa elegantissima</i>	01.0	00.50		
<i>Bossiaea spinescens</i>	01.0	00.50		
<i>Comesperma volubile</i>	01.0	00.50		
<i>Orthrosanthus laxis</i> var. <i>gramineus</i>	00.1	00.30		
<i>Melaleuca radula</i>	00.1	00.30		
<i>Ursinia anthemoides</i>	00.1	00.25	*	
<i>Hovea pungens</i>	00.1	00.20		
<i>Lomandra micrantha</i> subsp. <i>micrantha</i>	00.1	00.20		
<i>Eriochilus dilatatus</i> subsp. <i>multiflorus</i>	00.1	00.20		
<i>Freesia</i> sp.	00.1	00.15	*	
<i>Cheilanthes austrotenuifolia</i>	00.1	00.15		
<i>Ericksonella saccharata</i>	00.1	00.10		
<i>Lysimachia arvensis</i>	00.1	00.08	*	
<i>Lagenophora huegelii</i>	00.1	00.01		

Site:	GAP022	Type:	Quadrat (10 m x 10 m)
Date(s):	13 September 2016	Position:	-31.071853, 116.204567
Total vegetation cover (%):	40	Topography:	hill top
Tree/shrub cover >2 m (%):	30	Soil colour:	red-brown
Shrub cover <2 m (%):	15	Soil:	clay loam
Grass cover (%):	0.1	Rock type:	laterite
Herb cover (%):	1	Fire age:	not evident
Disturbance details:	weed infestation		
Vegetation condition:	Excellent, Keighery (1994)		
Vegetation description:	Mid <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> woodland over low open <i>Acacia lasiocarpa</i> var. <i>sedifolia</i> and <i>Gastrolobium spathulatum</i> shrubland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	30.0	12.00		
<i>Acacia lasiocarpa</i> var. <i>sedifolia</i>	10.0	00.50		
<i>Gastrolobium spathulatum</i>	04.0	00.25		
<i>Loxocarya cinerea</i>	00.1	02.00		
<i>Acacia microbotrya</i>	00.1	01.00		
<i>Comesperma volubile</i>	00.1	00.70		
<i>Austrostipa elegantissima</i>	00.1	00.40		
<i>Freesia</i> sp.	00.1	00.20	*	
<i>Ursinia anthemoides</i>	00.1	00.20	*	
<i>Comesperma integerrimum</i>	00.1	00.20		
<i>Romulea rosea</i>	00.1	00.20	*	
<i>Oxalis pes-caprae</i>	00.1	00.20	*	
<i>Olearia rudis</i>	00.1	00.20		
<i>Bossiaea spinescens</i>	00.1	00.20		
<i>Pauridia glabella</i> var. <i>leptantha</i>	00.1	00.15		
<i>Daucus glochidiatus</i>	00.1	00.10		
<i>Lysimachia arvensis</i>	00.1	00.10	*	
<i>Hydrocotyle</i> ? <i>callicarpa</i>	00.1	00.10		
<i>Petrorhagia dubia</i>	00.1	00.10	*	
<i>Lagenophora huegelii</i>	00.1	00.01		

Site:	NN3.01	Type:	Quadrat (10 m x 10 m)
Date(s):	04 November 2014, 15 June 2015	Position:	-30.996487, 116.206084
Total vegetation cover (%):	95	Topography:	riparian vegetation of small creek
Tree/shrub cover >2 m (%):	50	Soil colour:	black
Shrub cover <2 m (%):	0	Soil:	loamy sand
Grass cover (%):	70	Rock type:	none
Herb cover (%):	0.1	Fire age:	>10 years
Disturbance details:	clearing, firebreak, fenceline, lack of understorey, intense weeds		
Vegetation condition:	Degraded, Keighery (1994)		
Vegetation description:	Tall open <i>Eucalyptus rudis</i> forest over a low open <i>Melaleuca raphiophylla</i> woodland over low <i>Avena barbata</i> , <i>Bromus diandrus</i> and <i>Ehrharta calycina</i> tussock grassland and isolated low <i>Sonchus oleraceus</i> forbs.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus rudis</i>	40.0	25.00		
<i>Avena barbata</i>	30.0	00.50	*	
<i>Ehrharta calycina</i>	30.0	00.40	*	
<i>Melaleuca raphiophylla</i>	10.0	06.00		
<i>Bromus diandrus</i>	10.0	00.20	*	
<i>Sonchus oleraceus</i>	00.1	00.30	*	

Site:	NN3.01a	Type:	Quadrat (10 m x 10 m)
Date(s):	04 November 2014, 15 June 2015	Position:	-30.995648, 116.206218
Total vegetation cover (%):	95	Topography:	slope of low rise undulating plain
Tree/shrub cover >2 m (%):	50	Soil colour:	brown
Shrub cover <2 m (%):	0	Soil:	clay loam
Grass cover (%):	80	Rock type:	none
Herb cover (%):	0	Fire age:	>10 years
Disturbance details:	clearing, no native understorey, intense weeds		
Vegetation condition:	Degraded, Keighery (1994)		
Vegetation description:	Mid open <i>Eucalyptus wandoo</i> and <i>Eucalyptus loxophleba</i> forest over low * <i>Avena barbata</i> , * <i>Ehrharta longiflora</i> and * <i>Bromus diandrus</i> tussock grassland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Ehrharta longiflora</i>	50.0	00.30	*	
<i>Eucalyptus loxophleba</i>	30.0	15.00		
<i>Eucalyptus wandoo</i>	20.0	20.00		
<i>Avena barbata</i>	15.0	00.30	*	
<i>Bromus diandrus</i>	15.0	00.20	*	

Site:	NN3.02	Type:	Quadrat (10 m x 10 m)
Date(s):	04 November 2014, 15 June 2015	Position:	-30.988152, 116.206425
Total vegetation cover (%):	90	Topography:	slope of low rise undulating plain
Tree/shrub cover >2 m (%):	50	Soil colour:	brown
Shrub cover <2 m (%):	0	Soil:	clay loam
Grass cover (%):	90	Rock type:	none
Herb cover (%):	0	Fire age:	>10 years
Disturbance details:	cleared, no understorey, dense weeds		
Vegetation condition:	Degraded, Keighery (1994)		
Vegetation description:	Mid open <i>Eucalyptus loxophleba</i> forest over low * <i>Avena barbata</i> , * <i>Bromus diandrus</i> and <i>Austrostipa variabilis</i> tussock grassland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus loxophleba</i>	50.0	15.00		
<i>Avena barbata</i>	40.0	00.30	*	
<i>Austrostipa variabilis</i>	30.0	00.20		
<i>Bromus diandrus</i>	20.0	00.20	*	

Site:	S3A21	Type:	Quadrat (5 m x 20 m)
Date(s):	25 November 2015	Position:	-31.001806, 116.207945
Total vegetation cover (%):	40	Topography:	hill slope
Tree/shrub cover >2 m (%):	39	Soil colour:	brown
Shrub cover <2 m (%):	0	Soil:	sandy loam: clay loam
Grass cover (%):	1	Rock type:	none
Herb cover (%):	0	Fire age:	not evident
Disturbance details:	historic operations, litter, weed infestation		
Vegetation condition:	Degraded, Keighery (1994)		
Vegetation description:	Mid open <i>Eucalyptus loxophleba</i> forest over isolated low * <i>Avena barbata</i> , * <i>Ehrharta calycina</i> and * <i>Lolium rigidum</i> tussock grasses.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus loxophleba</i>	39.0	13.00		
<i>Ehrharta calycina</i>	00.1	00.50	*	
<i>Avena barbata</i>	00.1	00.50	*	
<i>Lolium rigidum</i>	00.1	00.30	*	

Site:	S3A22	Type:	Quadrat (2.5 m x 40 m)
Date(s):	25 November 2015, 06 April 2016	Position:	-31.009856, 116.210185
Total vegetation cover (%):	50	Topography:	undulating plain
Tree/shrub cover >2 m (%):	30	Soil colour:	brown
Shrub cover <2 m (%):	0	Soil:	sandy loam
Grass cover (%):	20	Rock type:	none
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	historic operations, litter, vehicle tracks, weed infestation		
Vegetation condition:	Degraded, Keighery (1994)		
Vegetation description:	Mid <i>Eucalyptus rudis</i> and <i>E. loxophleba</i> woodland over mid open <i>Avena barbata</i> , <i>Cynodon dactylon</i> and <i>Ehrharta calycina</i> tussock grassland and isolated low <i>Sonchus oleraceus</i> forbs.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus rudis</i>	24.0	13.00		
<i>Avena barbata</i>	08.0	00.90	*	
<i>Eucalyptus loxophleba</i>	06.0	13.00		
<i>Eragrostis curvula</i>	06.0	01.00	*	
<i>Cynodon dactylon</i>	05.0	00.20	*	
<i>Ehrharta calycina</i>	01.0	00.80	*	
<i>Sonchus oleraceus</i>	00.1	00.30	*	
<i>Bromus diandrus</i>	00.1	00.20	*	

Site:	S3A23	Type:	Quadrat (10 m x 10m)
Date(s):	07 October 2015, 06 April 2016	Position:	-31.024384, 116.211572
Total vegetation cover (%):	65	Topography:	undulating plain
Tree/shrub cover >2 m (%):	60	Soil colour:	red-brown
Shrub cover <2 m (%):	1	Soil:	sandy loam
Grass cover (%):	4	Rock type:	none
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	historic clearing, litter, weed infestation		
Vegetation condition:	Good, Keighery (1994)		
Vegetation description:	Mid <i>Eucalyptus wandoo</i> open forest over isolated mid <i>Allocasuarina huegeliana</i> and <i>Melaleuca lateriflora</i> shrubs over isolated low <i>Hakea incrassata</i> , <i>Hibbertia polystachya</i> and <i>Lechenaultia biloba</i> shrubs over isolated low <i>Austrostipa campylachne</i> , <i>A. elegantissima</i>		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus wandoo</i>	60.0	15.00		
<i>Austrostipa campylachne</i>	02.0	00.30		
<i>Melaleuca lateriflora</i>	01.0	02.00		
<i>Hakea incrassata</i>	01.0	01.00		
<i>Austrostipa elegantissima</i>	01.0	00.30		
<i>Hibbertia polystachya</i>	01.0	00.10		
<i>Allocasuarina huegeliana</i>	00.5	01.20		
<i>Xanthorrhoea preissii</i>	00.5	00.50		
<i>Dianella revoluta</i>	00.1	00.40		
<i>Avena barbata</i>	00.1	00.30	*	
<i>Lechenaultia biloba</i>	00.1	00.30		
<i>Acacia applanata</i>	00.1	00.20		
<i>Arthropodium dyeri</i>	00.1	00.20		
<i>Lolium rigidum</i>	00.1	00.20	*	
<i>Briza maxima</i>	00.1	00.20	*	

Site:	S3A24	Type:	Quadrat (10 m x 10 m)
Date(s):	25 November 2015, 06 April 2016	Position:	-31.040222, 116.208012
Total vegetation cover (%):	35	Topography:	creek
Tree/shrub cover >2 m (%):	35	Soil colour:	red-orange
Shrub cover <2 m (%):	0	Soil:	laterite
Grass cover (%):	0.1	Rock type:	none
Herb cover (%):	0	Fire age:	not evident
Disturbance details:	litter, weed infestation		
Vegetation condition:	Good, Keighery (1994)		
Vegetation description:	Low open <i>Casuarina obesa</i> forest over isolated low <i>Austrostipa elegantissima</i> , * <i>Avena barbata</i> and * <i>Ehrharta calycina</i> tussock grasses.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Casuarina obesa</i>	35.0	09.00		
<i>Eucalyptus rudis</i>	00.1	14.00		
<i>Eucalyptus loxophleba</i>	00.1	12.00		
<i>Acacia acuminata</i>	00.1	06.00		
<i>Austrostipa elegantissima</i>	00.1	00.50		
<i>Avena barbata</i>	00.1	00.40	*	
<i>Briza maxima</i>	00.1	00.30	*	
<i>Ehrharta calycina</i>	00.1	00.30	*	

Site:	S3A27	Type:	Quadrat (10 m x 10m)
Date(s):	07 October 2015	Position:	-31.089326, 116.200661
Total vegetation cover (%):	40	Topography:	Plain
Tree/shrub cover >2 m (%):	40	Soil colour:	brown
Shrub cover <2 m (%):	2	Soil:	clay loam
Grass cover (%):	0.5	Rock type:	none
Herb cover (%):	0.2	Fire age:	not evident
Disturbance details:	weeds		
Vegetation condition:	Excellent, Keighery (1994)		
Vegetation description:	Mid <i>Corymbia calophylla</i> open forest over isolated mid <i>Allocasuarina ? campestris</i> and <i>Adenanthos cygnorum</i> shrubs over isolated low <i>*Avena barbata</i> , <i>*Briza minor</i> and <i>*Bromus diandrus</i> tussock grasses and isolated low <i>Burchardia congesta</i> , <i>Podolepis aristata</i> subsp. <i>aristata</i> and <i>Ptilotus manglesii</i> forbs		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Corymbia calophylla</i>	40.0	18.00		
<i>Allocasuarina ? campestris</i>	01.0	01.80		
<i>Adenanthos cygnorum</i>	01.0	01.50		
<i>Bromus diandrus</i>	00.1	00.30	*	
<i>Burchardia congesta</i>	00.1	00.20		
<i>Briza maxima</i>	00.1	00.20	*	
<i>Avena barbata</i>	00.1	00.20	*	
<i>Briza minor</i>	00.1	00.10	*	
<i>Podolepis aristata</i> subsp. <i>aristata</i>	00.1	00.10		
<i>Ptilotus manglesii</i>	00.1	00.10		

Site:	S3A28	Type:	Quadrat (10 m x 10 m)
Date(s):	25 November 2015, 06 April 2016	Position:	-31.098915, 116.198281
Total vegetation cover (%):	40	Topography:	hill slope
Tree/shrub cover >2 m (%):	35	Soil colour:	brown
Shrub cover <2 m (%):	1	Soil:	clay loam, laterite
Grass cover (%):	15	Rock type:	none
Herb cover (%):	0	Fire age:	not evident
Disturbance details:	historic clearing, litter, weed infestation		
Vegetation condition:	Degraded, Keighery (1994)		
Vegetation description:	Mid open <i>Corymbia calophylla</i> and <i>Eucalyptus wandoo</i> forest over isolated mid <i>Allocasuarina humilis</i> shrubs over isolated low <i>Macrozamia riedlei</i> and <i>Phyllanthus calycinus</i> shrubs over mid open * <i>Avena barbata</i> , * <i>Bromus diandrus</i> and * <i>Ehrharta longiflora</i> tussock		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Corymbia calophylla</i>	18.0	22.00		
<i>Eucalyptus wandoo</i>	16.0	20.00		
<i>Avena barbata</i>	05.0	00.80	*	
<i>Ehrharta longiflora</i>	05.0	00.70	*	
<i>Bromus diandrus</i>	05.0	00.70	*	
<i>Allocasuarina humilis</i>	01.0	01.30		
<i>Macrozamia riedlei</i>	01.0	00.70		
<i>Gastrolobium spinosum</i>	00.5	01.20		
<i>Phyllanthus calycinus</i>	00.1	00.30		
<i>Euphorbia drummondii</i>	00.1	00.10		
<i>Kennedia prostrata</i>	00.1	00.10		

