APPENDIX





Matters of National Environmental Significance

Part 2 of 3

GOWRIE TO HELIDON ENVIRONMENTAL IMPACT STATEMENT



APPENDIX





Matters of National Environmental Significance

Appendix F Fauna species list

GOWRIE TO HELIDON ENVIRONMENTAL IMPACT STATEMENT

ARTC

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

WildNet Records Species List



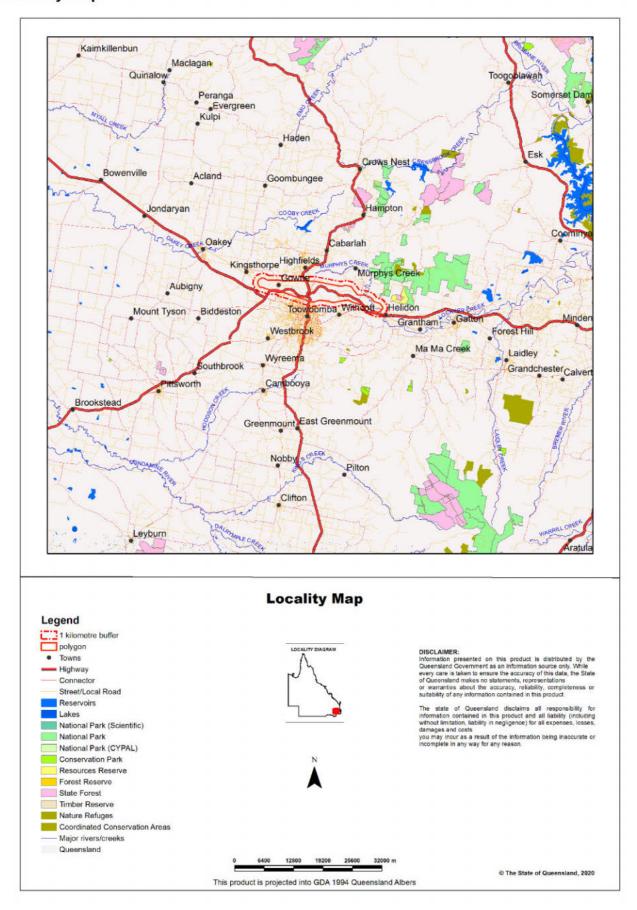
For the selected area of interest 7965.7ha

Current as at 25/03/2020

WildNetspecieslist



Map 1. Locality Map



Summary Information

The following table provides an overview of the area of interest.

Table 1. Area of interest details

Size (ha)	7,965.7
Local Government(s)	Lockyer Valley Regional, Toowoomba Regional
Bioregion(s)	Brigalow Belt, Southeast Queensland
Subregion(s)	Moreton Basin, Eastern Darling Downs
Catchment(s)	Balonne-Condamine, Brisbane

Protected Area(s)

No estates or reserves are located within the area of interest.

World Heritage Area(s)

No World Heritage Areas are located within the area of interest.

Ramsar Area(s)

No Ramsar Areas are located within the area of interest.

Species List

Introduction

This Species List report is derived only from records from the WildNet database managed by the Department of Environment and Science. Other data sources may provide additional information on species occurrence.

The WildNet dataset is constantly being enhanced and the taxonomic and status information revised. If a species does not occur in the report, it does not mean it doesn't occur there and listed species may also no longer inhabit the area.

Table 2 lists the animals recorded within the area of interest and its one kilometre buffer.

Table 3 lists the plants recorded within the area of interest and its one kilometre buffer.

Table 4 lists the fungi recorded within the area of interest and its one kilometre buffer.

Table 5 lists the protists recorded within the area of interest and its one kilometre buffer.

Table 2. Animals recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
18168	Actinopterygii	Eleotridae	Mogurnda adspersa	southern purplespotted gudgeon	None	None	0	1	14/12/2013
716	Amphibia	Bufonidae	Rhinella marina	cane toad	None	None	0	2	02/11/2012
624	Amphibia	Hylidae	Cyclorana alboguttata	greenstripe frog	С	None	1	6	19/09/2017
627	Amphibia	Hylidae	Litoria caerulea	common green treefrog	С	None	0	2	08/01/2016
608	Amphibia	Hylidae	Litoria fallax	eastern sedgefrog	С	None	0	1	30/04/1990
614	Amphibia	Hylidae	Litoria latopalmata	broad palmed rocketfrog	С	None	0	1	14/12/2013
596	Amphibia	Hylidae	Litoria peronii	emerald spotted treefrog	С	None	0	2	05/11/2005
600	Amphibia	Hylidae	Litoria rubella	ruddy treefrog	С	None	0	3	30/01/2005

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
681	Amphibia	Limnodynastid ae	Limnodynastes peronii	striped marshfrog	С	None	0	2	22/11/2008
682	Amphibia	Limnodynastid ae	Limnodynastes salmini	salmon striped frog	С	None	0	2	31/12/2002
673	Amphibia	Limnodynastid ae	Limnodynastes terraereginae	scarlet sided pobblebonk	С	None	0	1	28/02/1990
680	Amphibia	Limnodynastid ae	Platyplectrum ornatum	ornate burrowing frog	С	None	0	1	14/12/2014
698	Amphibia	Myobatrachida e	Crinia signifera	clicking froglet	С	None	0	5	01/12/2008
672	Amphibia	Myobatrachida e	Pseudophryne coriacea	red backed broodfrog	С	None	0	1	30/06/1991
635	Amphibia	Myobatrachida e	Uperoleia laevigata	eastern gungan	С	None	1	1	31/12/1986
1419	Aves	Acanthizidae	Acanthiza chrysorrhoa	yellow-rumped thornbill	С	None	0	492	09/05/2019
1421	Aves	Acanthizidae	Acanthiza lineata	striated thornbill	С	None	0	20	27/12/2003
1422	Aves	Acanthizidae	Acanthiza nana	yellow thornbill	С	None	0	296	01/11/2010
1423	Aves	Acanthizidae	Acanthiza pusilla	brown thornbill	С	None	0	357	09/03/2019
1425	Aves	Acanthizidae	Acanthiza reguloides	buff-rumped thornbill	С	None	0	29	30/11/2014
1407	Aves	Acanthizidae	Gerygone fusca	western gerygone	С	None	0	14	30/09/1997
1410	Aves	Acanthizidae	Gerygone mouki	brown gerygone	С	None	0	11	30/12/2005
1396	Aves	Acanthizidae	Gerygone olivacea	white-throated gerygone	С	None	0	429	09/03/2019
1403	Aves	Acanthizidae	Pyrrholaemus sagittatus	speckled warbler	С	None	0	52	26/08/2015
1382	Aves	Acanthizidae	Sericornis frontalis	white-browed scrubwren	С	None	0	298	09/05/2019
1384	Aves	Acanthizidae	Sericornis magnirostra	large-billed scrubwren	С	None	0	1	24/10/1998
1371	Aves	Acanthizidae	Smicrornis brevirostris	weebill	С	None	0	172	18/07/2010
1742	Aves	Accipitridae	Accipiter cirrocephalus	collared sparrowhawk	С	None	0	22	27/09/2014
1729	Aves	Accipitridae	Accipiter fasciatus	brown goshawk	С	None	0	80	01/11/2010
1730	Aves	Accipitridae	Accipiter novaehollandiae	grey goshawk	С	None	0	6	28/04/2014
1732	Aves	Accipitridae	Aquila audax	wedge-tailed eagle	С	None	0	148	23/10/2015
1721	Aves	Accipitridae	Aviceda subcristata	Pacific baza	С	None	0	22	26/10/2008
1722	Aves	Accipitridae	Circus approximans	swamp harrier	С	None	0	7	19/09/1999
1723	Aves	Accipitridae	Circus assimilis	spotted harrier	С	None	0	28	15/07/2015
1725	Aves	Accipitridae	Elanus axillaris	black-shouldered kite	С	None	0	293	17/07/2018
1728	Aves	Accipitridae	Erythrotriorchis radiatus	red goshawk	E	V	0	3	31/05/1992
1718	Aves	Accipitridae	Haliaeetus leucogaster	white-bellied sea-eagle	С	None	0	14	20/05/2014

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1707	Aves	Accipitridae	Haliastur sphenurus	whistling kite	С	None	0	17	25/07/2010
1710	Aves	Accipitridae	Hieraaetus morphnoides	little eagle	С	None	0	7	20/02/2000
1712	Aves	Accipitridae	Lophoictinia isura	square-tailed kite	С	None	0	2	28/01/2018
1714	Aves	Accipitridae	Milvus migrans	black kite	С	None	0	18	09/03/2019
1702	Aves	Accipitridae	Pandion cristatus	eastern osprey	SL	None	0	1	23/04/1992
1305	Aves	Acrocephalida e	Acrocephalus australis	Australian reed-warbler	С	None	0	41	01/11/2010
1973	Aves	Aegothelidae	Aegotheles cristatus	Australian owlet-nightjar	С	None	0	5	22/12/1999
1652	Aves	Alaudidae	Mirafra javanica	Horsfield's bushlark	С	None	0	62	03/01/2010
1776	Aves	Alcedinidae	Ceyx azureus	azure kingfisher	С	None	0	19	02/11/2009
1992	Aves	Anatidae	Anas castanea	chestnut teal	С	None	0	9	25/10/1998
1993	Aves	Anatidae	Anas gracilis	grey teal	С	None	0	150	07/06/2017
1994	Aves	Anatidae	Anas platyrhynchos	northern mallard	None	None	0	2	03/07/2000
1998	Aves	Anatidae	Anas superciliosa	Pacific black duck	С	None	0	444	14/12/2014
1999	Aves	Anatidae	Aythya australis	hardhead	С	None	0	60	26/08/2015
2001	Aves	Anatidae	Biziura lobata	musk duck	С	None	0	4	10/02/2018
2003	Aves	Anatidae	Chenonetta jubata	Australian wood duck	С	None	0	439	02/11/2012
2005	Aves	Anatidae	Cygnus atratus	black swan	С	None	0	30	02/11/2012
1977	Aves	Anatidae	Dendrocygna arcuata	wandering whistling-duck	С	None	0	4	10/05/1992
1978	Aves	Anatidae	Dendrocygna eytoni	plumed whistling-duck	С	None	0	76	01/11/2010
1980	Aves	Anatidae	Malacorhynchus membranaceus	pink-eared duck	С	None	0	14	30/11/2014
1982	Aves	Anatidae	Nettapus coromandelianus	cotton pygmy-goose	С	None	0	3	10/05/1992
1985	Aves	Anatidae	Oxyura australis	blue-billed duck	С	None	0	3	10/05/1992
1996	Aves	Anatidae	Spatula rhynchotis	Australasian shoveler	С	None	0	21	27/05/2016
1987	Aves	Anatidae	Stictonetta naevosa	freckled duck	С	None	0	9	31/07/1992
1279	Aves	Anhingidae	Anhinga novaehollandiae	Australasian darter	С	None	0	27	01/11/2010
1963	Aves	Anseranatidae	Anseranas semipalmata	magpie goose	С	None	0	5	30/11/2005
1965	Aves	Apodidae	Apus pacificus	fork-tailed swift	SL	None	0	2	22/01/2003
1971	Aves	Apodidae	Hirundapus caudacutus	white-throated needletail	٧	٧	0	13	07/01/2006
1829	Aves	Ardeidae	Ardea alba modesta	eastern great egret	С	None	0	31	02/11/2012
1831	Aves	Ardeidae	Ardea intermedia	intermediate egret	С	None	0	13	02/11/2009
1832	Aves	Ardeidae	Ardea pacifica	white-necked heron	С	None	0	55	02/11/2009
1830	Aves	Ardeidae	Bubulcus ibis	cattle egret	С	None	0	186	11/02/2012
1840	Aves	Ardeidae	Egretta garzetta	little egret	С	None	0	7	26/10/2008

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1826	Aves	Ardeidae	Egretta novaehollandiae	white-faced heron	С	None	0	227	14/12/2014
1816	Aves	Ardeidae	lxobrychus dubius	Australian little bittern	С	None	0	2	31/12/1978
1815	Aves	Ardeidae	lxobrychus flavicollis	black bittern	С	None	0	1	02/11/2009
1818	Aves	Ardeidae	Nycticorax caledonicus	nankeen night-heron	С	None	0	15	26/10/2008
1658	Aves	Artamidae	Artamus cinereus	black-faced woodswallow	С	None	0	1	24/09/2001
1659	Aves	Artamidae	Artamus cyanopterus	dusky woodswallow	С	None	0	22	28/10/2001
1660	Aves	Artamidae	Artamus leucorynchus	white-breasted woodswallow	С	None	0	1	17/08/1992
1647	Aves	Artamidae	Artamus personatus	masked woodswallow	С	None	0	3	09/10/1994
1649	Aves	Artamidae	Artamus superciliosus	white-browed woodswallow	С	None	0	6	28/10/2001
1654	Aves	Artamidae	Cracticus nigrogularis	pied butcherbird	С	None	0	687	09/03/2019
1656	Aves	Artamidae	Cracticus torquatus	grey butcherbird	С	None	0	554	09/05/2019
1644	Aves	Artamidae	Gymnorhina tibicen	Australian magpie	С	None	0	842	09/05/2019
1645	Aves	Artamidae	Strepera graculina	pied currawong	С	None	0	722	09/05/2019
1956	Aves	Burhinidae	Burhinus grallarius	bush stone-curlew	С	None	0	2	30/03/2002
1191	Aves	Cacatuidae	Cacatua galerita	sulphur-crested cockatoo	С	None	0	222	16/06/2009
1194	Aves	Cacatuidae	Cacatua sanguinea	little corella	С	None	0	17	02/11/2009
1196	Aves	Cacatuidae	Calyptorhynchus banksii	red-tailed black-cockatoo	С	None	0	123	01/11/2010
1185	Aves	Cacatuidae	Calyptorhynchus funereus	yellow-tailed black-cockatoo	С	None	0	36	04/04/2019
22494	Aves	Cacatuidae	Calyptorhynchus lathami lathami	glossy black-cockatoo (eastern)	V	None	0	9	30/04/1999
1193	Aves	Cacatuidae	Eolophus roseicapilla	galah	С	None	0	765	09/03/2019
1192	Aves	Cacatuidae	Lophochroa leadbeateri	Major Mitchell's cockatoo	٧	None	0	2	22/08/1999
1173	Aves	Cacatuidae	Nymphicus hollandicus	cockatiel	С	None	0	141	23/06/2017
1634	Aves	Campephagida e	Coracina lineata	barred cuckoo-shrike	С	None	0	2	24/01/2002
1635	Aves	Campephagida e	Coracina maxima	ground cuckoo-shrike	С	None	0	9	28/11/1999
1636	Aves	Campephagida e	Coracina novaehollandiae	black-faced cuckoo-shrike	С	None	0	708	09/07/2018
1637	Aves	Campephagida e	Coracina papuensis	white-bellied cuckoo-shrike	С	None	0	18	02/11/2009

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1639	Aves	Campephagida e	Coracina tenuirostris	cicadabird	С	None	0	58	14/02/2005
1640	Aves	Campephagida e	Lalage leucomela	varied triller	С	None	0	9	11/03/2012
1642	Aves	Campephagida e	Lalage tricolor	white-winged triller	С	None	0	48	02/11/2012
1937	Aves	Charadriidae	Charadrius ruficapillus	red-capped plover	С	None	0	4	30/09/1992
1940	Aves	Charadriidae	Elseyornis melanops	black-fronted dotterel	С	None	0	81	01/11/2010
1942	Aves	Charadriidae	Erythrogonys cinctus	red-kneed dotterel	С	None	0	21	30/11/2014
1944	Aves	Charadriidae	Pluvialis fulva	Pacific golden plover	SL	None	0	2	10/05/1992
27774	Aves	Charadriidae	Vanellus miles	masked lapwing	С	None	0	243	13/08/2016
1933	Aves	Charadriidae	Vanellus miles novaehollandiae	masked lapwing (southern subspecies)	С	None	0	325	09/05/2019
1820	Aves	Ciconiidae	Ephippiorhynchus asiaticus	black-necked stork	С	None	0	2	31/12/1991
1294	Aves	Cisticolidae	Cisticola exilis	golden-headed cisticola	С	None	0	429	23/10/2015
1628	Aves	Climacteridae	Climacteris picumnus	brown treecreeper	С	None	0	2	31/12/1978
1617	Aves	Climacteridae	Cormobates leucophaea	white-throated treecreeper	С	None	0	5	18/07/2010
18293	Aves	Climacteridae	Cormobates leucophaea metastasis	white-throated treecreeper (southern)	С	None	0	20	14/02/2005
1801	Aves	Columbidae	Chalcophaps indica	emerald dove	С	None	0	5	14/02/2005
1803	Aves	Columbidae	Columba leucomela	white-headed pigeon	С	None	0	16	11/11/2001
1804	Aves	Columbidae	Columba livia	rock dove	None	None	0	317	13/08/2016
1809	Aves	Columbidae	Geopelia cuneata	diamond dove	С	None	0	6	16/10/1994
1810	Aves	Columbidae	Geopelia humeralis	bar-shouldered dove	С	None	0	526	09/05/2019
1797	Aves	Columbidae	Geopelia striata	peaceful dove	С	None	0	154	26/08/2015
1785	Aves	Columbidae	Geophaps scripta scripta	squatter pigeon (southern subspecies)	V	V	0	6	08/08/1993
1787	Aves	Columbidae	Leucosarcia melanoleuca	wonga pigeon	С	None	0	4	24/01/2002
1791	Aves	Columbidae	Macropygia amboinensis	brown cuckoo-dove	С	None	0	32	26/08/2006
1793	Aves	Columbidae	Ocyphaps lophotes	crested pigeon	С	None	0	822	09/05/2019
1795	Aves	Columbidae	Phaps chalcoptera	common bronzewing	С	None	0	32	26/04/2017
1771	Aves	Columbidae	Ptilinopus regina	rose-crowned fruit-dove	С	None	1	3	11/03/2012
1774	Aves	Columbidae	Streptopelia chinensis	spotted dove	None	None	0	568	09/03/2019

1779 1603 1605 1607	Aves Aves Aves Aves	Corcoracidae Corcoracidae	Eurystomus orientalis Corcorax	dollarbird	С	None	0	228	02/01/2017
1605	Aves Aves								
1607	Aves	Corcoracidae	melanorhamphos	white-winged chough	С	None	0	57	30/11/2012
			Struthidea cinerea	apostlebird	С	None	0	6	13/08/2013
1608	Aves	Corvidae	Corvus bennetti	little crow	С	None	0	1	01/02/1993
1000		Corvidae	Corvus coronoides	Australian raven	С	None	0	1	31/10/1993
1609	Aves	Corvidae	Corvus orru	Torresian crow	С	None	0	830	09/05/2019
1610	Aves	Corvidae	Corvus sp.	None	None	None	0	2	11/02/2001
1754	Aves	Cuculidae	Cacomantis flabelliformis	fan-tailed cuckoo	С	None	0	62	09/05/2019
1750	Aves	Cuculidae	Cacomantis pallidus	pallid cuckoo	С	None	0	13	23/10/2015
1743	Aves	Cuculidae	Cacomantis variolosus	brush cuckoo	С	None	0	11	14/12/2014
1751	Aves	Cuculidae	Centropus phasianinus	pheasant coucal	С	None	0	356	09/03/2019
1744	Aves	Cuculidae	Chalcites basalis	Horsfield's bronze-cuckoo	С	None	0	55	01/11/2010
1745	Aves	Cuculidae	Chalcites lucidus	shining bronze-cuckoo	С	None	0	24	09/05/2019
1756	Aves	Cuculidae	Chalcites minutillus barnardi	Eastern little bronze-cuckoo	С	None	0	3	28/10/2001
1747	Aves	Cuculidae	Chalcites osculans	black-eared cuckoo	С	None	0	1	30/11/1992
1738	Aves	Cuculidae	Eudynamys orientalis	eastern koel	С	None	0	298	23/10/2015
1740	Aves	Cuculidae	Scythrops novaehollandiae	channel-billed cuckoo	С	None	0	231	23/10/2015
1601	Aves	Dicruridae	Dicrurus bracteatus	spangled drongo	С	None	0	75	02/11/2009
1366	Aves	Estrildidae	Lonchura castaneothorax	chestnut-breasted mannikin	С	None	0	134	02/11/2009
1369	Aves	Estrildidae	Neochmia modesta	plum-headed finch	С	None	0	30	26/10/2008
1359	Aves	Estrildidae	Neochmia temporalis	red-browed finch	С	None	0	145	11/03/2012
1355	Aves	Estrildidae	Stagonopleura guttata	diamond firetail	С	None	0	1	28/02/1991
1342	Aves	Estrildidae	Taeniopygia bichenovii	double-barred finch	С	None	0	534	09/05/2019
1343	Aves	Estrildidae	Taeniopygia guttata	zebra finch	С	None	0	244	01/11/2010
1962	Aves	Eurostopodida e	Eurostopodus argus	spotted nightjar	С	None	0	1	30/11/1990
1949	Aves	Eurostopodida e	Eurostopodus mystacalis	white-throated nightjar	С	None	0	12	22/10/2016
1716	Aves	Falconidae	Falco berigora	brown falcon	С	None	0	62	10/10/2012
1704	Aves	Falconidae	Falco cenchroides	nankeen kestrel	С	None	0	464	23/10/2015
1705	Aves	Falconidae	Falco hypoleucos	grey falcon	٧	None	0	1	22/06/2008

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1691	Aves	Falconidae	Falco longipennis	Australian hobby	С	None	0	41	07/06/2017
1692	Aves	Falconidae	Falco peregrinus	peregrine falcon	С	None	0	24	24/05/2009
1693	Aves	Falconidae	Falco subniger	black falcon	С	None	0	7	31/08/2019
1767	Aves	Halcyonidae	Dacelo novaeguineae	laughing kookaburra	С	None	0	744	09/03/2019
1760	Aves	Halcyonidae	Todiramphus macleayii	forest kingfisher	С	None	0	3	31/10/1991
1761	Aves	Halcyonidae	Todiramphus pyrrhopygius	red-backed kingfisher	С	None	0	6	13/02/2000
1762	Aves	Halcyonidae	Todiramphus sanctus	sacred kingfisher	С	None	0	134	25/11/2012
1583	Aves	Hirundinidae	Cheramoeca leucosterna	white-backed swallow	С	None	0	20	21/06/2003
1572	Aves	Hirundinidae	Hirundo neoxena	welcome swallow	С	None	0	269	26/08/2015
1585	Aves	Hirundinidae	Petrochelidon ariel	fairy martin	С	None	0	124	21/08/2014
1573	Aves	Hirundinidae	Petrochelidon nigricans	tree martin	С	None	0	23	14/12/2014
1928	Aves	Jacanidae	lrediparra gallinacea	comb-crested jacana	С	None	0	12	11/02/2012
1919	Aves	Laridae	Chlidonias hybrida	whiskered tern	С	None	0	3	17/10/1999
1912	Aves	Laridae	Chroicocephalus novaehollandiae	silver gull	С	None	0	4	29/02/1992
1896	Aves	Laridae	Hydroprogne caspia	Caspian tern	SL	None	0	2	02/11/2012
1570	Aves	Maluridae	Malurus cyaneus	superb fairy-wren	С	None	2	609	07/07/2018
1556	Aves	Maluridae	Malurus lamberti	variegated fairy-wren	С	None	0	129	09/03/2019
1558	Aves	Maluridae	Malurus melanocephalus	red-backed fairy-wren	С	None	0	98	23/10/2015
1291	Aves	Megaluridae	Cincloramphus cruralis	brown songlark	С	None	0	11	15/02/2003
1292	Aves	Megaluridae	Cincloramphus mathewsi	rufous songlark	С	None	0	14	23/10/2015
1287	Aves	Megaluridae	Megalurus gramineus	little grassbird	С	None	0	4	10/05/1992
1289	Aves	Megaluridae	Megalurus timoriensis	tawny grassbird	С	None	0	21	26/08/2015
1694	Aves	Megapodiidae	Alectura lathami	Australian brush-turkey	С	None	1	31	09/03/2019
1552	Aves	Meliphagidae	Acanthagenys rufogularis	spiny-cheeked honeyeater	С	None	0	348	17/07/2018
1555	Aves	Meliphagidae	Acanthorhynchus tenuirostris	eastern spinebill	С	None	0	71	07/09/2001
1541	Aves	Meliphagidae	Anthochaera carunculata	red wattlebird	С	None	0	32	27/05/2012
1542	Aves	Meliphagidae	Anthochaera chrysoptera	little wattlebird	С	None	0	1	05/09/1953
1523	Aves	Meliphagidae	Caligavis chrysops	yellow-faced honeyeater	С	None	0	154	09/07/2018
1539	Aves	Meliphagidae	Entomyzon cyanotis	blue-faced honeyeater	С	None	0	104	20/08/2014

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1496	Aves	Meliphagidae	Gavicalis virescens	singing honeyeater	С	None	0	2	31/12/1978
1521	Aves	Meliphagidae	Grantiella picta	painted honeyeater	٧	٧	0	1	28/10/2006
1497	Aves	Meliphagidae	Lichmera indistincta	brown honeyeater	С	None	0	644	27/09/2014
1499	Aves	Meliphagidae	Manorina flavigula	yellow-throated miner	С	None	0	1	10/12/2005
1500	Aves	Meliphagidae	Manorina melanocephala	noisy miner	С	None	0	713	09/03/2019
1504	Aves	Meliphagidae	Meliphaga lewinii	Lewin's honeyeater	С	None	0	644	09/05/2019
1507	Aves	Meliphagidae	Melithreptus albogularis	white-throated honeyeater	С	None	0	37	14/12/2014
1508	Aves	Meliphagidae	Melithreptus brevirostris	brown-headed honeyeater	С	None	0	17	16/12/2000
1483	Aves	Meliphagidae	Melithreptus gularis	black-chinned honeyeater	С	None	0	3	24/10/1993
1485	Aves	Meliphagidae	Melithreptus Iunatus	white-naped honeyeater	С	None	0	17	26/10/2008
1489	Aves	Meliphagidae	Myzomela sanguinolenta	scarlet honeyeater	С	None	0	72	25/07/2010
1493	Aves	Meliphagidae	Philemon citreogularis	little friarbird	С	None	0	121	14/12/2014
1494	Aves	Meliphagidae	Philemon corniculatus	noisy friarbird	С	None	0	266	27/09/2014
1482	Aves	Meliphagidae	Phylidonyris niger	white-cheeked honeyeater	С	None	0	1	30/09/1992
1471	Aves	Meliphagidae	Plectorhyncha lanceolata	striped honeyeater	С	None	0	453	07/06/2017
1513	Aves	Meliphagidae	Ptilotula fusca	fuscous honeyeater	С	None	0	45	07/06/2017
1764	Aves	Meropidae	Merops ornatus	rainbow bee-eater	С	None	0	113	23/10/2015
1589	Aves	Monarchidae	Grallina cyanoleuca	magpie-lark	С	None	0	801	09/05/2019
1595	Aves	Monarchidae	Monarcha melanopsis	black-faced monarch	SL	None	0	5	14/02/2005
1599	Aves	Monarchidae	Myiagra cyanoleuca	satin flycatcher	SL	None	0	5	28/10/2001
1600	Aves	Monarchidae	Myiagra inquieta	restless flycatcher	С	None	0	108	07/06/2017
1586	Aves	Monarchidae	Myiagra rubecula	leaden flycatcher	С	None	0	96	14/12/2014
1455	Aves	Motacillidae	Anthus novaeseelandiae	Australasian pipit	С	None	0	77	02/01/2012
1611	Aves	Nectariniidae	Dicaeum hirundinaceum	mistletoebird	С	None	0	431	07/06/2017
1453	Aves	Neosittidae	Daphoenositta chrysoptera	varied sittella	С	None	0	33	18/07/2010
1442	Aves	Oriolidae	Oriolus sagittatus	olive-backed oriole	С	None	0	287	26/08/2015
1444	Aves	Oriolidae	Sphecotheres vieilloti	Australasian figbird	С	None	0	416	09/07/2018
1449	Aves	Pachycephalid ae	Colluricincla harmonica	grey shrike-thrush	С	None	0	190	11/03/2012
1429	Aves	Pachycephalid ae	Falcunculus frontatus	crested shrike-tit	С	None	0	11	27/05/2016

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1436	Aves	Pachycephalid ae	Pachycephala pectoralis	golden whistler	С	None	0	57	18/07/2010
1437	Aves	Pachycephalid ae	Pachycephala rufiventris	rufous whistler	С	None	0	309	09/07/2018
1389	Aves	Pardalotidae	Pardalotus punctatus	spotted pardalote	С	None	0	67	18/07/2010
1392	Aves	Pardalotidae	Pardalotus striatus	striated pardalote	С	None	0	541	09/07/2018
1360	Aves	Passeridae	Passer domesticus	house sparrow	None	None	0	326	27/08/2018
1284	Aves	Pelecanidae	Pelecanus conspicillatus	Australian pelican	С	None	0	41	02/11/2009
1347	Aves	Petroicidae	Eopsaltria australis	eastern yellow robin	С	None	0	109	09/07/2018
1339	Aves	Petroicidae	Microeca fascinans	jacky winter	С	None	0	83	07/06/2017
1330	Aves	Petroicidae	Petroica boodang	scarlet robin	С	None	0	3	28/05/2000
1329	Aves	Petroicidae	Petroica goodenovii	red-capped robin	С	None	0	14	28/10/2001
1332	Aves	Petroicidae	Petroica rosea	rose robin	С	None	0	21	18/07/2010
1261	Aves	Phalacrocoraci dae	Microcarbo melanoleucos	little pied cormorant	С	None	0	112	09/03/2019
1275	Aves	Phalacrocoraci dae	Phalacrocorax carbo	great cormorant	С	None	0	23	01/11/2010
1263	Aves	Phalacrocoraci dae	Phalacrocorax sulcirostris	little black cormorant	С	None	0	39	11/02/2012
1264	Aves	Phalacrocoraci dae	Phalacrocorax varius	pied cormorant	С	None	0	7	30/09/1992
1699	Aves	Phasianidae	Coturnix pectoralis	stubble quail	С	None	0	10	22/02/2003
1687	Aves	Phasianidae	Coturnix ypsilophora	brown quail	С	None	0	394	29/11/2015
1955	Aves	Podargidae	Podargus strigoides	tawny frogmouth	С	None	0	290	04/01/2018
1271	Aves	Podicipedidae	Podiceps cristatus	great crested grebe	С	None	0	4	11/02/2012
1260	Aves	Podicipedidae	Poliocephalus poliocephalus	hoary-headed grebe	С	None	0	9	16/05/2015
1249	Aves	Podicipedidae	Tachybaptus novaehollandiae	Australasian grebe	С	None	0	120	07/06/2017
1317	Aves	Pomatostomid ae	Pomatostomus superciliosus	white-browed babbler	С	None	0	1	13/11/1999
1318	Aves	Pomatostomid ae	Pomatostomus temporalis	grey-crowned babbler	С	None	0	156	07/06/2017
1180	Aves	Psittacidae	Alisterus scapularis	Australian king-parrot	С	None	0	226	16/06/2009
1182	Aves	Psittacidae	Aprosmictus erythropterus	red-winged parrot	С	None	0	3	30/04/1997
1145	Aves	Psittacidae	Glossopsitta concinna	musk lorikeet	С	None	0	20	09/07/2018
1154	Aves	Psittacidae	Neophema pulchella	turquoise parrot	С	None	0	4	15/08/1993
1141	Aves	Psittacidae	Neophema splendida	scarlet-chested parrot	С	None	0	1	31/05/1992

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1131	Aves	Psittacidae	Northiella haematogaster haematorrhoa	blue bonnet (red-vented)	С	None	1	1	13/08/2016
1147	Aves	Psittacidae	Parvipsitta pusilla	little lorikeet	С	None	0	76	01/11/2010
1136	Aves	Psittacidae	Platycercus adscitus	pale-headed rosella	С	None	0	800	09/05/2019
1138	Aves	Psittacidae	Platycercus elegans	crimson rosella	С	None	0	4	04/11/2001
1139	Aves	Psittacidae	Platycercus eximius	eastern rosella	С	None	0	4	12/04/2008
1118	Aves	Psittacidae	Psephotus haematonotus	red-rumped parrot	С	None	0	198	02/11/2009
1124	Aves	Psittacidae	Trichoglossus chlorolepidotus	scaly-breasted lorikeet	С	None	0	540	13/08/2016
1125	Aves	Psittacidae	Trichoglossus haematodus moluccanus	rainbow lorikeet	С	None	0	488	20/08/2014
1619	Aves	Psophodidae	Cinclosoma punctatum	spotted quail-thrush	С	None	0	1	11/04/1997
1623	Aves	Psophodidae	Psophodes olivaceus	eastern whipbird	С	None	0	307	09/05/2019
1320	Aves	Ptilonorhynchid ae	Ptilonorhynchus violaceus	satin bowerbird	С	None	0	47	13/08/2016
1308	Aves	Ptilonorhynchid ae	Sericulus chrysocephalus	regent bowerbird	С	None	0	15	06/08/2000
1682	Aves	Rallidae	Amaurornis moluccana	pale-vented bush-hen	С	None	0	1	30/01/2004
1686	Aves	Rallidae	Fulica atra	Eurasian coot	С	None	0	17	01/11/2010
1673	Aves	Rallidae	Gallinula tenebrosa	dusky moorhen	С	None	0	64	01/11/2010
1675	Aves	Rallidae	Gallirallus philippensis	buff-banded rail	С	None	0	14	22/11/2003
1662	Aves	Rallidae	Porphyrio melanotus	purple swamphen	С	None	0	22	01/11/2010
1665	Aves	Rallidae	Porzana pusilla	Baillon's crake	С	None	0	1	15/01/1983
1893	Aves	Recurvirostrida e	Himantopus himantopus	black-winged stilt	С	None	0	68	07/06/2017
1881	Aves	Recurvirostrida e	Recurvirostra novaehollandiae	red-necked avocet	С	None	0	19	16/05/2015
1575	Aves	Rhipiduridae	Rhipidura albiscapa	grey fantail	С	None	0	305	09/05/2019
1576	Aves	Rhipiduridae	Rhipidura leucophrys	willie wagtail	С	None	0	614	09/05/2019
1578	Aves	Rhipiduridae	Rhipidura rufifrons	rufous fantail	SL	None	0	25	26/10/2008
1883	Aves	Rostratulidae	Rostratula australis	Australian painted snipe	E	E	0	8	03/06/1992
1885	Aves	Scolopacidae	Actitis hypoleucos	common sandpiper	SL	None	0	4	10/10/1994
1874	Aves	Scolopacidae	Calidris acuminata	sharp-tailed sandpiper	SL	None	0	6	25/01/1993
1880	Aves	Scolopacidae	Calidris ruficollis	red-necked stint	SL	None	0	3	31/01/1993
	Aves	Scolopacidae	Gallinago	Latham's snipe	SL	None	0	11	23/09/2006

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1855	Aves	Scolopacidae	Limosa limosa	black-tailed godwit	SL	None	0	1	31/12/1991
1845	Aves	Scolopacidae	Numenius phaeopus	whimbrel	SL	None	0	2	10/05/1992
1847	Aves	Scolopacidae	Phalaropus lobatus	red-necked phalarope	SL	None	0	6	10/05/1992
1853	Aves	Scolopacidae	Tringa nebularia	common greenshank	SL	None	0	1	31/12/1991
1841	Aves	Scolopacidae	Tringa stagnatilis	marsh sandpiper	SL	None	0	10	21/11/1993
1102	Aves	Strigidae	Ninox boobook	southern boobook	С	None	0	160	17/03/2007
1107	Aves	Strigidae	Ninox strenua	powerful owl	٧	None	0	2	31/12/1978
1314	Aves	Sturnidae	Acridotheres tristis	common myna	None	None	0	651	10/11/2016
1303	Aves	Sturnidae	Sturnus vulgaris	common starling	None	None	0	522	09/07/2018
1822	Aves	Threskiornithid ae	Platalea flavipes	yellow-billed spoonbill	С	None	0	24	26/10/2008
1823	Aves	Threskiornithid ae	Platalea regia	royal spoonbill	С	None	0	26	02/11/2009
1825	Aves	Threskiornithid ae	Plegadis falcinellus	glossy ibis	SL	None	0	2	31/01/1991
1812	Aves	Threskiornithid ae	Threskiornis molucca	Australian white ibis	С	None	0	185	30/11/2014
1800	Aves	Threskiornithid ae	Threskiornis spinicollis	straw-necked ibis	С	None	0	405	09/03/2019
1276	Aves	Timaliidae	Zosterops lateralis	silvereye	С	None	0	573	09/07/2018
19677	Aves	Turdidae	Turdus merula	common blackbird	Р	None	0	3	17/08/2009
1091	Aves	Turnicidae	Turnix maculosus	red-backed button-quail	С	None	0	1	16/12/1981
1092	Aves	Turnicidae	Turnix melanogaster	black-breasted button-quail	٧	V	0	6	03/05/1999
1094	Aves	Turnicidae	Turnix pyrrhothorax	red-chested button-quail	С	None	0	4	11/02/2012
1081	Aves	Turnicidae	Turnix varius	painted button-quail	С	None	0	24	21/09/1999
1108	Aves	Tytonidae	Tyto delicatula	eastern barn owl	С	None	0	12	04/09/2009
18292	Aves	Tytonidae	Tyto novaehollandiae novaehollandiae	masked owl (southern subspecies)	С	None	0	1	10/08/1994
35081	Insecta	Aeshnidae	Anax papuensis	Australian Emperor	None	None	0	4	23/10/2015
35124	Insecta	Corduliidae	Hemicordulia australiae	Australian emerald	None	None	0	1	18/04/2014
35129	Insecta	Corduliidae	Hemicordulia tau	tau emerald	None	None	0	1	25/11/2012
35137	Insecta	Diphlebiidae	Diphlebia nymphoides	arrowhead rockmaster	None	None	0	1	07/04/2013
35199	Insecta	Libellulidae	Diplacodes bipunctata	wandering percher	None	None	0	3	14/12/2013
35200	Insecta	Libellulidae	Diplacodes haematodes	scarlet percher	None	None	0	5	14/12/2013
35219	Insecta	Libellulidae	Orthetrum caledonicum	blue skimmer	None	None	0	5	14/12/2013
35223	Insecta	Libellulidae	Orthetrum villosovittatum	fiery skimmer	None	None	0	1	14/12/2013
35237	Insecta	Libellulidae	Tramea loewii	common glider	None	None	0	1	18/04/2014

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9	Insecta	Lycaenidae	Jalmenus eubulus	pale imperial hairstreak	٧	None	0	1	26/01/2009
19900	Insecta	Lycaenidae	Jalmenus evagoras	imperial hairstreak	None	None	0	5	25/12/2005
19313	Insecta	Lycaenidae	Lampides boeticus	long-tailed pea-blue	None	None	0	1	23/10/2015
20035	Insecta	Lycaenidae	Theclinesthes onycha	None	None	None	0	1	10/02/2019
19316	Insecta	Lycaenidae	Zizina otis labradus	common grass-blue (Australian subspecies)	None	None	0	20	14/04/2009
35933	Insecta	Megapodagrio nidae	Austroargiolestes icteromelas	common flatwing	None	None	0	2	22/02/2013
35252	Insecta	Megapodagrio nidae	Austroargiolestes icteromelas icteromelas	pale-mouth common flatwing	None	None	0	2	14/12/2013
19149	Insecta	Nymphalidae	Acraea andromacha andromacha	glasswing	None	None	0	13	09/03/2019
19147	Insecta	Nymphalidae	Charaxes sempronius sempronius	tailed emperor	None	None	0	3	26/10/2008
19179	Insecta	Nymphalidae	Danaus petilia	lesser wanderer	None	None	0	23	09/03/2019
19177	Insecta	Nymphalidae	Danaus plexippus	monarch	None	None	0	42	23/10/2015
19185	Insecta	Nymphalidae	Euploea corinna	common crow	None	None	0	11	20/03/2009
19132	Insecta	Nymphalidae	Hypocysta pseudirius	grey ringlet	None	None	0	1	27/09/2014
19163	Insecta	Nymphalidae	Hypolimnas bolina nerina	varied eggfly	None	None	0	3	26/01/2009
19172	Insecta	Nymphalidae	Junonia villida villida	meadow argus	None	None	0	36	09/03/2019
19159	Insecta	Nymphalidae	Phaedyma shepherdi shepherdi	white-banded plane (southern subspecies)	None	None	0	2	11/02/2012
19176	Insecta	Nymphalidae	Tirumala hamata hamata	blue tiger	None	None	0	8	09/05/2019
19170	Insecta	Nymphalidae	Vanessa itea	yellow admiral	None	None	0	1	01/02/2009
19061	Insecta	Papilionidae	Graphium choredon	blue triangle	None	None	0	12	20/03/2009
19068	Insecta	Papilionidae	Papilio aegeus aegeus	orchard swallowtail (Australian subspecies)	None	None	0	5	09/03/2019
19067	Insecta	Papilionidae	Papilio anactus	dainty swallowtail	None	None	0	3	26/01/2009
19074	Insecta	Papilionidae	Papilio demoleus sthenelus	chequered swallowtail	None	None	0	1	30/01/2005
19110	Insecta	Pieridae	Belenois java teutonia	caper white	None	None	0	14	09/05/2019
19079	Insecta	Pieridae	Catopsilia gorgophone gorgophone	yellow migrant	None	None	0	1	06/09/2003
19078	Insecta	Pieridae	Catopsilia pomona	lemon migrant	None	None	0	3	25/12/2005
19077	Insecta	Pieridae	Catopsilia pyranthe crokera	white migrant	None	None	0	2	25/12/2005

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19084	Insecta	Pieridae	Eurema smilax	small grass-yellow	None	None	0	1	30/01/2005
19118	Insecta	Pieridae	Pieris rapae	cabbage white	None	None	0	24	14/04/2009
35268	Insecta	Synlestidae	Episynlestes albicauda	southern whitetip	None	None	0	2	17/12/2013
35275	Insecta	Synthemistidae	Choristhemis flavoterminata	yellow-tipped tigertail	None	None	0	3	14/12/2013
35300	Insecta	Telephlebiidae	Austroaeschna sigma	sigma darner	None	None	0	1	17/12/2013
1067	Mammalia	Canidae	Canis familiaris	dog	None	None	0	2	31/12/1978
1068	Mammalia	Canidae	Canis familiaris (dingo)	dingo	None	None	0	6	12/04/2008
1071	Mammalia	Canidae	Vulpes vulpes	red fox	None	None	0	3	11/03/2012
821	Mammalia	Dasyuridae	Antechinus sp.	None	None	None	0	1	11/03/1993
808	Mammalia	Dasyuridae	Phascogale tapoatafa tapoatafa	brush-tailed phascogale	С	None	0	2	31/12/1993
811	Mammalia	Dasyuridae	Planigale maculata	common planigale	С	None	0	6	31/12/1990
793	Mammalia	Dasyuridae	Sminthopsis murina	common dunnart	С	None	0	4	31/12/1990
1006	Mammalia	Emballonurida e	Saccolaimus flaviventris	yellow-bellied sheathtail bat	С	None	0	3	04/05/1993
1056	Mammalia	Felidae	Felis catus	cat	None	None	0	3	09/03/2019
832	Mammalia	Leporidae	Lepus europaeus	European brown hare	None	None	0	50	09/05/2019
834	Mammalia	Leporidae	Oryctolagus cuniculus	rabbit	None	None	0	7	28/01/2018
914	Mammalia	Macropodidae	Macropus dorsalis	black-striped wallaby	С	None	0	3	06/09/1994
901	Mammalia	Macropodidae	Macropus giganteus	eastern grey kangaroo	С	None	0	3	06/09/2017
902	Mammalia	Macropodidae	Macropus parryi	whiptail wallaby	С	None	0	1	31/03/2005
904	Mammalia	Macropodidae	Macropus rufogriseus	red-necked wallaby	С	None	0	5	11/03/2012
890	Mammalia	Macropodidae	Petrogale penicillata	brush-tailed rock-wallaby	v	V	0	3	11/07/1996
885	Mammalia	Macropodidae	Wallabia bicolor	swamp wallaby	С	None	0	5	09/05/2019
954	Mammalia	Miniopteridae	Miniopterus australis	little bent-wing bat	С	None	0	1	11/03/2012
955	Mammalia	Miniopteridae	Miniopterus schreibersii oceanensis	eastern bent-wing bat	С	None	0	5	31/05/1992
22061	Mammalia	Molossidae	Mormopterus ridei	eastern free-tailed bat	С	None	0	1	11/03/2012
989	Mammalia	Molossidae	Tadarida australis	white-striped freetail bat	С	None	0	1	11/03/2012
767	Mammalia	Muridae	Hydromys chrysogaster	water rat	С	None	0	1	21/01/2011
764	Mammalia	Muridae	Mus musculus	house mouse	None	None	0	3	01/01/2003
749	Mammalia	Muridae	Pseudomys gracilicaudatus	eastern chestnut mouse	С	None	0	6	31/12/1990
731	Mammalia	Muridae	Rattus rattus	black rat	None	None	0	3	15/03/2016
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734	Mammalia	Muridae	Rattus tunneyi	pale field-rat	С	None	0	1	01/01/2003
836	Mammalia	Ornithorhynchi dae	Ornithorhynchus anatinus	platypus	SL	None	0	2	12/07/1996
784	Mammalia	Peramelidae	Isoodon macrourus	northern brown bandicoot	С	None	0	10	11/03/2012
787	Mammalia	Peramelidae	Perameles nasuta	long-nosed bandicoot	С	None	0	6	16/07/2018
877	Mammalia	Petauridae	Petaurus breviceps	sugar glider	С	None	0	3	03/11/2017
879	Mammalia	Petauridae	Petaurus norfolcensis	squirrel glider	С	None	0	3	07/11/2017
880	Mammalia	Petauridae	Petaurus sp.	None	None	None	0	1	15/12/2015
859	Mammalia	Phalangeridae	Trichosurus vulpecula	common brushtail possum	С	None	0	6	23/06/2017
860	Mammalia	Phascolarctida e	Phascolarctos cinereus	koala	٧	V	0	155	03/10/2019
862	Mammalia	Potoroidae	Aepyprymnus rufescens	rufous bettong	С	None	0	1	31/12/1978
851	Mammalia	Pseudocheirid ae	Pseudocheirus peregrinus	common ringtail possum	С	None	0	2	11/08/2018
984	Mammalia	Pteropodidae	Pteropus alecto	black flying-fox	С	None	0	7	28/10/2016
962	Mammalia	Pteropodidae	Pteropus poliocephalus	grey-headed flying-fox	С	٧	0	7	21/10/2011
963	Mammalia	Pteropodidae	Pteropus scapulatus	little red flying-fox	С	None	0	4	02/11/2012
838	Mammalia	Tachyglossida e	Tachyglossus aculeatus	short-beaked echidna	SL	None	0	7	29/02/2016
972	Mammalia	Vespertilionida e	Chalinolobus gouldii	Gould's wattled bat	С	None	0	2	11/03/2012
948	Mammalia	Vespertilionida e	Chalinolobus picatus	little pied bat	С	None	0	1	18/12/2001
935	Mammalia	Vespertilionida e	Nyctophilus geoffroyi	lesser long-eared bat	С	None	0	3	09/04/1997
936	Mammalia	Vespertilionida e	Nyctophilus gouldi	Gould's long-eared bat	С	None	0	1	13/05/1995
938	Mammalia	Vespertilionida e	Nyctophilus sp.	None	None	None	0	1	11/03/2012
943	Mammalia	Vespertilionida e	Scoteanax rueppellii	greater broad-nosed bat	С	None	0	1	15/03/1995
931	Mammalia	Vespertilionida e	Scotorepens greyii	little broad-nosed bat	С	None	0	1	11/03/2012
929	Mammalia	Vespertilionida e	Vespadelus vulturnus	little forest bat	С	None	0	1	11/03/2012
560	Reptilia	Agamidae	Amphibolurus muricatus	jacky lizard	С	None	0	1	19/03/1990
554	Reptilia	Agamidae	Intellagama lesueurii	eastern water dragon	С	None	0	9	28/01/2015
556	Reptilia	Agamidae	Pogona barbata	bearded dragon	С	None	0	16	13/11/2017
519	Reptilia	Boidae	Morelia spilota	carpet python	С	None	0	5	22/09/1992
396	Reptilia	Carphodactylid ae	Underwoodisauru s milii	thick-tailed gecko	С	None	0	2	08/06/1996

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
62	Reptilia	Chelidae	Chelodina expansa	broad-shelled river turtle	С	None	0	1	30/04/1990
63	Reptilia	Chelidae	Chelodina longicollis	eastern snake-necked turtle	С	None	0	3	25/07/1992
43	Reptilia	Chelidae	Emydura macquarii macquarii	Murray turtle	С	None	0	1	31/12/1991
522	Reptilia	Colubridae	Boiga irregularis	brown tree snake	С	None	0	2	31/01/1993
512	Reptilia	Colubridae	Dendrelaphis punctulatus	green tree snake	С	None	0	3	02/11/2012
508	Reptilia	Colubridae	Tropidonophis mairii	freshwater snake	С	None	0	6	03/06/1994
429	Reptilia	Diplodactylidae	Diplodactylus vittatus	wood gecko	С	None	0	1	16/03/2016
391	Reptilia	Diplodactylidae	Nebulifera robusta	robust velvet gecko	С	None	0	1	10/11/2016
501	Reptilia	Elapidae	Cacophis harriettae	white-crowned snake	С	None	0	1	30/04/1992
490	Reptilia	Elapidae	Cacophis squamulosus	golden crowned snake	С	None	0	3	02/03/2005
457	Reptilia	Elapidae	Cryptophis nigrescens	eastern small-eyed snake	С	None	0	2	15/11/2017
493	Reptilia	Elapidae	Demansia psammophis	yellow-faced whipsnake	С	None	0	4	14/02/2005
438	Reptilia	Elapidae	Parasuta dwyeri	Dwyer's snake	С	None	0	1	23/01/2002
462	Reptilia	Elapidae	Pseudechis porphyriacus	red-bellied black snake	С	None	0	6	15/03/2016
454	Reptilia	Elapidae	Pseudonaja textilis	eastern brown snake	С	None	0	6	31/10/2016
420	Reptilia	Gekkonidae	Gehyra dubia	dubious dtella	С	None	0	1	11/03/2012
411	Reptilia	Gekkonidae	Hemidactylus frenatus	house gecko	None	None	0	2	10/02/2019
413	Reptilia	Gekkonidae	Heteronotia binoei	Bynoe's gecko	С	None	0	1	23/10/2015
321	Reptilia	Pygopodidae	Delma plebeia	common delma	С	None	0	6	23/10/2015
323	Reptilia	Pygopodidae	Delma tincta	excitable delma	С	None	0	1	01/01/2003
324	Reptilia	Pygopodidae	Delma torquata	collared delma	٧	٧	0	115	26/09/2016
325	Reptilia	Pygopodidae	Lialis burtonis	Burton's legless lizard	С	None	0	1	31/10/1990
308	Reptilia	Scincidae	Anomalopus verreauxii	three-clawed worm-skink	С	None	0	3	14/03/2016
312	Reptilia	Scincidae	Calyptotis scutirostrum	scute-snouted calyptotis	С	None	0	5	09/11/2017
276	Reptilia	Scincidae	Carlia tetradactyla	southern rainbow-skink	С	None	0	3	01/02/2009
277	Reptilia	Scincidae	Carlia vivax	tussock rainbow-skink	С	None	0	1	10/11/2016
193	Reptilia	Scincidae	Concinnia tenuis	bar-sided skink	С	None	0	3	03/01/2010
31898	Reptilia	Scincidae	Cryptoblepharus pulcher pulcher	elegant snake-eyed skink	С	None	0	4	10/02/2019
240	Reptilia	Scincidae	Ctenotus spaldingi	straight-browed ctenotus	С	None	0	5	23/10/2015

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
243	Reptilia	Scincidae	Ctenotus taeniolatus	copper-tailed skink	С	None	0	4	08/08/1993
220	Reptilia	Scincidae	Egernia cunninghami	Cunningham's skink	С	None	0	4	02/03/2016
190	Reptilia	Scincidae	Eulamprus quoyii	eastern water skink	С	None	0	2	26/02/2016
184	Reptilia	Scincidae	Lampropholis delicata	dark-flecked garden sunskink	С	None	0	3	11/11/2017
170	Reptilia	Scincidae	Lampropholis guichenoti	pale-flecked garden sunskink	С	None	0	4	02/03/2016
226	Reptilia	Scincidae	Liopholis modesta	eastern ranges rock-skink	С	None	0	3	04/02/1994
150	Reptilia	Scincidae	Lygisaurus foliorum	tree-base litter-skink	С	None	0	2	09/03/2019
127	Reptilia	Scincidae	Menetia greyii	common dwarf skink	С	None	0	1	23/10/2015
134	Reptilia	Scincidae	Morethia boulengeri	south-eastern morethia skink	С	None	0	1	09/04/1993
138	Reptilia	Scincidae	Morethia taeniopleura	fire-tailed skink	С	None	0	1	11/03/2012
104	Reptilia	Scincidae	Tiliqua scincoides	eastern blue-tongued lizard	С	None	0	4	12/01/2017
92	Reptilia	Typhlopidae	Anilios nigrescens	blackish blind snake	С	None	0	1	01/02/2005
81	Reptilia	Typhlopidae	Anilios sp.	None	None	None	0	2	15/12/2015
83	Reptilia	Typhlopidae	Anilios wiedii	brown-snouted blind snake	С	None	0	2	11/11/2015
61	Reptilia	Varanidae	Varanus varius	lace monitor	С	None	0	1	31/10/1991

Table 3. Plants recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
17767	Equisetopsid a	Acanthaceae	Brunoniella australis	blue trumpet	С	None	0	1	17/03/2005
16375	Equisetopsid a	Acanthaceae	Pseuderanthemum variabile	pastel flower	С	None	0	1	17/03/2005
16262	Equisetopsid a	Acanthaceae	Rostellularia adscendens	None	С	None	0	1	17/03/2005
33640	Equisetopsid a	Acanthaceae	Ruellia simplex	None	None	None	1	1	07/04/2011
34960	Equisetopsid a	Adoxaceae	Viburnum odoratissimum var. awabuki	sweet viburnum 'emerald lustre¿	None	None	1	1	18/12/2014
26257	Equisetopsid a	Alliaceae	Nothoscordum borbonicum	None	None	None	0	2	05/11/2003
11782	Equisetopsid a	Amaranthace ae	Guilleminea densa	small matweed	None	None	1	1	31/05/1996
11702	Equisetopsid a	Amaryllidace ae	Proiphys cunninghamii	Moreton Bay	С	None	0	1	17/03/2005
17172	Equisetopsid a	Anacardiace ae	Euroschinus falcatus var. falcatus	None	С	None	1	1	17/12/2014
14256	Equisetopsid a	Anacardiace ae	Rhodosphaera rhodanthema	tulip satinwood	С	None	0	1	17/03/2005

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
29155	Equisetopsid a	Anomodonta ceae	Anomodon pseudotristis	None	С	None	1	1	31/12/1888
9880	Equisetopsid a	Aphanopetal aceae	Aphanopetalum resinosum	gumvine	С	None	0	1	17/03/2005
15545	Equisetopsid a	Apiaceae	Centella asiatica	None	С	None	0	1	17/03/2005
15504	Equisetopsid a	Apiaceae	Conium maculatum	poison hemlock	None	None	2	2	23/10/1947
15495	Equisetopsid a	Apiaceae	Cyclospermum leptophyllum	None	None	None	0	1	05/11/2003
12626	Equisetopsid a	Apiaceae	Foeniculum vulgare	fennel	None	None	1	2	01/11/2003
9484	Equisetopsid a	Apocynaceae	Alstonia constricta	bitterbark	С	None	0	1	17/03/2005
19732	Equisetopsid a	Apocynaceae	Alyxia ruscifolia	None	С	None	0	1	17/03/2005
8244	Equisetopsid a	Apocynaceae	Araujia sericifera	white moth vine	None	None	0	1	01/11/2003
9698	Equisetopsid a	Apocynaceae	Carissa ovata	currantbush	С	None	1	2	17/03/2005
17050	Equisetopsid a	Apocynaceae	Gomphocarpus physocarpus	balloon cottonbush	None	None	0	2	05/11/2003
11205	Equisetopsid a	Apocynaceae	Marsdenia coronata	slender milkvine	٧	None	1	1	10/06/2019
11208	Equisetopsid a	Apocynaceae	Marsdenia viridiflora subsp. viridiflora	None	С	None	1	1	05/12/2007
16526	Equisetopsid a	Apocynaceae	Parsonsia straminea	monkey rope	С	None	0	1	17/03/2005
41249	Equisetopsid a	Apocynaceae	Vincetoxicum grandiflorum	None	С	None	1	1	31/05/1989
35914	Equisetopsid a	Apocynaceae	Vincetoxicum ovatum	None	С	None	0	1	17/03/2005
12389	Equisetopsid a	Araceae	Gymnostachys anceps	settler's flax	С	None	0	1	17/03/2005
11142	Equisetopsid a	Araceae	Typhonium brownii	black arum lily	С	None	0	2	17/03/2005
15277	Equisetopsid a	Araliaceae	Hydrocotyle acutiloba	None	С	None	0	1	17/03/2005
8462	Equisetopsid a	Araliaceae	Polyscias elegans	celery wood	С	None	1	2	17/03/2005
14014	Equisetopsid a	Asphodelace ae	Bulbine bulbosa	golden lily	С	None	1	1	24/10/1999
17937	Equisetopsid a	Aspleniaceae	Asplenium australasicum	None	С	None	0	2	17/03/2005
35711	Equisetopsid a	Aspleniaceae	Asplenium subglandulosum subsp. subglandulosum	None	С	None	1	1	07/11/2000
35061	Equisetopsid a	Asteraceae	Apowollastonia spilanthoides	None	С	None	0	1	17/03/2005
15644	Equisetopsid a	Asteraceae	Arctotheca calendula	Cape weed	None	None	2	2	30/09/2012
15612	Equisetopsid a	Asteraceae	Baccharis halimifolia	groundsel bush	None	None	0	1	05/11/2003