Site:	S3A29	Type:	Quadrat (10 m x 10 m)
Date(s):	25 November 2015	Position:	-31.112005, 116.196177
Total vegetation cover (%):	30	Topography:	plain
Tree/shrub cover >2 m (%):	25	Soil colour:	red-orange, brown
Shrub cover <2 m (%):	6	Soil:	laterite
Grass cover (%):	2	Rock type:	none
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	litter, weed infestation		
Vegetation condition:	Very Good, Keighery (1994)		
Vegetation description:	Mid <i>Corymbia calophylla</i> and <i>Eucalyptus wandoo</i> woodland over tall sparse <i>Banksia sessilis</i> and <i>Casuarina obesa</i> shrubland over low sparse <i>Xanthorrhoea preissii</i> , <i>Melaleuca trichophylla</i> and <i>Bossiaea eriocarpa</i> shrubland over isolated mid <i>Neurachne alopecuroidea</i>		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Corymbia calophylla</i>	20.0	24.00		
<i>Eucalyptus wandoo</i>	05.0	22.00		
<i>Banksia sessilis</i>	05.0	03.50		
<i>Xanthorrhoea preissii</i>	02.0	00.90		
<i>Casuarina obesa</i>	01.0	06.00		
<i>Leucopogon planifolius</i>	01.0	01.10		
<i>Hibbertia hypericoides</i>	01.0	00.50		
<i>Bossiaea eriocarpa</i>	01.0	00.50		
<i>Melaleuca trichophylla</i>	01.0	00.40		
<i>Neurachne alopecuroidea</i>	01.0	00.40		
<i>Daviesia decurrens</i>	00.1	01.00		
<i>Lepidosperma</i> sp.	00.1	00.80		
<i>Bromus diandrus</i>	00.1	00.80	*	
<i>Hakea lissocarpa</i>	00.1	00.80		
<i>Austrostipa elegantissima</i>	00.1	00.70		
<i>Austrostipa semibarbata</i>	00.1	00.60		
<i>Avena barbata</i>	00.1	00.60	*	
<i>Dianella revoluta</i>	00.1	00.50		

<i>Hakea stenocarpa</i>	00.1	00.40	
<i>Tetraria octandra</i>	00.1	00.40	
<i>Acacia shuttleworthii</i>	00.1	00.30	
<i>Dampiera alata</i>	00.1	00.30	
<i>Adenanthos cygnorum</i>	00.1	00.30	
<i>Briza minor</i>	00.1	00.30	*
<i>Gonocarpus cordiger</i>	00.1	00.30	
<i>Grevillea synapheae</i> subsp. <i>synapheae</i>	00.1	00.30	
<i>Lepidosperma calcicola</i>	00.1	00.30	
<i>Lomandra ? preissii</i>	00.1	00.30	
<i>Conostylis candicans</i>	00.1	00.30	
<i>Briza maxima</i>	00.1	00.20	*
<i>Opercularia vaginata</i>	00.1	00.20	

Site:	S3A30	Type:	Quadrat (10 m x 10 m)
Date(s):	25 November 2015, 06 April 2016	Position:	-31.127231, 116.193595
Total vegetation cover (%):	50	Topography:	hill slope
Tree/shrub cover >2 m (%):	45	Soil colour:	red-orange, brown
Shrub cover <2 m (%):	8	Soil:	laterite
Grass cover (%):	5	Rock type:	none
Herb cover (%):	0	Fire age:	not evident
Disturbance details:	historic clearing, litter, weed infestation		
Vegetation condition:	Good, Keighery (1994)		
Vegetation description:	Mid open <i>Corymbia calophylla</i> and <i>Eucalyptus wandoo</i> forest over low sparse <i>Hibbertia hypericoides</i> and <i>Phyllanthus calycinus</i> shrubland over isolated low <i>Lepidosperma calcicola</i> and <i>Lepidosperma</i> sp. sedges, isolated low <i>Austrostipa elegantissima</i> , * <i>Briza maxima</i> and <i>Stypandra glauca</i>		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Corymbia calophylla</i>	25.0	25.00		
<i>Eucalyptus wandoo</i>	20.0	25.00		
<i>Hibbertia hypericoides</i>	04.0	00.40		
<i>Lepidosperma calcicola</i>	04.0	00.30		
<i>Phyllanthus calycinus</i>	02.0	00.40		
<i>Opercularia vaginata</i>	01.0	00.30		
<i>Persoonia coriacea</i>	00.1	01.00		
<i>Avena barbata</i>	00.1	00.80	*	
<i>Dianella revoluta</i>	00.1	00.80		
<i>Lepidosperma</i> sp.	00.1	00.60		
<i>Briza maxima</i>	00.1	00.30	*	
<i>Stypandra glauca</i>	00.1	00.30		
<i>Austrostipa elegantissima</i>	00.1	00.30		
<i>Asparagus asparagoides</i>	00.1	00.30	*	
<i>Dampiera lavandulacea</i>	00.1	00.30		

Site:	S3A31	Type:	Quadrat (10 m x 10 m)
Date(s):	25 November 2015, 06 April 2016	Position:	-31.130136, 116.193051
Total vegetation cover (%):	80	Topography:	drainage line
Tree/shrub cover >2 m (%):	75	Soil colour:	brown
Shrub cover <2 m (%):	0.1	Soil:	clay
Grass cover (%):	35	Rock type:	none
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	historic clearing, litter, weed infestation		
Vegetation condition:	Good, Keighery (1994)		
Vegetation description:	Mid <i>Eucalyptus wandoo</i> woodland over low <i>Melaleuca raphiophylla</i> forest over tall open <i>Lepidosperma pubisquameum</i> , * <i>Typha orientalis</i> and * <i>Juncus acutus</i> subsp. <i>acutus</i> sedges over low * <i>Cynodon dactylon</i> open grassland and isolated low * <i>Sonchus oleraceus</i> forbs.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Melaleuca raphiophylla</i>	75.0	06.00		
<i>Eucalyptus wandoo</i>	25.0	12.00		
<i>Cynodon dactylon</i>	20.0	00.50	*	
<i>Lepidosperma pubisquameum</i>	15.0	01.10		
<i>Typha orientalis</i>	01.0	01.80		
<i>Melaleuca lateritia</i>	00.1	01.50		
<i>Juncus acutus</i> subsp. <i>acutus</i>	00.1	01.00	*	
<i>Sonchus oleraceus</i>	00.1	00.80	*	
<i>Austrostita elegantissima</i>	00.1	00.50		

Site:	S3A32	Type:	Quadrat (10 m x 10 m)
Date(s):	26 November 2015, 07 April 2016	Position:	-31.139287, 116.18883
Total vegetation cover (%):	60	Topography:	undulating plain
Tree/shrub cover >2 m (%):	40	Soil colour:	brown
Shrub cover <2 m (%):	5	Soil:	sandy loam
Grass cover (%):	6	Rock type:	none
Herb cover (%):	12	Fire age:	not evident
Disturbance details:	litter, weed infestation		
Vegetation condition:	Very Good, Keighery (1994)		
Vegetation description:	Mid open <i>Eucalyptus wandoo</i> forest low sparse <i>Hibbertia hypericoides</i> , <i>Bossiaea eriocarpa</i> and <i>Hibbertia lasiopus</i> shrubland over low sparse <i>Lepidosperma</i> sp. and <i>Tetraria octandra</i> sedgeland, isolated mid <i>Austrostipa elegantissima</i> tussock grasses		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus wandoo</i>	40.0	15.00		
<i>Opercularia vaginata</i>	10.0	00.30		
<i>Hibbertia hypericoides</i>	04.0	00.50		
<i>Lepidosperma squamatum</i>	03.0	00.40		
<i>Tetraria octandra</i>	02.0	00.30		
<i>Bossiaea eriocarpa</i>	01.0	00.40		
<i>Lomandra</i> sp.	01.0	00.40		
<i>Cassytha glabella</i> forma <i>casuarinae</i>	01.0	00.00		
<i>Austrostipa semibarbata</i>	00.1	00.50		
<i>Dianella revoluta</i>	00.1	00.50		
<i>Arthropodium dyeri</i>	00.1	00.40		
<i>Lechenaultia floribunda</i>	00.1	00.40		
<i>Austrostipa elegantissima</i>	00.1	00.40		
<i>Patersonia rudis</i> subsp. <i>rudis</i>	00.1	00.30		
<i>Hibbertia lasiopus</i>	00.1	00.30		
<i>Bromus diandrus</i>	00.1	00.30	*	
<i>Kennedia prostrata</i>	00.1	00.20		
<i>Austrostipa hemipogon</i>	00.1	00.20		

<i>Xanthosia candida</i>	00.1	00.20	
<i>Romulea rosea</i>	00.1	00.20	*
<i>Patersonia occidentalis</i>	00.1	00.20	
<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>	00.1	00.20	
<i>Ptilotus manglesii</i>	00.1	00.10	

Site:	S3A33	Type:	Quadrat (10 m x 10 m)
Date(s):	26 November 2015, 07 April 2016	Position:	-31.148066, 116.185137
Total vegetation cover (%):	40	Topography:	undulating plain
Tree/shrub cover >2 m (%):	30	Soil colour:	brown, grey
Shrub cover <2 m (%):	10	Soil:	sand
Grass cover (%):	1	Rock type:	none
Herb cover (%):	1	Fire age:	not evident
Disturbance details:	weed infestation		
Vegetation condition:	Very Good, Keighery (1994)		
Vegetation description:	Mid open <i>Corymbia calophylla</i> woodland over tall open <i>Banksia sessilis</i> shrubland over low sparse <i>Bossiaea eriocarpa</i> , <i>Hibbertia hypericoides</i> and <i>Phyllanthus calycinus</i> shrubland over isolated low <i>Austrostipa semibarbata</i> , * <i>Briza maxima</i> and * <i>Ehrharta calycina</i>		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Banksia sessilis</i>	20.0	03.50		
<i>Corymbia calophylla</i>	10.0	15.00		
<i>Hibbertia hypericoides</i>	05.0	00.40		
<i>Bossiaea eriocarpa</i>	01.5	00.50		
<i>Tetraria octandra</i>	01.0	00.20		
<i>Phyllanthus calycinus</i>	01.0	00.10		
<i>Gompholobium tomentosum</i>	00.5	00.50		
<i>Leptospermum erubescens</i>	00.1	01.50		
<i>Daviesia angulata</i>	00.1	00.70		
<i>Austrostipa semibarbata</i>	00.1	00.60		
<i>Dianella revoluta</i>	00.1	00.50		
<i>Verreauxia reinwardtii</i>	00.1	00.50		
<i>Ehrharta calycina</i>	00.1	00.50	*	
<i>Arthropodium dyeri</i>	00.1	00.50		
<i>Acacia pulchella</i>	00.1	00.50		
<i>Tripterococcus brunonis</i>	00.1	00.40		
<i>Grevillea synapheae</i> subsp. <i>synapheae</i>	00.1	00.40		
<i>Lomandra maritima</i>	00.1	00.40		

<i>Acacia huegelii</i>	00.1	00.40	
<i>Acacia willdenowiana</i>	00.1	00.40	
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	00.1	00.40	
<i>Gonocarpus cordiger</i>	00.1	00.30	
<i>Romulea rosea</i>	00.1	00.20	*
<i>Briza maxima</i>	00.1	00.20	*
<i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	00.1	00.20	*
<i>Gastrolobium capitatum</i>	00.1	00.20	

Site:	S3A45	Type:	Quadrat (10 m x 10 m)
Date(s):	25 November 2015, 06 April 2016	Position:	-31.11969, 116.19457
Total vegetation cover (%):	35	Topography:	plain
Tree/shrub cover >2 m (%):	28	Soil colour:	red-orange, brown
Shrub cover <2 m (%):	3	Soil:	laterite
Grass cover (%):	6	Rock type:	none
Herb cover (%):	1	Fire age:	not evident
Disturbance details:	historic clearing, litter, weed infestation		
Vegetation condition:	Good, Keighery (1994)		
Vegetation description:	Mid <i>Corymbia calophylla</i> woodland over isolated mid <i>Adenanthos cygnorum</i> shrubs over isolated low <i>Hibbertia hypericoides</i> , <i>Phyllanthus calycinus</i> and <i>Daviesia decurrens</i> shrubs over isolated mid <i>*Briza maxima</i> , <i>*Ehrharta calycina</i> and <i>*Avena barbata</i> tussock grass		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Corymbia calophylla</i>	28.0	25.00		
<i>Tetraria octandra</i>	02.0	00.90		
<i>Briza maxima</i>	02.0	00.50	*	
<i>Adenanthos cygnorum</i>	01.0	01.20		
<i>Lepidosperma costale</i>	01.0	00.80		
<i>Ehrharta calycina</i>	01.0	00.70	*	
<i>Hibbertia hypericoides</i>	01.0	00.50		
<i>Stypandra glauca</i>	00.5	00.80		
<i>Phyllanthus calycinus</i>	00.5	00.40		
<i>Xanthorrhoea preissii</i>	00.1	02.00		
<i>Sonchus oleraceus</i>	00.1	00.80	*	
<i>Macrozamia riedlei</i>	00.1	00.80		
<i>Ehrharta longiflora</i>	00.1	00.70	*	
<i>Briza minor</i>	00.1	00.60	*	
<i>Lepidosperma leptostachyum</i>	00.1	00.50		
<i>Daviesia decurrens</i>	00.1	00.50		
<i>Avena barbata</i>	00.1	00.50	*	
<i>Bromus diandrus</i>	00.1	00.20	*	

Solanum nigrum

00.1

00.20

*

Site:	S3A47	Type:	Quadrat (10 m x 10 m)
Date(s):	25 November 2015, 14 April 2016	Position:	-31.030988, 116.208895
Total vegetation cover (%):	30	Topography:	hill slope
Tree/shrub cover >2 m (%):	11	Soil colour:	brown
Shrub cover <2 m (%):	4	Soil:	clay loam: laterite
Grass cover (%):	25	Rock type:	none
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	historic clearing, historic operations, litter, weed infestation		
Vegetation condition:	Degraded, Keighery (1994)		
Vegetation description:	Mid <i>Eucalyptus wandoo</i> woodland over isolated low <i>Gastrolobium polystachyum</i> , <i>Hibbertia hypericoides</i> and <i>Lechenaultia floribunda</i> shrubs over mid open <i>Austrostipa semibarbata</i> , <i>A. elegantissima</i> and <i>*Avena barbata</i> tussock grassland.		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Austrostipa semibarbata</i>	20.0	00.60		
<i>Eucalyptus wandoo</i>	11.0	15.00		
Poaceae sp.	05.0	00.20		
<i>Gastrolobium polystachyum</i>	01.0	00.40		
<i>Hibbertia hypericoides</i>	01.0	00.40		
<i>Lepidosperma tenue</i>	01.0	00.40		
<i>Lechenaultia floribunda</i>	00.5	00.30		
<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>	00.5	00.20		
<i>Allocasuarina humilis</i>	00.1	01.20		
<i>Olea europaea</i> subsp. <i>europaea</i>	00.1	00.70	*	
<i>Dichopogon capillipes</i>	00.1	00.60		
<i>Avena barbata</i>	00.1	00.60	*	
<i>Austrostipa elegantissima</i>	00.1	00.50		
<i>Ehrharta calycina</i>	00.1	00.50	*	
<i>Daviesia hakeoides</i>	00.1	00.50		
<i>Acacia pulchella</i> var. <i>goadbyi</i>	00.1	00.50		
<i>Lepidosperma</i> sp.	00.1	00.40		
<i>Dampiera alata</i>	00.1	00.40		

<i>Mesomelaena preissii</i>	00.1	00.30	
<i>Pentameris airoides</i>	00.1	00.30	*
<i>Briza maxima</i>	00.1	00.30	*
<i>Lepidobolus preissianus</i>	00.1	00.30	
<i>Burchardia congesta</i>	00.1	00.30	
<i>Astroloma serratifolium</i>	00.1	00.30	
<i>Dianella revoluta</i>	00.1	00.30	
<i>Lomandra maritima</i>	00.1	00.20	

Site:	S3AB20001	Type:	Quadrat (10 m x 10m)
Date(s):	07 October 2015, 06 April 2016	Position:	-31.088127, 116.201499
Total vegetation cover (%):	35	Topography:	undulating plain
Tree/shrub cover >2 m (%):	35	Soil colour:	red-orange
Shrub cover <2 m (%):	3	Soil:	clay loam
Grass cover (%):	0.5	Rock type:	calcrete
Herb cover (%):	0.1	Fire age:	not evident
Disturbance details:	grazing – medium, historic clearing, litter, weed infestation		
Vegetation condition:	Very Good, Keighery (1994)		
Vegetation description:	Mid open <i>Corymbia calophylla</i> and <i>Eucalyptus accedens</i> forest over isolated mid <i>Gastrolobium spinosum</i> shrubs over isolated low <i>Acacia pulchella</i> and <i>Hibbertia</i> spp. shrubs over isolated low <i>Neurachne alopecuroidea</i> and * <i>Bromus diandrus</i> tussock grasses		