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
7691	Equisetopsid a	Asteraceae	Bidens pilosa	None	None	None	0	1	01/11/2003
11093	Equisetopsid a	Asteraceae	Brachyscome	None	None	None	0	1	17/03/2005
14793	Equisetopsid a	Asteraceae	Brachyscome dentata	None	С	None	1	1	07/04/2011
15568	Equisetopsid a	Asteraceae	Calotis lappulacea	yellow burr daisy	С	None	0	1	17/03/2005
9664	Equisetopsid a	Asteraceae	Carduus pycnocephalus	None	None	None	0	1	07/12/2008
14781	Equisetopsid a	Asteraceae	Carthamus Ianatus	saffron thistle	None	None	0	1	05/11/2003
14738	Equisetopsid a	Asteraceae	Cassinia laevis	None	С	None	0	1	17/03/2005
10073	Equisetopsid a	Asteraceae	Centaurea melitensis	Maltese cockspur	None	None	1	1	24/10/1999
8398	Equisetopsid a	Asteraceae	Chrysocephalum apiculatum	yellow buttons	С	None	0	1	17/03/2005
14001	Equisetopsid a	Asteraceae	Cirsium vulgare	spear thistle	None	None	0	2	05/11/2003
22237	Equisetopsid a	Asteraceae	Cyanthillium cinereum	None	С	None	0	1	17/03/2005
9092	Equisetopsid a	Asteraceae	Glossccardia bidens	native cobbler's pegs	С	None	0	1	17/03/2005
31935	Equisetopsid a	Asteraceae	Hypochaeris albiflora	None	None	None	0	1	29/10/2005
10151	Equisetopsid a	Asteraceae	Lactuca serriola	prickly lettuce	None	None	0	2	05/11/2003
26774	Equisetopsid a	Asteraceae	Leiocarpa brevicompta	None	С	None	1	1	07/04/2011
15212	Equisetopsid a	Asteraceae	Olearia elliptica subsp. elliptica	sticky daisy bush	С	None	2	3	17/03/2005
19978	Equisetopsid a	Asteraceae	Picris angustifolia	None	С	None	0	1	17/03/2005
10604	Equisetopsid a	Asteraceae	Picris evae	None	٧	٧	1	3	01/02/2018
31135	Equisetopsid a	Asteraceae	Rhaponticum australe	None	٧	V	1	1	24/10/1999
20007	Equisetopsid a	Asteraceae	Senecio hispidulus	None	С	None	0	1	17/03/2005
9326	Equisetopsid a	Asteraceae	Senecio minimus	None	С	None	0	1	17/03/2005
15038	Equisetopsid a	Asteraceae	Sonchus asper	rough sowthistle	None	None	1	1	23/10/1947
15039	Equisetopsid a	Asteraceae	Sonchus oleraceus	common sowthistle	None	None	0	1	01/11/2003
13755	Equisetopsid a	Asteraceae	Tagetes minuta	stinking roger	None	None	0	2	05/11/2003
11639	Equisetopsid a	Asteraceae	Tanacetum vulgare	tansy	None	None	1	1	11/11/2002

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
10448	Equisetopsid a	Asteraceae	Taraxacum officinale	dandelion	None	None	0	1	25/10/2005
16008	Equisetopsid a	Asteraceae	Tragopogon porrifolius	salsify	None	None	1	1	24/10/1999
10459	Equisetopsid a	Asteraceae	Vittadinia	None	None	None	0	1	17/03/2005
12899	Equisetopsid a	Asteraceae	Vittadinia pterochaeta	rough fuzzweed	С	None	1	1	23/10/1947
27470	Equisetopsid a	Asteraceae	Xerochrysum bracteatum	golden everlasting daisy	С	None	0	1	17/03/2005
11266	Equisetopsid a	Basellaceae	Anredera cordifolia	Madeira vine	None	None	0	1	13/01/2005
16570	Equisetopsid a	Bignoniaceae	Pandorea pandorana	wonga vine	С	None	0	2	17/03/2005
14613	Equisetopsid a	Blechnaceae	Doodia aspera	prickly rasp fern	С	None	0	1	17/03/2005
10554	Equisetopsid a	Brassicaceae	Capsella bursa-pastoris	shepherd's purse	None	None	0	1	05/11/2003
15322	Equisetopsid a	Brassicaceae	Hirschfeldia incana	buchan weed	None	None	1	1	05/08/1976
15098	Equisetopsid a	Brassicaceae	Raphanus raphanistrum	wild radish	None	None	2	2	23/10/1947
11630	Equisetopsid a	Brassicaceae	Rapistrum rugosum	None	None	None	0	1	05/11/2003
14260	Equisetopsid a	Brassicaceae	Rorippa nasturtium-aquaticum	watercress	None	None	0	1	25/10/2003
10617	Equisetopsid a	Brassicaceae	Sisymbrium officinale	hedge mustard	None	None	1	1	23/10/1947
19352	Equisetopsid a	Cactaceae	Opuntia stricta	None	None	None	0	1	25/10/2003
9535	Equisetopsid a	Cactaceae	Opuntia tomentosa	velvety tree pear	None	None	0	15	09/05/2019
36114	Equisetopsid a	Caesalpiniac eae	Erythrostemon gilliesii	None	None	None	1	1	24/10/1999
5852	Equisetopsid a	Caesalpiniac eae	Senna sophera var. (40Mile Scrub J.R.Clarkson+ 6908)	None	С	None	1	1	02/05/2004
16766	Equisetopsid a	Campanulac eae	Lobelia purpurascens	white root	С	None	0	1	17/03/2005
15918	Equisetopsid a	Campanulac eae	Wahlenbergia gracilis	sprawling bluebell	С	None	0	1	17/03/2005
19393	Equisetopsid a	Campanulac eae	Wahlenbergia stricta	None	С	None	0	1	17/03/2005
13981	Equisetopsid a	Cannaceae	Canna indica	Indian shot	None	None	0	1	01/11/2003
17725	Equisetopsid a	Capparaceae	Capparis arborea	brush caper berry	С	None	0	1	17/03/2005
16508	Equisetopsid a	Caryophyllac eae	Petrorhagia nanteuilii	proliferous pink	None	None	1	2	01/11/2003
13748	Equisetopsid a	Caryophyllac eae	Stellaria media	chickweed	None	None	1	1	09/09/1996

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
18013	Equisetopsid a	Casuarinace ae	Allocasuarina luehmannii	bull oak	С	None	0	1	25/06/1999
18014	Equisetopsid a	Casuarinace ae	Allocasuarina torulosa	None	С	None	1	2	17/12/2014
9087	Equisetopsid a	Casuarinace ae	Casuarina cunninghamiana	None	С	None	0	2	17/03/2005
11097	Equisetopsid a	Celastraceae	Celastrus subspicata	large-leaved staffvine	С	None	2	2	09/01/1992
34774	Equisetopsid a	Celastraceae	Denhamia bilocularis	None	С	None	0	1	17/03/2005
14636	Equisetopsid a	Celastraceae	Denhamia celastroides	broad-leaved boxwood	С	None	0	1	17/03/2005
17456	Equisetopsid a	Celastraceae	Denhamia pittosporoides subsp. pittosporoides	None	С	None	1	1	22/08/1991
15034	Equisetopsid a	Celastraceae	Siphonodon australis	ivorywood	С	None	1	1	27/04/1991
17684	Equisetopsid a	Chenopodiac eae	Chenopodium album	fat-hen	None	None	1	1	31/05/1996
34474	Equisetopsid a	Chenopodiac eae	Dysphania pumilio	None	С	None	0	1	17/03/2005
15283	Equisetopsid a	Clusiaceae	Hypericum gramineum	None	С	None	0	1	17/03/2005
12969	Equisetopsid a	Colchicaceae	Iphigenia indica	None	С	None	0	1	17/03/2005
17996	Equisetopsid a	Commelinac eae	Aneilema acuminatum	None	С	None	0	1	17/03/2005
17593	Equisetopsid a	Commelinac eae	Commelina	None	None	None	0	1	17/03/2005
10552	Equisetopsid a	Convolvulace ae	Calystegia marginata	forest bindweed	С	None	0	1	17/03/2005
14649	Equisetopsid a	Convolvulace ae	Cuscuta campestris	dodder	None	None	1	1	26/02/1969
17422	Equisetopsid a	Convolvulace ae	Dichondra repens	kidney weed	С	None	0	3	17/03/2005
16399	Equisetopsid a	Convolvulace ae	Polymeria	None	None	None	0	1	17/03/2005
21934	Equisetopsid a	Crassulacea e	Bryophyllum delagoense	None	None	None	0	1	28/10/2015
17770	Equisetopsid a	Crassulacea e	Bryophyllum proliferum	None	None	None	1	1	06/07/1994
9267	Equisetopsid a	Crassulacea e	Crassula sieberiana	None	С	None	0	1	17/03/2005
19806	Equisetopsid a	Cucurbitacea e	Cucumis anguria	None	None	None	0	1	09/07/1996
11495	Equisetopsid a	Cucurbitacea e	Cucumis myriocarpus subsp. myriocarpus	prickly pademelon	None	None	0	1	07/07/2018
18824	Equisetopsid a	Cucurbitacea e	Diplocyclos palmatus	None	С	None	0	1	17/03/2005
14202	Equisetopsid a	Cucurbitacea e	Sicyos australis	star cucumber	С	None	0	1	17/03/2005
8221	Equisetopsid a	Cupressacea e	Callitris glaucophylla	white cypress pine	С	None	1	1	11/05/1991

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
17554	Equisetopsid a	Cyatheaceae	Cyathea cooperi	None	С	None	1	1	17/12/2014
11854	Equisetopsid a	Cyperaceae	Carex declinata	None	С	None	1	1	31/07/2003
9855	Equisetopsid a	Cyperaceae	Cyperus clarus	None	٧	None	1	1	27/03/2018
14662	Equisetopsid a	Cyperaceae	Cyperus eragrostis	None	None	None	1	1	07/04/2011
17519	Equisetopsid a	Cyperaceae	Cyperus fulvus	None	С	None	0	1	17/03/2005
17521	Equisetopsid a	Cyperaceae	Cyperus gracilis	None	С	None	0	1	17/03/2005
11454	Equisetopsid a	Cyperaceae	Cyperus rigidellus	None	С	None	0	1	17/03/2005
17478	Equisetopsid a	Cyperaceae	Cyperus rotundus	nutgrass	None	None	0	1	01/11/2003
17107	Equisetopsid a	Cyperaceae	Fimbristylis dichotoma	common fringe-rush	С	None	0	1	17/03/2005
17078	Equisetopsid a	Cyperaceae	Gahnia aspera	None	С	None	0	1	17/03/2005
9381	Equisetopsid a	Cyperaceae	Lepidosperma laterale	None	С	None	0	1	17/03/2005
17497	Equisetopsid a	Davalliaceae	Davallia pyxidata	None	С	None	0	2	17/03/2005
16340	Equisetopsid a	Dennstaedtia ceae	Pteridium esculentum	common bracken	С	None	0	1	17/03/2005
16941	Equisetopsid a	Dilleniaceae	Hibbertia linearis	None	С	None	0	1	17/03/2005
17443	Equisetopsid a	Ebenaceae	Diospyros geminata	scaly ebony	С	None	0	1	17/03/2005
17445	Equisetopsid a	Ebenaceae	Diospyros humilis	small-leaved ebony	С	None	1	1	22/08/1991
14572	Equisetopsid a	Elaeocarpac eae	Elaeocarpus obovatus	blueberry ash	С	None	1	1	17/12/2014
6349	Equisetopsid a	Erythroxylace ae	Erythroxylum sp. (Splityard Creek L.Pedley 5360)	None	С	None	1	1	05/12/2007
17562	Equisetopsid a	Euphorbiace ae	Croton phebalioides	narrow-leave d croton	С	None	1	1	10/01/1992
17179	Equisetopsid a	Euphorbiace ae	Excoecaria dallachyana	scrub poison tree	С	None	1	1	25/07/1991
5284	Equisetopsid a	Euphorbiace ae	Homalanthus populifolius	None	С	None	0	1	17/03/2005
16715	Equisetopsid a	Euphorbiace ae	Mallotus philippensis	red kamala	С	None	0	1	17/03/2005
11288	Equisetopsid a	Euphorbiace ae	Ricinus communis	castor oil bush	None	None	0	1	29/05/2005
15471	Equisetopsid a	Fabaceae	Crotalaria montana	None	С	None	0	1	17/03/2005
15460	Equisetopsid a	Fabaceae	Desmodium rhytidophyllum	None	С	None	0	1	17/03/2005
13935	Equisetopsid a	Fabaceae	Desmodium varians	slender tick trefoil	С	None	0	1	17/03/2005

15334 7603	Equisetopsid a	Fabaceae							
7603			Erythrina vespertilio	None	С	None	0	1	17/03/2005
	Equisetopsid a	Fabaceae	Glycine clandestina	None	С	None	0	1	17/03/2005
15356	Equisetopsid a	Fabaceae	Glycine tabacina	glycine pea	С	None	0	1	17/03/2005
15357	Equisetopsid a	Fabaceae	Glycine tomentella	woolly glycine	С	None	0	1	17/03/2005
15309	Equisetopsid a	Fabaceae	Hardenbergia violacea	None	С	None	0	1	17/03/2005
22172	Equisetopsid a	Fabaceae	Hovea lorata	None	С	None	1	1	16/08/1986
9630	Equisetopsid a	Fabaceae	Hovea planifolia	None	С	None	2	2	16/08/1986
26614	Equisetopsid a	Fabaceae	Hovea planifolia x Hovea ramulosa	None	С	None	3	3	16/08/1986
15291	Equisetopsid a	Fabaceae	Indigofera australis	None	С	None	0	1	17/03/2005
15294	Equisetopsid a	Fabaceae	Indigofera hirsuta	hairy indigo	С	None	0	1	17/03/2005
19911	Equisetopsid a	Fabaceae	Lespedeza juncea	None	С	None	0	1	17/03/2005
12946	Equisetopsid a	Fabaceae	Medicago sativa	lucerne	None	None	0	2	05/11/2003
15240	Equisetopsid a	Fabaceae	Melilotus albus	sweet clover	None	None	0	1	05/11/2003
15241	Equisetopsid a	Fabaceae	Melilotus indicus	hexham scent	None	None	0	1	05/11/2003
13120	Equisetopsid a	Fabaceae	Rhynchosia	None	None	None	0	1	17/03/2005
10791	Equisetopsid a	Fabaceae	Sophora fraseri	brush sophora	٧	V	1	1	03/07/2018
8254	Equisetopsid a	Fabaceae	Swainsona queenslandica	None	С	None	1	1	24/10/1999
7573	Equisetopsid a	Fabaceae	Swainsona reticulata	None	С	None	1	1	05/10/2006
14149	Equisetopsid a	Fabaceae	Tephrosia rufula	None	С	None	0	1	17/03/2005
9201	Equisetopsid a	Fabaceae	Trifolium campestre var. campestre	None	None	None	1	1	09/09/1996
14990	Equisetopsid a	Fabaceae	Trifolium repens var. repens	white clover	None	None	0	2	05/11/2003
21949	Equisetopsid a	Fabaceae	Zornia dyctiocarpa	None	С	None	0	1	17/03/2005
11472	Equisetopsid a	Geraniaceae	Erodium crinitum	blue crowfoot	С	None	0	1	01/11/2003
11053	Equisetopsid a	Geraniaceae	Geranium homeanum	None	С	None	0	1	17/03/2005
11438	Equisetopsid a	Goodeniacea e	Goodenia	None	None	None	0	1	17/03/2005
14714	Equisetopsid a	Gyrostemona ceae	Codonocarpus attenuatus	None	С	None	0	1	17/03/2005

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17017	Equisetopsid a	Haloragacea e	Haloragis heterophylla	rough raspweed	С	None	0	1	17/03/2005
13239	Equisetopsid a	Hemerocallid aceae	Dianella brevipedunculata	None	С	None	0	1	17/03/2005
10281	Equisetopsid a	Hemerocallid aceae	Dianella longifolia	None	С	None	1	1	07/04/2011
15350	Equisetopsid a	Hemerocallid aceae	Geitonoplesium cymosum	scrambling lily	С	None	0	1	17/03/2005
6628	Equisetopsid a	Hypoxidacea e	Hypoxis pratensis	None	С	None	0	1	17/03/2005
9363	Equisetopsid a	Johnsoniace ae	Caesia parviflora	None	С	None	1	2	07/04/2011
15667	Equisetopsid a	Lamiaceae	Ajuga australis	Australian bugle	С	None	0	1	17/03/2005
17628	Equisetopsid a	Lamiaceae	Clerodendrum floribundum	None	С	None	0	1	17/03/2005
41035	Equisetopsid a	Lamiaceae	Coleus australis	None	С	None	0	1	17/03/2005
11789	Equisetopsid a	Lamiaceae	Mentha australis	river mint	С	None	0	1	17/03/2005
15243	Equisetopsid a	Lamiaceae	Mentha satureioides	native pennyroyal	С	None	1	2	07/04/2011
11767	Equisetopsid a	Lamiaceae	Salvia verbenaca	wild sage	None	None	1	1	24/10/1999
9076	Equisetopsid a	Lamiaceae	Teucrium argutum	None	С	None	0	1	17/03/2005
17975	Equisetopsid a	Laxmanniace ae	Arthropodium milleflorum	vanilla lily	С	None	0	1	17/03/2005
14724	Equisetopsid a	Laxmanniace ae	Cordyline petiolaris	large-leaved palm lily	С	None	0	1	17/03/2005
15339	Equisetopsid a	Laxmanniace ae	Eustrephus latifolius	wombat berry	С	None	0	2	17/03/2005
16771	Equisetopsid a	Laxmanniace ae	Lomandra filiformis	None	С	None	0	1	17/03/2005
16776	Equisetopsid a	Laxmanniace ae	Lomandra longifolia	None	С	None	0	3	29/10/2005
18792	Equisetopsid a	Laxmanniace ae	Lomandra multiflora	None	С	None	0	1	17/03/2005
18348	Equisetopsid a	Laxmanniace ae	Thysanotus tuberosus	None	С	None	0	2	17/03/2005
9417	Equisetopsid a	Lentibulariac eae	Utricularia gibba	floating bladderwort	С	None	1	1	28/02/2019
17990	Equisetopsid a	Loranthacea e	Amyema lucasii	None	С	None	1	1	05/12/2007
13236	Equisetopsid a	Loranthacea e	Dendrophthoe glabrescens	None	С	None	1	2	12/12/2014
14420	Equisetopsid a	Loranthacea e	Lysiana subfalcata	None	С	None	1	1	05/12/2007
18089	Equisetopsid a	Malvaceae	Abutilon oxycarpum	None	С	None	0	1	17/03/2005
33995	Equisetopsid a	Malvaceae	Hibiscus tridactylites	None	С	None	2	2	07/04/2011

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12949	Equisetopsid a	Malvaceae	Modiola caroliniana	red-flowered mallow	None	None	0	2	05/11/2003
14347	Equisetopsid a	Malvaceae	Pavonia hastata	pink pavonia	None	None	0	2	05/11/2003
22197	Equisetopsid a	Malvaceae	Sida hackettiana	None	С	None	0	1	17/03/2005
16146	Equisetopsid a	Malvaceae	Sida rhombifolia	None	None	None	0	2	17/03/2005
16661	Equisetopsid a	Meliaceae	Melia azedarach	white cedar	С	None	1	1	11/05/1991
16004	Equisetopsid a	Meliaceae	Toona ciliata	red cedar	С	None	1	1	17/12/2014
15987	Equisetopsid a	Meliaceae	Turraea pubescens	native honeysuckle	С	None	1	1	27/04/1991
16860	Equisetopsid a	Menispermac eae	Legnephora moorei	None	С	None	0	1	17/03/2005
9647	Equisetopsid a	Menispermac eae	Stephania japonica	None	С	None	0	1	17/03/2005
15998	Equisetopsid a	Menispermac eae	Tinospora smilacina	snakevine	С	None	0	1	17/03/2005
15790	Equisetopsid a	Mimosaceae	Acacia concurrens	None	С	None	0	1	25/06/1999
15796	Equisetopsid a	Mimosaceae	Acacia decora	pretty wattle	С	None	1	1	07/11/2000
15799	Equisetopsid a	Mimosaceae	Acacia falcata	sickle wattle	С	None	0	1	17/03/2005
15745	Equisetopsid a	Mimosaceae	Acacia fimbriata	Brisbane golden wattle	С	None	0	1	17/03/2005
14909	Equisetopsid a	Mimosaceae	Acacia glaucocarpa	hickory wattle	С	None	0	1	17/03/2005
15758	Equisetopsid a	Mimosaceae	Acacia implexa	lightwood	С	None	0	1	17/03/2005
15720	Equisetopsid a	Mimosaceae	Acacia melanoxylon	blackwood	С	None	0	1	17/03/2005
14890	Equisetopsid a	Mimosaceae	Acacia penninervis	None	С	None	0	1	25/06/1999
15739	Equisetopsid a	Mimosaceae	Acacia podalyriifolia	Queensland silver wattle	С	None	0	1	17/03/2005
15694	Equisetopsid a	Mimosaceae	Acacia salicina	doolan	С	None	1	3	17/03/2005
35581	Equisetopsid a	Moraceae	Ficus henneana	None	С	None	0	1	17/03/2005
22365	Equisetopsid a	Moraceae	Ficus rubiginosa forma glabrescens	None	С	None	1	1	01/08/1999
13825	Equisetopsid a	Moraceae	Maclura cochinchinensis	cockspur thorn	С	None	0	1	17/03/2005
9118	Equisetopsid a	Moraceae	Streblus brunonianus	whalebone tree	С	None	0	1	17/03/2005
17998	Equisetopsid a	Myrtaceae	Angophora floribunda	rough-barked apple	С	None	1	2	17/03/2005
17999	Equisetopsid a	Myrtaceae	Angophora leiocarpa	rusty gum	С	None	0	1	25/06/1999

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6531	Equisetopsid a	Myrtaceae	Corymbia citriodora	spotted gum	С	None	0	2	25/06/1999
6534	Equisetopsid a	Myrtaceae	Corymbia clarksoniana	None	С	None	1	2	01/10/1999
6445	Equisetopsid a	Myrtaceae	Corymbia intermedia	pink bloodwood	С	None	0	1	17/03/2005
6572	Equisetopsid a	Myrtaceae	Corymbia tessellaris	Moreton Bay ash	С	None	0	2	25/06/1999
8935	Equisetopsid a	Myrtaceae	Eucalyptus carnea	None	С	None	1	1	11/04/1997
17252	Equisetopsid a	Myrtaceae	Eucalyptus crebra	narrow-leave d red ironbark	С	None	0	2	17/03/2005
9109	Equisetopsid a	Myrtaceae	Eucalyptus nobilis	manna gum	С	None	2	2	07/11/2000
17204	Equisetopsid a	Myrtaceae	Eucalyptus tereticornis	None	С	None	0	3	17/03/2005
35032	Equisetopsid a	Myrtaceae	Eucalyptus tereticornis subsp. basaltica	None	С	None	1	1	03/08/2014
16780	Equisetopsid a	Myrtaceae	Lophostemon confertus	brush box	С	None	0	1	17/03/2005
16684	Equisetopsid a	Myrtaceae	Melaleuca bracteata	None	С	None	0	2	17/03/2005
31375	Equisetopsid a	Myrtaceae	Melaleuca viminalis	None	С	None	0	1	25/06/1999
6189	Equisetopsid a	Myrtaceae	Triplarina bancroftii	None	С	None	1	1	18/02/1997
20919	Equisetopsid a	Oleaceae	Jasminum	None	None	None	0	1	17/03/2005
36639	Equisetopsid a	Oleaceae	Jasminum dianthifolium x Jasminum simplicifolium subsp. australiense	None	С	None	1	1	31/12/1979
16840	Equisetopsid a	Oleaceae	Jasminum simplicifolium subsp. australiense	None	С	None	1	1	11/05/1991
13417	Equisetopsid a	Oleaceae	Ligustrum lucidum	large-leaved privet	None	None	0	1	10/02/2016
13835	Equisetopsid a	Oleaceae	Notelaea microcarpa	None	С	None	0	1	17/03/2005
13448	Equisetopsid a	Onagraceae	Epilobium billardierianum	None	С	None	0	1	17/03/2005
14328	Equisetopsid a	Onagraceae	Oenothera affinis	long-flowered evening primrose	None	None	1	1	24/10/1999
32785	Equisetopsid a	Onagraceae	Oenothera curtiflora	None	None	None	0	1	05/11/2003
9456	Equisetopsid a	Onagraceae	Oenothera stricta subsp. stricta	None	None	None	1	1	24/10/1999
11800	Equisetopsid a	Ophioglossac eae	Ophioglossum lusitanicum	adder's tongue	С	None	0	1	17/03/2005
14087	Equisetopsid a	Orchidaceae	Acianthus fornicatus	pixie caps	С	None	0	1	17/03/2005
12827	Equisetopsid a	Orchidaceae	Corybas	None	None	None	0	1	17/03/2005

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14634	Equisetopsid a	Orchidaceae	Dendrobium monophyllum	None	С	None	0	1	17/03/2005
14631	Equisetopsid a	Orchidaceae	Dendrobium speciosum	None	С	None	0	3	18/07/2010
14608	Equisetopsid a	Orchidaceae	Diuris sulphurea	tiger orchid	С	None	0	3	18/09/2012
5768	Equisetopsid a	Orchidaceae	Dockrillia bowmanii	scrub pencil orchid	С	None	0	1	17/03/2005
5779	Equisetopsid a	Orchidaceae	Dockrillia linguiformis	tongue orchid	С	None	0	2	17/03/2005
5799	Equisetopsid a	Orchidaceae	Dockrillia pugioniformis	dagger orchid	С	None	0	1	17/03/2005
5671	Equisetopsid a	Orchidaceae	Dockrillia teretifolia	rat's tail orchid	С	None	0	1	17/03/2005
12690	Equisetopsid a	Orchidaceae	Pterostylis acuminata	sharp greenhood	С	None	0	1	17/03/2005
12701	Equisetopsid a	Orchidaceae	Pterostylis curta	blunt greenhood	С	None	1	1	31/07/2003
9187	Equisetopsid a	Orchidaceae	Sarcochilus ceciliae	fairy bells	С	None	0	1	18/07/2010
12709	Equisetopsid a	Orchidaceae	Sarcochilus falcatus	orange blossom orchid	С	None	1	1	28/08/1957
12661	Equisetopsid a	Orchidaceae	Sarcochilus weinthalii	blotched sarcochilus	E	٧	2	2	30/09/1957
9457	Equisetopsid a	Oxalidaceae	Oxalis corniculata	None	None	None	0	1	17/03/2005
19740	Equisetopsid a	Papaveracea e	Argemone ochroleuca	None	None	None	0	1	01/11/2003
11429	Equisetopsid a	Papaveracea e	Fumaria bastardii	bastard fumitory	None	None	1	1	09/09/1996
12804	Equisetopsid a	Papaveracea e	Fumaria muralis subsp. muralis	wall fumitory	None	None	1	1	23/10/1947
4121	Equisetopsid a	Papaveracea e	Papaver somniferum subsp. setigerum	None	None	None	1	2	29/10/2005
16529	Equisetopsid a	Passifloracea e	Passiflora aurantia	None	С	None	0	1	17/03/2005
12715	Equisetopsid a	Passifloracea e	Passiflora edulis	None	None	None	0	1	01/11/2003
16531	Equisetopsid a	Passifloracea e	Passiflora herbertiana subsp. herbertiana	native passionfruit	С	None	0	1	17/03/2005
17808	Equisetopsid a	Phyllanthace ae	Breynia oblongifolia	None	С	None	0	2	17/03/2005
11327	Equisetopsid a	Phyllanthace ae	Bridelia exaltata	None	С	None	0	1	17/03/2005
17810	Equisetopsid a	Phyllanthace ae	Bridelia leichhardtii	None	С	None	1	1	07/11/2000
16474	Equisetopsid a	Phyllanthace ae	Phyllanthus	None	None	None	0	1	17/03/2005
11273	Equisetopsid a	Phyllanthace ae	Phyllanthus gunnii	None	С	None	0	1	17/03/2005

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22219	Equisetopsid a	Pittosporace ae	Auranticarpa rhombifolia	None	С	None	0	1	17/03/2005
14019	Equisetopsid a	Pittosporace ae	Bursaria incana	None	С	None	0	1	17/03/2005
22227	Equisetopsid a	Pittosporace ae	Bursaria spinosa subsp. spinosa	None	С	None	0	1	17/03/2005
16462	Equisetopsid a	Pittosporace ae	Pittosporum undulatum	sweet pittosporum	С	None	0	1	17/03/2005
12727	Equisetopsid a	Plantaginace ae	Plantago debilis	shade plantain	С	None	0	1	17/03/2005
16422	Equisetopsid a	Plantaginace ae	Plantago lanceolata	None	None	None	0	2	05/11/2003
15954	Equisetopsid a	Plantaginace ae	Veronica plebeia	trailing speedwell	С	None	0	1	17/03/2005
13707	Equisetopsid a	Poaceae	Aristida calycina	None	С	None	0	1	17/03/2005
15650	Equisetopsid a	Poaceae	Aristida caput-medusae	None	С	None	0	1	17/03/2005
11121	Equisetopsid a	Poaceae	Aristida gracilipes	None	С	None	0	1	17/03/2005
5959	Equisetopsid a	Poaceae	Austrostipa ramosissima	bamboo grass	С	None	0	1	17/03/2005
9981	Equisetopsid a	Poaceae	Bothriochloa bunyensis	Bunya Mountains bluegrass	٧	٧	1	1	16/05/2004
8843	Equisetopsid a	Poaceae	Bothriochloa decipiens	None	С	None	0	1	17/03/2005
14794	Equisetopsid a	Poaceae	Bromus catharticus	prairie grass	None	None	0	2	05/11/2003
14773	Equisetopsid a	Poaceae	Capillipedium parviflorum	scented top	С	None	0	1	17/03/2005
14774	Equisetopsid a	Poaceae	Capillipedium spicigerum	spicytop	С	None	0	1	17/03/2005
33864	Equisetopsid a	Poaceae	Cenchrus longisetus	None	None	None	1	1	07/04/2011
15550	Equisetopsid a	Poaceae	Chloris divaricata var. divaricata	slender chloris	С	None	0	1	17/03/2005
15526	Equisetopsid a	Poaceae	Chloris ventricosa	tall chloris	С	None	0	1	17/03/2005
15485	Equisetopsid a	Poaceae	Cymbopogon refractus	barbed-wire grass	С	None	0	2	17/03/2005
14595	Equisetopsid a	Poaceae	Dichelachne micrantha	shorthair plumegrass	С	None	0	1	17/03/2005
15424	Equisetopsid a	Poaceae	Digitaria divaricatissima	spreading umbrella grass	С	None	0	1	17/03/2005
14599	Equisetopsid a	Poaceae	Digitaria porrecta	None	NT	None	3	3	02/12/2015
15427	Equisetopsid a	Poaceae	Digitaria ramularis	None	С	None	0	1	17/03/2005
8339	Equisetopsid a	Poaceae	Echinopogon nutans	None	С	None	0	1	17/03/2005

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2138	Equisetopsid a	Poaceae	Eragrostis alveiformis	None	С	None	0	1	17/03/2005
15390	Equisetopsid a	Poaceae	Eragrostis brownii	Brown's lovegrass	С	None	0	1	17/03/2005
15367	Equisetopsid a	Poaceae	Eragrostis leptostachya	None	С	None	0	1	17/03/2005
15331	Equisetopsid a	Poaceae	Eriochloa procera	slender cupgrass	С	None	0	1	17/03/2005
15320	Equisetopsid a	Poaceae	Heteropogon contortus	black speargrass	С	None	0	2	17/03/2005
15290	Equisetopsid a	Poaceae	Imperata cylindrica	blady grass	С	None	0	2	17/03/2005
10678	Equisetopsid a	Poaceae	Lolium perenne	perennial ryegrass	None	None	0	2	05/11/2003
9154	Equisetopsid a	Poaceae	Melinis repens	red natal grass	None	None	0	1	01/11/2003
8872	Equisetopsid a	Poaceae	Microlaena stipoides	None	С	None	0	1	17/03/2005
15163	Equisetopsid a	Poaceae	Oplismenus aemulus	creeping shade grass	С	None	0	1	17/03/2005
15173	Equisetopsid a	Poaceae	Panicum decompositum var. decompositum	None	С	None	1	1	07/04/2011
13607	Equisetopsid a	Poaceae	Panicum effusum	None	С	None	0	1	17/03/2005
10256	Equisetopsid a	Poaceae	Paspalidium aversum	None	С	None	0	1	17/03/2005
27800	Equisetopsid a	Poaceae	Sarga leiocladum	None	С	None	0	2	17/03/2005
15043	Equisetopsid a	Poaceae	Sorghum halepense	Johnson grass	None	None	0	1	05/11/2003
15001	Equisetopsid a	Poaceae	Sporobolus creber	None	С	None	0	1	17/03/2005
14974	Equisetopsid a	Poaceae	Themeda triandra	kangaroo grass	С	None	0	2	17/03/2005
10120	Equisetopsid a	Poaceae	Triticum aestivum	wheat	None	None	1	1	23/09/2009
14562	Equisetopsid a	Polygonacea e	Fallopia convolvulus	black bindweed	None	None	1	1	24/10/1999
14362	Equisetopsid a	Polygonacea e	Muehlenbeckia gracillima	None	С	None	0	1	17/03/2005
16271	Equisetopsid a	Polygonacea e	Rumex brownii	swamp dock	С	None	0	1	17/03/2005
16272	Equisetopsid a	Polygonacea e	Rumex crispus	curled dock	None	None	0	2	05/11/2003
11696	Equisetopsid a	Polypodiacea e	Platycerium bifurcatum	None	С	None	0	2	17/03/2005
6668	Equisetopsid a	Polypodiacea e	Pyrrosia confluens	None	С	None	0	1	17/03/2005
16314	Equisetopsid a	Polypodiacea e	Pyrrosia confluens var. confluens	None	С	None	1	1	22/08/1991
16317	Equisetopsid a	Polypodiacea e	Pyrrosia rupestris	rock felt fern	С	None	0	1	17/03/2005

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6963	Equisetopsid a	Proteaceae	Grevillea quadricauda	None	٧	٧	1	1	15/06/2017
13924	Equisetopsid a	Proteaceae	Grevillea robusta	None	С	None	0	1	17/03/2005
18116	Equisetopsid a	Pteridaceae	Adiantum aethiopicum	None	С	None	0	1	17/03/2005
17679	Equisetopsid a	Pteridaceae	Cheilanthes distans	bristly cloak fern	С	None	0	1	17/03/2005
8916	Equisetopsid a	Pteridaceae	Cheilanthes sieberi	None	С	None	0	1	17/03/2005
17682	Equisetopsid a	Pteridaceae	Cheilanthes sieberi subsp. sieberi	None	С	None	0	1	14/02/2005
24931	Equisetopsid a	Racopilaceae	Racopilum cuspidigerum var. cuspidigerum	None	С	None	1	1	30/11/1883
17622	Equisetopsid a	Ranunculace ae	Clematis glycinoides	None	С	None	0	1	17/03/2005
16323	Equisetopsid a	Ranunculace ae	Ranunculus lappaceus	common buttercup	С	None	0	1	17/03/2005
27648	Equisetopsid a	Ranunculace ae	Ranunculus meristus	None	С	None	1	1	17/12/2014
9659	Equisetopsid a	Rhamnaceae	Alphitonia excelsa	soap tree	С	None	1	3	17/12/2014
12373	Equisetopsid a	Rosaceae	Prunus persica var. persica	None	None	None	1	2	01/11/2003
35635	Equisetopsid a	Rosaceae	Prunus rivularis	None	None	None	0	1	02/11/2003
19436	Equisetopsid a	Rosaceae	Rubus moluccanus	None	С	None	0	1	17/03/2005
16266	Equisetopsid a	Rosaceae	Rubus parvifolius	pink-flowered native raspberry	С	None	0	1	17/03/2005
17936	Equisetopsid a	Rubiaceae	Asperula conferta	None	С	None	0	1	17/03/2005
32446	Equisetopsid a	Rubiaceae	Galium leptogonium	None	С	None	0	1	17/03/2005
9861	Equisetopsid a	Rubiaceae	Galium terrae-reginae	None	С	None	1	1	07/11/2000
7598	Equisetopsid a	Rubiaceae	Pavetta australiensis	None	С	None	0	1	17/03/2005
29826	Equisetopsid a	Rubiaceae	Psydrax odorata forma buxifolia	None	С	None	0	1	17/03/2005
18946	Equisetopsid a	Rutaceae	Dinosperma erythrococcum	None	С	None	1	1	27/04/1991
11300	Equisetopsid a	Rutaceae	Flindersia australis	crow's ash	С	None	1	2	17/12/2014
13349	Equisetopsid a	Rutaceae	Flindersia collina	broad-leaved leopard tree	С	None	1	1	11/05/1991
11945	Equisetopsid a	Salicaceae	Salix babylonica	weeping willow	None	None	1	2	01/11/2003
17180	Equisetopsid a	Santalaceae	Exocarpos cupressiformis	native cherry	С	None	0	1	17/03/2005

Taxon Id	Class	Family	Scientific Name	Common	NCA	EPBC	Specimens	Records	Last record
				Name					
16237	Equisetopsid a	Santalaceae	Santalum lanceolatum	None	С	None	2	2	07/11/2000
9489	Equisetopsid a	Sapindaceae	Alectryon subdentatus	None	С	None	0	1	17/03/2005
17907	Equisetopsid a	Sapindaceae	Atalaya salicifolia	None	С	None	1	2	17/03/2005
13686	Equisetopsid a	Sapindaceae	Cupaniopsis parvifolia	small-leaved tuckeroo	С	None	1	1	30/09/1975
17384	Equisetopsid a	Sapindaceae	Dodonaea triquetra	large-leaved hop bush	С	None	0	1	17/03/2005
17387	Equisetopsid a	Sapindaceae	Dodonaea viscosa subsp. burmanniana	None	С	None	1	1	07/11/2000
17339	Equisetopsid a	Sapindaceae	Elattostachys xylocarpa	white tamarind	С	None	0	1	17/03/2005
34947	Equisetopsid a	Sapotaceae	Pleioluma macrocarpa	None	С	None	0	1	19/03/1990
8631	Equisetopsid a	Scrophularia ceae	Eremophila debilis	winter apple	С	None	0	1	17/03/2005
12529	Equisetopsid a	Scrophularia ceae	Verbascum virgatum	twiggy mullein	None	None	0	1	01/11/2003
15881	Equisetopsid a	Smilacaceae	Smilax australis	barbed-wire vine	С	None	0	1	17/03/2005
17493	Equisetopsid a	Solanaceae	Datura ferox	fierce thornapple	None	None	0	1	09/07/2018
17496	Equisetopsid a	Solanaceae	Datura stramonium	common thornapple	None	None	0	2	09/07/2018
16576	Equisetopsid a	Solanaceae	Nicotiana	None	None	None	0	1	17/03/2005
13537	Equisetopsid a	Solanaceae	Solanum chenopodioides	whitetip nightshade	None	None	1	1	01/11/2019
16171	Equisetopsid a	Solanaceae	Solanum mauritianum	wild tobacco	None	None	0	1	01/11/2003
27702	Equisetopsid a	Solanaceae	Solanum mitchellianum	None	С	None	2	2	05/12/2007
14210	Equisetopsid a	Solanaceae	Solanum nemophilum	None	С	None	0	1	17/03/2005
13788	Equisetopsid a	Solanaceae	Solanum nigrum	None	None	None	0	2	05/11/2003
16175	Equisetopsid a	Solanaceae	Solanum parvifolium	None	С	None	0	1	17/03/2005
16124	Equisetopsid a	Solanaceae	Solanum stelligerum	devil's needles	С	None	1	1	07/11/2000
16092	Equisetopsid a	Stackhousiac eae	Stackhousia viminea	slender stackhousia	С	None	0	1	17/03/2005
12643	Equisetopsid	Sterculiaceae	Brachychiton discolor	None	С	None	1	1	17/12/2014
13999	Equisetopsid	Thelypteridac eae	Christella hispidula	None	С	None	0	1	17/03/2005
13170	Equisetopsid a	Thymelaeace ae	Pimelea curviflora var. divergens	None	С	None	1	1	24/10/1999
16441	Equisetopsid	Thymelaeace ae	Pimelea neoanglica	poison pimelea	С	None	2	4	17/03/2005

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
17955	Equisetopsid a	Ulmaceae	Aphananthe philippinensis	None	С	None	0	1	17/03/2005
12654	Equisetopsid a	Ulmaceae	Celtis sinensis	Chinese elm	None	None	0	6	10/02/2016
16011	Equisetopsid a	Ulmaceae	Trema tomentosa	None	С	None	0	1	17/03/2005
14578	Equisetopsid a	Urticaceae	Elatostema reticulatum	rainforest spinach	С	None	1	1	31/05/1911
12528	Equisetopsid a	Urticaceae	Urtica urens	small nettle	None	None	0	1	01/11/2003
34284	Equisetopsid a	Verbenaceae	Glandularia aristigera	None	None	None	0	1	05/11/2003
19905	Equisetopsid a	Verbenaceae	Lantana camara	lantana	None	None	1	5	10/02/2016
13853	Equisetopsid a	Verbenaceae	Lantana montevidensis	creeping lantana	None	None	0	1	09/07/1996
12351	Equisetopsid a	Verbenaceae	Verbena	None	None	None	0	1	17/03/2005
30780	Equisetopsid a	Verbenaceae	Verbena rigida	None	None	None	0	2	05/11/2003
36154	Equisetopsid a	Violaceae	Afrohybanthus enneaspermus	None	С	None	0	1	17/03/2005
15863	Equisetopsid a	Viscaceae	Notothixos subaureus	golden mistletoe	С	None	1	1	17/12/2014
17660	Equisetopsid a	Vitaceae	Cayratia acris	hairy grape	С	None	0	1	17/03/2005
17662	Equisetopsid a	Vitaceae	Cayratia clematidea	slender grape	С	None	0	1	17/03/2005
14704	Equisetopsid a	Vitaceae	Cissus antarctica	None	С	None	0	1	17/03/2005
17652	Equisetopsid a	Vitaceae	Cissus sterculiifolia	None	С	None	0	1	17/03/2005
14151	Equisetopsid a	Vitaceae	Tetrastigma nilens	shining grape	С	None	0	1	17/03/2005
15911	Equisetopsid a	Zygophyllace ae	Zygophyllum apiculatum	gall weed	С	None	1	1	31/12/2006

Table 4. Fungi recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
25863	Agaricomycetes	Agaricaceae	Calvatia lilacina	None	С	None	1	2	31/03/2005
32734	Agaricomycetes	Agaricaceae	Chlorophyllum hortense	None	С	None	0	1	30/01/2005
26277	Agaricomycetes	Agaricaceae	Coprinus comatus	None	С	None	0	1	26/07/2005
29037	Agaricomycetes	Panaeolaceae	Panaeolina foenisecii	None	С	None	0	1	29/10/2005
25522	Agaricomycetes	Panaeolaceae	Panaeolus antillarum	None	С	None	1	1	01/04/1962
23216	Lecanoromycet es	Lecanoraceae	Lecanora impressa	None	С	None	1	1	01/01/1986

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
23241	Lecanoromycet es	Lecideaceae	Lecidea terrena	None	С	None	1	1	08/10/2001
23448	Lecanoromycet	Parmeliaceae	Parmotrema tinctorum	None	С	None	1	1	05/04/2009
24011	Lecanoromycet es	Parmeliaceae	Usnea angulata	None	С	None	1	1	05/04/2009
29480	Lecanoromycet es	Parmeliaceae	Usnea dasaea	None	С	None	1	1	22/02/1985
26199	Lecanoromycet es	Parmeliaceae	Usnea scabrida subsp. elegans	None	С	None	2	2	05/04/2009
30020	Lecanoromycet es	Parmeliaceae	Xanthoparmelia pulla	None	С	None	1	1	21/01/2008
23547	Lecanoromycet es	Ramalinaceae	Ramalina celastri subsp. celastri	None	С	None	1	1	22/02/1985
23553	Lecanoromycet es	Ramalinaceae	Ramalina inflata subsp. perpusilla	None	С	None	2	2	22/02/1985
23560	Lecanoromycet es	Ramalinaceae	Ramalina peruviana	None	С	None	3	3	22/02/1985

Table 5. Protists recorded within the area of interest and its one kilometre buffer

No species found within the area of interest and its one kilometre buffer.

Species table headings and codes

Taxon Id: Unique identifier of the taxon from the WildNet database.

NCA: Queensland conservation status of the taxon under the Nature Conservation Act 1992 (Endangered (E), Extinct in the Wild (PE), Vulnerable (V), Near Threatened (NT), Special Least Concern (SL) and Least Concern(C)).

EPBC: Australian conservation status of the taxon under the Environment Protection and Biodiversity Conservation Act 1999 (Conservation Dependent (CD), Critically Endangered (CE), Endangered (E), Extinct (EX), Extinct in the Wild (XW) and Vulnerable (V)).

Specimens: The number of specimen-backed records of the taxon.

Records: The total number of records of the taxon.

Last record: Date of latest record of the taxon.

Links and Support

Other sites that deliver species information from the WildNet database include:

- <u>Species profile search</u> access species information approved for publication including species names, statuses, notes, images, distribution maps and records
- Species lists generate species lists for Queensland protected areas, forestry areas, local governments and areas defined using coordinates
- · Biomaps view biodiversity information, including species information approved for publication, and generate reports
- Qld wildlife data API access species information approved for publication such as notes, images and records etc.
- · Wetland Maps view species records, survey locations etc. approved for publication
- · WetlandSummary view wildlife statistics, species lists for a range of area types, and access species profiles
- <u>Generalised distribution and densities of Queensland wildlife</u> Queensland species distributions and densities generalised to a 10 km grid resolution
- Conservation status of Queensland wildlife access current lists of priority species for Queensland including nomenclature and status information
- Queensland Confidential Species the list of species flagged as confidential in the WildNet database.

Other useful sites for accessing biodiversity data include:

- · Queensland Government Data
- Atlas of Living Australia
- OZCAM Online Zoological Collections of Australian Museums
- · AVH Australia's Virtual Herbarium
- Protected Matters Search Tool

Please direct queries about this report to the WildNet Team.

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WildNet Records Conservation Significant Species List



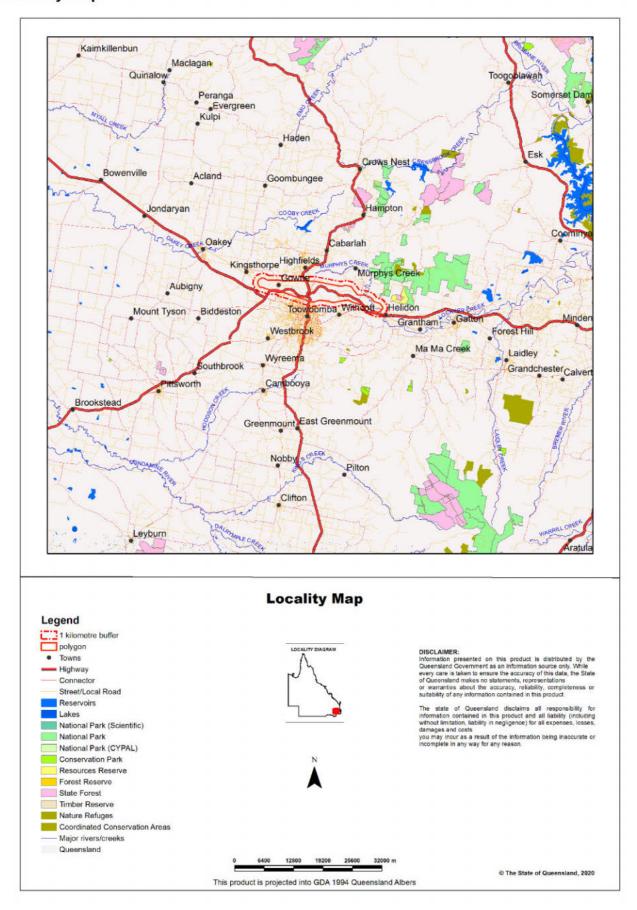
For the selected area of interest 7965.7ha

Current as at 25/03/2020

WildNetCSspecieslist



Map 1. Locality Map



Summary Information

The following table provides an overview of the area of interest.

Table 1. Area of interest details

Size (ha)	7,965.7
Local Government(s)	Lockyer Valley Regional, Toowoomba Regional
Bioregion(s)	Brigalow Belt, Southeast Queensland
Subregion(s)	Moreton Basin, Eastern Darling Downs
Catchment(s)	Balonne-Condamine, Brisbane

Protected Area(s)

No estates or reserves are located within the area of interest.

World Heritage Area(s)

No World Heritage Areas are located within the area of interest.

Ramsar Area(s)

No Ramsar Areas are located within the area of interest.

Conservation Significant Species List

Introduction

This Conservation Significant Species List report is derived only from records from the WildNet database managed by the Department of Environment and Science. Other data sources may provide additional information on species occurrence.

Conservation significant species are species listed:

- · as threatened or near threatened under the Nature Conservation Act 1992;
- as threatened under the <u>Environment Protection and Biodiversity Conservation Act 1999</u> or
- migratory species protected under the following international agreements:
 - o Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention)
 - o China-Australia Migratory Bird Agreement
 - o Japan-Australia Migratory Bird Agreement
 - o Republic of Korea-Australia Migratory Bird Agreement

The WildNet dataset is constantly being enhanced and the taxonomic and status information revised. If a species does not occur in the report, it does not mean it doesn't occur there and listed species may also no longer inhabit the area.

Table 2 lists the species recorded within the area of interest and its one kilometre buffer.

Table 2. Conservation significant species recorded within the area of interest and its one kilometre buffer

Taxon Id	Kingdom	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1728	Animalia	Aves	Accipitridae	Erythrotriorchi s radiatus	red goshawk	E	V	0	3	31/05/1992
1702	Animalia	Aves	Accipitridae	Pandion cristatus	eastern osprey	SL	None	0	1	23/04/1992
1965	Animalia	Aves	Apodidae	Apus pacificus	fork-tailed swift	SL	None	0	2	22/01/2003
1971	Animalia	Aves	Apodidae	Hirundapus caudacutus	white-throated needletail	V	V	0	13	07/01/2006

Taxon Id	Kingdom	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
22494	Animalia	Aves	Cacatuidae	Calyptorhync hus lathami lathami	glossy black-cockatoo (eastern)	V	None	0	9	30/04/1999
1192	Animalia	Aves	Cacatuidae	Lophochroa leadbeateri	Major Mitchell's cockatoo	٧	None	0	2	22/08/1999
1944	Animalia	Aves	Charadriidae	Pluvialis fulva	Pacific golden plover	SL	None	0	2	10/05/1992
1785	Animalia	Aves	Columbidae	Geophaps scripta scripta	squatter pigeon (southern subspecies)	V	٧	0	6	08/08/1993
1705	Animalia	Aves	Falconidae	Falco hypoleucos	grey falcon	V	None	0	1	22/06/2008
1896	Animalia	Aves	Laridae	Hydroprogne caspia	Caspian tern	SL	None	0	2	02/11/2012
1521	Animalia	Aves	Meliphagidae	Grantiella picta	painted honeyeater	٧	٧	0	1	28/10/2006
1595	Animalia	Aves	Monarchidae	Monarcha melanopsis	black-faced monarch	SL	None	0	5	14/02/2005
1599	Animalia	Aves	Monarchidae	Myiagra cyanoleuca	satin flycatcher	SL	None	0	5	28/10/2001
1578	Animalia	Aves	Rhipiduridae	Rhipidura rufifrons	rufous fantail	SL	None	0	25	26/10/2008
1883	Animalia	Aves	Rostratulidae	Rostratula australis	Australian painted snipe	E	E	0	8	03/06/1992
1885	Animalia	Aves	Scolopacidae	Actitis hypoleucos	common sandpiper	SL	None	0	4	10/10/1994
1874	Animalia	Aves	Scolopacidae	Calidris acuminata	sharp-tailed sandpiper	SL	None	0	6	25/01/1993
1880	Animalia	Aves	Scolopacidae	Calidris ruficollis	red-necked stint	SL	None	0	3	31/01/1993
1857	Animalia	Aves	Scolopacidae	Gallinago hardwickii	Latham's snipe	SL	None	0	11	23/09/2006
1855	Animalia	Aves	Scolopacidae	Limosa Iimosa	black-tailed godwit	SL	None	0	1	31/12/1991
1845	Animalia	Aves	Scolopacidae	Numenius phaeopus	whimbrel	SL	None	0	2	10/05/1992
1847	Animalia	Aves	Scolopacidae	Phalaropus lobatus	red-necked phalarope	SL	None	0	6	10/05/1992
1853	Animalia	Aves	Scolopacidae	Tringa nebularia	common greenshank	SL	None	0	1	31/12/1991
1841	Animalia	Aves	Scolopacidae	Tringa stagnatilis	marsh sandpiper	SL	None	0	10	21/11/1993
1107	Animalia	Aves	Strigidae	Ninox strenua	powerful owl	٧	None	0	2	31/12/1978
1825	Animalia	Aves	Threskiornithi dae	Plegadis falcinellus	glossy ibis	SL	None	0	2	31/01/1991
1092	Animalia	Aves	Turnicidae	Turnix melanogaster	black-breasted button-quail	V	V	0	6	03/05/1999
9	Animalia	Insecta	Lycaenidae	Jalmenus eubulus	pale imperial hairstreak	٧	None	0	1	26/01/2009
19177	Animalia	Insecta	Nymphalidae	Danaus plexippus	monarch	None	None	0	42	23/10/2015

Taxon Id	Kingdom	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
890	Animalia	Mammalia	Macropodida e	Petrogale penicillata	brush-tailed rock-wallaby	v	v	0	3	11/07/1996
836	Animalia	Mammalia	Ornithorhynch idae	Ornithorhynch us anatinus	platypus	SL	None	0	2	12/07/1996
860	Animalia	Mammalia	Phascolarctid ae	Phascolarctos cinereus	koala	٧	V	0	155	03/10/2019
962	Animalia	Mammalia	Pteropodidae	Pteropus poliocephalus	grey-headed flying-fox	С	V	0	7	21/10/2011
838	Animalia	Mammalia	Tachyglossid ae	Tachyglossus aculeatus	short-beaked echidna	SL	None	0	7	29/02/2016
324	Animalia	Reptilia	Pygopodidae	Delma torquata	collared delma	٧	V	0	115	26/09/2016
11205	Plantae	Equisetopsida	Apocynaceae	Marsdenia coronata	slender milkvine	V	None	1	1	10/06/2019
10604	Plantae	Equisetopsida	Asteraceae	Picris evae	None	٧	v	1	3	01/02/2018
31135	Plantae	Equisetopsida	Asteraceae	Rhaponticum australe	None	٧	V	1	1	24/10/1999
9855	Plantae	Equisetopsida	Cyperaceae	Cyperus clarus	None	V	None	1	1	27/03/2018
10791	Plantae	Equisetopsida	Fabaceae	Sophora fraseri	brush sophora	٧	v	1	1	03/07/2018
12661	Plantae	Equisetopsida	Orchidaceae	Sarcochilus weinthalii	blotched sarcochilus	E	v	2	2	30/09/1957
9981	Plantae	Equisetopsida	Poaceae	Bothriochloa bunyensis	Bunya Mountains bluegrass	V	V	1	1	16/05/2004
14599	Plantae	Equisetopsida	Poaceae	Digitaria porrecta	None	NT	None	3	3	02/12/2015
6963	Plantae	Equisetopsida	Proteaceae	Grevillea quadricauda	None	٧	V	1	1	15/06/2017

Taxon Id: Unique identifier of the taxon from the WildNet database.

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km grid resolution Department of Environment and Science

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Department of Environment and Science

Environmental Reports

Biodiversity and Conservation Values

Biodiversity Planning Assessments and Aquatic Conservation Assessments

For the selected area of interest

Environmental Reports - General Information

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or Area of Interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "Central co-ordinates" option, the resulting assessment area encompasses an area extending from 2km radius from the point of interest.

All area and area derived figures included in this report have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.

Figures in tables may be affected by rounding.

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is not present within the AOI (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no values have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

Please direct queries about these reports to: biodiversity.planning@des.qld.gov.au

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Summary Information

Tables 1 to 8 provide an overview of the AOI with respect to selected topographic and environmental values.