Species	Cover (%)	Height (m)	Weeds	Conservation status
<i>Eucalyptus accedens</i>	30.0	15.00		
<i>Corymbia calophylla</i>	05.0	15.00		
<i>Gastrolobium spinosum</i>	01.0	01.80		
<i>Acacia pulchella</i>	01.0	00.30		
<i>Dianella revoluta</i>	00.1	00.50		
<i>Bromus diandrus</i>	00.1	00.30	*	
<i>Desmocladius asper</i>	00.1	00.30		
<i>Neurachne alopecuroidea</i>	00.1	00.20		
<i>Burchardia congesta</i>	00.1	00.20		
<i>Hibbertia commutata</i>	00.1	00.20		
<i>Hibbertia hibernioides</i> var. <i>hibbertioides</i>	00.1	00.20		
<i>Hibbertia lasiopus</i>	00.1	00.10		

Appendix 4 Vegetation structural classes (NVIS 2003)

Height Classes

Height	Growth form					
Height class	Height range (m)	Tree, vine (Mid & Upper), palm (single-stemmed)	Shrub, heath shrub, chenopod shrub, ferns, Samphire shrub, cycad, tree-fern, Grass-tree, palm (multi-stemmed)	Tree mallee, Mallee Shrub	Tussock grass, hummock grass, other grass, sedge, rush, forbs, vine (Ground)	Bryophyte, lichen, seagrass, aquatic
8	>30	tall	N/A	N/A	N/A	N/A
7	10-30	mid	N/A	tall	N/A	N/A
6	<10	low	N/A	mid	N/A	N/A
5	<3	N/A	N/A	low	N/A	N/A
4	>2	N/A	tall	N/A	tall	N/A
3	1-2	N/A	mid	N/A	tall	N/A
2	0.5-1	N/A	low	N/A	mid	tall
1	<0.5	N/A	low	N/A	low	low

Structural Formation Classes

Growth form	Height ranges (m)	Structural formation classes					
Foliage cover % (cover #)		70-100% (5)	30-70% (4)	10-30% (3)	<10% (2)	0-5% (1)	≈0% (N)
tree, palm	<10,10-30, >30	closed forest	open forest	woodland	open woodland	isolated trees	isolated clumps of trees
tree mallee	<3, <10, 10-30	closed mallee forest	open mallee forest	mallee woodland	open mallee woodland	isolated mallee trees	isolated clumps of mallee trees
shrub, cycad, grass-tree, tree-fern	<1,1-2,>2	closed shrubland	shrubland	open shrubland	sparse shrubland	isolated shrubs	isolated clumps of shrubs
mallee shrub	<3, <10, 10-30	closed mallee shrubland	mallee shrubland	open mallee shrubland	sparse mallee shrubland	isolated mallee shrubs	isolated clumps of mallee shrubs
heath shrub	<1,1-2,>2	closed heathland	heathland	open heathland	sparse heathland	isolated heath shrubs	isolated clumps of heath shrubs

Growth form	Height ranges (m)	Structural formation classes					
chenopod shrub	<1,1-2,>2	closed chenopod shrubland	chenopod shrubland	open chenopod shrubland	sparse chenopod shrubland	isolated chenopod shrubs	isolated clumps of chenopod shrubs
samphire shrub	<0.5,>0.5	closed samphire shrubland	samphire shrubland	open samphire shrubland	sparse samphire shrubland	isolated samphire shrubs	isolated clumps of samphire shrubs
hummock grass	<2,>2	closed hummock grassland	hummock grassland	open hummock grassland	sparse hummock grassland	isolated hummock grasses	isolated clumps of hummock grasses
tussock grass	<0.5,>0.5	closed tussock grassland	tussock grassland	open tussock grassland	sparse tussock grassland	isolated tussock grasses	isolated clumps of tussock grasses
other grass	<0.5,>0.5	closed grassland	grassland	open grassland	sparse grassland	isolated grasses	isolated clumps of grasses
sedge	<0.5,>0.5	closed sedgeland	sedgeland	open sedgeland	sparse sedgeland	isolated sedges	isolated clumps of sedges
rush	<0.5,>0.5	closed rushland	rushland	open rushland	sparse rushland	isolated rushes	isolated clumps of rushes
forb	<0.5,>0.5	closed forbland	forbland	open forbland	sparse forbland	isolated forbs	isolated clumps of forbs
fern	<1,1-2,>2	closed fernland	fernland	open fernland	sparse fernland	isolated ferns	isolated clumps of ferns
bryophyte	<0.5	closed bryophyteland	bryophyteland	open bryophyteland	sparse bryophyteland	isolated bryophytes	isolated clumps of bryophytes
lichen	<0.5	closed lichenland	lichenland	open lichenland	sparse lichenland	isolated lichens	isolated clumps of lichens
vine	<10,10-30,>30	closed vineland	vineland	open vineland	sparse vineland	isolated vines	isolated clumps of vines
aquatic	0-0.5, <1	closed aquatic bed	aquatic bed	open aquatic bed	sparse aquatics	isolated aquatics	isolated clumps of aquatics
seagrass	0-0.5, <1	closed seagrass bed	seagrass bed	open seagrass bed	sparse seagrass bed	isolated seagrasses	isolated clumps of seagrasses

Appendix 5 Weeds identified in desktop review

Species	Common name	Declared pest
<i>*Arctotheca calendula</i>	Cape Weed	
<i>*Avena barbata</i>	Bearded Oat	
<i>*Avena strigosa</i>	Sand Oat	
<i>*Babiana angustifolia</i>		
<i>*Brassica barrelieri subsp. oxyrrhina</i>	Smooth-stem Turnip	
<i>*Briza maxima</i>	Blowfly Grass	
<i>*Campylopus introflexus</i>		
<i>*Chasmanthe floribunda</i>	African Cornflag	
<i>*Chrysanthemum segetum</i>	Corn Marigold	
<i>*Cotula bipinnata</i>	Ferny Cotula	
<i>*Cotula coronopifolia</i>	Waterbuttons	
<i>*Disa bracteata</i>		
<i>*Ehrharta calycina</i>	Perennial Veldt Grass	
<i>*Ehrharta longiflora</i>	Annual Veldt Grass	
<i>*Eragrostis cilianensis</i>	Stinkgrass	
<i>*Glebionis segetum</i>		
<i>*Gorteria personata</i>	Gorteria	
<i>*Hesperantha falcata</i>		
<i>*Hypochaeris glabra</i>	Smooth Catsear	
<i>*Kickxia elatine subsp. crinita</i>		
<i>*Lactuca serriola forma serriola</i>		
<i>*Lysimachia arvensis</i>	Pimpernel	
<i>*Misopates orontium</i>	Lesser Snapdragon	
<i>*Monoculus monstrosus</i>		
<i>*Moraea setifolia</i>		
<i>*Parentucellia latifolia</i>	Common Bartsia	
<i>*Pentameris airoides</i>	False Hairgrass	
<i>*Polygonum aviculare</i>	Wireweed	
<i>*Secale cereale</i>	Rye	
<i>*Sonchus asper</i>	Rough Sowthistle	
<i>*Sonchus oleraceus</i>	Common Sowthistle	
<i>*Tamarix parviflora</i>		
<i>*Trifolium angustifolium</i>	Narrowleaf Clover	
<i>*Ursinia anthemoides subsp. anthemoides</i>		
<i>*Vachellia farnesiana</i>	Mimosa Bush	
<i>*Wahlenbergia capensis</i>	Cape Bluebell	

Appendix 6 Key to determining presence of the EPBC Act listed TEC Eucalypt woodlands of the Western Australian Wheatbelt (based on *Approved Conservation Advice (including listing advice)* for the *Eucalypt Woodlands of the Western Australian Wheatbelt*)

Description

The Eucalypt woodlands of the Western Australian Wheatbelt TEC is composed of eucalypt woodlands dominated by a complex mosaic of eucalypt species with a single tree or mallet form over an understorey that is highly variable in structure and composition. A mallet habit refers to a eucalypt with a single, slender trunk and steep-angled branches that give rise to a dense crown. Many eucalypt species are considered iconic within the Wheatbelt landscape, for example, *Eucalyptus salmonophloia* (salmon gum), *E. loxophleba* subsp. *loxophleba* (York gum), *Eucalyptus rudis* subsp. *rudis*, *E. salubris* (gimlet), *E. wandoo* (wandoo) and the mallet group of species. Associated species may include *Acacia acuminata* (jam), *Corymbia calophylla* (marri) and *Eucalyptus marginata* (jarrah). The understorey structures are often bare to sparse, herbaceous, shrub or heath, chenopod-dominated, thickets (*Melaleuca* spp.) and saline areas with *Tecticornia* spp. The main diagnostic features include location, minimum crown cover of the tree canopy of 10% in a mature woodland, presence of key species and a minimum condition according to scale of Keighery (1994) that depends on size of a patch, weed cover and presence of mature trees. A patch is defined as a discrete and mostly continuous area of the ecological community and may include small-scale variations and disturbances, such as tracks or breaks, watercourses/drainage lines or localised changes in vegetation that do not act as a permanent barrier or significantly alter its overall functionality. Each patch of the community includes a buffer zone, an area that lies immediately outside the edge of a patch but is not part of the ecological community. The buffer zone is designed to minimise this risk to the ecological community.

Woodland vegetation with a very sparse eucalypt tree canopy and woodlands dominated by mallee forms characterised by multiple stems of similar size arising at or near ground level are not part of the ecological community. The ecological community is not likely to be present if it is dominated by non-eucalypt species in the tree canopy, for instance *Acacia acuminata* (jam) or *Allocasuarina huegeliana* (rock sheoak) even though these species may be present as an understorey or minor canopy component.

The community occupies a transitional zone between the wetter forests associated with the Darling Range and the southwest coast, and the low woodlands and shrublands of the semi-arid to arid interior. The Wheatbelt region where the ecological community occurs mostly encompasses two IBRA2 subregions: Avon Wheatbelt subregion AVW01 Merredin and Avon Wheatbelt subregion AVW02 Katanning. Patches of the ecological community may extend into adjacent areas of the primary Wheatbelt bioregions, such as the easternmost parts of the Jarrah Forest bioregion forming an extension of the Avon Wheatbelt landscape in that they comprise areas subject to similar climate, landscape and threats. These outlier patches generally occur south of Northam, extending around the vicinity of localities such as Wandering, Williams, Kojonup and Mount Barker (All locations south of Perth), and are limited to areas that are not on the Darling range, receive less than 600 mm mean annual rainfall and overlie the Yilgarn Craton geology. A third IBRA2 subregion includes Mallee subregion MAL02 Western Mallee and is located south of Perth. The ecological community is generally associated with the flatter, undulating relief, including drainage lines and saline areas.

The WA Wheatbelt woodlands ecological community potentially corresponds to 45 Beard (Shepherd *et al.* 2002) vegetation associations. The most likely equivalents are with the 37 associations that are dominant or unique within the Wheatbelt regions.

Key diagnostics

The key diagnostic characteristics summarise the main features that characterise the WA Wheatbelt Woodlands (refer below). For EPBC Act referral, assessment and compliance purposes, the national ecological community is limited to patches that meet the key diagnostic characteristics (1-4 below) plus the condition thresholds (diagnostic 5 below).

Condition thresholds

It is intended that the condition thresholds will exclude degraded patches from any requirement for protection, for instance:

- isolated paddock trees on farms;
- small or narrow stands of trees that serve as windbreaks or shelterbelts on farms and other properties; or
- roadside and other woodland remnants that are too small and narrow, or where the tree canopy has become too patchy and discontinuous (effectively <10% cover), or the understorey has lost considerable elements of its native structure and diversity.

Diagnostic 1 Location

Survey location occurs within one of the following three regions:

- Avon Wheatbelt bioregion - subregions AVW01 Merredin and AVW02 Katanning
- Mallee bioregion - MAL02 Western Mallee only
- Jarrah Forest bioregion – outlying patches in the eastern parts of JAF01 Northern Jarrah Forests and JAF02 Jarrah Forests adjacent to the Avon Wheatbelt, and are effectively an extension of the Avon Wheatbelt landscape. Within the Jarrah Forest bioregion, the ecological community occurs on landscapes that fall below 600 mm mean annual rainfall (Figure 1), are off the Darling Range, associated with the Yilgarn Craton geology and are generally heavily cleared. This covers the eastern to southeastern-most parts of the bioregion. The ecological community generally falls within the 300 to 600 mm average annual rainfall isohyets. The isohyets based on the latest 30-year average between 1976 to 2005 (BoM 2016) are most applicable to the current climatic regime.

.....2

Survey location occurs within region:

- Jarrah Forest bioregion – outlying patches in the eastern parts of JAF01 Northern Jarrah Forests and JAF02 Jarrah Forests adjacent to the Avon Wheatbelt. Within the Jarrah Forest bioregion, the ecological community occurs on landscapes that ARE ABOVE the 600 mm isohyet, are ON the Darling Range, NOT associated with the Yilgarn Craton geology and are NOT generally heavily cleared. This covers the eastern to southeastern-most parts of the bioregion. It generally DOES NOT fall within the 300 to 600 mm average annual rainfall isohyets. The isohyets based on the latest 30-year average between 1976 to 2005 (BoM 2016) are most applicable to the current climatic regime.

.....NOT

TEC

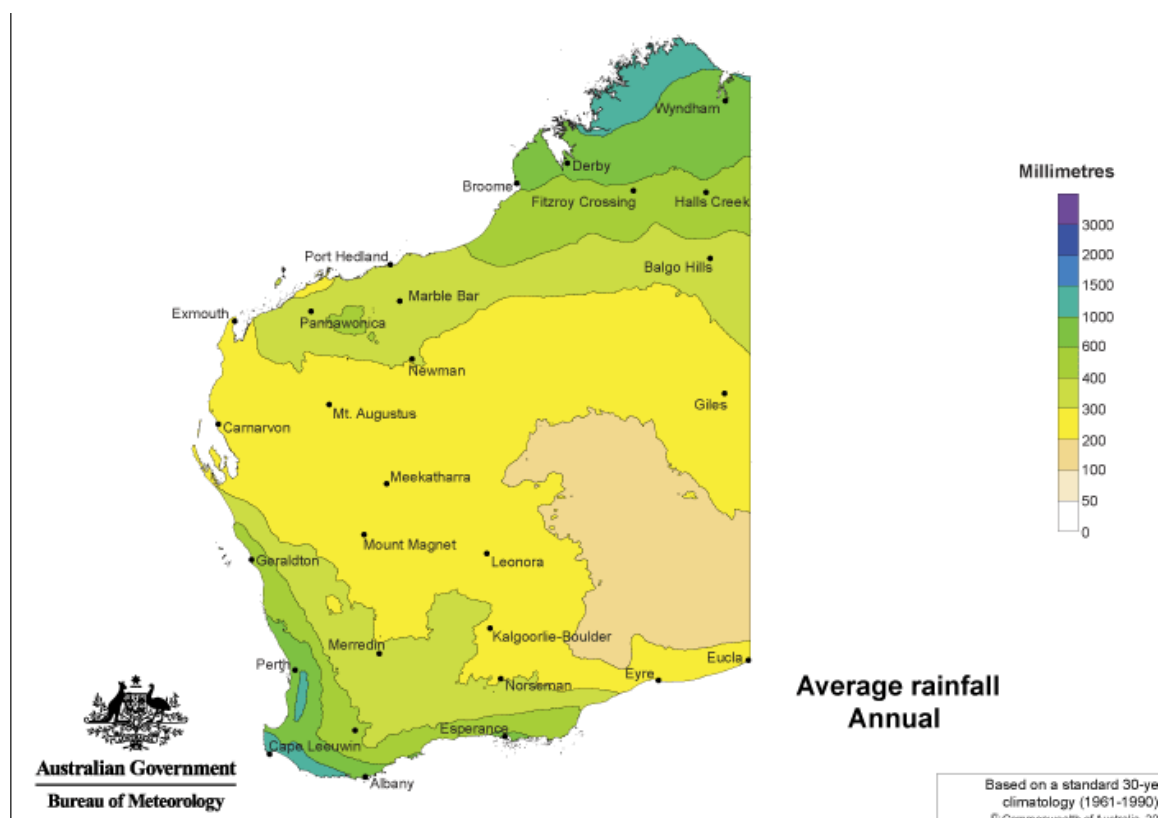


Figure 1 Isohyets of Western Australia (BoM 2016)

Diagnostic 2 Minimum crown canopy

The structure of the ecological community is a woodland in which the minimum crown cover of the tree canopy in a mature eucalypt woodland is 10% (crowns measured as if they are opaque). The maximum tree canopy cover usually is up to 40%. It may be higher in certain circumstances, for instance trees with a mallet growth form (multi-stemmed upper canopy) may be more densely spaced, or disturbances such as fire may result in an increased cover of canopy species during regeneration.

.....3

Crown cover of trees less than 10% but area recently disturbed (e.g. fire), presence of seedlings and/or saplings.

.....3

Crown cover of trees less than 10%, no evidence of recent disturbance, no presence of seedlings or saplings.

.....NOT

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Diagnostic 3 Dominant *Eucalyptus* tree canopy

One or more of the key tree species in [Table 1](#) are dominant or co-dominant, the trees are predominantly single trunked, not mallee (multi-stemmed).

.....4

Other species are present in the tree canopy (e.g. species in [Table 2](#) or other taxa) but these collectively do not occur as dominants in the tree canopy.

.....4

Dominant woodlands with a mallee subcanopy (lower tree layer of mallee or non-eucalypt tree species). Upper eucalypt tree canopy must be present dominated by key woodland species in [Table 2](#) and have cover of 10% or more.

.....4

Other species are present in the tree canopy (e.g. species in [Table 2](#) or other taxa) and these collectively do occur as dominants in the tree canopy.

.....NOT

TEC

Table 1 Key eucalypt species. One or more of these species are dominant or co-dominant within a given patch of the ecological community

Scientific name	Common name/s
<i>Eucalyptus accedens</i>	powder-bark; powder-bark wandoo
<i>Eucalyptus aequioperta</i>	Welcome Hill gum
<i>Eucalyptus alipes</i>	Hyden mallet
<i>Eucalyptus astringens</i> subsp. <i>astringens</i>	brown mallet
<i>Eucalyptus capillosa</i>	wheatbelt wandoo
<i>Eucalyptus densa</i> subsp. <i>densa</i>	narrow-leaved blue mallet
<i>Eucalyptus extensa</i>	yellow mallet
<i>Eucalyptus falcata</i>	silver mallet
<i>Eucalyptus gardneri</i> subsp. <i>gardneri</i>	blue mallet
<i>Eucalyptus goniocarpa</i>	Lake King mallet
<i>Eucalyptus kondininensis</i>	Kondinin blackbutt
<i>Eucalyptus longicornis</i>	red morrel
<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	York gum
<i>Eucalyptus melanoxylon</i>	black morrel
<i>Eucalyptus mimica</i> subsp. <i>continens</i>	hooded mallet
<i>Eucalyptus mimica</i> subsp. <i>mimica</i>	Newdegate mallet
<i>Eucalyptus myriadena</i>	small-fruited gum; blackbutt
<i>Eucalyptus occidentalis</i>	flat-topped yate
<i>Eucalyptus ornata</i>	ornamental silver mallet; ornate mallet
<i>Eucalyptus recta</i>	Mt Yule silver mallet; Cadoux mallet
<i>Eucalyptus rudis</i> subsp. <i>rudis</i>	flooded gum
<i>Eucalyptus salicola</i>	salt gum; salt salmon gum
<i>Eucalyptus salmonophloia</i>	salmon gum
<i>Eucalyptus salubris</i>	gimlet
<i>Eucalyptus sargentii</i> subsp. <i>sargentii</i>	salt river gum
<i>Eucalyptus singularis</i>	ridge-top mallet
<i>Eucalyptus spathulata</i> subsp. <i>spathulata</i>	swamp mallet
<i>Eucalyptus spathulata</i> subsp. <i>salina</i>	Salt River mallet
<i>Eucalyptus urna</i>	merrit
<i>Eucalyptus wandoo</i> subsp. <i>pulverea</i>	wandoo
<i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	wandoo

Table 2 Associated canopy species that may be present within the ecological community but are not dominant or co-dominant¹

Scientific name	Common name/s
<i>Acacia acuminata</i>	jam
<i>Allocasuarina huegeliana</i>	rock sheoak
<i>Corymbia calophylla</i>	marri
<i>Eucalyptus annulata</i>	prickly-fruited mallee
<i>Eucalyptus arachnaea</i> subsp. <i>arachnaea</i>	black-stemmed mallee
<i>Eucalyptus arachnaea</i> subsp. <i>arrecta</i>	black-stemmed mallet
<i>Eucalyptus armillata</i>	flanged mallee
<i>Eucalyptus calycogona</i> subsp. <i>calycogona</i>	square-fruited mallee
<i>Eucalyptus camaldulensis</i> subsp. <i>arida</i>	river red gum
<i>Eucalyptus celastroides</i> subsp. <i>virella</i>	wheatbelt mallee
<i>Eucalyptus cylindriflora</i>	Goldfields white mallee
<i>Eucalyptus decipiens</i>	redheart; moit
<i>Eucalyptus drummondii</i>	Drummond's mallee
<i>Eucalyptus eremophila</i>	sand mallee
<i>Eucalyptus erythronema</i> subsp. <i>erythronema</i>	red-flowered mallee
<i>Eucalyptus erythronema</i> subsp. <i>inornata</i>	yellow-flowered mallee
<i>Eucalyptus eudesmioides</i>	Kalbarri mallee
<i>Eucalyptus flocktoniae</i> subsp. <i>flocktoniae</i>	Flockton's mallee
<i>Eucalyptus gittinsii</i> subsp. <i>illucida</i>	northern sandplain mallee
<i>Eucalyptus incrassata</i>	ridge-fruited mallee
<i>Eucalyptus kochii</i> subsp. <i>plenissima</i>	Trayning mallee
<i>Eucalyptus leptopoda</i> subsp. <i>leptopoda</i>	Merredin mallee; Tammin mallee
<i>Eucalyptus loxophleba</i> subsp. <i>gratae</i>	Lake Grace mallee
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	smooth-barked York gum
<i>Eucalyptus loxophleba</i> subsp. <i>supralaevis</i>	blackbutt York gum
<i>Eucalyptus macrocarpa</i>	mottlecah
<i>Eucalyptus marginata</i>	jarrah
<i>Eucalyptus moderata</i>	redwood mallee
<i>Eucalyptus obtusiflora</i>	Dongara mallee
<i>Eucalyptus olivina</i>	olive-leaved mallee
<i>Eucalyptus orthostemon</i>	diverse mallee
<i>Eucalyptus perangusta</i>	fine-leaved mallee
<i>Eucalyptus phaenophylla</i>	common southern mallee
<i>Eucalyptus phenax</i> subsp. <i>phenax</i>	white mallee
<i>Eucalyptus pileata</i>	capped mallee
<i>Eucalyptus platypus</i> subsp. <i>platypus</i>	moort
<i>Eucalyptus polita</i>	Parker Range mallet
<i>Eucalyptus sheathiana</i>	ribbon-barked mallee
<i>Eucalyptus sporadica</i>	Burngup mallee

<i>Eucalyptus subangusta</i> subsp. <i>subangusta</i>	grey mallee
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The list is not comprehensive and presents the more common taxa encountered.

Diagnostic 4 Native understorey

A native understorey is present but is of variable composition, being a combination of grasses, other herbs and shrubs. A list of key species is summarised in Table 3. Any one of the structural understorey categories may or may not be present.

Bare to sparse understorey (e.g. under some mallet woodlands).

.....5

Herbaceous understorey – a ground layer of forbs and/or graminoids though a few, scattered shrubs may be present.

.....5

Scrub or heath understorey – comprises a mixture of diverse shrubs of variable height and cover. A ground layer of herbs and grasses is present to variable extent.

.....5

Chenopod-dominated understorey – a subset of the scrub category in which the prominent species present are saltbushes, bluebushes and related taxa (e.g. *Atriplex*, *Enchylaena*, *Maireana*, *Rhagodia* and *Sclerolaena*).

.....5

Thickets of taller shrub species understorey (e.g. *Melaleuca pauperiflora*, *M. acuminata*, *M. uncinata*, *M. lanceolata*, *M. sheathiana*, *M. adnata*, *M. cucullata* and/or *M. lateriflora*, *Allocasuarina campestris* with *Melaleuca hamata* or *M. scalena*). A range of other shrub and ground layer species may occur among or below the thickets.

.....5

Salt tolerant species understorey (e.g. samphire, *Tecticornia* spp.).

.....5

Shrublands or herblands in which the tree canopy layer is very sparse to absent, either naturally or maintained so through long-term disturbance. Native vegetation where a tree canopy was formerly present is often referred to as 'derived' or 'secondary' vegetation. These sites would fall below the 10 per cent minimum canopy cover threshold for a woodland.

.....NOT TEC

Table 3 Understorey species

Scientific name	Common name/s
Shrubs	
<i>Acacia acuarria</i>	
<i>Acacia colletioides</i>	wait-a-while
<i>Acacia erinacea</i>	
<i>Acacia hemiteles</i>	
<i>Acacia lasiocalyx</i>	silver wattle
<i>Acacia lasiocarpa</i>	panjang
<i>Acacia leptospermoides</i>	
<i>Acacia mackeyana</i>	
<i>Acacia merrallii</i>	

<i>Acacia microbotrya</i> .	manna wattle
<i>Acacia pulchella</i>	prickly moses
<i>Allocasuarina acutivalvis</i>	
<i>Allocasuarina campestris</i>	
<i>Allocasuarina humilis</i>	dwarf sheoak
<i>Allocasuarina lehmanniana</i>	dune sheoak
<i>Allocasuarina microstachya</i>	
<i>Argyroglossis turbinata</i>	
<i>Astroloma epacridis</i>	
<i>Banksia armata</i>	prickly dryandra
<i>Banksia sessilis</i>	parrot bush
<i>Beyeria brevifolia</i>	
<i>Bossiaea divaricata</i>	
<i>Bossiaea eriocarpa</i>	common brown pea
<i>Bossiaea halophila</i>	
<i>Callistemon phoeniceus</i>	lesser bottlebrush
<i>Calothamnus quadrifidus</i>	one-sided bottlebrush
<i>Calothamnus quadrifidus</i> subsp. <i>asper</i>	one-sided bottlebrush
<i>Comesperma integerrimum</i>	
<i>Conostylis setigera</i>	
<i>Dampiera lavandulacea</i>	
<i>Darwinia</i> sp. <i>Karonie</i>	
<i>Daviesia nematophylla</i>	
<i>Daviesia triflora</i>	
<i>Dodonaea bursariifolia</i>	
<i>Dodonaea inaequifolia</i>	
<i>Dodonaea pinifolia</i>	
<i>Dodonaea viscosa</i>	sticky hopbush
<i>Eremophila decipiens</i>	slender fuchsia
<i>Eremophila ionantha</i>	violet-flowered eremophila
<i>Eremophila oppositifolia</i>	weeooka
<i>Eremophila scoparia</i>	broom bush
<i>Exocarpos aphyllus</i>	leafless ballart
<i>Gastrolobium microcarpum</i>	sandplain poison
<i>Gastrolobium parviflorum</i>	
<i>Gastrolobium spinosum</i>	prickly poison
<i>Gastrolobium tricuspidatum</i>	
<i>Gastrolobium trilobum</i>	bullock poison
<i>Grevillea acuaria</i>	
<i>Grevillea huegelii</i>	
<i>Grevillea tenuiflora</i>	tassel grevillea
<i>Hakea laurina</i>	pincushion hakea
<i>Hakea lissocarpa</i>	honey bush
<i>Hakea multilinea</i>	grass-leaf hakea
<i>Hakea petiolaris</i>	sea urchin hakea
<i>Hakea preissii</i>	needle tree
<i>Hakea varia</i>	variable-leaved hakea
<i>Hibbertia commutata</i>	
<i>Hibbertia exasperata</i>	
<i>Hibbertia hypericoides</i>	yellow buttercups
<i>Hovea chorizemifolia</i>	holly-leaved hovea

<i>Hypocalymma angustifolium</i>	white myrtle
<i>Leptomeria preissiana</i>	
<i>Leptospermum erubescens</i>	roadside teatree
<i>Lycium australe</i>	
<i>Australian boxthorn</i>	
<i>Melaleuca acuminata</i>	
<i>Melaleuca adnata</i>	
<i>Melaleuca atroviridis</i>	
<i>Melaleuca brophyi</i>	
<i>Melaleuca cucullata</i>	
<i>Melaleuca cuticularis</i>	saltwater paperbark
<i>Melaleuca halmaturorum</i>	
<i>Melaleuca hamata</i>	
<i>Melaleuca hamulosa</i>	
<i>Melaleuca lanceolata</i>	
<i>Rottneest teatree</i>	
<i>Melaleuca lateriflora</i>	gorada
<i>Melaleuca marginata</i>	
<i>Melaleuca pauperiflora</i>	boree
<i>Melaleuca radula</i>	graceful honeymyrtle
<i>Melaleuca raphiophylla</i>	swamp paperbark
<i>Melaleuca scalena</i>	
<i>Melaleuca strobophylla</i>	
<i>Melaleuca teuthidoides</i>	
<i>Melaleuca thyoides</i>	
<i>Melaleuca uncinata group</i>	broom bush
<i>Melaleuca viminea</i>	mohan
<i>Olearia muelleri</i>	
<i>Goldfields daisy</i>	
<i>Olearia</i> sp. Kennedy Range	
<i>Petrophile divaricata</i>	
<i>Petrophile shuttleworthiana</i>	
<i>Petrophile squamata</i>	
<i>Petrophile striata</i>	
<i>Phebalium filifolium</i>	slender phebalium
<i>Phebalium lepidotum</i>	
<i>Phebalium microphyllum</i>	
<i>Phebalium tuberosum</i>	
<i>Pimelea argentea</i>	silvery-leaved pimelea
<i>Pittosporum angustifolium</i>	
<i>Platysace maxwellii</i>	karno
<i>Rhadinothamnus rudis</i>	
<i>Santalum acuminata</i>	quandong
<i>Santalum spicatum</i>	sandalwood
<i>Scaevola spinescens</i>	currant bush
<i>Senna artemisioides</i>	
<i>Styphelia tenuiflora</i>	common pinheath
<i>Templetonia sulcata</i>	centipede bush
<i>Trymalium elachophyllum</i>	
<i>Trymalium ledifolium</i>	
<i>Westringia cephalantha</i>	

<i>Xanthorrhoea drummondii</i>	
Chenopods	
<i>Atriplex acutibractea</i>	toothed saltbush
<i>Atriplex paludosa</i>	marsh saltbush
<i>Atriplex semibaccata</i>	berry saltbush
<i>Atriplex stipitata</i>	mallee saltbush
<i>Atriplex vesicaria</i>	bladder saltbush
<i>Enchylaena lanata / tomentosa complex</i>	barrier saltbush
<i>Maireana brevifolia</i>	small-leaf bluebush
<i>Maireana erioclada</i>	
<i>Maireana marginata</i>	
<i>Maireana trichoptera</i>	downy bluebush
<i>Rhagodia drummondii</i>	
<i>Rhagodia preissii</i>	
<i>Sclerolaena diacantha</i>	grey copperburr
<i>Tecticornia spp.</i>	samphire
<i>Threlkeldia diffusa</i>	coast bonefruit
Forbs	
<i>Actinobole uliginosum</i>	flannel cudweed
<i>Asteridea athrixoides</i>	
<i>Blennospora drummondii</i>	
<i>Borya nitida</i>	pincushions
<i>Borya sphaerocephala</i>	pincushions
<i>Brachyscome ciliaris</i>	
<i>Brachyscome lineariloba</i>	
<i>Caesia micrantha</i>	pale fringe-lily
<i>Caladenia flava</i>	cowslip orchid
<i>Calandrinia calypttrata</i>	pink purslane
<i>Calandrinia eremaea</i>	twining purslane
<i>Calotis hispidula</i>	bindy eye
<i>Carpobrotus modestus</i>	inland pigface
<i>Centipeda crateriformis</i> subsp. <i>crateriformis</i>	
<i>Chamaescilla corymbosa</i>	blue squill
<i>Chamaexeros serra</i>	little fringe-leaf
<i>Cotula coronopifolia</i>	waterbuttons
<i>Crassula colorata</i>	dense stonecrop
<i>Crassula exserta</i>	
<i>Dampiera juncea</i>	rush-like dampiera
<i>Dampiera lindleyi</i>	
<i>Daucus glochidiatus</i>	Australian carrot
<i>Dianella brevicaulis</i>	
<i>Dichopogon capillipes</i>	
<i>Disphyma crassifolium</i>	round-leaved pigface
<i>Drosera macrantha</i>	bridal rainbow
<i>Erodium cygnorum</i>	blue heronsbill
<i>Gilberta tenuifolia</i>	
<i>Gnephosis drummondii</i>	
<i>Gnephosis tenuissima</i>	
<i>Gnephosis tridens</i>	
<i>Gonocarpus nodulosus</i>	
<i>Goodenia berardiana</i>	