Table 1: Area of interest details:

Size (ha)	7,965.7
Local Government(s)	Lockyer Valley Regional, Toowoomba Regional
Bioregion(s)	Brigalow Belt, Southeast Queensland
Subregion(s)	Moreton Basin, Eastern Darling Downs
Catchment(s)	Balonne-Condamine, Brisbane

The following table identifies available Biodiversity Planning Assessments (BPAs) and Aquatic Conservation Assessments (ACAs) with respect to the AOI.

Table 2: Available Biodiversity Planning and Aquatic Conservation Assessments

Assessment Type	Assessment Area and Version					
Biodiversity Planning Assessment(s)	Brigalow Belt v2.1, Southeast Queensland v4.1					
Aquatic Conservation Assessment(s) (riverine)	Queensland Murray Darling Basin v1.4, South East Queensland Catchments v1.1					
Aquatic Conservation Assessment(s) (non-riverine)	Queensland Murray Darling Basin v1.4, South East Queensland Catchments v1.1					

Table 3: Remnant regional ecosystems within the AOI as per the QId Herbarium's 'biodiversity status'

Biodiversity Status	Area (Ha)	% of AOI
Endangered	167.26	2.1
Of concern	942.36	11.83
No concern at present	1,095.86	13.76

The following table identifies the extent and proportion of the user specified area of interest (AOI) which is mapped as being of "State", "Regional" or "Local" significance via application of the Queensland Department of Environment and Science's Biodiversity Assessment and Mapping Methodology (BAMM).

Table 4: Summary table, biodiversity significance

Biodiversity significance	Area (Ha)	% of AOI
State Habitat for EVNT taxa	880.01	11.05
State	1,178.60	14.8
Regional	264.92	3.33
Local or Other Values	39.74	0.5

Table 5: Non-riverine wetlands intersecting the AOI

Non-riverine wetland types intersecting the area of interest	#
Number of Palustrine wetlands	0
Number of Lacustrine wetlands	3
Total number of non-riverine wetlands	3

NB. The figures presented in the table above are derived from the relevant non-riverine Aquatic Conservation Assessment(s). Later releases of wetland mapping produced via the Queensland Wetland Mapping Program may provide more recent information in regards to wetland extent.

Table 6: Named waterways intersecting the AOI

Name	Permanency
GATTON CREEK	Non-perennial
GOWRIE CREEK	Non-perennial
LOCKYER CREEK	Non-perennial
ROCKY CREEK	Non-perennial
SIX MILE CREEK	Non-perennial

Refer to Map 1 for general locality information.

The following two tables identify the extent and proportion of the user specified AOI which is mapped as being of "Very High", "High", "Medium", "Low", or "Very Low" aquatic conservation value for riverine and non-riverine wetlands via application of the Queensland Department of Environment and Science's *Aquatic Biodiversity Assessment and Mapping Method* (AquaBAMM).

Table 7: Summary table, aquatic conservation significance (riverine)

Aquatic conservation significance (riverine wetlands)	Area (Ha)	% of AOI
Very High	2,408.57	30.24
High	2,151.98	27.02
Medium	3,405.19	42.75
Low	0.0	0.0
Very Low	0.0	0.0

Table 8: Summary table, aquatic conservation significance (non-riverine)

Aquatic conservation significance (non-riverine wetlands)	Area (Ha)	% of AOI
Very High	0.0	0.0
High	0.0	0.0
Medium	11.45	0.14
Low	0.0	0.0
Very Low	0.0	0.0

Biodiversity Planning Assessments

Introduction

The Department of Environment and Science (DES) attributes biodiversity significance on a bioregional scale through a Biodiversity Planning Assessment (BPA). A BPA involves the integration of ecological criteria using the *Biodiversity* assessment and *Mapping Methodology* (BAMM) and is developed in two stages: 1) **diagnostic criteria**, and 2) **expert panel criteria**. The diagnostic criteria are based on existing data which is reliable and uniformly available across a bioregion, while the expert panel criteria allows for the refinement of the mapped information from the diagnostic output by incorporating local knowledge and expert opinion.

The BAMM methodology has application for identifying areas with various levels of significance solely for biodiversity reasons. These include threatened ecosystems or taxa, large tracts of habitat in good condition, ecosystem diversity, landscape context and connection, and buffers to wetlands or other types of habitat important for the maintenance of biodiversity or ecological processes. While natural resource values such as dryland salinity, soil erosion potential or land capability are not dealt with explicitly, they are included to some extent within the biodiversity status of regional ecosystems recognised by the DES.

Biodiversity Planning Assessments (BPAs) assign three levels of overall biodiversity significance.

- State significance areas assessed as being significant for biodiversity at the bioregional or state scales. They also include areas assessed by other studies/processes as being significant at national or international scales. In addition, areas flagged as being of State significance due to the presence of endangered, vulnerable and/or near threatened taxa, are identified as "State Habitat for EVNT taxa".
- Regional significance areas assessed as being significant for biodiversity at the subregional scale. These areas
 have lower significance for biodiversity than areas assessed as being of State significance.
- Local significance and/or other values areas assessed as not being significant for biodiversity at state or regional scales. Local values are of significance at the local government scale.

For further information on released BPAs and a copy of the underlying methodology, go to:

http://www.gld.gov.au/environment/plants-animals/biodiversity/planning/

The GIS results can be downloaded from the Queensland Spatial Catalogue at:

http://qspatial.information.qld.gov.au/geoportal/

The following table identifies the extent and proportion of the user specified AOI which is mapped as being of "State", "Regional" or "Local" significance via application of the BAMM.

Table 9: Summary table, biodiversity significance

Biodiversity significance	Area (Ha)	% of AOI	
State Habitat for EVNT taxa	880.01	11.05	
State	1,178.60	14.8	
Regional	264.92	3.33	
Local or Other Values	39.74	0.5	

Refer to Map 2 for further information.

Diagnostic Criteria

Diagnostic criteria are based on existing data which is reliable and uniformly available across a bioregion. These criteria are diagnostic in that they are used to filter the available data and provide a "first-cut" or initial determination of biodiversity significance. This initial assessment is then combined through a second group of other essential criteria.

A description of the individual diagnostic criteria is provided in the following sections.

Criteria A. Habitat for EVNT taxa: Classifies areas according to their significance based on the presence of endangered, vulnerable and/or rare (EVNT) taxa. EVNT taxa are those scheduled under the *Nature Conservation Act 1992* and/or the

Environment Protection and Biodiversity Conservation Act 1999. It excludes highly mobile fauna taxa which are instead considered in Criterion H and brings together information on EVNT taxa using buffering of recorded sites or habitat suitability models (HSM) where available.

Criteria B. Ecosystem value: Classifies on the basis of biodiversity status of regional ecosystems, their extent in protected areas (presence of poorly conserved regional ecosystems), the presence of significant wetlands; and areas of national importance such as the presence of Threatened Ecological Communities, World Heritage areas and Ramsar sites. Ecosystem value is applied at a bioregional (**B1**) and regional (**B2**) scale.

Criteria C. Tract size: Measures the relative size of tracts of vegetation in the landscape. The size of any tract is a major indicator of ecological significance, and is also strongly correlated with the long-term viability of biodiversity values. Larger tracts are less susceptible to ecological edge effects and are more likely to sustain viable populations of native flora and fauna than smaller tracts.

Criteria D. Relative size of regional ecosystems: Classifies the relative size of each regional ecosystem unit within its bioregion (**D1**) and its subregion (**D2**). Remnant units are compared with all other occurrences with the same regional ecosystem. Large examples of a regional ecosystem are more significant than smaller examples of the same regional ecosystem because they are more representative of the biodiversity values particular to the regional ecosystem, are more resilient to the effects of disturbance, and constitute a significant proportion of the total area of the regional ecosystem.

Criteria F. Ecosystem diversity: Is an indicator of the number of regional ecosystems occurring within an area. An area with high ecosystem diversity will have many regional ecosystems and ecotones relative to other areas within the bioregion.

Criteria G. Context and connection: Represents the extent to which a remnant unit incorporates, borders or buffers areas such as significant wetlands, endangered ecosystems; and the degree to which it is connected to other vegetation.

A summary of the biodiversity status based upon the diagnostic criteria is provided in the following table.

Table 10: Summary of biodiversity significance based upon diagnostic criteria with respect to the AOI

Biodiversity significance	Description	Area (Ha)	% of AOI
State	Nat. Threatened Ecol. Community (B1)	109.93	1.38
State	Remnant contains at least 1 Endangered or 2 Vulnerable or Near Threatened species (A)	880.01	11.05
State	Remnant contains at least 1 Endangered RE (B1)	44.36	0.56
State	Remnant contains at least 1 Endangered RE (B1) & Nat. Threatened Ecol. Community (B1)	4.51	0.06
Regional	Remnant contains at least 1 RE with <10 pc extent remaining or rare in subregion (B2)	6.02	0.08
Regional	Remnant contains at least 1 Vulnerable or Near Threatened species (A)	666.0	8.36
Regional	Remnant contains at least one Of Concern RE (B1)	236.98	2.98
Regional	Remnant is part of a Tract that is one of the largest in the bioregion (C) & Remnant has Ecosystem diversity in the top quartile (F)	38.33	0.48
Regional	Remnant is part of a Tract that is one of the largest in the bioregion (C) & Remnant has high connectivity or buffers an endangered RE or Significant Wetland (G)	2.58	0.03
Local or Other Values	Refer to diagnostic data for additional information	366.07	4.6

Assessment of diagnostic criteria with respect to the AOI

The following table reflects an assessment of the individual diagnostic criteria noted above in regards to the AOI.

Table 11: Assessment of individual diagnostic criteria with respect to the AOI

Diagnostic Criteria	Very High Rating - Area (Ha)	Very High Rating - % of AOI	High Rating - Area (Ha)	High Rating - % of AOI	Medium Rating - Area (Ha)	Medium Rating - % of AOI	Low Rating - Area (Ha)	Low Rating - % of AOI
A: Habitat for EVNT Taxa	880.01	11.0	666.14	8.4	808.65	10.2		
B1: Ecosystem Value (Bioregion)	289.02	3.6	1,251.23	15.7	788.75	9.9	25.8	0.3
B2: Ecosystem Value (Subregion)	90.43	1.1	1,391.60	17.5	868.37	10.9	4.4	0.1
C: Tract Size	1,345.56	16.9	219.88	2.8	233.41	2.9	555.95	7.0
D1: Relative RE Size (Bioregion)					108.04	1.4	2,246.76	28.2
D2: Relative RE Size (Subregion)	56.41	0.7	23.63	0.3	208.54	2.6	2,066.22	25.9
F: Ecosystem Diversity	499.91	6.3	794.78	10.0	578.75	7.3	481.36	6.0
G: Context and Connection	555.93	7.0	373.9	4.7	1,200.67	15.1	224.3	2.8

Other Essential Criteria

Other essential criteria (also known as expert panel criteria) are based on non-uniform information sources and which may rely more upon expert opinion than on quantitative data. These criteria are used to provide a "second-cut" determination of biodiversity significance, which is then combined with the diagnostic criteria for an overall assessment of relative biodiversity significance. A summary of the biodiversity status based upon the other essential criteria is provided in the following table.

Table 12: Summary of biodiversity significance based upon other essential criteria with respect to the AOI

Biodiversity significance	Description	Area (Ha)	% of AOI
State	Remnant contains Core Habitat for Priority Taxa (H)	8.18	0.1
State	Remnant contains Core Habitat for Priority Taxa (H) & Remnant contains Special Biodiversity Values (view Expert Panel data for further information) (I) & Remnant forms part of a bioregional corridor (J)	191.79	2.41
State	Remnant contains Core Habitat for Priority Taxa (H) & Remnant forms part of a bioregional corridor (J)	182.67	2.29
State	Remnant contains Special Biodiversity Values (view Expert Panel data for further information) (I)	32.55	0.41
State	Remnant contains Special Biodiversity Values (view Expert Panel data for further information) (I) & Remnant forms part of a bioregional corridor (J)	337.39	4.24
State	Remnant forms part of a bioregional corridor (J)	1,209.05	15.18
Regional	Remnant contains Special Biodiversity Values (view Expert Panel data for further information) (I)	361.9	4.54

A description of each of the other essential criteria and associated assessment in regards to the AOI is provided in the following sections.

Criteria H. Essential and general habitat for priority taxa: Priority taxa are those which are at risk or of management concern, taxa of scientific interest as relictual (ancient or primitive), endemic taxa or locally significant populations (such as a flying fox camp or heronry), highly specialised taxa whose habitat requirements are complex and distributions are not well correlated with any particular regional ecosystem, taxa important for maintaining genetic diversity (such as complex spatial patterns of genetic variation, geographic range limits, highly disjunct populations), taxa critical for management or monitoring of biodiversity (functionally important or ecological indicators), or economic and culturally important taxa.

Criteria I. Special biodiversity values: areas with special biodiversity values are important because they contain multiple taxa in a unique ecological and often highly biodiverse environment. Areas with special biodiversity values can include the following:

- la centres of endemism areas where concentrations of taxa are endemic to a bioregion or subregion are found.
- Ib wildlife refugia (Morton *et al.* 1995), for example, islands, mound springs, caves, wetlands, gorges, mountain ranges and topographic isolates, ecological refuges, refuges from exotic animals, and refuges from clearing. The latter may include large areas that are not suitable for clearing because of land suitability/capability.
- Ic areas with concentrations of disjunct populations.
- Id areas with concentrations of taxa at the limits of their geographic ranges.
- · le areas with high species richness.
- If areas with concentrations of relictual populations (ancient and primitive taxa).
- Ig areas containing REs with distinct variation in species composition associated with geomorphology and other environmental variables.
- Ih an artificial waterbody or managed/manipulated wetland considered by the panel/s to be of ecological significance.
- · li areas with a high density of hollow-bearing trees that provide habitat for animals.
- Ij breeding or roosting sites used by a significant number of individuals.

· lk - climate change refuge.

The following table identifies the value and extent area of the Other Essential Criteria H and I within the AOI.

Table 13: Relative importance of expert panel criteria (H and I) used to access overall biodiversity significance with respect to the AOI

Expert Panel	Very High Rating - Area (Ha)	Very High Rating - % of AOI	High Rating - Area (Ha)	High Rating - % of AOI	Medium Rating - Area (Ha)	Medium Rating - % of AOI	Low Rating - Area (Ha)	Low Rating - % of AOI
H: Core Habitat Priority Taxa	170.16	2.1	212.45	2.7	698.47	8.8	898.98	11.3
la: Centres of Endemism	110.66	1.4						
lb: Wildlife Refugia	525.9	6.6	397.73	5.0				
Ic: Disjunct Populations	4.51	0.1						
ld: Limits of Geographic Ranges	106.15	1.3	4.51	0.1				
le: High Species Richness	253.56	3.2	166.74	2.1				
If: Relictual Populations								
Ig: Variation in Species Composition								
Ih: Artificial Wetland								
li: Hollow Bearing Trees			207.38	2.6				
Ij: Breeding or Roosting Site	206.14	2.6						
Ik: Climate Refugia	359.71	4.5						

NB. Whilst biodiversity values associated with Criteria I may be present within the site (refer to tables 12 and 15), for the New England Tableland and Central Queensland Coast BPAs, area and % area figures associated with Criteria Ia through to Ij cannot be listed in the table above (due to slight variations in data formats between BPAs).

Criteria J. Corridors: areas identified under this criterion qualify either because they are existing vegetated corridors important for contiguity, or cleared areas that could serve this purpose if revegetated. Some examples of corridors include riparian habitats, transport corridors and "stepping stones".

Bioregional and subregional conservation corridors have been identified in the more developed bioregions of Queensland through the BPAs, using an intensive process involving expert panels. Map 3 displays the location of corridors as identified under the Statewide Corridor network. The Statewide Corridor network incorporates BPA derived corridors and for bioregions where no BPA has been assessed yet, corridors derived under other planning processes. *Note: as a result of updating and developing a statewide network, the alignment of corridors may differ slightly in some instances when compared to those used in individual BPAs.*

The functions of these corridors are:

- **Terrestrial** Bioregional corridors, in conjunction with large tracts of remnant vegetation, maintain ecological and evolutionary processes at a landscape scale, by:
 - Maintaining long term evolutionary/genetic processes that allow the natural change in distributions of species and connectivity between populations of species over long periods of time;

- Maintaining landscape/ecosystems processes associated with geological, altitudinal and climatic gradients, to allow for ecological responses to climate change;
- Maintaining large scale seasonal/migratory species processes and movement of fauna;
- Maximising connectivity between large tracts/patches of remnant vegetation;
- · Identifying key areas for rehabilitation and offsets; and
- Riparian Bioregional Corridors also maintain and encourage connectivity of riparian and associated ecosystems.

The location of the corridors is determined by the following principles:

- Terrestrial
 - Complement riparian landscape corridors (i.e. minimise overlap and maximise connectivity);
 - Follow major watershed/catchment and/or coastal boundaries;
 - · Incorporate major altitudinal/geological/climatic gradients;
 - Include and maximise connectivity between large tracts/patches of remnant vegetation;
 - · Include and maximise connectivity between remnant vegetation in good condition; and
- Riparian
 - · Located on the major river or creek systems within the bioregion in question.

The total extent of remnant vegetation triggered as being of "State", "Regional" or "Local" significance due to the presence of an overlying BPA derived terrestrial or riparian corridor within the AOI, is provided in the following table. For further information on how remnant vegetation is triggered due to the presence of an overlying BPA derived corridor, refer to the relevant landscape BPA expert panel report(s).

Table 14: Extent of triggered remnant vegetation due to the presence of BPA derived corridors with respect to the AOI

Biodiversity Significance	Area (Ha)	% of AOI
State	1,832.89	23.01
Regional	88.02	1.1
Local	0.0	0.0

NB: area figures associated with the extent of corridor triggered remnant vegetation are only available for those bioregions where a BPA has been undertaken.

Refer to Map 3 for further information.

Threatening process/condition (Criteria K) - areas identified by experts under this criterion may be used to amend (upgrade or downgrade) biodiversity significance arising from the "first-cut" analysis. The condition of remnant vegetation is affected by threatening processes such as weeds, ferals, grazing and burning regime, selective timber harvesting/removal, salinity, soil erosion, and climate change.

Assessment of Criteria K with respect to the AOI is not currently included in the "Biodiversity and Conservation Values" report, as it has not been applied to the majority of Queensland due to data/information limitations and availability.

Special Area Decisions

Expert panel derived "Special Area Decisions" are used to assign values to Other Essential Criteria. The specific decisions which relate to the AOI in question are listed in the table below.

Table 15: Expert panel decisions for assigning levels of biodiversity significance with respect to the AOI

Decision Number	Description	Panel Recommended Significance	Criteria Values
brbs_fl_36	Mountain coolibah remnants, Eastern Darling Downs	Regional	lb (refugia): H

Decision Number	Description	Panel Recommended Significance	Criteria Values
brbs_I_15	Relictual subregions (less than 30% remnant vegetation) - remnant vegetation	Regional	Ib (refugia): H
brbs_l_17a	None	None	None
brbs_I_41	Remnant grasslands, Eastern Darling Downs	State	la (endemic richness): VH; lb (refugia): VH; lc (disjunct populations): VH; ld (range limits): H; le (species richness): H
seqs_I_17	Helidon Hills	State	la (SEQ endemic taxa): VERY HIGH lb (wildlife refugia): VERY HIGH ld (disjunct populations): VERY HIGH lk (climate refugia): VERY HIGH
seqs_I_22	Terrestrial bioregional corridors	State or Regional	Criterion J
seqs_I_49	Riparian bioregional corridors	State	Criterion J
seqs_I_51	Permanent groundwater dependent ecosystems (GDE)	State	Ib (wildlife refugia): VERY HIGH le (high species richness): VERY HIGH lk (climate refugia): VERY HIGH
seqs_I_57	Riparian lowland forest systems (other than riparian/gallery rainforests systems)	State	Ib (wildlife refugia): VERY HIGH Ie (high species richness: HIGH Ii (hollow bearing trees): HIGH
seqs_I_61	Semi-evergreen vine thicket	State	Ib (wildlife refugia): VERY HIGH Ie (high species richness): VERY HIGH Ij (breeding / roosting sites): VERY HIGH Ik (climate refuge): VERY HIGH

Expert panel decision descriptions:

brbs_fl_36

The Eastern Darling Downs subregion contains the southern limits of mountain coolibah Eucalyptus orgadophila woodlands on basalt hills (11.8.5). The community is considered to provide important habitat for several threatened plant species including: Digitaria porrecta, Discaria pubescens, Picris evae and Thesium australe.

brbs_I_15

A summary of research on landscape thresholds for remnant vegetation is provided by James Saunders (2001). The evidence suggests that once remnant vegetation falls below 30%, there are significant declines in biodiversity.

The following subregions have less than 30% remnant vegetation in the southern Brigalow Belt: Relictual subregions (less than 30% remnant vegetation remaining) for the Brigalow Belt include; Upper Belyando Flood out (11.8), Isaac - Comet Downs (11.11), Callide Creek Downs (11.19), Dawson River Downs (11.21), Taroom Downs (11.25), Dulacca Downs (11.28), Weribone High (11.29), Tara Downs (11.30), Eastern Darling Downs (11.31), Moonie R. - Commoron Creek Floodout (11.33), Moonie - Barwon Interfluve (11.34), Warrambool - Moonie (11.35), Macintyre - Weir Fan (11.36), Narrandool (11.38).

Remnant vegetation provides a refuge from clearing in fragmented subregions and should be retained to maintain biodiversity.

Refer to brbn_I_89 for the northern BRB implementation of this decision.

brbs_I_17a

None

brbs_I_41

Remnants of once more extensive grasslands (less than 2% remains) dominated by Dichanthium spp. or Astrebla spp. within the Eastern Darling Downs subregion provide a refuge for a variety of threatened flora, e.g. Digitaria porrecta, Rhaponticum australe, Thesium australe and Solanum papaverifolium, many of which occur as disjunct populations or at the limit of their geographic range.

These areas are also recognised as being of important for reptile fauna including Carlia tetradactyla, shingle-back Tiliqua rugosa, spotted black snake Pseudechis guttatus, Delma inornata, common delma D. plebeia and threatened Condamine earless dragon Tympanocryptis condaminensis, the latter known to occur only from grasslands around Bongeen. Another notable fauna endemic is the only grassland snail found in Queensland, Jimbouria rodhobsoni. Disjunct populations of the endangered long-legged worm-skink Anomalopus mackayi are also found in similar habitat within the area.

Nb. In future panel reviews, the significance of all Brigalow Belt remnant natural grasslands should be reviewed.

seqs_I_17

Collectively, the area delineated has very high flora and landscape values. It is an area of sedimentary geology in places capped by the remnants of an old duricrusted surface of Tertiary age. It has weathered surfaces throughout. Watercourses have cut gorges through the sandstone beds especially on the western side.

The values identified for the area include:

- SEQ endemic taxa including narrow endemic taxa (Criterion Ia): SEQ endemic taxa Bertya lapicola subsp. lapicola, Bossiaea dasycarpa ,Eucalyptus dura, E. helidonica, E. taurina, Caustis blakei subsp. macrantha, Goodenia heterophylla subsp. teucriifolia, Grevillea quadricauda, Hovea impressinerva, H. ramulosa, Leionema obtusifolium, Paspalidium grandispiculatum, Syncarpia verecunda, Xylomelum benthamii.
- · Wildlife refugia (Criterion Ib).
- Disjunct taxa (Criterion Ic): largely species from sandstone areas in the Brigalow Belt region. Disjunct taxa: Acacia baeuerlenii, A. blakei subsp. blakei, A. brachycarpa, A. julifera subsp. julifera, A. leichhardtii, Allocasuarina inophloia, Aotus subglauca var. filiformis, A. subglauca var. subglauca, Sannantha collina, Eucalyptus baileyana, Gompholobium foliolosum, Grevillea singuliflora, Hakea plurinervia, Leucopogon biflorus, Leptospermum lamellatum, Lysicarpus angustifolius, Mirbelia speciosa subsp. ringrosei, Xanthosia stellata.
- Climate refugia (Criterion Ik): A combination of ecosystem and landscape elements are present across parts of the general area described considered to provide refugial functions and/or which faciliate adaptaion zones (SEQ Catchments 2016).

seqs_I_22

The expert panel reviewed the existing bioregional corridors for southern SEQ. Corridors were assigned as being of State or Regional significance.

For further information, refer to section 2.3.2 and 3.2 of this report.

seqs_I_49

The riparian bioregional corridors provide connectivity through lowland areas of SEQ.

See Table 4 for list of waterways considered riparian corridors.

For further information, refer to sections 2.3.2 and 3.2 of this report.

seqs_I_51

This decision relates to all ecosystems that have a permanent groundwater connection. Two examples include the Blue Lake on North Stradbroke Island and the upper Lamington plateau streams. Such systems are very rare in the Australian landscape.

Additionally, given the expected increase in frequency of droughts and higher tempertatures, such areas may act as important drought refugia.

seqs_I_57

Riparian lowland forest ecosystems are important components of the lowland landscape, frequently exhibiting higher species richness and abundance than surrounding habitats. They act as movement pathways along riparian systems for a number of species, especially birds. They also often provide critical resources for many species in terms of food, shelter and nesting sites. For example, the seasonal flowering of melaleuca is important for species of honeyeaters, whilst narrow bands of flooded gum along watercourses are significant habitat for koalas Phascolarctos cinereus, especially in times of drought. Large trees in these systems also act as a source of nest hollows for many species of birds, bats and arboreal mammals. (Lovett Price 2007)

Due to historical and preferential clearing in SEQ, remaining systems are often heavily fragmented and have undergone a substantial reduction in their extent. In many areas, condition is often poor and subject to considerable weed problems.

Values include:

- · Wildlife refugia (Criterion Ib).
- · High species richness (Criterion le).
- Larger trees in such systems are often a significant source of nest hollows (Criterion Ii).

Note - for the same decision relevant to the northern portion of the SEQ bioregion refer to seqn_I_50.

seqs_I_61

Good examples within the Brisbane region include Cameron's Scrub and the adjacent Edward Corbould Nature Refuge.

Aquatic Conservation Assessments

Introduction

The Aquatic Biodiversity Assessment and Mapping Method or AquaBAMM (Clayton *et al.* 2006), was developed to assess conservation values of wetlands in queensland, and may also have application in broader geographical contexts. It is a comprehensive method that uses available data, including data resulting from expert opinion, to identify relative wetland conservation/ecological values within a specified study area (usually a catchment). The product of applying this method is an Aquatic Conservation Assessment (ACA) for the study area.

An ACA using AquaBAMM is non-social, non-economic and identifies the conservation/ecological values of wetlands at a user-defined scale. It provides a robust and objective conservation assessment using criteria, indicators and measures that are founded upon a large body of national and international literature. The criteria, each of which may have variable numbers of indicators and measures, are naturalness (aquatic), naturalness (catchment), diversity and richness, threatened species and ecosystems, priority species and ecosystems, special features, connectivity and representativeness. An ACA using AquaBAMM is a powerful decision support tool that is easily updated and simply interrogated through a geographic information system (GIS).

Where they have been conducted, ACAs can provide a source of baseline wetland conservation/ecological information to support natural resource management and planning processes. They are useful as an independent product or as an important foundation upon which a variety of additional environmental and socio-economic elements can be added and considered (i.e. an early input to broader 'triple-bottom-line' decision-making processes). An ACA can have application in:

- · determining priorities for protection, regulation or rehabilitation of wetlands and other aquatic ecosystems
- · on-ground investment in wetlands and other aquatic ecosystems
- contributing to impact assessment of large-scale development (e.g. dams)
- · water resource and strategic regional planning prcesses

For a detailed explanation of the methodology please refer to the summary and expert panel reports relevant to the ACA utilised in this assessment. These reports can be accessed at Wetland *Info*:

http://wetlandinfo.des.qld.gov.au/wetlands/assessment/assessment-methods/aca

The GIS results can be downloaded from the Queensland Spatial Catalogue at:

http://qspatial.information.qld.gov.au/geoportal/

Explanation of Criteria

Under the AquaBAMM, eight criteria are assessed to derive an overall conservation value. Similar to the Biodiversity Assessment and Mapping Methodology, the criteria may be primarily diagnostic (quantitative) or primarily expert opinion (qualitative) in nature. The following sections provide a brief description of each of the 8 criteria.

Criteria 1. Naturalness - Aquatic: This attribute reflects the extent to which a wetland's (riverine, non-riverine, estuarine) aquatic state of naturalness is affected through relevant influencing indicators which include: presence of exotic flora and fauna; presence of aquatic communities; degree of habitat modification and degree of hydrological modification.

Criteria 2. Naturalness - Catchment: The naturalness of the terrestrial systems of a catchment can have an influence on many wetland characteristics including: natural ecological processes e.g. nutrient cycling, riparian vegetation, water chemistry, and flow. The indicators utilised to assess this criterion include: presence of exotic flora and/or fauna; riparian, catchment and flow modification.