<i>Helichrysum leucopsidium</i>	
<i>Helichrysum luteoalbum</i>	Jersey cudweed
<i>Lagenophora huegelii</i>	
<i>Lawrencella rosea</i>	
<i>Lepidium rotundum</i>	veined peppergrass
<i>Podolepis capillaris</i>	wiry podolepis
<i>Podolepis lessonii</i>	
<i>Podotheca angustifolia</i>	sticky longheads
<i>Poranthera microphylla</i>	small poranthera
<i>Pterostylis sanguinea</i>	
<i>Ptilotus spathulatus</i>	
<i>Rhodanthe laevis</i>	
<i>Senecio glossanthus</i>	slender groundsel
<i>Spergularia marina</i>	
<i>Stylidium calcaratum</i>	book triggerplant
<i>Thysanotus patersonii</i>	
<i>Trachymene cyanopetala</i>	
<i>Trachymene ornata</i>	spongefruit
<i>Trachymene pilosa</i>	native parsnip
<i>Velleia cynopotamica</i>	
<i>Waitzia acuminata</i>	orange immortelle
<i>Zygophyllum ovatum</i>	dwarf twinleaf
Graminoids	
<i>Amphipogon caricinus - strictus complex</i>	greybeard grass
<i>Austrostipa elegantissima</i>	
<i>Austrostipa hemipogon</i>	
<i>Austrostipa nitida</i>	
<i>Austrostipa trichophylla</i>	
<i>Centrolepis polygyna</i>	wiry centrolepis
<i>Desmocladius asper</i>	
<i>Desmocladius flexuosus</i>	
<i>Gahnia ancistrophylla</i>	hook-leaf saw sedge
<i>Gahnia australis</i>	
<i>Harperia lateriflora</i>	
<i>Juncus bufonius</i>	toad rush
<i>Lachnagrostis filiformis</i>	blowngrass
<i>Lepidosperma leptostachyum</i>	
<i>Lepidosperma resinosum</i>	
<i>Lepidosperma sp. aff. tenue</i>	
<i>Lepidosperma tenue</i>	
<i>Lepidosperma viscidum</i>	sticky sword sedge
<i>Lomandra effusa</i>	scented matrush
<i>Lomandra micrantha</i> subsp. <i>micrantha</i>	small-flower matrush
<i>Lomandra nutans</i>	
<i>Meeboldina coangustata</i>	
<i>Mesomelaena preissii</i>	
<i>Neurachne alopecuroides</i>	foxtail mulga grass
<i>Rytidosperma caespitosum</i>	
<i>Rytidosperma setaceum</i> group	
<i>Schoenus nanus</i>	tiny bog-rush
<i>Schoenus sculptus</i>	gimlet bog-rush

<i>Schoenus subfascicularis</i>	
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Diagnostic 5 Vegetation condition

Minimum condition for patches of the WA Wheatbelt Woodlands ecological community. For each category, both the weed cover and mature tree presence criteria must apply plus one of either patch size or patch width, depending on whether the patch is a roadside remnant or not.

Category A:

Patch corresponds to a condition of pristine / excellent / very good (Keighery, 1994) or a high RCV (RCC, 2014).

Exotic plant species account for 0 to 30% of total vegetation cover in the understorey layers (i.e. below the tree canopy).

Mature trees (diameter at breast height (dbh) of 30 cm or above) may be present or absent.

Patch size (non-roadside) 2 ha or more with no gap in native vegetation cover exceeding 50 m width.

.....TEC

Patch width roadside only (based on the native understorey component not width of the tree canopy) 5 m or more.

.....TEC

Patch corresponds to a condition of pristine / excellent / very good (Keighery, 1994) or a high RCV (RCC, 2014).

Exotic plant species account for 0 to 30% of total vegetation cover in the understorey layers (i.e. below the tree canopy).

Mature trees (diameter at breast height (dbh) of 30 cm or above) may be present or absent.

Patch size (non-roadside) less than 2 ha.

.....NOT TEC

Patch width roadside only (based on the native understorey component not width of the tree canopy) less than 5 m.

.....NOT TEC

Category B:

Patch corresponds to a condition of good (Keighery, 1994) or a medium-high RCV (RCC, 2014).

Exotic plant species account for more than 30, to 50% of total vegetation cover in the understorey layers (i.e. below the tree canopy).

Mature trees are present with at least 5 trees per 0.5 ha.

Patch size (non-roadside) 2 ha or more with no gap in native vegetation cover exceeding 50 m width.

.....TEC

Patch width roadside only (based on the native understorey component not width of the tree canopy) 5 m or more.

.....TEC

Patch corresponds to a condition of good (Keighery, 1994) or a medium-high RCV (RCC, 2014), **AND** retains important habitat features.

Exotic plant species account for more than 30, to 50% of total vegetation cover in the understorey layers (i.e. below the tree canopy).

Mature trees are present with at least 5 trees per 0.5 ha.

Patch size (non-roadside) less than 2 ha.

.....**NOT TEC**

Patch width roadside only (based on the native understorey component not width of the tree canopy) less than 5 m.

.....**NOT TEC**

Category C:

Patch corresponds to a condition of good (Keighery, 1994) or a medium-high RCV (RCC, 2014), **AND** retains important habitat features.

Exotic plant species account for more than 30, to 50% of total vegetation cover in the understorey layers (i.e. below the tree canopy).

Less than 5 mature trees per 0.5 ha are present.

Minimum patch size (non-roadside) 5 ha or more.

.....**TEC**

Patch size (non- roadside) less than 5 ha

.....**NOT TEC**

Category D:

Patch corresponds to a condition of degraded to good (Keighery, 1994) or a medium-Low to medium-high RCV (RCC, 2014).

Exotic plant species account for more than 50 to 70% of total vegetation cover in the understorey layers (i.e. below the tree canopy).

Mature trees are present with at least 5 trees per 0.5 ha.

Minimum patch size (non-roadside) 5 ha or more.

.....**TEC**

Patch width roadside only (based on the native understorey component not width of the tree canopy) 5 m or more

.....**TEC**

Patch corresponds to a condition of degraded to good (Keighery, 1994) or a medium-low to medium-high RCV (RCC, 2014).

Exotic plant species account for more than 50 to 70% of total vegetation cover in the understorey layers (i.e. below the tree canopy).

Less than 5 mature trees per 0.5 ha are present.

.....**NOT TEC**

Appendix 7 Fauna species identified in the desktop review

Scientific name	Common name	Conservation status			Source			
		EPBC Act	WC Act	DBCA	Birddata	NatureMap	EPBC Protected Matters	DBCA Threatened Fauna
Invertebrates								
<i>Idiosoma nigrum</i>	Shield-back Trapdoor Spider	VU	EN			•	•	•
<i>Throscodectes xederoides</i>	Mogumber Bush Cricket			P3		•		•
Amphibians								
<i>Heleioporus eyrei</i>	Moaning Frog					•		
<i>Neobatrachus pelobatoides</i>	Humming Frog					•		
Reptiles								
<i>Crenadactylus ocellatus. ocellatus</i>	Clawless Gecko					•		
<i>Ctenophorus reticulatus</i>	Western Netted Dragon					•		
<i>Diplodactylus granariensis granariensis</i>						•		
<i>Delma fraseri</i>	Fraser's Delma					•		
<i>Delma grayii</i>	Side-barred Delma					•		
<i>Ctenotus fallens</i>						•		
<i>Ctenotus pantherinus pantherinus</i>	Leopard Ctenotus					•		
<i>Ctenotus schomburgkii</i>	Barred Widesnout Ctenotus					•		
<i>Eremiascincus richardsonii</i>	Broad-banded Sand Swimmer					•		
<i>Gehyra variegata</i>						•		
<i>Lerista distinguenda</i>	South-western Orange-tailed Slider					•		
<i>Morethia obscura</i>	Planin Red-throated Skink					•		
<i>Tiliqua rugosa rugosa</i>	Shingleback Skink					•		
<i>Brachyurophis semifasciatus</i>	Southern Shovel-nosed Snake					•		
<i>Pseudechis australis</i>	Mulga Snake					•		
<i>Pseudonaja mengdeni</i>	Western Brown Snake					•		
Birds								
<i>Dromaius novaehollandiae</i>	Emu				•	•		
<i>Leipoa ocellata</i>	Malleefowl	VU	VU					•
<i>Coturnix pectoralis</i>	Stubble Quail				•			
<i>Biziura lobata</i>	Musk Duck				•	•		
<i>Cygnus atratus</i>	Black Swan				•	•		
<i>Stictonetta naevosa</i>	Freckled Duck					•		
<i>Tadorna tadornoides</i>	Australian Shelduck				•	•		
<i>Chenonetta jubata</i>	Australian Wood Duck				•	•		
<i>Malacorhynchus membranaceus</i>	Pink-eared Duck				•	•		
<i>Anas rhynchotis</i>	Australasian Shoveler				•	•		
<i>Anas gracilis</i>	Grey Teal				•	•		

Flora and fauna assessment for the Calingiri study area

Prepared for Muchea to Wubin Integrated Project Team (Main Roads WA, Jacobs and Arup)

Scientific name	Common name	Conservation status			Source			
		EPBC Act	WC Act	DBCA	Birddata	NatureMap	EPBC Pr otedted Matters	DBCA Threatened Fauna
<i>Anas castanea</i>	Chestnut Teal				•	•		
<i>Anas superciliosa</i>	Pacific Black Duck				•	•		
<i>Aythya australis</i>	Hardhead					•		
<i>Oxyura australis</i>	Blue-billed Duck			P4		•		
<i>Tachybaptus novaehollandiae</i>	Australasian Grebe				•	•		
<i>Podiceps cristatus</i>	Great Crested Grebe					•		
<i>Poliocephalus poliocephalus</i>	Hoary-headed Grebe				•	•		
<i>Columba livia</i>	Rock Pigeon						•	
<i>Streptopelia senegalensis</i>	Laughing Dove				•	•	•	
<i>Streptopelia chinensis</i>	Spotted Dove						•	
<i>Phaps chalcoptera</i>	Common Bronzewing				•	•		
<i>Ocyphaps lophotes</i>	Crested Pigeon				•	•		
<i>Aegotheles cristatus</i>	Australian Owlet-nightjar				•	•		
<i>Apus pacificus</i>	Fork-tailed Swift	Mig	Mig				•	
<i>Pelecanus conspicillatus</i>	Australian Pelican					•		
<i>Anhinga novaehollandiae</i>	Australasian Darter				•	•		
<i>Microcarbo melanoleucos</i>	Little Pied Cormorant				•	•		
<i>Phalacrocorax carbo</i>	Great Cormorant					•		
<i>Phalacrocorax sulcirostris</i>	Little Black Cormorant				•	•		
<i>Ardea pacifica</i>	White-necked Heron				•	•		
<i>Ardea modesta</i>	Eastern Great Egret				•	•	•	
<i>Ardea ibis</i>	Cattle Egret						•	
<i>Egretta novaehollandiae</i>	White-faced Heron				•	•		
<i>Nycticorax caledonicus</i>	Nankeen Night-heron				•	•		
<i>Threskiornis molucca</i>	Australian White Ibis				•			
<i>Threskiornis spinicollis</i>	Straw-necked Ibis				•	•		
<i>Platalea flavipes</i>	Yellow-billed Spoonbill				•	•		
<i>Platalea regia</i>	Royal Spoonbill					•		
<i>Elanus axillaris</i>	Black-shouldered Kite				•			
<i>Haliaeetus leucogaster</i>	White-bellied Sea-eagle						•	
<i>Haliastur sphenurus</i>	Whistling Kite				•	•		
<i>Accipiter fasciatus</i>	Brown Goshawk				•	•		
<i>Circus assimilis</i>	Spotted Harrier				•	•		
<i>Circus approximans</i>	Swamp Harrier					•		
<i>Aquila audax</i>	Wedge-tailed Eagle				•	•		
<i>Falco cenchroides</i>	Nankeen Kestrel				•	•		

Scientific name	Common name	Conservation status			Source			
		EPBC Act	WC Act	DBCA	Birddata	NatureMap	EPBC Protected Matters	DBCA Threatened Fauna
<i>Falco berigora</i>	Brown Falcon				•	•		
<i>Falco longipennis</i>	Australian Hobby				•	•		
<i>Falco peregrinus</i>	Peregrine Falcon		OS			•		•
<i>Fulica atra</i>	Eurasian Coot				•	•		
<i>Gallinula tenebrosa tenebrosa</i>	Dusky Moorhen					•		
<i>Porphyrio porphyrio</i>	Purple Swamphen					•		
<i>Porzana fluminea</i>	Australian Spotted Crane					•		
<i>Porzana pusilla palustris</i>	Baillon's Crane					•		
<i>Porzana tabuensis</i>	Spotless Crane					•		
<i>Ardeotis australis</i>	Australian Bustard							
<i>Burhinus grallarius</i>	Bush Stone-curlew							
<i>Himantopus himantopus</i>	Black-winged Stilt				•	•		
<i>Recurvirostra novaehollandiae</i>	Red-necked Avocet					•		
<i>Cladorhynchus leucocephalus</i>	Banded Stilt					•		
<i>Charadrius ruficapillus</i>	Red-capped Plover					•		
<i>Elsyornis melanops</i>	Black-fronted Dotterel				•	•		
<i>Thinornis rubricollis</i>	Hooded Plover			P4		•		
<i>Vanellus tricolor</i>	Banded Lapwing				•			
<i>Rostratula australis</i>	Australian Painted Snipe	EN	EN				•	
<i>Actitis hypoleucos</i>	Common Sandpiper	Mig	Mig		•	•		
<i>Numenius madagascariensis</i>	Eastern Curlew	CR & Mig	VU & Mig				•	
<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	Mig	Mig			•	•	
<i>Calidris ruficollis</i>	Red-necked stint		Mig			•		
<i>Calidris ferruginea</i>	Curlew Sandpiper	CR & Mig	VU & Mig			•	•	
<i>Calidris melanotos</i>	Pectoral Sandpiper	Mig	Mig				•	
<i>Tringa glareola</i>	Wood Sandpiper		Mig					
<i>Tringa nebularia</i>	Common Greenshank	Mig	Mig					
<i>Limosa limosa</i>	Black-tailed Godwit	Mig	Mig					
<i>Gelochelidon nilotica</i>	Gull-billed Tern	Mig	Mig			•		
<i>Sterna hybrida</i>	Whiskered Tern					•		
<i>Chroicocephalus novaehollandiae</i>	Silver Gull					•		
<i>Calyptorhynchus banksii naso</i>	Forest Red-tailed Black Cockatoo	VU	VU			•		
<i>Calyptorhynchus banksii samueli</i>	Red-tailed Black Cockatoo				•			
<i>Calyptorhynchus latirostris</i>	Carnaby's Cockatoo	EN	EN		•	•	•	•
<i>Calyptorhynchus baudinii</i>	Baudin's Cockatoo	EN	EN			•		•

Scientific name	Common name	Conservation status			Source			
		EPBC Act	WC Act	DBCA	Birddata	NatureMap	EPBC Protected Matters	DBCA Threatened Fauna
<i>Eolophus roseicapillus</i>	Galah				•	•		
<i>Platycercus icterotis</i>	Western Rosella					•		
<i>Cacatua leadbeateri</i>	Major Mitchells Cockatoo					•		
<i>Cacatua pastinator derbyi</i>	Western Corella				•	•		
<i>Cacatua pastinator butleri</i>	Butler's Corella					•		
<i>Cacatua sanguinea</i>	Little Corella				•	•		
<i>Cacatua tenuirostris</i>	Western Long-billed Corella					•		
<i>Barnardius zonarius</i>	Australian Ringneck				•	•		
<i>Purpureicephalus spurius</i>	Red-capped Parrot				•	•		
<i>Neophema elegans</i>	Elegant Parrot				•	•		
<i>Chalcites basalis</i>	Horsfield's Bronze-cuckoo				•			
<i>Chalcites lucidus</i>	Shining Bronze-cuckoo				•			
<i>Cacomantis pallidus</i>	Pallid Cuckoo				•	•		
<i>Cacomantis flabelliformis</i>	Fan-tailed Cuckoo				•	•		
<i>Ninox novaeseelandiae</i>	Southern Boobook				•			
<i>Tyto javanica</i>	Eastern Barn Owl				•			
<i>Dacelo novaeguineae</i>	Laughing Kookaburra				•	•		
<i>Todiramphus sanctus</i>	Sacred Kingfisher				•	•		
<i>Merops ornatus</i>	Rainbow Bee-eater				•	•	•	
<i>Climacteris rufa</i>	Rufous Treecreeper				•			
<i>Malurus splendens</i>	Splendid Fairy-wren				•	•		
<i>Malurus leucopterus</i>	White-winged Fairy-wren				•	•		
<i>Malurus lamberti</i>	Variegated Fairy-wren					•		
<i>Malurus elegans</i>	Red-winged Fairy-wren				•	•		
<i>Sericornis frontalis</i>	White-browed Scrubwren				•	•		
<i>Smicrornis brevirostris</i>	Weebill				•	•		
<i>Gerygone fusca</i>	Western Gerygone				•	•		
<i>Acanthiza chrysorrhoa</i>	Yellow-rumped Thornbill				•	•		
<i>Acanthiza uropygialis</i>	Chestnut-rumped Thornbill				•	•		
<i>Acanthiza inornata</i>	Western Thornbill				•	•		
<i>Acanthiza apicalis</i>	Inland Thornbill				•	•		
<i>Pardalotus punctatus</i>	Spotted Pardalote				•	•		
<i>Pardalotus striatus</i>	Striated Pardalote				•	•		
<i>Acanthorhynchus superciliosus</i>	Western Spinebill				•	•		
<i>Lichenostomus virescens</i>	Singing Honeyeater				•			
<i>Lichenostomus leucotis</i>	White-eared Honeyeater				•	•		

Scientific name	Common name	Conservation status			Source			
		EPBC Act	WC Act	DBCA	Birddata	NatureMap	EPBC Pr oTECTED Matters	DBCA Threatened Fauna
<i>Lichenostomus ornatus</i>	Yellow-plumed Honeyeater				•			
<i>Purnella albifrons</i>	White-fronted Honeyeater				•	•		
<i>Manorina flavigula</i>	Yellow-throated Miner				•	•		
<i>Acanthagenys rufogularis</i>	Spiny-cheeked Honeyeater				•	•		
<i>Anthochaera lunulata</i>	Western Wattlebird				•	•		
<i>Anthochaera carunculata</i>	Red Wattlebird				•	•		
<i>Epthianura albifrons</i>	White-fronted Chat				•	•		
<i>Glyciphila melanops</i>	Tawny-crowned Honeyeater				•			
<i>Lichmera indistincta</i>	Brown Honeyeater				•	•		
<i>Phylidonyris novaehollandiae</i>	New Holland Honeyeater				•	•		
<i>Phylidonyris niger</i>	White-cheeked Honeyeater				•	•		
<i>Melithreptus brevirostris</i>	Brown-headed Honeyeater				•	•		
<i>Melithreptus lunatus</i>	White-naped Honeyeater				•			
<i>Pomatostomus superciliosus</i>	White-browed Babbler				•			
<i>Daphoenositta chrysoptera</i>	Varied Sittella				•			
<i>Coracina novaehollandiae</i>	Black-faced Cuckoo-shrike				•	•		
<i>Lalage sueurii</i>	White-winged Triller				•			
<i>Pachycephala pectoralis</i>	Golden Whistler				•			
<i>Pachycephala rufiventris</i>	Rufous Whistler				•	•		
<i>Colluricincla harmonica</i>	Grey Shrike-thrush				•	•		
<i>Artamus cinereus</i>	Black-faced Woodswallow				•	•		
<i>Artamus cyanopterus</i>	Dusky Woodswallow				•	•		
<i>Cheramoeca leucosterna</i>	White-backed Swallow					•		
<i>Cracticus torquatus</i>	Grey Butcherbird				•	•		
<i>Cracticus nigrogularis</i>	Pied Butcherbird				•	•		
<i>Cracticus tibicen</i>	Australian Magpie				•	•		
<i>Strepera versicolor</i>	Grey Currawong				•	•		
<i>Rhipidura albiscapa</i>	Grey Fantail				•	•		
<i>Rhipidura leucophrys</i>	Willie Wagtail				•	•		
<i>Corvus coronoides</i>	Australian Raven				•	•		
<i>Corvus bennetti</i>	Little Crow				•	•		
<i>Corvus orru</i>	Torresian Crow				•			
<i>Grallina cyanoleuca</i>	Magpie-lark				•	•		
<i>Microeca fascinans</i>	Jacky Winter				•	•		
<i>Petroica boodang (multicolor campbelli)</i>	Scarlet Robin				•	•		
<i>Petroica goodenovii</i>	Red-capped Robin				•	•		

Scientific name	Common name	Conservation status			Source			
		EPBC Act	WC Act	DBCA	Birddata	NatureMap	EPBC Protected Matters	DBCA Threatened Fauna
<i>Eopsaltria griseogularis</i>	Western Yellow Robin				•			
<i>Myiagra inquieta</i>	Restless Flycatcher					•		
<i>Cincloramphus mathewsi</i>	Rufous Songlark				•			
<i>Zosterops lateralis</i>	Silvereye				•	•		
<i>Megalurus gramineu</i>	Little Grassbird					•		
<i>Hylacola cauta whitlocki</i>	Shy Groundwen					•		
<i>Hirundo neoxena</i>	Welcome Swallow				•	•		
<i>Petrochelidon ariel</i>	Fairy Martin				•	•		
<i>Petrochelidon nigricans</i>	Tree Martin				•	•		
<i>Sturnus vulgaris</i>	Common Starling						•	
<i>Dicaeum hirundinaceum</i>	Mistletoebird				•	•		
<i>Taeniopygia guttata</i>	Zebra Finch							
<i>Anthus novaeseelandiae</i>	Australasian Pipit				•			
<i>Motacilla cinerea</i>	Grey Wagtail	Mig	Mig				•	
Mammals								
<i>Tachyglossus aculeatus</i>	Short-beaked Echidna							
<i>Dasyurus geoffroii</i>	Western Quoll	VU	VU			•	•	•
<i>Isodon fusciventer</i>	Quenda			P4		•		
<i>Parantechinus apicalis</i>	Dibbler	EN	EN			•		•
<i>Phascogale calura</i>	Red-tailed Phascogale	EN	CD				•	
<i>Sminthopsis crassicaudata</i>	Fat-tailed Dunnart							
<i>Sminthopsis dolichura</i>	Little long-tailed Dunnart					•		
<i>Macropus fuliginosus</i>	Western Grey Kangaroo					•		
<i>Chalinolobus gouldii</i>	Gould's Wattled Bat					•		
<i>Mus musculus</i>	House Mouse						•	
<i>Notomys longicaudatus</i>	Long-tailed Hopping-mouse	EX	EX			•		
<i>Notomys macrotis</i>	Big-eared Hopping-mouse	EX	EX			•		
<i>Notomys mitchellii</i>	Mitchell's Hopping-mouse					•		
<i>Rattus rattus</i>	Black Rat						•	
<i>Oryctolagus cuniculus</i>	Rabbit						•	
<i>Vulpes vulpes</i>	Red Fox						•	
<i>Felis catus</i>	Cat						•	
<i>Sus scrofa</i>	Pig						•	

Appendix 8 Flora species inventory for the study area

Family	Taxon
Amaranthaceae	<i>Ptilotus drummondii</i>
Amaranthaceae	<i>Ptilotus manglesii</i>
Amaranthaceae	<i>Ptilotus polystachyus</i>
Apiaceae	<i>Daucus glochidiatus</i>
Apiaceae	<i>Platysace cirrosa</i>
Apiaceae	<i>Xanthosia candida</i>
Apiaceae	<i>Xanthosia ciliata</i>
Araliaceae	<i>Hydrocotyle ?callicarpa</i>
Araliaceae	<i>Trachymene cyanopetala</i>
Asparagaceae	<i>Arthropodium dyeri</i>
Asparagaceae	* <i>Asparagus asparagoides</i> (WoNS)
Asparagaceae	<i>Chamaescilla corymbosa</i>
Asparagaceae	<i>Dichopogon capillipes</i>
Asparagaceae	<i>Laxmannia squarrosa</i>
Asparagaceae	<i>Lomandra ?preissii</i>
Asparagaceae	<i>Lomandra maritima</i>
Asparagaceae	<i>Lomandra micrantha</i> subsp. <i>micrantha</i>
Asparagaceae	<i>Lomandra rupestris</i>
Asparagaceae	<i>Lomandra</i> sp.
Asparagaceae	<i>Lomandra</i> sp. sterile
Asteraceae	<i>Angianthus preissianus</i>
Asteraceae	* <i>Arctotheca calendula</i>
Asteraceae	* <i>Cotula bipinnata</i>
Asteraceae	<i>Hyalosperma cotula</i>
Asteraceae	* <i>Hypochaeris glabra</i>
Asteraceae	* <i>Hypochaeris radicata</i>
Asteraceae	<i>Lagenophora huegelii</i>
Asteraceae	* <i>Monoculus monstrosus</i>
Asteraceae	<i>Olearia rudis</i>
Asteraceae	<i>Podolepis aristata</i> subsp. <i>aristata</i>
Asteraceae	<i>Podolepis gracilis</i>
Asteraceae	<i>Podolepis lessonii</i>
Asteraceae	<i>Pterochaeta paniculata</i>
Asteraceae	<i>Rhodanthe citrina</i>
Asteraceae	<i>Siloxerus multiflorus</i>
Asteraceae	* <i>Sonchus asper</i>
Asteraceae	* <i>Sonchus oleraceus</i>
Asteraceae	* <i>Ursinia anthemoides</i>
Asteraceae	* <i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>
Boraginaceae	<i>Heliotropium curassavicum</i>
Boryaceae	<i>Borya sphaerocephala</i>
Brassicaceae	* <i>Raphanus raphanistrum</i>

Family	Taxon
Campanulaceae	<i>Wahlenbergia gracilentia</i>
Caryophyllaceae	* <i>Petrorhagia dubia</i>
Casuarinaceae	<i>Allocasuarina ?campestris</i>
Casuarinaceae	<i>Allocasuarina campestris</i>
Casuarinaceae	<i>Allocasuarina huegeliana</i>
Casuarinaceae	<i>Allocasuarina humilis</i>
Casuarinaceae	<i>Casuarina obesa</i>
Celastraceae	<i>Stackhousia pubescens</i>
Celastraceae	<i>Tripterococcus brunonis</i>
Chenopodiaceae	<i>Atriplex semilunaris</i>
Chenopodiaceae	<i>Enchylaena lanata</i>
Chenopodiaceae	<i>Maireana marginata</i>
Chenopodiaceae	<i>Rhagodia ?drummondii</i>
Chenopodiaceae	<i>Salicornia quinqueflora</i> subsp. <i>quinqueflora</i>
Chenopodiaceae	<i>Tecticornia lepidosperma</i>
Chenopodiaceae	<i>Tecticornia</i> sp. sterile 1
Colchicaceae	<i>Burchardia congesta</i>
Cyperaceae	<i>Baumea rubiginosa</i>
Cyperaceae	<i>Ficinia nodosa</i>
Cyperaceae	<i>Lepidosperma calcicola</i>
Cyperaceae	<i>Lepidosperma costale</i>
Cyperaceae	<i>Lepidosperma leptostachyum</i>
Cyperaceae	<i>Lepidosperma pubisquameum</i>
Cyperaceae	<i>Lepidosperma</i> sp.
Cyperaceae	<i>Lepidosperma squamatum</i>
Cyperaceae	<i>Lepidosperma tenue</i>
Cyperaceae	<i>Mesomelaena preissii</i>
Cyperaceae	<i>Mesomelaena pseudostygia</i>
Cyperaceae	<i>Schoenus clandestinus</i>
Cyperaceae	<i>Tetraria octandra</i>
Dilleniaceae	<i>Hibbertia commutata</i>
Dilleniaceae	<i>Hibbertia hibernioides</i> var. <i>hibbertioides</i>
Dilleniaceae	<i>Hibbertia hypericoides</i>
Dilleniaceae	<i>Hibbertia lasiopus</i>
Dilleniaceae	<i>Hibbertia miniata</i> (P4)
Dilleniaceae	<i>Hibbertia montana</i> (P4)
Dilleniaceae	<i>Hibbertia polystachya</i>
Dioscoreaceae	<i>Dioscorea hastifolia</i>
Droseraceae	<i>Drosera ?macrantha</i>
Droseraceae	<i>Drosera</i> sp.
Elaeocarpaceae	<i>Tetratheca confertifolia</i>
Ericaceae	<i>Astroloma compactum</i>
Ericaceae	<i>Astroloma serratifolium</i>

Family	Taxon
Ericaceae	<i>Leucopogon darlingensis</i> subsp. <i>rectus</i> (P2)
Ericaceae	<i>Leucopogon planifolius</i>
Euphorbiaceae	? <i>Beyeria lechenaultii</i> (sterile)
Euphorbiaceae	<i>Euphorbia drummondii</i>
Fabaceae	<i>Acacia acuminata</i>
Fabaceae	<i>Acacia anarthros</i> (P3)
Fabaceae	<i>Acacia applanata</i>
Fabaceae	<i>Acacia drummondii</i> subsp. <i>affinis</i> (P3)
Fabaceae	<i>Acacia huegelii</i>
Fabaceae	<i>Acacia lasiocarpa</i>
Fabaceae	<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>
Fabaceae	<i>Acacia lasiocarpa</i> var. <i>sedifolia</i>
Fabaceae	<i>Acacia microbotrya</i>
Fabaceae	<i>Acacia pulchella</i>
Fabaceae	<i>Acacia pulchella</i> var. <i>goadbyi</i>
Fabaceae	<i>Acacia pulchella</i> var. <i>pulchella</i>
Fabaceae	<i>Acacia shuttleworthii</i>
Fabaceae	<i>Acacia</i> sp. seedling
Fabaceae	<i>Acacia tetragonophylla</i>
Fabaceae	<i>Acacia willdenowiana</i>
Fabaceae	<i>Bossiaea eriocarpa</i>
Fabaceae	<i>Bossiaea spinescens</i>
Fabaceae	<i>Daviesia angulata</i>
Fabaceae	<i>Daviesia debilior</i> subsp. <i>sinuans</i> (P3)
Fabaceae	<i>Daviesia decurrens</i>
Fabaceae	<i>Daviesia hakeoides</i>
Fabaceae	<i>Gastrolobium calycinum</i>
Fabaceae	<i>Gastrolobium capitatum</i>
Fabaceae	<i>Gastrolobium polystachyum</i>
Fabaceae	<i>Gastrolobium spathulatum</i>
Fabaceae	<i>Gastrolobium spinosum</i>
Fabaceae	<i>Gompholobium aristatum</i>
Fabaceae	<i>Gompholobium tomentosum</i>
Fabaceae	<i>Hovea pungens</i>
Fabaceae	<i>Kennedia coccinea</i>
Fabaceae	<i>Kennedia prostrata</i>
Fabaceae	* <i>Lupinus cosentinii</i>
Fabaceae	<i>Trifolium ?hirtum</i>
Fabaceae	* <i>Trifolium campestre</i>
Fabaceae	* <i>Trifolium hirtum</i>
Gentianaceae	* <i>Centaurium tenuiflorum</i>
Goodeniaceae	<i>Dampiera alata</i>
Goodeniaceae	<i>Dampiera lavandulacea</i>