Criteria 3. Naturalness - Diversity and Richness: This criterion is common to many ecological assessment methods and can include both physical and biological features. It includes such indicators as species richness, riparian ecosystem richness and geomorphological diversity.

Criteria 4. Threatened Species and Ecosystems: This criterion evaluates ecological rarity characteristics of a wetland. This includes both species rarity and rarity of communities / assemblages. The communities and assemblages are best represented by regional ecosystems. Species rarity is determined by NCA and EPBC status with Endangered, Vulnerable or Near-threatened species being included in the evaluation. Ecosystem rarity is determined by regional ecosystem biodiversity status i.e. Endangered, Of Concern, or Not of Concern.

Criteria 5. Priority Species and Ecosystems: Priority flora and fauna species lists are expert panel derived. These are aquatic, semi-aquatic and riparian species which exhibit at least 1 particular trait in order to be eligible for consideration. For

flora species the traits included:

- · It forms significant macrophyte beds (in shallow or deep water).
- · It is an important food source.
- It is important/critical habitat.
- It is implicated in spawning or reproduction for other fauna and/or flora species.
- It is at its distributional limit or is a disjunct population.
- It provides stream bank or bed stabilisation or has soil binding properties.
- It is a small population and subject to threatening processes.

Fauna species are included if they meet at least one of the following traits:

- It is endemic to the study area (>75 per cent of its distribution is in the study area/catchment).
- It has experienced, or is suspected of experiencing, a serious population decline.
- It has experienced a significant reduction in its distribution and has a naturally restricted distribution in the study area/catchment.
- · It is currently a small population and threatened by loss of habitat.
- · It is a significant disjunct population.
- · It is a migratory species (other than birds).
- A significant proportion of the breeding population (>one per cent for waterbirds, >75 per cent other species) occurs in the waterbody (see Ramsar criterion 6 for waterbirds).
- · Limit of species range.

See the individual expert panel reports for the priority species traits specific to an ACA.

Criteria 6. Special Features: Special features are areas identified by flora, fauna and ecology expert panels which exhibit characteristics beyond those identified in other criteria and which the expert panels consider to be of the highest ecological importance. Special feature traits can relate to, but are not solely restricted to geomorphic features, unique ecological processes, presence of unique or distinct habitat, presence of unique or special hydrological regimes e.g. spring-fed streams. Special features are rated on a 1 - 4 scale (4 being the highest).

Criteria 7. Connectivity: This criterion is based on the concept that appropriately connected aquatic ecosystems are healthy and resilient, with maximum potential biodiversity and delivery of ecosystem services.

Criteria 8. Representativeness: This criterion applies primarily to non-riverine assessments, evaluates the rarity and uniqueness of a wetland type in relation to specific geographic areas. Rarity is determined by the degree of wetland protection within "protected Areas" estate or within an area subject to the *Fisheries Act 1994*, *Coastal Protection and Management Act 1995*, or *Marine Parks Act 2004*. Wetland uniqueness evaluates the relative abundance and size of a wetland or wetland management group within geographic areas such as catchment and subcatchment.

Riverine Wetlands

Riverine wetlands are all wetlands and deepwater habitats within a channel. The channels are naturally or artificially created, periodically or continuously contain moving water, or connecting two bodies of standing water. AquaBAMM, when applied to riverine wetlands uses a discrete spatial unit termed subsections. A subsection can be considered as an area which encompasses discrete homogeneous stream sections in terms of their natural attributes (i.e. physical, chemical, biological and utilitarian values) and natural resources. Thus in an ACA, an aquatic conservation significance score is calculated for each subsection and applies to all streams within a subsection, rather than individual streams as such.

Please note, the area figures provided in Tables 16 and 17, are derived using the extent of riverine subsections within the AOI. Refer to **Map 5** for further information. A summary of the conservation significance of riverine wetlands within the AOI is provided in the following table.

Table 16: Overall level/s of riverine aquatic conservation significance

Aquatic conservation significance (riverine wetlands)	Area (Ha)	% of AOI
Very High	2,408.57	30.24

Aquatic conservation significance (riverine wetlands)	Area (Ha)	% of AOI
High	2,151.98	27.02
Medium	3,405.19	42.75
Low	0.0	0.0
Very Low	0.0	0.0

The individual aquatic conservation criteria ratings for riverine wetlands within the AOI are listed below.

Table 17: Level/s of riverine aquatic conservation significance based on selected criteria

Criteria	Very High Rating - Area (Ha)	Very High Rating - % of AOI	High Rating - Area (Ha)	High Rating - % of AOI	Medium Rating - Area (Ha)	Medium Rating - % of AOI	Low Rating - Area (Ha)	Low Rating - % of AOI
Naturalness aquatic	613.84	7.7	3,981.66	50.0	3,370.24	42.3		
2. Naturalness catchment			3,405.23	42.7	4,560.51	57.3		
Diversity and richness			5,371.88	67.4	2,593.86	32.6		
4. Threatened species and ecosystems	840.56	10.6			7,125.18	89.4		
5. Priority species and ecosystems	7,704.03	96.7			261.71	3.3		
6. Special features	2,408.58	30.2	764.18	9.6				
7. Connectivity	4,740.06	59.5	203.31	2.6	2,332.15	29.3	690.22	8.7
8. Representative- ness								

The table below lists and describes the relevant expert panel decisions used to assign conservation significance values to riverine wetlands within the AOI.

Table 18: Expert panel decisions for assigning overall levels of riverine aquatic conservation significance

Decision number	Special feature	Catchment	Criteria/Indicator/Measure	Conservation rating (1-4)
cb_r_ec_09	Flying fox camps	Condamine-Balonne	6.3.1	3
ly_r_ec_02	Basaltic ground fed permanent refugia pools.	Lockyer	6.4.1, 6.3.1	4
ly_r_fa_02	Headwater areas supporting macro-invertebrate taxa	Lockyer	6.3.1	4
ly_r_ec_03	High energy lotic systems	Lockyer	6.1.1	3

4 is the highest rating/value

Expert panel decision descriptions:

cb_r_ec_09

Black flying fox camps located on watercourses: Bungil Creek, Roma; Macintyre River, Goondiwindi; Spring Creek, Toowoomba; Dalrymple Creek at Allora, and Myall Creek, east of Dalby. Wherever permanent or temporary camps occur, the riparian zone vegetation should be identified as special habitat.

ly_r_ec_02

Refugial value and ground water connectivity due to basalt aquifers in volcanic uplands. The Tertiary Basalt is an elite aquifer. Small permanent pools in the streams are maintained by spring-fed headwater systems. Steepness adds to uniqueness as it results in pools on shelves. Influence of the aquifers may extend downstream a minimum of 1 km in higher rainfall areas but can extend down to valley-bottom alluvium. In areas with less than 800 mm rainfall, the distance of influence is reduced e.g. as little as 100m away from the basalt outcrops. These streams are part of the Groundwater Dependent Ecosystem (GDE) mapping program. Pools in the northern basalt outcrops have eels and gudgeon.

ly_r_fa_02

Headwaters above the 300m contour and down into the mid sections of most streams in the basalt areas within the Scenic Rim subregion. Upland streams with steep gradients in undisturbed subcatchments, with good water quality, running over diverse substrates. High diversity of most macroinvertebrates e.g. crayfish, caddisflies and mayflies. Also stream-adapted frog fauna including a number of EVNT species. These fauna values correlate with elevated altitude, high rainfall, and intact vegetation.

ly_r_ec_03

Boulder to cobble bed stretches in stream beds providing pool and riffle environments. Provide diversity in substrate habitat and a highly oxygenated, self-cleaning system. Believed to be some examples downstream from Wivenhoe and Somerset dams and below other major infrastructure; regulated flow in these locations can result in enhanced biodiversity relative to natural state. Not all examples will have high ecological value due to other factors e.g. water quality. Activities that remove boulders and stones cause degradation.

Non-riverine Wetlands

Non-riverine wetlands include both lacustrine and palustrine wetlands, however, do not currently incorporate estuarine, marine or subterranean wetland types. A summary of the conservation significance of non-riverine wetlands within the AOI is provided in the following table. Refer to **Map 6** for further information.

Table 19: Overall level/s of non-riverine aquatic conservation significance

Aquatic conservation significance (non-riverine wetlands)	Area (Ha)	% of AOI
Very High	0.0	0.0
High	0.0	0.0
Medium	11.45	0.14
Low	0.0	0.0
Very Low	0.0	0.0

The following table provides an assessment of non-riverine wetlands within the AOI and associated aquatic conservation criteria values.

Table 20: Level/s of non-riverine aquatic conservation significance based on selected criteria

Criteria	Very High Rating - Area (Ha)	Very High Rating - % of AOI	High Rating - Area (Ha)	High Rating - % of AOI	Medium Rating - Area (Ha)	Medium Rating - % of AOI	Low Rating - Area (Ha)	Low Rating - % of AOI
Naturalness aquatic							11.46	0.1
2. Naturalness catchment			1.13		10.33	0.1		_

Criteria	Very High Rating - Area (Ha)	Very High Rating - % of AOI	High Rating - Area (Ha)	High Rating - % of AOI	Medium Rating - Area (Ha)	Medium Rating - % of AOI	Low Rating - Area (Ha)	Low Rating - % of AOI
Diversity and richness			11.46	0.1				
Threatened species and ecosystems			8.14	0.1				
5. Priority species and ecosystems	11.46	0.1						
6. Special features								
7. Connectivity								
8. Representative- ness								

The table below lists and describes the relevant expert panel decisions used to assign conservation significance values to non-riverine wetlands within the AOI.

Table 21: Expert panel decisions for assigning overall levels of non-riverine aquatic conservation significance.

Decision number	Special feature	Catchment	Criteria/Indicator/Measure	Conservation rating (1-4)
(No Records)				

4 is the highest rating/value

Expert panel decision descriptions:

(No Records)

Threatened and Priority Species

Introduction

This chapter contains a list of threatened and priority flora and/or fauna species that have been recorded on, or within 4km of the Assessment Area.

The information presented in this chapter with respect to species presence is derived from compiled databases developed primarily for the purpose of BPAs and ACAs. Data is collated from a number of sources and is updated periodically.

It is important to note that the list of species provided in this report, may differ when compared to other reports generated from other sources such as the State government's WildNet, Herbrecs or the federal government's EPBC database for a number of reasons.

Records for threatened and priority species are filtered and checked based on a number of rules including:

- · Taxonomic nomenclature current scientific names and status,
- Location cross-check co-ordinates with location description,
- Taxon by location requires good knowledge of the taxon and history of the record,
- Duplicate records identify and remove,
- · Expert panels check records and provide new records,
- · Flora cultivated records excluded.
- Use precise records less than or equal to 2000m,
- Use recent records greater than or equal to 1975 animals, greater than or equal to 1950 plants.

Threatened Species

Threatened species are those species classified as "Endangered" or "Vulnerable" under the *Environment Protection and Biodiversity Conservation Act 1999* or "Endangered", "Vulnerable" or "Near threatened" under the *Nature Conservation Act 1992*.

The following threatened species have been recorded on, or within approximately 4km of the AOI.

Table 22: Threatened species recorded on, or within 4km of the AOI

Species	Common name	NCA status	EPBC status	Back on Track rank	Migratory species*	Wetland species**	Identified flora/fauna
Adelotus brevis	tusked frog	V		Medium		Υ	FA
Arthraxon hispidus		V	V	Low			FL
Bothriochloa bunyensis	Bunya Mountains bluegrass	V	V	Low			FL
Chalinolobus dwyeri	large-eared pied bat	V	V	Medium			FA
Cyperus clarus		V		Medium			FL
Delma torquata	collared delma	V	V	High			FA
Digitaria porrecta		NT		Low			FL
Eucalyptus taurina	Helidon ironbark	V		Low			FL
Geophaps scripta scripta	squatter pigeon (southern subspecies)	V	V	Medium			FA
Grantiella picta	painted honeyeater	V	V	High			FA
Grevillea quadricauda		V	V	Low			FL

Species	Common name	NCA status	EPBC status	Back on Track	Migratory species*	Wetland species**	ldentified flora/fauna
Hemiaspis damelii	grey snake	E		Medium			FA
Jalmenus eubulus	pale imperial hairstreak	V		Medium			FA
Lathamus discolor	swift parrot	E	CE	Medium			FA
Lepidium peregrinum		С	Е	Low			FL
Marsdenia coronata	slender milkvine	V		Low			FL
Ninox strenua	powerful owl	V		Medium			FA
Paspalidium grandispiculatum		V	V	Low			FL
Petauroides volans	greater glider	V	V	Low			FA
Petauroides volans volans	southern greater glider	V	V				FA
Petrogale penicillata	brush-tailed rock-wallaby	V	V	High			FA
Phascolarctos cinereus	koala	V	V	Low			FA
Phascolarctos cinereus	Koala	V	V	Low			FA
Picris evae		V	V	High			FL
Pteropus poliocephalus	grey-headed flying-fox	С	V	Critical			FA
Rhaponticum australe		V	V	High			FL
Rostratula australis	Australian painted snipe	Е	E	Medium		Υ	FA
Sarcochilus weinthalii	blotched sarcochilus	Е	V	Critical			FL
Sophora fraseri	brush sophora	V	V	Low			FL
Turnix melanogaster	black-breasted button-quail	V	V	Critical			FA
Tympanocryptis condaminensis	Condamine earless dragon	Е	E	High			FA

NB. Please note that the threatened species listed in this section are based upon the most recently compiled DES internal state-wide threatened species dataset. This dataset may contain additional records that were not originally available for inclusion in the relevant individual BPAs and ACAs.

*JAMBA - Japan-Australia Migratory Bird Agreement; CAMBA - China-Australia Migratory Bird Agreement; ROKAMBA - Republic of Korea-Australia Migratory Bird Agreement; CMS - Convention on the Conservation of Migratory Species.

BPA Priority Species

A list of BPA priority species that have been recorded on, or within approximately 4km of the AOI is contained in the following table.

^{**}Y - wetland indicator species.

Table 23: Priority species recorded on, or within 4km of the AOI

Species	Common name	Back on Track rank	Identified flora/fauna
Biziura lobata	Musk Duck	Low	FA
Cheramoeca leucosterna	White-backed Swallow	Low	FA
Chlamydosaurus kingii	Frilled Lizard	Low	FA
Chthonicola sagittata	Speckled Warbler	Low	FA
Climacteris picumnus	Brown Treecreeper	Low	FA
Cyclorana alboguttata	Greenstripe Frog	Low	FA
Delma plebeia	Common Delma	Medium	FA
Dockrillia pugioniformis	dagger orchid		FL
Ephippiorhynchus asiaticus	Black-necked Stork	Low	FA
Ixobrychus dubius	Australian Little Bittern	Data Deficient	FA
Limnodynastes dumerilii	Grey Bellied Pobblebonk	Low	FA
Litoria dentata	Bleating Treefrog	Low	FA
Lophoictinia isura	Square-tailed Kite	Low	FA
Macropus dorsalis	Black-striped Wallaby	Low	FA
Macularion aquila	Black-spotted Semi-slug		FA
Melithreptus gularis	Black-chinned Honeyeater	Low	FA
Nitor pudibunda	Pink Glass-snail		FA
Ornithorhynchus anatinus	Platypus	Low	FA
Pedinogyra hayii	Hay's Flat-coiled Snail		FA
Perameles nasuta	Long-nosed Bandicoot	Low	FA
Phascogale tapoatafa tapoatafa	Brush-tailed Phascogale	Low	FA
Pleuropoma draytonensis	Drayton Droplet Snail		FA
Pomatostomus temporalis	Grey-crowned Babbler		FA
Pseudophryne coriacea	Red Backed Broodfrog	Low	FA
Pteropus alecto	Black Flying-fox	Low	FA
Pteropus scapulatus	Little Red Flying-fox	Low	FA
Scagacola eddiei	Lockyer Valley Carnivorous Snail		FA
Scoteanax rueppellii	Greater Broad-nosed Bat	Medium	FA
Stagonopleura guttata	Diamond Firetail	High	FA
Syzygium oleosum	blue cherry		FL
Telephlebia cyclops	Northern Evening Darner		FA
Tyto tenebricosa tenebricosa	Sooty Owl	Low	FA
Varanus varius	Lace Monitor	Low	FA

NB. Please note that the list of priority species is based on those species identified in the BPAs, however records for these species may be more recent than the originals used. furthermore, the BPA priority species databases are updated from time to time. At each update, the taxonomic details for all species are amended as necessary to reflect current taxonomic name and/or status changes.

ACA Priority Species

A list of ACA priority species used in riverine and non-riverine ACAs that have been recorded on, or within approximately 4km of the AOI are contained in the following tables.

Table 24: Priority species recorded on, or within 4 km of the AOI - riverine

Species	Common name	Back on Track rank	Identified flora/fauna
Acrocephalus australis	Australian Reed-Warbler	L	FA
Actitis hypoleucos	Common Sandpiper	L	FA
Amauromis moluccana	Pale-vented Bush-hen	L	FA
Anguilla reinhardtii	Longfin Eel	L	FA
Ardea ibis	Cattle Egret	Low	FA
Ardea intermedia	Intermediate Egret	L	FA
Ardea modesta	Eastern Great Egret	Low	FA
Biziura lobata	Musk Duck	L	FA
Calidris acuminata	Sharp-tailed Sandpiper	L	FA
Casuarina cunninghamiana			FL
Ceyx azureus	Azure Kingfisher	L	FA
Eucalyptus tereticornis			FL
Ficus coronata	creek sandpaper fig		FL
Ficus macrophylla			FL
Gallinago hardwickii	Latham's Snipe	L	FA
Gallinago hardwickii	Latham's snipe	L	FA
Haliaeetus leucogaster	White-bellied Sea-Eagle	L	FA
Hydroprogne caspia	Caspian Tern	L	FA
Intellagama lesueurii	Eastern Water Dragon	L	FA
lxobrychus dubius	Australian Little Bittern	DD	FA
Lonchura castaneothorax	Chestnut-breasted Mannikin	L	FA
Melaleuca bracteata			FL
Melaleuca viminalis		L	FL
Miniopterus schreibersii oceanensis	Eastern Bent-winged Bat	L	FA
Omithorhynchus anatinus	Platypus	L	FA
Oxyura australis	Blue-billed Duck	L	FA
Pandion cristatus	Eastern Osprey	L	FA
Plegadis falcinellus	Glossy Ibis	L	FA
Rostratula australis	Australian Painted Snipe	М	FA

Table 25: Priority species recorded on, or within 4 km of the AOI - non-riverine

Species	Common name	Back on Track rank	Identified flora/fauna
Acrocephalus australis	Australian Reed-Warbler	L	FA
Amauromis moluccana	Pale-vented Bush-hen	L	FA
Anguilla reinhardtii	Longfin Eel	L	FA
Ardea ibis	Cattle Egret	Low	FA
Ardea intermedia	Intermediate Egret	L	FA

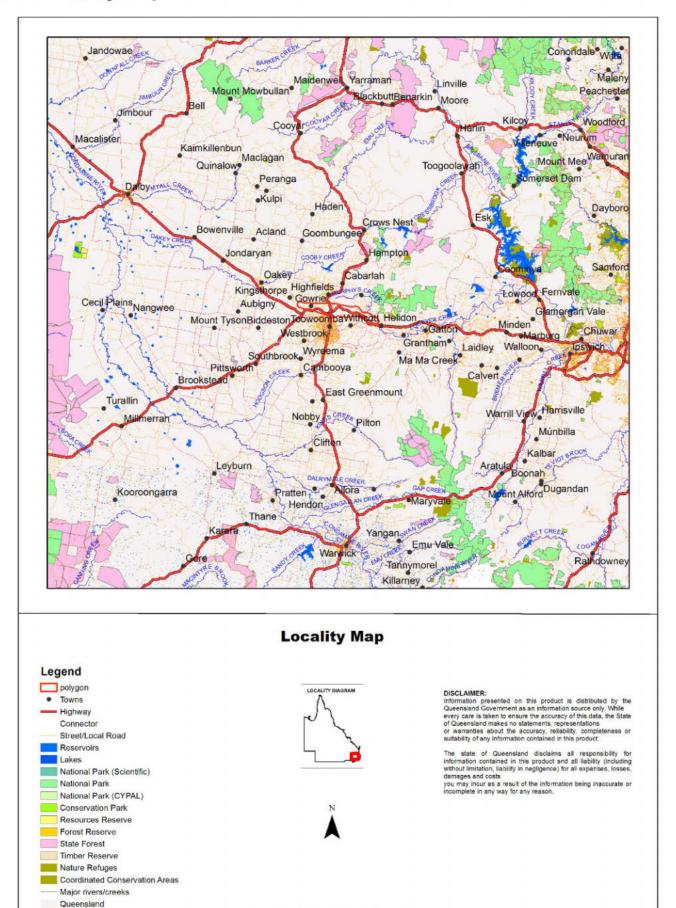
Species	Common name	Back on Track rank	Identified flora/fauna
Ardea modesta	Eastern Great Egret	Low	FA
Biziura lobata	Musk Duck	L	FA
Calidris acuminata	Sharp-tailed Sandpiper	L	FA
Chlidonias leucopterus	White-winged Black Tern	L	FA
Cyclorana alboguttata	Greenstripe Frog	L	FA
Eucalyptus tereticornis			FL
Gallinago hardwickii	Latham's snipe	L	FA
Gallinago hardwickii	Latham's Snipe	L	FA
Haliaeetus leucogaster	White-bellied Sea-Eagle	L	FA
Hydroprogne caspia	Caspian Tern	L	FA
Intellagama lesueurii	Eastern Water Dragon	L	FA
Ixobrychus dubius	Australian Little Bittern	DD	FA
Limnodynastes salmini	salmon-striped frog	L	FA
Limosa limosa	Black-tailed Godwit	L	FA
Litoria chloris	Orange Eyed Treefrog	L	FA
Lonchura castaneothorax	Chestnut-breasted Mannikin	L	FA
Melaleuca bracteata			FL
Miniopterus schreibersii oceanensis	Eastern Bent-winged Bat	L	FA
Omithorhynchus anatinus	Platypus	L	FA
Oxyura australis	Blue-billed Duck	L	FA
Pandion cristatus	Eastern Osprey	L	FA
Plegadis falcinellus	Glossy Ibis	L	FA
Rostratula australis	Australian Painted Snipe	М	FA
Tringa nebularia	Common Greenshank	L	FA
Tringa stagnatilis	Marsh Sandpiper	L	FA

NB. Please note that the priority species records used in the above two tables are comprised of those adopted for the released individual ACAs. The ACA riverine and non-riverine priority species databases are updated from time to time to reflect new release of ACAs. At each update, the taxonomic details for all ACAs records are amended as necessary to reflect current taxonomic name and/or status changes.

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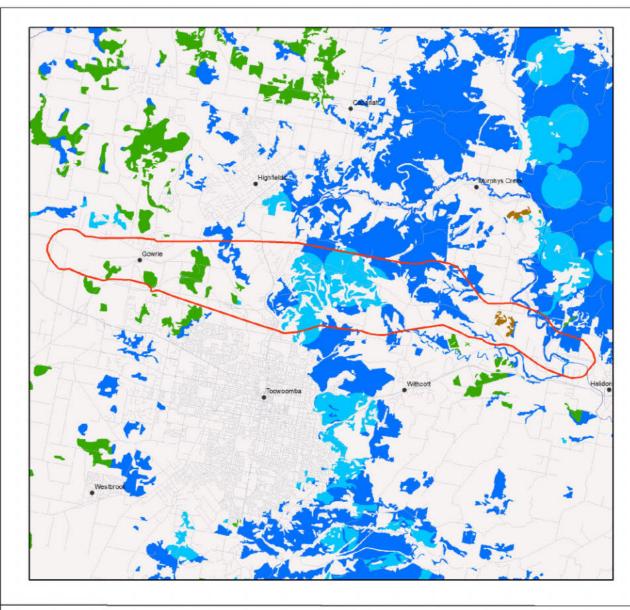
Maps

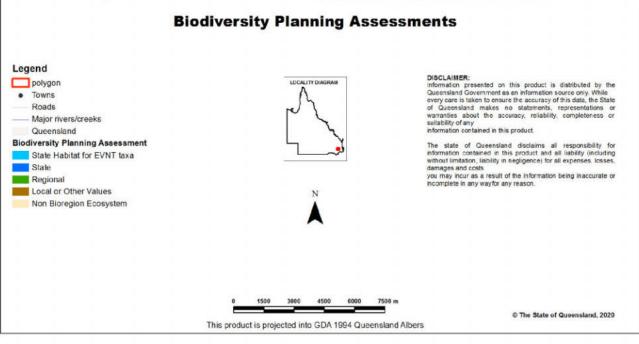
Map 1 - Locality Map



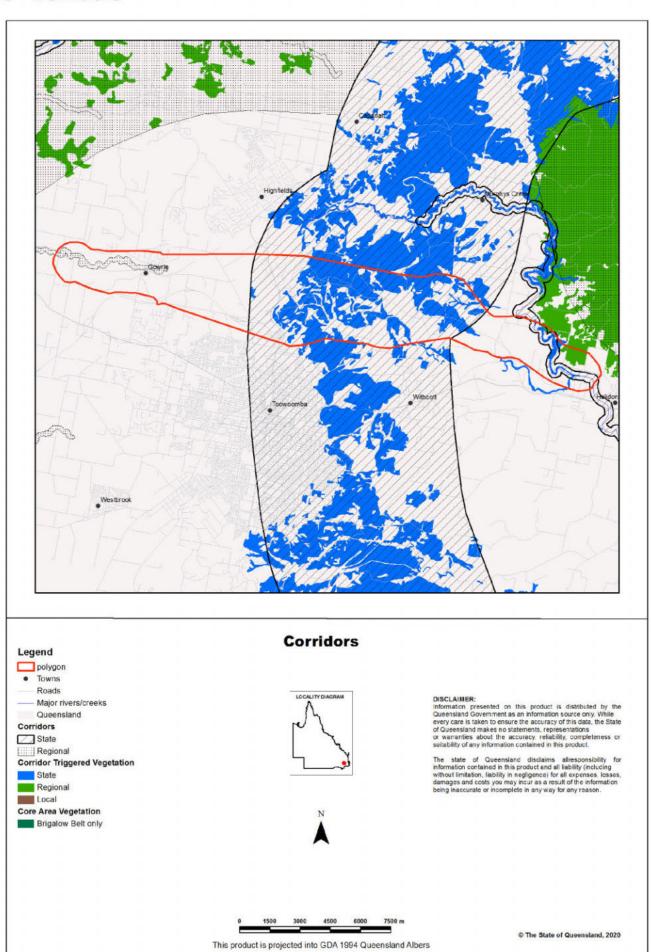
This product is projected into GDA 1994 Queensland Albers

Map 2 - Biodiversity Planning Assessment (BPA)

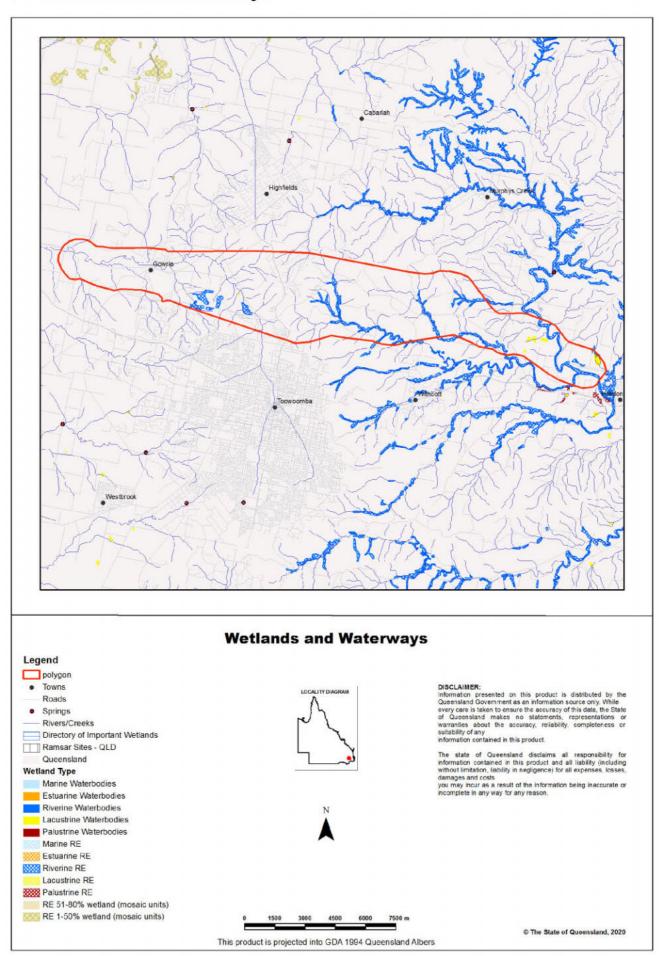




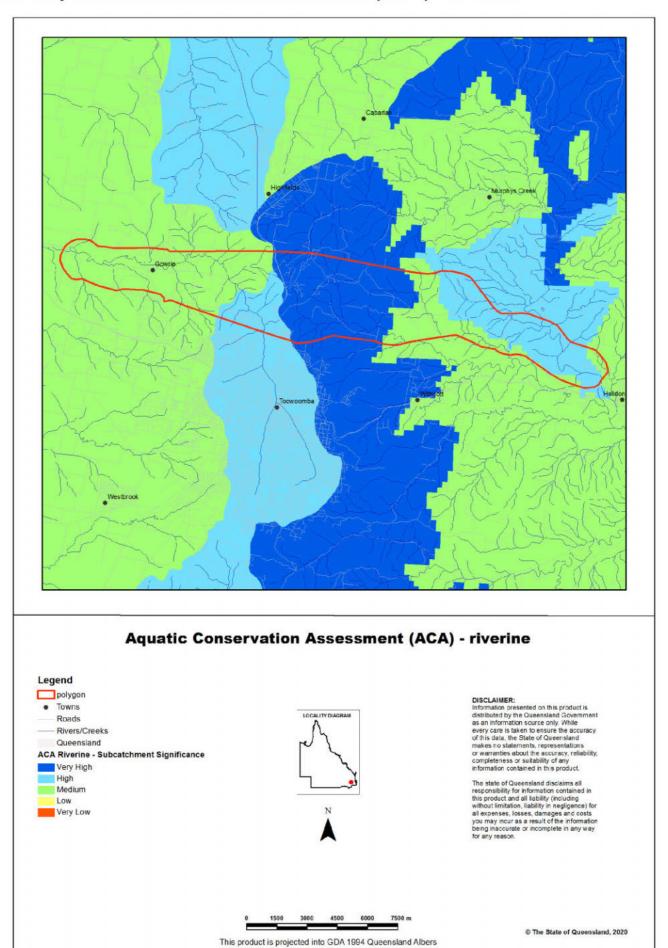
Map 3 - Corridors



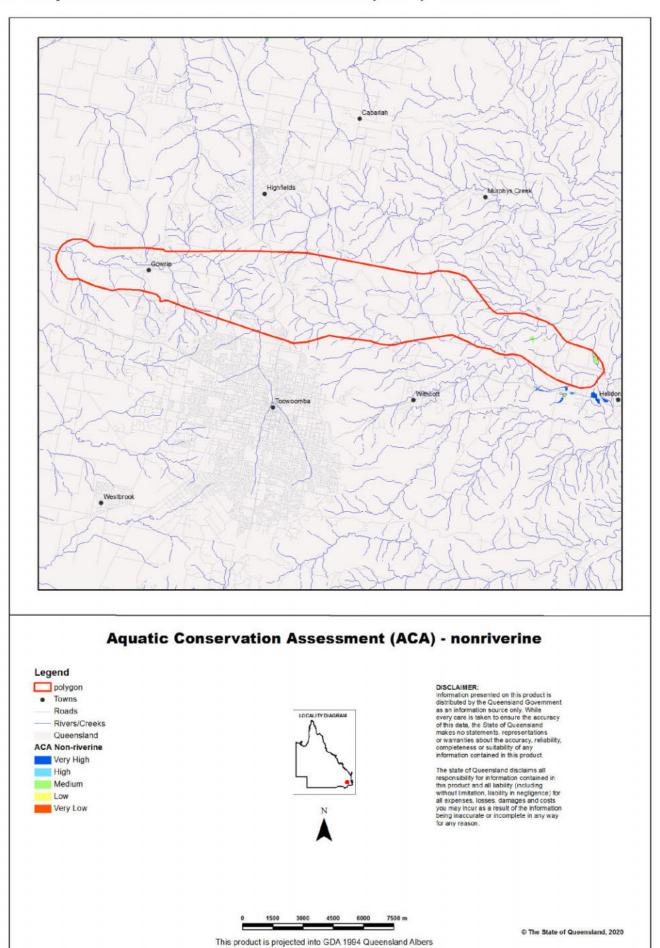
Map 4 - Wetlands and waterways



Map 5 - Aquatic Conservation Assessment (ACA) - riverine



Map 6 - Aquatic Conservation Assessment (ACA) - non-riverine



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Appendices

Appendix 1 - Source Data

Theme	Datasets
Aquatic Conservation Assessments Non-riverine*	Combination of the following datasets: Cape York Peninsula Non-riverine v1.1 Eastern Gulf of Carpentaria v1.1 Great Barrier Reef Catchment Non-riverine v1.3 Lake Eyre and Bulloo Basins v1.1 QMDB Non-riverine ACA v1.4 Southeast Queensland ACA v1.1 WBB Non-riverine ACA v1.1
Aquatic Conservation Assessments Riverine*	Combination of the following datasets: Cape York Peninsula Riverine v1.1 Eastern Gulf of Carpentaria v1.1 Great Barrier Reef Catchment Riverine v1.1 Lake Eyre and Bulloo Basins v1.1 QMDB Riverine ACA v1.4 Southeast Queensland ACA v1.1 WBB Riverine ACA v1.1
Biodiversity Planning Assessments*	Combination of the following datasets: Brigalow Belt BPA v2.1 Cape York Peninsula BPA v1.1 Central Queensland Coast BPA v1.3 Channel Country BPA v1.1 Desert Uplands BPA v1.3 Einasleigh Uplands BPA v1.1 Gulf Plains BPA v1.1 Mitchell Grass Downs BPA v1.1 Mulga Lands BPA v1.4 New England Tableland v2.3 Southeast Queensland v4.1 Wet Tropics v1.1
Statewide BPA Corridors*	Statewide corridors v1.5
Threatened Species	An internal DES database compiled from Wildnet, Herbrecs, Corveg, the QLD Museum, as well as other incidental sources.
BPA Priority Species	An internal DES database compiled from Wildnet, Herbrecs, Corveg, the QLD Museum, as well as other incidental sources.
ACA Priority Species	An internal DES database compiled from Wildnet, Herbrecs, Corveg, the QLD Museum, as well as other incidental sources.

^{*}These datasets are available at:

http://dds.information.qld.gov.au/DDS

Appendix 2 - Acronyms and Abbreviations

AOI - Area of Interest

ACA - Aquatic Conservation Assessment

AQUABAMM - Aquatic Biodiversity Assessment and Mapping Methodology

BAMM - Biodiversity Assessment and Mapping Methodology

BoT - Back on Track

BPA - Biodiversity Planning Assessment

CAMBA - China-Australia Migratory Bird Agreement
DES - Department of Environment and Science

EPBC - Environment Protection and Biodiversity Conservation Act

1999

EVNT - Endangered, Vulnerable, Near Threatened

GDA94 - Geocentric Datum of Australia 1994
GIS - Geographic Information System

JAMBA - Japan-Australia Migratory Bird Agreement

NCA - Nature Conservation Act 1992

RE - Regional Ecosystem

REDD - Regional Ecosystem Description Database

ROKAMBA - Republic of Korea-Australia Migratory Bird Agreement



Protected Plants Flora Survey Trigger Map

This map shows areas where particular provisions of the Nature Conservation Act 1992 apply to the clearing of Legend This map is produced at a scale relevant to the size of polygon the area selected and should be printed as A4 size in High risk area portrait orientation. Cadastral line For further information or assistance with interpretation Property boundaries shown are provided as a locational aid only of this product, please contact the Department of Environment and Science at palm@ehp.qld.gov.au Freeways / motorways / highways Secondary roads / streets Disclaimer: While every care is taken to ensure the accuracy of the data used to generate this product, the Cueensland Government makes no representations or warrantes about its accuracy, reliability, completeness or suitability for any particular purpose and disclaim all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damages) and costs which might be incurred as a consequence of reliance on the data, or as a result of the data being inaccurate or incomplete in any way and for any reason. 2,400 4,800 7,200 9,600 12,000 m This product is projected into: GDA 1994 Queensland Albers



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Protected plants flora survey trigger map

The protected plants flora survey trigger map identifies 'high risk areas' where endangered, vulnerable or near threatened plants are known to exist or are likely to exist. Under the *Nature Conservation Act 1992* (the Act) it is an offence to clear protected plants that are 'in the wild' unless you are authorised or the clearing is exempt, for more information see section 89 of the Act.

Please see the Department of Environment and Science webpage on the <u>clearing of protected plants</u> for information on what exemptions may apply in your circumstances, whether you may need to undertake a flora survey, and whether you may need a protected plants clearing permit.

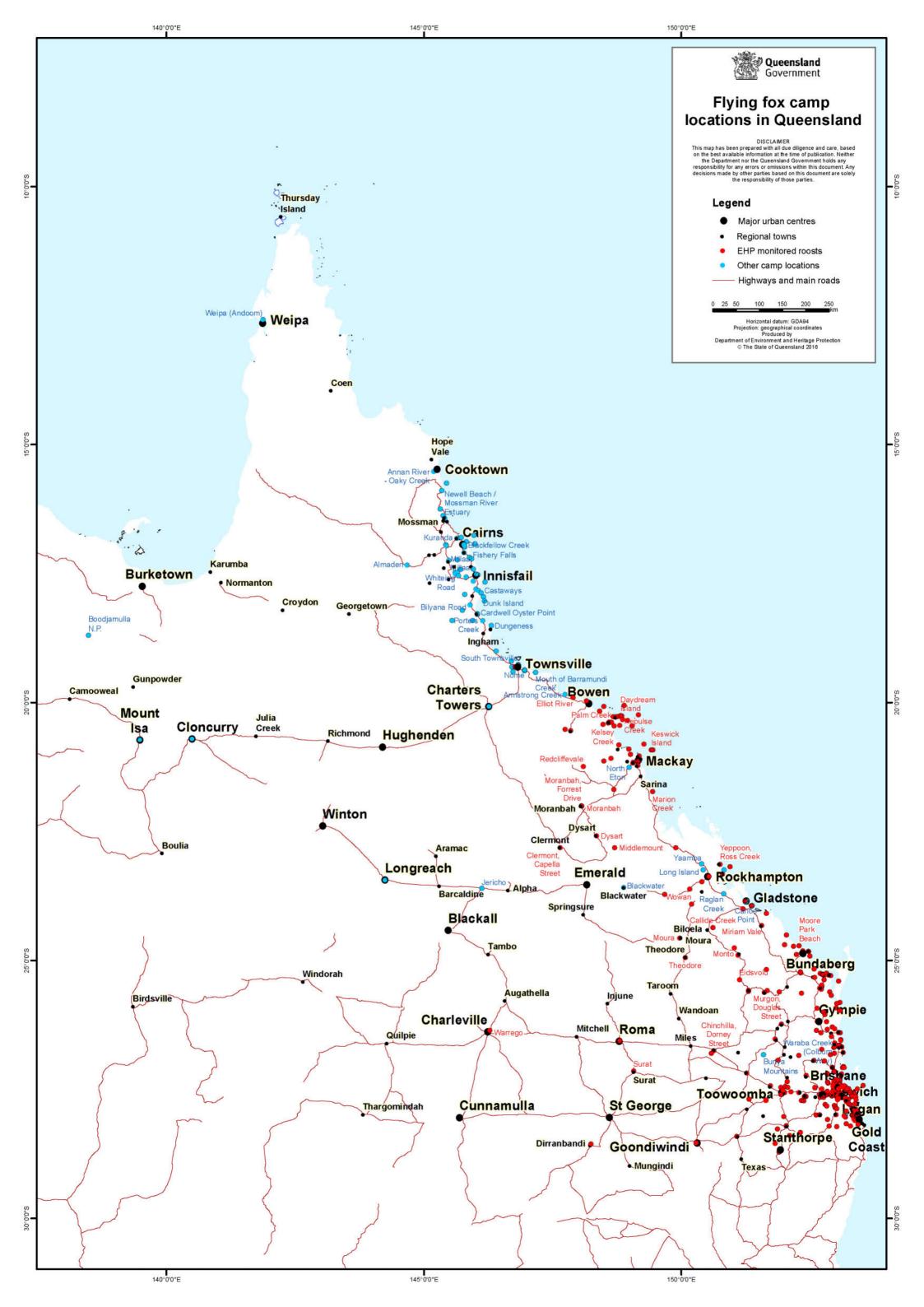
Updates to the data informing the flora survey trigger map

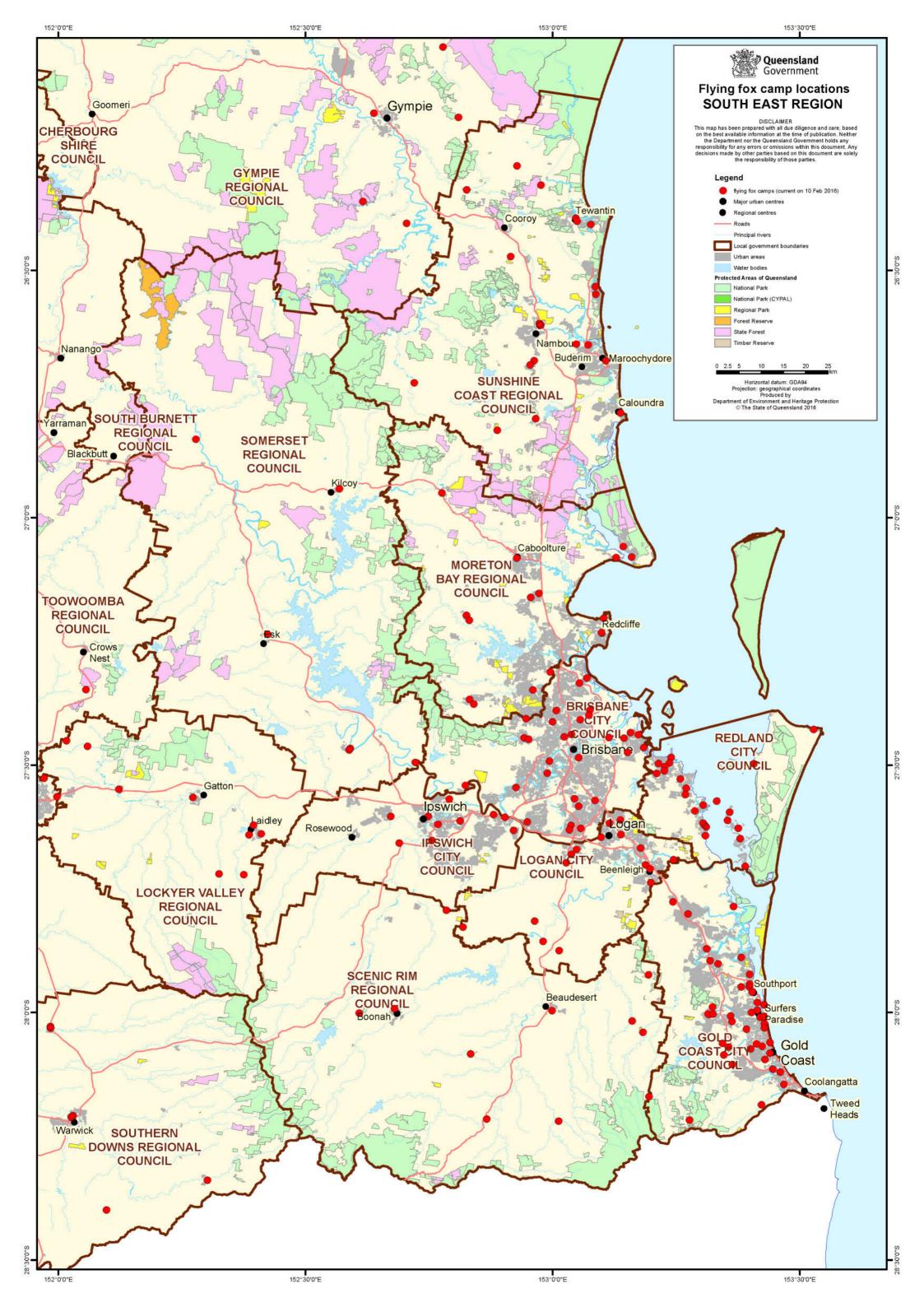
The flora survey trigger map will be reviewed, and updated if necessary, at least every 12 months to ensure the map reflects the most up-to-date and accurate data available.

Species information

Please note that flora survey trigger maps do not identify species associated with 'high risk areas'. While some species information may be publicly available, for example via the Queensland Spatial Catalogue, the Department of Environment and Science does not provide species information on request. Regardless of whether species information is available for a particular high risk area, clearing plants in a high risk area may require a flora survey and/or clearing permit. Please see the Department of Environment and Science webpage on the Clearing of protected plants for more information.







WetlandMaps Report



For selected area of interest Current as at 25/03/2020

Environmental Reports - General Information

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is ot present within the Area of Interest(AOI) (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no matters of interest have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

Important Note to User

Information presented in this report is based upon the mapping of water bodies and wetland regional ecosystems across Queensland. The Queensland wetland mapping was produced using existing information including water body mapping derived from Landsat satellite imagery, regional ecosystem mapping, topographic data, and a springs database. The result is a consistent wetland map for the whole of Queensland.

Ancillary data, such as higher resolution imagery (for example SPOT and aerial photographs), other vegetation and wetland mapping, geology, soil and land system mapping was also used in attributing and assessing the derived Queensland Wetlands Program wetland mapping products.

The wetland mapping was done in accordance with a detailed peer reviewed methodology which included quality assurance measures for all steps in the process. For more detailed information on how the Queensland Wetlands Program wetland mapping was produced, please see the <u>Wetland Mapping and Classification Methodology</u>.

Disclaimer

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Summary Information

The following table provides an overview of the area of interest.

Table 1. Area of interest details

Size (ha)	7,965.7
Local Government(s)	Lockyer Valley Regional, Toowoomba Regional
Bioregion(s)	Brigalow Belt, Southeast Queensland
Subregion(s)	Moreton Basin, Eastern Darling Downs
Catchment(s)	Balonne-Condamine, Brisbane
Drainage sub-basin	Condamine River, Lockyer Creek

NRM Regions

The following NRM region(s) are in the area of interest:

Southern Queensland Landscapes

Healthy Land and Water

Water Resource Plan Boundaries

The following Water Resource Plan(s) are in the area of interest:

Great Artesian Basin and Other Regional Aquifers

Condamine and Balonne

Moreton

Learn more about how Wetlands are mapped in Queensland:

Queensland Wetlands Mapping Definitions

Wetlands are areas of permanent or periodic/intermittent inundation, with water that is static or flowing fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed 6 metres. To be a wetland the area must have one or more of the following attributes:

- at least periodically the land supports plants or animals that are adapted to and dependent on living in wet conditions for at least part of their life cycle, or
- the substratum is predominantly undrained soils that are saturated, flooded or ponded long enough to develop anaerobic conditions in the upper layers, or
- the substratum is not soil and is saturated with water, or covered by water at some time.

Examples under this definition include:

- those areas shown as a river, stream, creek, swamp, lake, marsh, waterhole, wetland, billabong, pool or spring on the latest Sunmap 1:25,000, 1:50,000, 1:100,000 or 1:250,000 topographic map
- areas defined as wetlands on local or regional maps prepared with the aim of mapping wetlands
- wetland regional ecosystems (REs) as defined by the Queensland Herbarium (Environmental Protection Agency 2005a)
- areas containing recognised hydrophytes as provided by the Queensland Herbarium
- · saturated parts of the riparian zone
- artificial wetlands such as farm dams
- water bodies not connected to rivers or flowing water such as billabongs and rock pools.

Examples under this definition exclude:

· areas that may be covered by water but are not wetlands according to the definition

- floodplains that are intermittently covered by flowing water but do not meet the hydrophytes and soil criteria
- riparian zone above the saturation level.

Wetland Systems

Riverine wetlands are all wetlands and deepwater habitats within a channel. The channels are naturally or artificially created, periodically or continuously contain moving water, or connecting two bodies of standing water.

Palustrine wetlands are primarily vegetated non-channel environments of less than 8 hectares. They include billabongs, swamps, bogs, springs, soaks etc, and have more than 30% emergent vegetation.

Lacustrine wetlands are large, open, water-dominated systems (for example, lakes) larger than 8ha. This definition also applies to modified systems (for example, dams), which are similar to lacustrine systems (for example, deep, standing or slow-moving waters).

Marine wetlands include the area of ocean from the coastline or estuary, extending to the jurisdictional limits of Queensland waters (3 nautical mile limit). This definition differs from that in Ramsar, as it includes waters deeper than 6m below the lowest astronomical tide.

Estuarine wetlands are those with oceanic water sometimes diluted with freshwater run-off from the land.

Subterranean wetlands are wetlands occurring below the surface of the ground and that are fed by groundwater i.e. caves and aquifers. These wetlands provide water to groundwater dependent ecosystems.

Methodology and Wetland Classification: https://wetlandinfo.des.gld.gov.au/wetlands/facts-maps/wetland-background/

Links and support

Other sites that deliver wetland related information include:

Wetland Summary tool: https://wetlandinfo.des.gld.gov.au/wetlands/facts-maps/

Queensland Spatial Catalogue: http://qldspatial.information.qld.gov.au/catalogue/custom/index.page

Queensland Globe: https://qldglobe.information.qld.gov.au/

Environmental reports online: https://environment.ehp.qld.gov.au/report-request/environment/

Wetland on-line education modules: https://wetlandinfo.des.gld.gov.au/wetlands/resources/training/

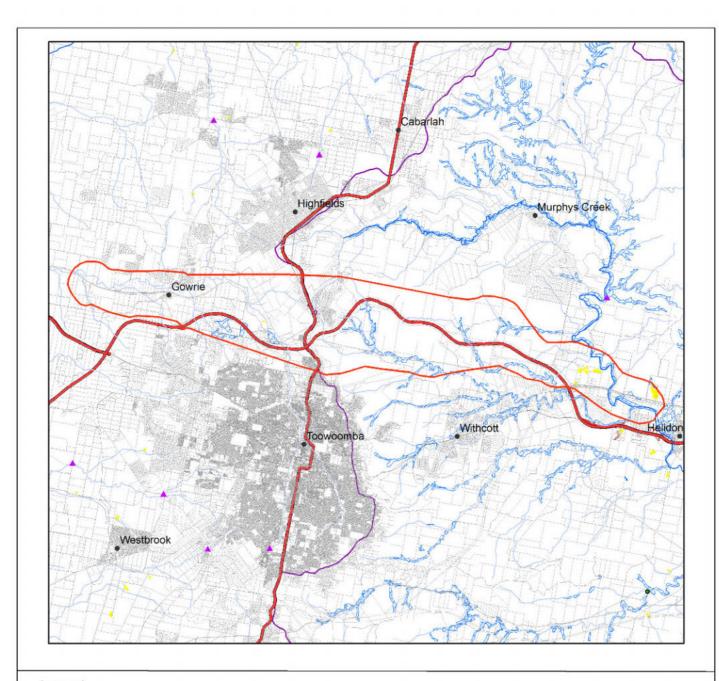
Regional Ecosystem Mapping information: :

https://www.qld.gov.au/environment/plants-animals/plants/herbarium/mapping-ecosystems

Aquatic Conservation Assessments: : https://wetlandinfo.des.gld.gov.au/wetlands/assessment/assessment-methods/aca/

Groundwater Dependant Ecosystems information:

https://wetlandinfo.des.gld.gov.au/wetlands/ecology/aquatic-ecosystems-natural/groundwater-dependent/



Legend polygon Springs Dams and weirs Towns Highways Roads Cadastral boundaries Sub-basin **Wetland Mapping** Wetland System - Water Bodies Marine Waterbodies Estuarine Waterbodies Riverine Waterbodies Lacustrine Waterbodies Palustrine Waterbodies Wetland System - Regional Ecosystems Marine RE Estuarine RE Riverine RE Lacustrine RE ZZ Palustrine RE RE 51_80% wetland (mosaic units) **Riverine System Drainage Lines** - Major

Minor

Queensland Wetland Map



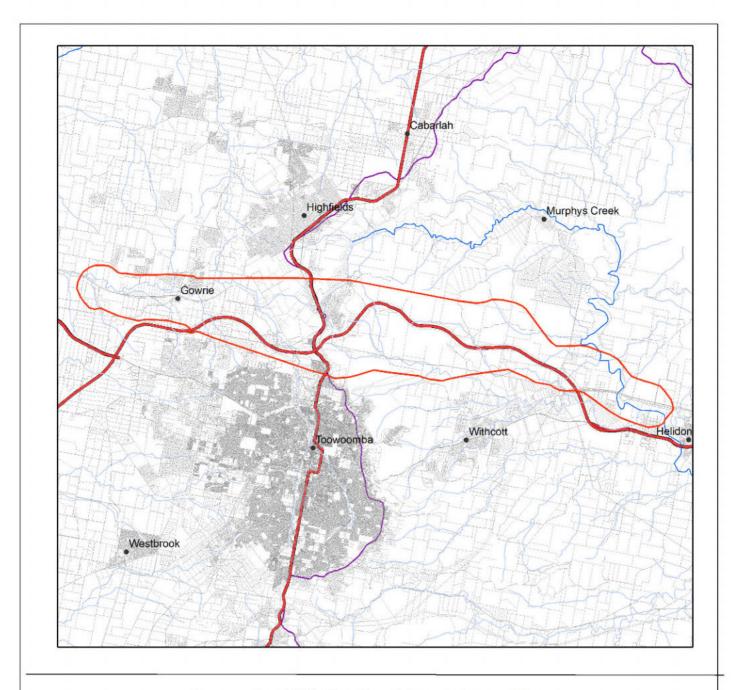


Horizontal Datum: Geographic Datum of Australia 1994 (GDA94)

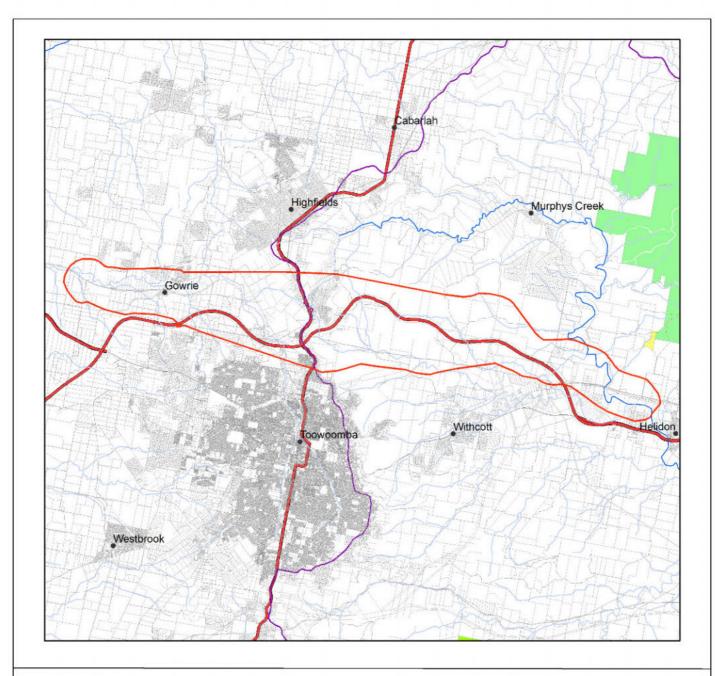
This map was produced by the Queensland Wetlands Program, Department of Environment and Science, March 2020.