Family	Taxon
Goodeniaceae	<i>Goodenia pulchella</i>
Goodeniaceae	<i>Goodenia</i> sp. sterile
Goodeniaceae	<i>Goodenia trichophylla</i>
Goodeniaceae	<i>Lechenaultia biloba</i>
Goodeniaceae	<i>Lechenaultia floribunda</i>
Goodeniaceae	<i>Verreauxia reinwardtii</i>
Haemodoraceae	<i>Anigozanthos humilis</i> subsp. <i>humilis</i>
Haemodoraceae	<i>Conostylis androstemma</i>
Haemodoraceae	<i>Conostylis candicans</i>
Haemodoraceae	<i>Conostylis setigera</i> subsp. <i>setigera</i>
Haloragaceae	<i>Glischrocaryon aureum</i>
Haloragaceae	<i>Gonocarpus cordiger</i>
Hemerocallidaceae	<i>Dianella revoluta</i>
Hemerocallidaceae	<i>Johnsonia pubescens</i>
Hemerocallidaceae	<i>Stypandra glauca</i>
Hemerocallidaceae	<i>Tricoryne elatior</i>
Hemerocallidaceae	<i>Tricoryne humilis</i>
Hypoxidaceae	<i>Pauridia glabella</i> var. <i>leptantha</i>
Iridaceae	* <i>Freesia alba</i> x <i>leichtlinii</i>
Iridaceae	* <i>Freesia</i> sp.
Iridaceae	<i>Freesia</i> sp. sterile
Iridaceae	* <i>Gladiolus caryophyllaceus</i>
Iridaceae	<i>Gladiolus</i> sp. sterile
Iridaceae	<i>Orthrosanthus laxus</i> var. <i>gramineus</i>
Iridaceae	<i>Orthrosanthus laxus</i> var. <i>laxus</i>
Iridaceae	<i>Patersonia ?occidentalis</i> var. <i>occidentalis</i>
Iridaceae	<i>Patersonia ?occidentalis</i>
Iridaceae	<i>Patersonia occidentalis</i>
Iridaceae	<i>Patersonia rudis</i> subsp. <i>rudis</i>
Iridaceae	* <i>Romulea rosea</i>
Iridaceae	* <i>Romulea rosea</i> var. <i>australis</i>
Iridaceae	* <i>Romulea rosea</i> var. <i>communis</i>
Juncaceae	* <i>Juncus acutus</i> subsp. <i>acutus</i>
Lamiaceae	<i>Hemiandra pungens</i>
Lamiaceae	<i>Hemigenia incana</i>
Lauraceae	<i>Cassytha glabella</i> forma <i>casuarinae</i>
Lauraceae	<i>Cassytha pomiformis</i>
Lauraceae	<i>Cassytha racemosa</i> forma <i>racemosa</i>
Malvaceae	* <i>Malva parviflora</i>
Malvaceae	<i>Seringia velutina</i>
Malvaceae	<i>Thomasia foliosa</i>
Malvaceae	<i>Thomasia grandiflora</i>
Myrtaceae	<i>Calothamnus pachystachyus</i> (P4)

Family	Taxon
Myrtaceae	<i>Calothamnus sanguineus</i>
Myrtaceae	<i>Corymbia calophylla</i>
Myrtaceae	<i>Ericomyrtus tenuior</i>
Myrtaceae	<i>Eucalyptus accedens</i>
Myrtaceae	<i>Eucalyptus camaldulensis</i>
Myrtaceae	<i>Eucalyptus loxophleba</i>
Myrtaceae	<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>
Myrtaceae	<i>Eucalyptus rudis</i>
Myrtaceae	<i>Eucalyptus wandoo</i>
Myrtaceae	<i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>
Myrtaceae	<i>Hypocalymma angustifolium</i>
Myrtaceae	<i>Leptospermum erubescens</i>
Myrtaceae	<i>Melaleuca lateriflora</i>
Myrtaceae	<i>Melaleuca lateritia</i>
Myrtaceae	<i>Melaleuca marginata</i>
Myrtaceae	<i>Melaleuca parviceps</i>
Myrtaceae	<i>Melaleuca radula</i>
Myrtaceae	<i>Melaleuca raphiophylla</i>
Myrtaceae	<i>Melaleuca scalena</i>
Myrtaceae	<i>Melaleuca sclerophylla</i> (P3)
Myrtaceae	<i>Melaleuca trichophylla</i>
Myrtaceae	<i>Verticordia serrata</i> var. <i>ciliata</i>
Oleaceae	* <i>Olea europaea</i> subsp. <i>europaea</i>
Orchidaceae	<i>Ericksonella saccharata</i>
Orchidaceae	<i>Eriochilus dilatatus</i> subsp. <i>multiflorus</i>
Oxalidaceae	* <i>Oxalis pes-caprae</i>
Oxalidaceae	* <i>Oxalis purpurea</i>
Phyllanthaceae	<i>Phyllanthus calycinus</i>
Phyllanthaceae	<i>Poranthera microphylla</i>
Poaceae	* <i>Aira caryophyllea</i>
Poaceae	* <i>Aira cupaniana</i>
Poaceae	<i>Amphipogon caricinus</i>
Poaceae	<i>Amphipogon turbinatus</i>
Poaceae	<i>Austrostipa campylachne</i>
Poaceae	<i>Austrostipa elegantissima</i>
Poaceae	<i>Austrostipa exilis</i>
Poaceae	<i>Austrostipa hemipogon</i>
Poaceae	<i>Austrostipa macalpinei</i>
Poaceae	<i>Austrostipa semibarbata</i>
Poaceae	<i>Austrostipa variabilis</i>
Poaceae	* <i>Avena barbata</i>
Poaceae	* <i>Avena sativa</i>
Poaceae	* <i>Briza maxima</i>

Family	Taxon
Poaceae	* <i>Briza minor</i>
Poaceae	<i>Bromus arenarius</i>
Poaceae	* <i>Bromus diandrus</i>
Poaceae	* <i>Bromus rubens</i>
Poaceae	<i>Chloris truncata</i>
Poaceae	* <i>Cynodon dactylon</i>
Poaceae	<i>Dactyloctenium radulans</i>
Poaceae	* <i>Ehrharta calycina</i>
Poaceae	* <i>Ehrharta longiflora</i>
Poaceae	<i>Enteropogon ramosus</i>
Poaceae	* <i>Eragrostis curvula</i>
Poaceae	* <i>Hordeum glaucum</i>
Poaceae	* <i>Hordeum leporinum</i>
Poaceae	* <i>Hordeum marinum</i>
Poaceae	* <i>Lolium perenne</i>
Poaceae	* <i>Lolium perenne</i> x <i>rigidum</i>
Poaceae	* <i>Lolium rigidum</i>
Poaceae	<i>Neurachne alopecuroidea</i>
Poaceae	* <i>Parapholis incurva</i>
Poaceae	* <i>Pentameris airoides</i>
Poaceae	* <i>Pentameris airoides</i> subsp. <i>airoides</i>
Poaceae	Poaceae sp.
Poaceae	Poaceae sp. seedling
Poaceae	* <i>Polypogon monspeliensis</i>
Poaceae	<i>Rytidosperma caespitosum</i>
Poaceae	* <i>Triticum aestivum</i>
Polygalaceae	<i>Comesperma integerrimum</i>
Polygalaceae	<i>Comesperma volubile</i>
Primulaceae	* <i>Lysimachia arvensis</i>
Proteaceae	<i>Adenanthos cygnorum</i>
Proteaceae	<i>Banksia armata</i>
Proteaceae	<i>Banksia armata</i> var. <i>armata</i>
Proteaceae	<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>
Proteaceae	<i>Banksia fraseri</i> var. <i>fraseri</i>
Proteaceae	<i>Banksia kippistiana</i> var. <i>kippistiana</i>
Proteaceae	<i>Banksia nobilis</i> subsp. <i>nobilis</i>
Proteaceae	<i>Banksia serratuloides</i> subsp. <i>serratuloides</i> (VU, EPBC Act; WC Act)
Proteaceae	<i>Banksia sessilis</i>
Proteaceae	<i>Banksia sessilis</i> var. <i>sessilis</i>
Proteaceae	<i>Banksia sphaerocarpa</i> var. <i>sphaerocarpa</i>
Proteaceae	<i>Conospermum densiflorum</i> subsp. <i>unicephalum</i> (EN, EPBC Act; WC Act)
Proteaceae	<i>Grevillea bipinnatifida</i> subsp. <i>bipinnatifida</i>

Family	Taxon
Proteaceae	<i>Grevillea drummondii</i> (P4)
Proteaceae	<i>Grevillea synapheae</i> subsp. <i>synapheae</i>
Proteaceae	<i>Hakea chromatropa</i> (P1)
Proteaceae	<i>Hakea erinacea</i>
Proteaceae	<i>Hakea incrassata</i>
Proteaceae	<i>Hakea lissocarpha</i>
Proteaceae	<i>Hakea prostrata</i>
Proteaceae	<i>Hakea stenocarpa</i>
Proteaceae	<i>Isopogon</i> sp.
Proteaceae	<i>Persoonia coriacea</i>
Proteaceae	<i>Persoonia sulcata</i> (P4)
Proteaceae	<i>Petrophile striata</i>
Proteaceae	<i>Synaphea grandis</i> (P4)
Proteaceae	<i>Synaphea rangiferops</i> (P2)
Proteaceae	<i>Synaphea</i> sp.
Proteaceae	<i>Synaphea</i> sp. GNH
Proteaceae	<i>Synaphea spinulosa</i> subsp. <i>major</i>
Pteridaceae	<i>Cheilanthes austrotenuifolia</i>
Restionaceae	<i>Desmocladius asper</i>
Restionaceae	<i>Desmocladius lateriticus</i>
Restionaceae	<i>Lepidobolus preissianus</i>
Restionaceae	<i>Loxocarya cinerea</i>
Rhamnaceae	<i>Spyridium globulosum</i>
Rhamnaceae	<i>Trymalium odoratissimum</i> subsp. <i>odoratissimum</i>
Rubiaceae	<i>Opercularia vaginata</i>
Rutaceae	<i>Boronia ovata</i>
Santalaceae	<i>Santalum acuminatum</i>
Sapindaceae	<i>Dodonaea divaricata</i>
Solanaceae	* <i>Solanum nigrum</i>
Solanaceae	<i>Solanum</i> sp.
Stylidiaceae	<i>Levenhookia stipitata</i>
Stylidiaceae	<i>Stylidium caricifolium</i>
Stylidiaceae	<i>Stylidium leptophyllum</i>
Stylidiaceae	<i>Stylidium pubigerum</i>
Stylidiaceae	<i>Stylidium</i> sp. sterile
Stylidiaceae	<i>Stylidium zeicolor</i>
Typhaceae	<i>Typha orientalis</i>
Urticaceae	<i>Parietaria cardiostegia</i>
Xanthorrhoeaceae	<i>Xanthorrhoea preissii</i>

Appendix 9 Eucalypt woodlands of the Western Australian wheatbelt TEC – site assessment

TEC site	Quadrat #	Veg code	Vegetation association	Eucalypt woodland quadrat?	Vegetation condition	Diagnostic 1 - Location	Diagnostic 2 – Min. crown canopy	Diagnostic 3 - Dominant tree canopy	Diagnostic 4 - Understorey category	Diagnostic 4a - Understorey species	Diagnostic 5 - Vegetation condition	Outcome
CalTEC001	CAL17001	946	Medium woodland; Wandoo	Yes	Degraded	Location: AVW02	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus wandoo</i>	Bare to sparse understorey	Chenopods: <i>Tecticornia</i> spp Graminoids: Grasses	TEC Patch type: non- roadside, > 5 ha. Category D. Exotic plant species account for 50–70% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC (degraded)
CalTEC002	CAL17002	1182	Medium woodland; <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i>	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
CalTEC003	CAL17003	946	Medium woodland; Wandoo	Yes	Excellent	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus wandoo</i>				NOT TEC ¹
CalTEC004	CAL17004	1182	Medium woodland; <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i>	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
CalTEC005	CAL17005	950	Medium woodland; <i>Casuarina obesa</i>	No, Not TEC								NOT TEC
CalTEC006	CAL17006	946	Medium woodland, Wandoo	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
CalTEC007	CAL17007	352	Medium woodland; York Gum	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
CalTEC008	CAL17008	946	Medium woodland; Wandoo	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (40% cover): <i>Eucalyptus wandoo</i>	Bare to sparse understorey	Graminoids: Grasses	TEC Patch type: non- roadside, < 5 ha. No, Not TEC	NOT TEC
CalTEC009	CAL17009	946	Medium woodland; Wandoo	Yes	Excellent	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (15% cover): <i>Eucalyptus wandoo</i>				NOT TEC ¹
CalTEC010	CAL17010	946	Medium woodland; Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	No, > 10% <i>Eucalyptus wandoo</i> (3% cover)	No, Not TEC				NOT TEC
CalTEC011	CAL17011	1034	Medium woodland; Marri, Wandoo and Powderbark	Yes	Excellent	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
CalTEC012	CAL17012	7	Medium woodland; York gum (<i>Eucalyptus loxophleba</i>) & wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Co-dominant species (10% cover) <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> ; (10% cover) <i>Acacia acuminata</i>				NOT TEC
CalTEC013	CAL17013	1034	Medium woodland; Marri, Wandoo and Powderbark	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
CalTEC014	CAL17014	1034	Medium woodland; Marri, Wandoo and Powderbark	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
CalTEC015	CAL17015	946	Medium woodland; Wandoo	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
CalTEC016	CAL17016	973	Low forest; paperbark (<i>Melaleuca raphiophylla</i>)	No, Not TEC								NOT TEC
CalTEC017	CAL17017	973	Low forest; paperbark (<i>Melaleuca raphiophylla</i>)	No, Not TEC								NOT TEC

TEC site	Quadrat #	Veg code	Vegetation association	Eucalypt woodland quadrat?	Vegetation condition	Diagnostic 1 - Location	Diagnostic 2 – Min. crown canopy	Diagnostic 3 - Dominant tree canopy	Diagnostic 4 - Understorey category	Diagnostic 4a - Understorey species	Diagnostic 5 - Vegetation condition	Outcome
CalTEC018	CAL17018	946	Medium woodland; Wandoo	Yes	Excellent	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, = 10%	Dominant species (10% cover): <i>Eucalyptus wandoo</i>				NOT TEC ¹
CalTEC019	CAL17019	946	Medium woodland; Wandoo	Yes	Excellent	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (20% cover): <i>Eucalyptus wandoo</i>				NOT TEC ¹
CalTEC020	CAL17020	4	Medium woodland; Marri and Wandoo	Yes	Excellent	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Dominant species (30% cover): <i>Corymbia calophylla</i>				NOT TEC ¹
CalTEC021	CAL17021A	4	Medium woodland; Marri and Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (10% cover): <i>Eucalyptus wandoo</i> . Associated canopy species (not co-dominant): <i>Corymbia calophylla</i> (5% cover)				NOT TEC ¹
CalTEC022	CAL17022	946	Medium woodland; Wandoo	Yes	Degraded	Location: AVW02	Yes, > 10%	Dominant species (40% cover): <i>Eucalyptus wandoo</i>	Bare to sparse understorey	Graminoids: Grasses	TEC Patch type: non- roadside, > 5 ha. Category D. Exotic plant species account for 50–70% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC (degraded)
na	CALP20001	7	Medium woodland; York gum (<i>E. loxophleba</i>) & wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
na	CALP20002	36	Shrublands; thicket, <i>Acacia-Casuarina</i> alliance species	No, Not TEC								NOT TEC
na	CALP20004	1182	Medium woodland; <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i>	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
na	GAP020	7	Medium woodland; York gum (<i>E. loxophleba</i>) & wandoo	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (47% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> , <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> , <i>Eucalyptus rudis</i>	Bare to sparse understorey		No, Not TEC Patch type: non- roadside, < 5 ha Category D. Exotic plant species account for 50–70% of total vegetation cover in the understorey layers. No, Not TEC less than 5 mature trees per 0.5 ha.	NOT TEC
na	GAP021	946	Medium woodland; Wandoo	Yes	Excellent	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (35% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>				NOT TEC ¹
na	GAP022	946	Medium woodland; Wandoo	Yes	Excellent	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>				NOT TEC
TEC062	na	7	Medium woodland; York Gum (<i>Eucalyptus loxophleba</i>) and Wandoo	Yes	Degraded	Location: AVW02	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	Bare to sparse understorey	Graminoids: <i>Austrostipa elegantissima</i>	Patch type: roadside, ≥ 5 m. Category D. Exotic plant species account for 50–70% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC (degraded)
TEC063	na	7	Medium woodland; York Gum (<i>Eucalyptus loxophleba</i>) and Wandoo	Yes	Degraded	Location: AVW02	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> , <i>Eucalyptus rudis</i> subsp. <i>rudis</i>	Bare to sparse understorey	Graminoids: <i>Austrostipa elegantissima</i>	Patch type: roadside, ≥ 5 m. Category D. Exotic plant species account for 50–70% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC (degraded)
TEC065	na	352	Medium woodland; York Gum	Yes	Degraded	Location: AVW02	Yes, > 10%	Dominant species (25% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> , <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey		Exotic plant species account for 50–70% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC (degraded)
TEC066	na	352	Medium woodland; York Gum	Yes	Degraded	Location: AVW02	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus accedens</i> , <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	Bare to sparse understorey		Exotic plant species account for 50–70% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC (degraded)

TEC site	Quadrat #	Veg code	Vegetation association	Eucalypt woodland quadrat?	Vegetation condition	Diagnostic 1 - Location	Diagnostic 2 – Min. crown canopy	Diagnostic 3 - Dominant tree canopy	Diagnostic 4 - Understorey category	Diagnostic 4a - Understorey species	Diagnostic 5 - Vegetation condition	Outcome
TEC068	na	1182	Medium woodland; <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i>	Yes		Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
TEC068A	na	1182	Medium woodland; <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i>	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
TEC069	na	1182	Medium woodland; <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i>	Yes	Degraded		Yes, > 10%	Dominant species (45% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> , <i>Eucalyptus rudis</i> subsp. <i>rudis</i>	Bare to sparse understorey	No, Not TEC: No native understorey		NOT TEC
TEC070	na	1182	Medium woodland; <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i>	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC
TEC071	na	946	Medium woodland, Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (25% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>				NOT TEC ¹
TEC072	na	946	Medium woodland, Wandoo	Yes	Degraded to Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Calothamnus quadrifidus</i> , <i>Enchylaena lanata</i> / <i>tomentosa</i> complex; <i>Graminoids</i> : <i>Austrostipa elegantissima</i>	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC073	na	946	Medium woodland, Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (40% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Enchylaena lanata</i> / <i>tomentosa</i> complex; <i>Graminoids</i> : <i>Austrostipa elegantissima</i>	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC074	na	946	Medium woodland, Wandoo	Yes		Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (40% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Calothamnus quadrifidus</i> ; <i>Graminoids</i> : <i>Austrostipa elegantissima</i>	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC076	na	946	Medium woodland; Wandoo	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (25% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Calothamnus quadrifidus</i> ; <i>Forbs</i> : <i>Podolepis lessonii</i> ; <i>Graminoids</i> : <i>Austrostipa elegantissima</i>	Patch type: roadside, ≥ 5 m. Category D. Exotic plant species account for 0–30% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC077	na	946	Medium woodland, Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (35% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Hibbertia hypericoides</i> , <i>Melaleuca radula</i> ; <i>Graminoids</i> : <i>Austrostipa elegantissima</i>	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC078	na	352	Medium woodland; York Gum	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (3% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> , <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Chenopods: <i>Enchylaena lanata</i> / <i>tomentosa</i> complex; <i>Graminoids</i> : <i>Austrostipa elegantissima</i> , <i>Lepidosperma tenue</i> , <i>Neurachne alopecuroides</i> ,	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC079	na	352	Medium woodland; York Gum	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (40% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> , <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	<i>Graminoids</i> : <i>Austrostipa elegantissima</i>	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC080	na	352	Medium woodland; York Gum	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> , <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Acacia microbotrya</i> , <i>Hibbertia hypericoides</i> ; <i>Graminoids</i> : <i>Austrostipa elegantissima</i>	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers.	NOT TEC
TEC081	na	352	Medium woodland; York Gum	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (40% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> , <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Hibbertia hypericoides</i> ; <i>Graminoids</i> : <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i>	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC

TEC site	Quadrat #	Veg code	Vegetation association	Eucalypt woodland quadrat?	Vegetation condition	Diagnostic 1 - Location	Diagnostic 2 – Min. crown canopy	Diagnostic 3 - Dominant tree canopy	Diagnostic 4 - Understorey category	Diagnostic 4a - Understorey species	Diagnostic 5 - Vegetation condition	Outcome
TEC082	na	352	Medium woodland; York Gum	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	Bare to sparse understorey	Graminoids: <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i>	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC083	na	352	Medium woodland; York Gum	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (40% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Hakea lissocarpha</i> , <i>Melaleuca radula</i> ; Graminoids: <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i> ,	Patch type: roadside, ≥ 5 m. Category A. Exotic plant species account for 0–30% of total vegetation cover in the understorey layers.	NOT TEC ¹
TEC084	na	4	Medium woodland; Marri and Wandoo	Yes		Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Dominant species <i>Corymbia calophylla</i>		Graminoids: <i>Austrostipa elegantissima</i>		NOT TEC
TEC085	na	946	Medium woodland, Wandoo	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	No, Not TEC					NOT TEC
TEC086	na	4	Medium woodland; Marri and Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (25% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Calothamnus quadrifidus</i> ; Graminoids: <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i> ,	Patch type: roadside, ≥ 5 m. Category D. Exotic plant species account for 50–70% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC087	na	1034	Medium woodland; Marri, Wandoo and Powderbark	Yes	Excellent	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (40% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Acacia pulchella</i> , <i>Allocasuarina humilis</i> , <i>Bossiaea eriocarpa</i> , <i>Calothamnus quadrifidus</i> ; Graminoids: <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i> ,	Patch type: roadside, ≥ 5 m. Category A. Exotic plant species account for 0–30% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC ¹
TEC088	na	1034	Medium woodland; Marri, Wandoo and Powderbark	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (28% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Acacia pulchella</i> , <i>Allocasuarina humilis</i> , <i>Banksia sessilis</i> , <i>Bossiaea eriocarpa</i> , <i>Hakea lissocarpha</i> ; Graminoids: <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i> ,	Patch type: roadside, ≥ 5 m. Category A. Exotic plant species account for 0–30% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC ¹
TEC089	na	4	Medium woodland; Marri and Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Dominant species <i>Corymbia calophylla</i>				NOT TEC
TEC090	na	4	Medium woodland; Marri and Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Dominant species <i>Corymbia calophylla</i>				NOT TEC
TEC091	na	4	Medium woodland; Marri and Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Dominant species <i>Corymbia calophylla</i>	Bare to sparse understorey	Shrubs: <i>Acacia pulchella</i> , <i>Allocasuarina humilis</i> , <i>Banksia sessilis</i> , <i>Bossiaea eriocarpa</i> , <i>Calothamnus quadrifidus</i> subsp. <i>asper</i> , <i>Conostylis setigera</i> ; Graminoids: <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i> ,	Patch type: roadside, ≥ 5 m. Category A. Exotic plant species account for 0–30% of total vegetation cover in the understorey layers. Mature trees may be present or absent.	NOT TEC
TEC092	na	4	Medium woodland; Marri and Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Acacia pulchella</i> , <i>Allocasuarina humilis</i> , <i>Banksia sessilis</i> , <i>Bossiaea eriocarpa</i> , <i>Conostylis setigera</i> , <i>Hibbertia hypericoides</i> ; Graminoids: <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i> ,	Patch type: roadside, ≥ 5 m. Category A. Exotic plant species account for 0–30% of total vegetation cover in the understorey layers. Mature trees may be present or absent.	NOT TEC ¹
TEC094	na	999	Medium woodland; Marri	No, Not TEC								NOT TEC

TEC site	Quadrat #	Veg code	Vegetation association	Eucalypt woodland quadrat?	Vegetation condition	Diagnostic 1 - Location	Diagnostic 2 – Min. crown canopy	Diagnostic 3 - Dominant tree canopy	Diagnostic 4 - Understorey category	Diagnostic 4a - Understorey species	Diagnostic 5 - Vegetation condition	Outcome
TEC095	na	999	Medium woodland; Marri	No, Not TEC								NOT TEC
TEC096	na	4	Medium woodland; Marri and Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (25% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Bossiaea eriocarpa</i> , <i>Hakea varia</i> , <i>Hibbertia hypericoides</i> ; <i>Graminoids</i> : <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i>	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC096a	na	1034	Medium woodland; Marri, Wandoo and Powderbark	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (25% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Bossiaea eriocarpa</i> , <i>Hakea varia</i> , <i>Hibbertia hypericoides</i> ; <i>Graminoids</i> : <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i>	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC097	na	999	Medium woodland; Marri	No, Not TEC								NOT TEC
TEC098	na	4	Medium woodland; Marri and Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Allocasuarina humilis</i> , <i>Bossiaea eriocarpa</i> , <i>Calothamnus quadrifidus</i> ; <i>Graminoids</i> : <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i> ,	Patch type: roadside, ≥ 5 m. Category B. Exotic plant species account for 30–50% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
TEC099	na	4	Medium woodland; Marri and Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	No, Not TEC					NOT TEC
TEC100	na	4	Medium woodland; Marri and Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	No, Not TEC					NOT TEC
TEC101	na	4	Medium woodland; Marri and Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	No, Not TEC					NOT TEC
TEC102	na	4	Medium woodland; Marri and Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (25% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Bossiaea eriocarpa</i> , <i>Hibbertia hypericoides</i> ; <i>Graminoids</i> : <i>Austrostipa elegantissima</i> , <i>Lepidosperma tenue</i> , <i>Neurachne alopecuroides</i>	Patch type: roadside, < 5 m. No, Not TEC	NOT TEC
TEC103	na	1132	Medium forest; Marri	No, Not TEC								NOT TEC
TEC104	na	4	Medium woodland; Marri and Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Co-dominant species (25% cover) <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> ; (15% cover) <i>Corymbia calophylla</i>				NOT TEC
TEC105	na	4	Medium woodland; Marri and Wandoo	Yes	Very Good		Yes, > 10%	No, Not TEC: Dominant species <i>Corymbia calophylla</i>		<i>Graminoids</i> : <i>Austrostipa elegantissima</i>		NOT TEC
TEC107	na	4	Medium woodland; Marri and Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>				NOT TEC ¹
TEC108	na	946	Medium woodland, Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%					NOT TEC
TEC109	na	946	Medium woodland, Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>				NOT TEC ¹

TEC site	Quadrat #	Veg code	Vegetation association	Eucalypt woodland quadrat?	Vegetation condition	Diagnostic 1 - Location	Diagnostic 2 – Min. crown canopy	Diagnostic 3 - Dominant tree canopy	Diagnostic 4 - Understorey category	Diagnostic 4a - Understorey species	Diagnostic 5 - Vegetation condition	Outcome
TEC110	na	946	Medium woodland, Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>				NOT TEC ¹
TEC112	na	946	Medium woodland; Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%					NOT TEC
TEC113	na	946	Medium woodland, Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%					NOT TEC
TEC114	na	946	Medium woodland, Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Co-dominant species (20% cover) <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> ; (10% cover) <i>Corymbia calophylla</i>	Bare to sparse understorey	Shrubs: <i>Allocasuarina humilis</i> , <i>Bossiaea eriocarpa</i> ; Graminoids: <i>Auistrostipa elegantissima</i>	Patch type: roadside, ≥ 5 m. Category A. Exotic plant species account for 0–30% of total vegetation cover in the understorey layers. Mature trees may be present or absent.	NOT TEC
TEC115	na	999	Medium woodland; Marri	No, Not TEC								NOT TEC
TEC116	na	999	Medium woodland; Marri	No, Not TEC								NOT TEC
TEC117	na	4	Medium woodland; Marri and Wandoo	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%					NOT TEC
TEC119	na	4	Medium woodland; Marri and Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (20% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>				NOT TEC
TEC120	na	4	Medium woodland; Marri and Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Co-dominant species (20% cover) <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> ; (10% cover) <i>Corymbia calophylla</i>				NOT TEC
na	NN3.1	7	Medium woodland; York Gum (<i>Eucalyptus loxophleba</i>) and Wandoo	Yes	Degraded	Location: AVW02					Patch type: roadside, ≥ 5 m. Category D. Vegetation condition is degraded. Mature trees may be present with at least 5 trees per 0.5 ha. Exotic plant species account for 50–70% of total vegetation cover in the understorey.	NOT TEC
TEC064	NN3.1a	1182	Medium woodland; <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i>	Yes	Degraded	Location: AVW02	Yes, > 10%	Dominant species (20% cover): <i>Eucalyptus rudis</i> subsp. <i>rudis</i>	Bare to sparse understorey	Shrubs: <i>Melaleuca raphiophylla</i>	Patch type: roadside, ≥ 5 m. Category D. Exotic plant species account for 50–70% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC (degraded)
na	NN3.2	7	Medium woodland; York gum (<i>E. loxophleba</i>) & wandoo	Yes	Degraded	Location: AVW02					Patch type: roadside, ≥ 5 m. Category D. Vegetation condition is degraded. Mature trees may be present with at least 5 trees per 0.5 ha Exotic plant species account for more than 50–70% (60%) of total vegetation cover in the understorey.	NOT TEC (degraded)
na	S3A21	352	Medium woodland; York Gum	Yes	Degraded	Location: AVW02	Yes, > 10%	Dominant species (39% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> ; Other tree canopy species: none present	Bare to sparse understorey		Patch type: roadside, ≥ 5 m. Category D. Exotic plant species account for less than 1% of total vegetation cover in the understorey. Mature trees may be present with at least 5 trees per 0.5 ha.	NOT TEC (degraded)
TEC067	S3A22	1182	Medium woodland; <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i>	Yes	Degraded		Yes, > 10%	Dominant species (15% cover): <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	Bare to sparse understorey		No, Not TEC Patch type: Roadside, <5 m Category D. Exotic plant species account for 50–70% of total vegetation cover in the understorey layers. Mature trees are present with at least 5 trees per 0.5 ha.	NOT TEC
na	S3A23	946	Medium woodland, Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC						NOT TEC

TEC site	Quadrat #	Veg code	Vegetation association	Eucalypt woodland quadrat?	Vegetation condition	Diagnostic 1 - Location	Diagnostic 2 – Min. crown canopy	Diagnostic 3 - Dominant tree canopy	Diagnostic 4 - Understorey category	Diagnostic 4a - Understorey species	Diagnostic 5 - Vegetation condition	Outcome
na	S3A24	950	Medium woodland, <i>Casuarina obesa</i>	No, Not TEC								NOT TEC
na	S3A27	999	Medium woodland; Marri	No, Not TEC								NOT TEC
na	S3A28	1034	Medium woodland; marri, wandoo & powderbark	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Co-dominant species (18%) <i>Corymbia calophylla</i> ; (16%) <i>Eucalyptus wandoo</i>				NOT TEC
na	S3A29	4	Medium woodland; Marri and Wandoo	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	No, Not TEC: Dominant species (20%) <i>Corymbia calophylla</i>				NOT TEC
TEC106	S3A30	4	Medium woodland; Marri and Wandoo	Yes	Good - Very Good		Yes, > 10%	No, Not TEC: Dominant species (30% cover) <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i> ; Co-dominant species (10% cover) <i>Corymbia calophylla</i>				NOT TEC
TEC111	S3A32	946	Medium woodland; Wandoo	Yes	Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%					NOT TEC
TEC116b	S3A33	999	Medium woodland; Marri	No, Not TEC								NOT TEC
na	S3A45	1132	Medium forest; marri	No, Not TEC								NOT TEC
TEC075	S3A47	946	Medium woodland; Wandoo	Yes	Degraded	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>	Bare to sparse understorey	Shrubs: <i>Allocasuarina humilis</i> , <i>Calothamnus quadrifidus</i> , <i>Hibbertia hypericoides</i> ; Graminoids: <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i> ,	Patch type: roadside, ≥ 5 m. Category D. Vegetation condition is degraded. Mature trees (≥30cm DBH)4 are present with at least 5 trees per 0.5 ha. Exotic plant species account for less than 1% of total vegetation cover in the understorey.	NOT TEC
TEC093	S3AB20001	1034	Medium woodland; Marri, Wandoo and Powderbark	Yes	Very Good	Location: JAF01, but north of Perth and on edge of Darling Scarp. No, not TEC	Yes, > 10%	Dominant species (30% cover): <i>Eucalyptus accedens</i>	Bare to sparse understorey	Shrubs: <i>Acacia pulchella</i> , <i>Allocasuarina humilis</i> , <i>Bossiaea eriocarpa</i> , <i>Hibbertia hypericoides</i> ; Graminoids: <i>Austrostipa elegantissima</i> , <i>Neurachne alopecuroides</i>	Patch type: roadside, ≥ 5 m. Category A. Exotic plant species account for 0–30% of total vegetation cover in the understorey layers. Mature trees may be present or absent.	NOT TEC

¹ Patch dominated by *E. wandoo* that retains a mostly native understorey (Excellent, Very Good); however, doesn’t meet location criteria.