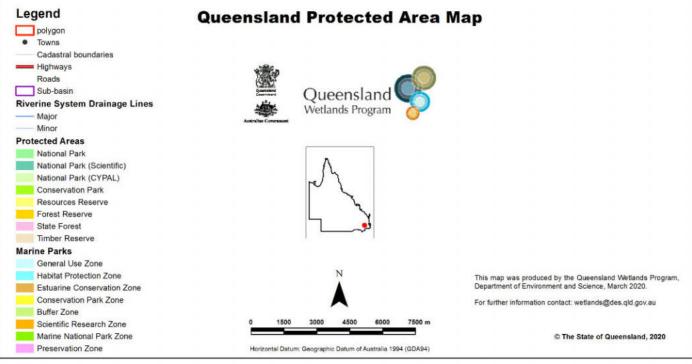
For further information contact: wetlands@des.qld.gov.au

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Queensland Wetlands of Importance Map Legend polygon Towns Cadastral boundaries Highways Queensland Roads Wetlands Program Sub-basin Directory of Important Wetlands Ramsar Wetlands **Riverine System Drainage Lines** - Major Minor This map was produced by the Queensland Wetlands Program, Department of Environment and Science, March 2020. For further information contact: wetlands@des.qld.gov.au © The State of Queensland, 2020 Horizontal Datum: Geographic Datum of Australia 1994 (GDA94)





Wetland Class	Habitat type	Area (ha)
Riverine	Riverine	310.0
Lacustrine	Artificial/ highly modified wetlands (dams, ring tanks, irrigation channel	29.4

Queensland wetland habitat typology: Major wetland habitat types for wetland conceptual models and wetland management profiles

Wetland name	Conceptual model	Wetland profile
Mangrove Wetlands	Not developed	Mangrove Wetlands
Saltmarsh Wetlands	Not developed	Saltmarsh Wetlands
Coastal and subcoastal saline swamps of all substrates, water regimes, topographic types and vegetation communities	Coastal and subcoastal saline swamps	Coastal grass-sedge wetlands
Coastal and subcoastal non-floodplain tree swamps (Melaleuca and Eucalypt) of all substrates and water regimes	Coastal and subcoastal non-floodplain tree swamps - melaleuca and eucalypt	Coastal and subcoastal tree swamps
Coastal and subcoastal non-floodplain wet heath swamps of all substrates and water regimes	Coastal and subcoastal non-floodplain wet heath swamps	Coastal and subcoastal wet heath swamps
Coastal and subcoastal non-floodplain grass, sedge and herb swamps of all substrates and water regimes	Coastal and subcoastal non-floodplain grass, sedge and herb swamps	Coastal grass-sedge wetlands
Coastal and subcoastal spring swamps of all substrates, water types, water regimes and vegetation communities	Coastal and subcoastal spring swamps	Great Artesian Basin spring wetlands
Coastal and subcoastal floodplain tree swamps - melaleuca and eucalypt of all substrates and water regimes	Coastal and subcoastal floodplain tree swamps - melaleuca and eucalypt	Coastal and subcoastal tree swamps
Coastal and subcoastal floodplain wet heath swamps of all substrates and water regimes	Coastal and subcoastal floodplain wet heath swamps	Coastal and subcoastal wet heath swamps
Coastal and subcoastal floodplain, grass, sedge herb swamps of all substrates and water regimes	Coastal and subcoastal floodplain grass, sedge, herb swamps	Coastal grass-sedge wetlands
Coastal and subcoastal tree swamps - palm of all substrates, topographic types and water regimes	Coastal and subcoastal floodplain tree swamps - palm	Coastal Palm Swamps
Coastal and subcoastal Floodplain Lakes of all substrates, water types and water regimes	Coastal and subcoastal Floodplain Lakes	Coastal and subcoastal floodplain lakes and non-floodplain soil lakes
Coastal and subcoastal non-floodplain rock lakes of all water types and water regimes	Coastal and subcoastal non-floodplain rock lakes	Coastal and subcoastal non-floodplain rock lakes
Coastal and subcoastal non-floodplain sand lakes (window) of all water types and water regimes	Coastal and subcoastal non-floodplain sand lakes - window	Coastal non-floodplain sand lakes
Coastal and subcoastal non-floodplain sand lakes (perched) of all water types and water regimes	Coastal and subcoastal non-floodplain sand lakes - perched	Coastal non-floodplain sand lakes
Coastal and subcoastal non-floodplain soil lakes of all water types and water regimes	Coastal and subcoastal non-floodplain soil lakes	Coastal and subcoastal floodplain lakes and non-floodplain soil lakes
Arid and semi-arid saline swamps of all substrates, water regimes, topographic types and vegetation communities	Arid and semi-arid saline swamps	Semi-arid swamps

Wetland name	Conceptual model	Wetland profile
Arid and semi-arid fresh tree swamps of all substrates, and water regimes and topographic types	Arid and semi-arid tree swamps	Arid swamps Semi-Arid swamps
Arid and semi-arid lignum swamps of all substrates, and water regimes and topographic types	Arid and semi-arid lignum swamps	Arid swamps Semi-Arid swamps
Arid and semi-arid grass, sedge, herb swamps of all substrates, water regimes and topographic types	Arid and semi-arid grass, sedge, herb swamps	Arid swamps Semi-Arid swamps
Arid and semi-arid fresh non-floodplain tree swamps of all substrates and water regimes	Arid and semi-arid non-floodplain tree swamps	Arid swamps Semi-Arid swamps
Arid and semi-arid fresh non-floodplain lignum swamps of all substrates and water regimes	Arid and semi-arid non-floodplain lignum swamps	Arid swamps Semi-Arid swamps
Arid and semi-arid fresh non-floodplain grass, sedge, herb swamps of all substrates and water regimes	Arid and semi-arid non-floodplain grass, sedge, herb swamps	Arid swamps Semi-Arid swamps
Arid and semi-arid, non-floodplain swamps - springs of all substrates, water regimes and vegetation communities	Arid and semi-arid spring swamps	Great Artesian Basin spring wetlands
Arid and semi-arid, saline lakes of all substrates, topographic types and water regimes	Arid and semi-arid saline lakes	Arid and semi-arid lakes
Arid and semi-arid, floodplain lakes of all, substrates and water regimes	Arid and semi-arid floodplain lakes	Arid and semi-arid lakes
Arid and semi-arid, non-floodplain Lakes of all substrates and water regimes	Arid and semi-arid non-floodplain lakes	Arid and semi-arid lakes
Arid/ semi-arid, non-floodplain (clay pans) lakes of all substrates and water regimes	Arid and semi-arid fresh non-floodplain lakes (clay pans)	Arid and semi-arid lakes
Arid and semi-arid, Permanent Lakes permanently inundated lakes of all substrates, water types, topographic types and vegetation communities	Arid and semi-arid permanent lakes	Arid and semi-arid lakes



Modelled potential habitat

For the selected area of interest 7965.7ha

Current as at 25/03/2020



Introduction

Species lists in this report are derived from Maxent pre-clear potential habitat models and buffered point coverages produced by the Queensland Herbarium for NCA listed 'endangered' or 'vulnerable' species, EPBC listed 'critically endangered', 'endangered' or 'vulnerable' species and other priority species.

The models utilise records of fauna species occurrence compiled for the purpose of Biodiversity Assessment by the Queensland Department of Environment and Resource Management (EPA 2002) and specimen backed flora records compiled from the Queensland Herbarium's Herbrecs database. All records have a location precision of better than 2000 m, and all fauna records are less than 50 years old. Models were constrained within an occurrence mask for each species, defined by a buffer of 200 km around a convex hull that encompasses all records. All models were based on seven environmental layers, annual mean temperature, temperature seasonality (coefficient of variation), annual precipitation, mean moisture index of the lowest quarter moisture index, pre-clearing broad vegetation group (1:1M), land zone and taxonomic ruggedness. Climate layers were modelled using Anuclim software on an 83 m digital elevation model. A mask of Queensland's road network was used to down-weight species records collected along roads. Model performance was assessed by comparing the area under the ROC curve (AUC) with the 95th percentile AUC from 1000 null models for each species created by randomly selecting locations from within the minimum convex hull of species presence records. For species with very restricted ranges, model performance was further tested using randomly selected locations from within the species mask. Thresholds were applied (either equal training sensitivity and specificity logistic threshold or 10th percentile training presence logistic threshold, whichever was highest) in order to convert model output to a prediction of potential habitat. Any presence records excluded by the threshold applied were incorporated into the output with a 1km buffer. The output was clipped to the species mask and simplified using a majority filter algorithm to remove outlying orphan cells in the model output. The resulting shapefile defines the modelled pre-clear potential habitat for selected threatened and priority species.

If a species is not listed in the report, it does not indicate that its habitat is absent from the queried location and conversely, species listed may not currently inhabit the area.

Threatened fauna species

Threatened fauna species modelled to have pre-clear potential habitat within the area of interest, with an area of 7965.7ha hectares

Threatened Species animals

Class	Scientific name	Common name	NCA Status	EPBC Status	Area (ha)
birds	Grantiella picta	painted honeyeater	٧	٧	5596.0
birds	Botaurus poiciloptilus	Australasian bittern	С	E	1676.49
birds	Rostratula australis	Australian painted snipe	٧	Е	5263.61
birds	Geophaps scripta scripta	squatter pigeon (southern subspecies)	V	٧	3809.27
birds	Cyclopsitta diophthalma coxeni	Coxen's fig-parrot	Е	Е	100.84
birds	Calyptorhynchus lathami	glossy black-cockatoo	٧	None	2480.49
birds	Lathamus discolor	swift parrot	E	CE	7271.59
birds	Ninox strenua	powerful owl	٧	None	3719.78
birds	Erythrotriorchis radiatus	red goshawk	E	٧	5977.05
birds	Anthochaera phrygia	regent honeyeater	Е	CE	44.39
birds	Turnix melanogaster	black-breasted button-quail	V	٧	2445.19
birds	Falco hypoleucos	grey falcon	V	None	29.08
insects	Jalmenus eubulus	pale imperial hairstreak	٧	None	174.97
mammals	Dasyurus maculatus maculatus	spotted-tailed quoll (southern subspecies)	V	E	902.44
mammals	Chalinolobus dwyeri	large-eared pied bat	V	٧	2264.09
mammals	Pseudomys novaehollandiae	New Holland mouse	٧	٧	962.74
mammals	Phascolarctos cinereus	koala	٧	٧	4018.7
mammals	Potorous tridactylus tridactylus	long-nosed potoroo	V	V	47.4
mammals	Petrogale penicillata	brush-tailed rock-wallaby	V	٧	1534.33
mammals	Nyctophilus corbeni	eastern long-eared bat	٧	٧	712.53
mammals	Dasyurus hallucatus	northern quoll	С	Е	780.95
mammals	Pteropus poliocephalus	grey-headed flying-fox	С	V	314.5
reptiles	Hemiaspis damelii	grey snake	E	None	3843.68
reptiles	Delma torquata	collared delma	٧	٧	4993.05

Class	Scientific name	Common name	NCA Status	EPBC Status	Area (ha)
reptiles	Tympanocryptis condaminensis	Condamine earless dragon	E	Е	342.79
reptiles	Anomalopus mackayi	long-legged worm-skink	E	٧	18.54
reptiles	Egernia rugosa	yakka skink	V	٧	3217.94

Threatened flora species

Threatened flora species modelled to have pre-clear potential habitat within the selected area

Class	Scientific name	Common name	NCA Status	EPBC Status	Area (ha)
higher dicots	Pomaderris coomingalensis	None	E	None	399.65
higher dicots	Micromyrtus carinata	Gurulmundi heath-myrtle	E	None	956.12
higher dicots	Phebalium distans	None	E	CE	1.52
higher dicots	Lepidium peregrinum	None	С	E	1412.01
higher dicots	Haloragis exalata subsp. velutina	None	٧	٧	3066.59
higher dicots	Eucalyptus virens	shiny-leaved ironbark	٧	٧	176.05
higher dicots	Eucalyptus taurina	Helidon ironbark	V	None	637.02
higher dicots	Solanum papaverifolium	None	E	None	734.87
higher dicots	Corynocarpus rupestris subsp. arborescens	southern corynocarpus	V	None	22.79
higher dicots	Eucalyptus dunnii	Dunn's white gum	V	None	351.16
higher dicots	Rutidosis lanata	None	NT	None	0.45
higher dicots	Polianthion minutiflorum	None	٧	٧	45.44
higher dicots	Picris evae	None	V	٧	703.64
higher dicots	Cadellia pentastylis	ooline	V	٧	249.31
higher dicots	Leionema obtusifolium	None	٧	٧	831.79
higher dicots	Cossinia australiana	None	E	E	4.11
higher dicots	Pomaderris clivicola	None	E	٧	186.38
higher dicots	Melaleuca irbyana	None	E	None	30.7
higher dicots	Thesium australe	toadflax	V	٧	4548.22
higher dicots	Leptospermum oreophilum	None	V	None	345.3
higher dicots	Rhaponticum australe	None	٧	٧	3208.63
higher dicots	Bertya opponens	None	С	٧	4962.33
higher dicots	Grevillea quadricauda	None	V	٧	283.52
higher dicots	Sophora fraseri	brush sophora	٧	٧	769.23
higher dicots	Picris barbarorum	None	٧	None	649.69
lower dicots	Clematis fawcettii	None	V	٧	907.4
monocots	Diuris parvipetala	None	٧	None	2779.78
monocots	Caustis blakei subsp. macrantha	None	٧	None	2377.95
monocots	Paspalidium grandispiculatum	None	٧	٧	965.93
monocots	Dichanthium setosum	None	С	٧	6648.54
monocots	Cyperus clarus	None	٧	None	4163.24
monocots	Bothriochloa bunyensis	Bunya Mountains bluegrass	v	V	780.98
monocots	Arthraxon hispidus	None	V	V	6882.27
monocots	Dichanthium queenslandicum	None	V	E	939.65
monocots	Sarcochilus weinthalii	blotched sarcochilus	E	٧	314.12

Links and support

Modelled potential habitat for selected threatened and priority species in Queensland - access the geodatabase of modelled potential habitat for Queensland's threatened species.

Disclaimer

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Department of Environment and Science

Environmental Reports

Regional Ecosystems

Biodiversity Status

For the selected area of interest

Environmental Reports - General Information

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or area of interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "central coordinates" option, the resulting assessment area encompasses an area extending for a 2km radius from the input coordinates.

All area and area derived figures included in this report have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.

Figures in tables may be affected by rounding.

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is not present within the AOI (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no matters of interest have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

Important Note to User

Information presented in this report is based upon the Queensland Herbarium's Regional Ecosystem framework. The Biodiversity Status has been used to depict the extent of "Endangered", "Of Concern" and "No Concern at Present" regional ecosystems in all cases, rather than the classes used for the purposes of the *Vegetation Management Act 1999* (VMA). Mapping and figures presented in this document reflect the Queensland Herbarium's Remnant and Pre-clearing Regional Ecosystem Datasets, and not the certified mapping used for the purpose of the VMA.

For matters relevant to vegetation management under the VMA, please refer to the Department of Natural Resources, Mines and Energy website

https://www.dnrme.gld.gov.au/

Please direct queries about these reports to: Queensland.Herbarium@dsiti.qld.gov.au

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Summary Information

The following table provides an overview of the AOI with respect to selected topographic and environmental themes. Refer to **Map 1** for locality information.

Table 1: Area of interest details:

Size (ha)	7,965.7
Local Government(s)	Lockyer Valley Regional, Toowoomba Regional
Bioregion(s)	Brigalow Belt, Southeast Queensland
Subregion(s)	Moreton Basin, Eastern Darling Downs
Catchment(s)	Balonne-Condamine, Brisbane

The table below summarizes the extent of remnant vegetation classed as "Endangered", "Of concern" and "No concern at present" regional ecosystems classified by Biodiversity Status within the area of interest (AOI).

Table 2: Summary table, biodiversity status of regional ecosystems within the AOI

Biodiversity Status	Area (Ha)	% of AOI
Endangered	167.26	2.1
Of concern	942.36	11.83
No concern at present	1,095.86	13.76
Total remnant vegetation	2,205.48	27.69

Refer to Map 2 for further information.

Regional Ecosystems

1. Introduction

Regional ecosystems are vegetation communities in a bioregion that are consistently associated with particular combinations of geology, landform and soil (Sattler and Williams 1999). Descriptions of Queensland's Regional ecosystems are available online from the Regional Ecosystem Description Database (REDD). Descriptions are compiled from a broad range of information sources including vegetation, land system and geology survey and mapping and detailed vegetation site data. The regional ecosystem classification and descriptions are reviewed as new information becomes available. A number of vegetation communities may form a single regional ecosystem and are usually distinguished by differences in dominant species, frequently in the shrub or ground layers and are denoted by a letter following the regional ecosystem code (e.g. a, b, c). Vegetation communities and regional ecosystems are amalgamated into a higher level classification of broad vegetation groups (BVGs).

A published methodology for survey and mapping of regional ecosystems across Queensland (Neldner et al 2017) provides further details on regional ecosystem concepts and terminology.

This report provides information on the type, status, and extent of vegetation communities, regional ecosystems and broad vegetation groups present within a user specified area of interest. Please note, for the purpose of this report, the Biodiversity Status is used. This report has not been developed for application of the *Vegetation Management Act 1999* (VMA). Additionally, information generated in this report has been derived from the Queensland Herbarium's Regional Ecosystem Mapping, and not the regulated mapping certified for the purposes of the VMA. If your interest/matter relates to regional ecosystems and the VMA, users should refer to the Department of Natural Resources, Mines and Energy website.

https://www.dnrme.qld.gov.au/

With respect to the Queensland Biodiversity Status,

"Endangered" regional ecosystems are described as those where:

- remnant vegetation is less than 10 per cent of its pre-clearing extent across the bioregion; or 10-30% of its pre-clearing extent remains and the remnant vegetation is less than 10,000 hectares, or
- · less than 10 per cent of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss*, or
- 10-30 per cent of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss and the remnant vegetation is less than 10,000 hectares; or
- it is a rare** regional ecosystem subject to a threatening process.***

"Of concern" regional ecosystems are described as those where:

- the degradation criteria listed above for 'Endangered' regional ecosystems are not met and,
- remnant vegetation is 10-30 per cent of its pre-clearing extent across the bioregion; or more than 20 per cent of its pre-clearing extent remains and the remnant extent is less than 10,000 hectares, or
- 10-30 percent of its pre-clearing extent remains unaffected by moderate degradation and/or biodiversity loss.****

and "No concern at present" regional ecosystems are described as those where:

- remnant vegetation is over 30 per cent of its pre-clearing extent across the bioregion, and the remnant area is greater than 10,000 hectares, and
- the degradation criteria listed above for 'Endangered' or 'Of concern' regional ecosystems are not met.

*Severe degradation and/or biodiversity loss is defined as: floristic and/or faunal diversity is greatly reduced but unlikely to recover within the next 50 years even with the removal of threatening processes; or soil surface is severely degraded, for example, by loss of A horizon, surface expression of salinity; surface compaction, loss of organic matter or sheet erosion.

**Rare regional ecosystem: pre-clearing extent (1000 ha); or patch size (100 ha and of limited total extent across its range).

***Threatening processes are those that are reducing or will reduce the biodiversity and ecological integrity of a regional ecosystem. For example, clearing, weed invasion, fragmentation, inappropriate fire regime or grazing pressure, or infrastructure development.

****Moderate degradation and/or biodiversity loss is defined as: floristic and/or faunal diversity is greatly reduced but unlikely to recover within the next 20 years even with the removal of threatening processes; or soil surface is moderately degraded.

2. Remnant Regional Ecosystems

The following table identifies the remnant regional ecosystems and vegetation communities mapped within the AOI and provides their short descriptions, Biodiversity Status, and remnant extent within the selected AOI. Please note, where heterogeneous vegetated patches (mixed patches of remnant vegetation mapped as containing multiple regional ecosystems) occur within the AOI, they have been split and listed as individual regional ecosystems (or vegetation communities where present) for the purposes of the table below. In such instances, associated area figures have been generated based upon the estimated proportion of each regional ecosystem (or vegetation community) predicted to be present within the larger mixed patch.

Table 3: Remnant regional ecosystems, description and status within the AOI

Regional Ecosystem	Short Description	BD Status	Area (Ha)	% of AOI
11.3.21	Dichanthium sericeum and/or Astrebla spp. grassland on alluvial plains. Cracking clay soils	Endangered	4.51	0.06
11.3.25	Eucalyptus tereticornis or E. camaldulensis woodland fringing drainage lines	Of concern	36.1	0.45
11.8.2a	Eucalyptus tereticornis, E. melliodora woodland on Cainozoic igneous rocks	No concern at present	99.35	1.25
11.8.4	Eucalyptus melanophloia open woodland on Cainozoic igneous rocks.	No concern at present	40.74	0.51
11.8.5	Eucalyptus orgadophila open woodland on Cainozoic igneous rocks	No concern at present	169.82	2.13
11.8.8	Eucalyptus albens, E. crebra woodland on Cainozoic igneous rocks	No concern at present	5.03	0.06
12.3.3	Eucalyptus tereticornis woodland on Quaternary alluvium	Endangered	10.45	0.13
12.3.3d	Eucalyptus tereticornis woodland on Quaternary alluvium	Endangered	0.03	less than 0.01
12.3.7	Eucalyptus tereticornis, Casuarina cunninghamiana subsp. cunninghamiana +/- Melaleuca spp. fringing woodland	Of concern	165.41	2.08
12.8.14	Eucalyptus eugenioides, E. biturbinata, E. melliodora +/- E. tereticornis, Corymbia intermedia open forest on Cainozoic igneous rocks	No concern at present	60.24	0.76
12.8.14a	Eucalyptus eugenioides, E. biturbinata, E. melliodora +/- E. tereticornis, Corymbia intermedia open forest on Cainozoic igneous rocks	No concern at present	25.3	0.32
12.8.17	Eucalyptus melanophloia +/- E. crebra, E. tereticornis, Corymbia tessellaris woodland on Cainozoic igneous rocks	No concern at present	112.07	1.41
12.8.21	Semi-evergreen vine thicket with Brachychiton rupestris on Cainozoic igneous rocks. Usually southern half of bioregion	Endangered	98.87	1.24
12.8.24	Corymbia citriodora subsp. variegata open forest on Cainozoic igneous rocks especially trachyte	Endangered	4.82	0.06
12.8.9	Lophostemon confertus open forest on Cainozoic igneous rocks	No concern at present	84.34	1.06
12.9-10.15	Semi-evergreen vine thicket with Brachychiton rupestris on sedimentary rocks	Endangered	48.59	0.61

Regional Ecosystem	Short Description	BD Status	Area (Ha)	% of AOI
12.9-10.17a	Eucalyptus acmenoides, E. major, E. siderophloia +/- Corymbia citriodora subsp. variegata open fores on sedimentary rocks	No concern at present	28.61	0.36
12.9-10.2	Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open forest on sedimentary rocks	No concern at present	433.01	5.44
12.9-10.3	Eucalyptus moluccana open forest on sedimentary rocks	Of concern	100.77	1.27
12.9-10.5a	Woodland complex often with Corymbia trachyphloia subsp. trachyphloia, C. citriodora subsp. variegata, Eucalyptus crebra, E. fibrosa subsp. fibrosa on quartzose sandstone	No concern at present	37.33	0.47
12.9-10.7	Eucalyptus crebra +/- E. tereticornis, Corymbia tessellaris, Angophora spp., E. melanophloia woodland on sedimentary rocks	Of concern	640.07	8.04
non-rem	None	None	5,760.32	72.31

Refer to Map 2 for further information. Map 3 also provides a visual estimate of the distribution of regional ecosystems present before clearing.

Table 4 provides further information in regards to the remnant regional ecosystems present within the AOI. Specifically, the extent of remnant vegetation remaining within the bioregion, the 1:1,000,000 broad vegetation group (BVG) classification, whether the regional ecosystem is identified as a wetland, and extent of representation in Queensland's Protected Area Estate. For a description of the vegetation communities within the AOI and classified according to the 1:1,000,000 BVG, refer to **Table 6**.

Table 4: Remnant regional ecosystems within the AOI, additional information

Regional Ecosystem	Remnant Extent	BVG (1 Million)	Wetland	Representation in protected estate
11.3.21	Pre-clearing 448000 ha; Remnant 2017 52000 ha	30a	Floodplain (other than floodplain wetlands).	Low
11.3.25	Pre-clearing 795000 ha; Remnant 2017 512000 ha	16a	Riverine wetland or fringing riverine wetland.	Low
11.8.2a	Pre-clearing 53000 ha; Remnant 2017 36000 ha	11a	None	High
11.8.4	Pre-clearing 217000 ha; Remnant 2017 151000 ha	11a	None	High
11.8.5	Pre-clearing 631000 ha; Remnant 2017 347000 ha	11a	None	Low
11.8.8	Pre-clearing 80000 ha; Remnant 2017 36000 ha	11a	None	Low
12.3.3	Pre-clearing 438000 ha; Remnant 2017 40000 ha	16c	Floodplain (other than floodplain wetlands).	Low
12.3.3d	Pre-clearing 438000 ha; Remnant 2017 40000 ha	13d	Floodplain (other than floodplain wetlands).	Low
12.3.7	Pre-clearing 118000 ha; Remnant 2017 60000 ha	16a	Riverine wetland or fringing riverine wetland.	Low
12.8.14	Pre-clearing 77000 ha; Remnant 2017 45000 ha	11a	None	High
12.8.14a	Pre-clearing 77000 ha; Remnant 2017 45000 ha	13d	None	High

Regional Ecosystem	Remnant Extent	BVG (1 Million)	Wetland	Representation in protected estate
12.8.17	Pre-clearing 77000 ha; Remnant 2017 28000 ha	11a	None	Medium
12.8.21	Pre-clearing 23000 ha; Remnant 2017 3000 ha	7a	Contains riverine wetland.	Medium
12.8.24	Pre-clearing 13000 ha; Remnant 2017 4000 ha	10b	None	Medium
12.8.9	Pre-clearing 13000 ha; Remnant 2017 11000 ha	8a	None	High
12.9-10.15	Pre-clearing 38000 ha; Remnant 2017 5000 ha	7a	None	Low
12.9-10.17a	Pre-clearing 65000 ha; Remnant 2017 31000 ha	28e	None	Medium
12.9-10.2	Pre-clearing 222000 ha; Remnant 2017 87000 ha	10b	None	Low
12.9-10.3	Pre-clearing 95000 ha; Remnant 2017 27000 ha	13d	None	Low
12.9-10.5a	Pre-clearing 28000 ha; Remnant 2017 20000 ha	9h	None	High
12.9-10.7	Pre-clearing 248000 ha; Remnant 2017 41000 ha	13c	None	Low
non-rem	None	None	None	None

Representation in Protected Area Estate: High greater than 10% of pre-clearing extent is represented; Medium 4 - 10% is represented; Low less than 4% is represented, No representation.

The distribution of mapped wetland systems within the area of interest is displayed in Map 6.

The following table lists known special values associated with a regional ecosystem type.

Table 5: Remnant regional ecosystems within the AOI, special values

Regional Ecosystem	Special Values
11.3.21	Habitat for threatened flora species including Thesium australe, Picris evae, Dichanthium queenslandicum and the near threatened flora species Digitaria porrecta and fauna species including grassland earless dragon Tympanocryptis pinguicolla, five-clawed worm skink Anomalopus mackayi and grey snake Hemiaspis damelii.
11.3.25	Shown to be associated with a high fauna species richness in the Taroom area (Venz et al. 2002). Within parts of the Fitzroy catchment, this RE is known habitat for the threatened freshwater turtle Rheodytes leukops. Known to be important habitat for other riparian freshwater turtle species.
11.8.2a	Potential habitat for NCA listed species: Discaria pubescens, Homopholis belsonii, Picris evae, Prasophyllum incompositum, Thesium australe
11.8.4	Potential habitat for NCA listed species: Acacia arbiana, Acacia islana, Bertya pedicellata, Grevillea hockingsii, Haloragis exalata subsp. velutina, Marsdenia brevifolia, Sannantha brachypoda
11.8.5	In southern part of bioregion, habitat for a number of threatened plant species including Picris evae and Thesium australe and near threatened species Digitaria porrecta and Discaria pubescens.

Regional Ecosystem	Special Values	
11.8.8	Potential habitat for NCA listed species: Diuris parvipetala, Picris barbarorum, Picris evae, Pomaderris crassifolia, Thesium australe	
12.3.3	Habitat for threatened plant species including Rhaponticum australe 12.3.3a: Habitat for threatened plant species including occasional Rhaponticum australe. 12.3.3b: Habitat for threatened flora species including Melaleuca irbyana. 12.3.3c: Habitat for threatened flora species including Melaleuca irbyana and Marsdenia coronata. 12.3.3d: Habitat for threatened plant species including Rhaponticum australe.	
12.3.3d	Habitat for threatened plant species including Rhaponticum australe. 12.3.3a: Habitat for threatened plant species including occasional Rhaponticum australe. 12.3.3b: Habitat for threatened flora species including Melaleuca irbyana. 12.3.3c: Habitat for threatened flora species including Melaleuca irbyana and Marsdenia coronata. 12.3.3d: Habitat for threatened plant species including Rhaponticum australe.	
12.3.7	Habitat for an extensive range of aquatic flora and fauna.	
12.8.14	Habitat for threatened plant species including Sophora fraseri, Marsdenia longiloba 12.8.14a: Habitat for threatened plant species including Sophora fraseri, Marsdenia longiloba 12.8.14b: Habitat for threatened plant species including Sophora fraseri, Marsdenia longiloba 12.8.14x1: Habitat for threatened flora species including Sophora fraseri.	
12.8.14a	Habitat for threatened plant species including Sophora fraseri, Marsdenia longiloba 12.8.14a: Habitat for threatened plant species including Sophora fraseri, Marsdenia longiloba 12.8.14b: Habitat for threatened plant species including Sophora fraseri, Marsdenia longiloba 12.8.14x1: Habitat for threatened flora species including Sophora fraseri.	
12.8.17	Habitat for threatened plant species including Rhaponticum australe.	
12.8.21	Habitat for near threatened plant species including Callitris baileyi and Cryptocarya floydii.	
12.8.24	Potential habitat for NCA listed species: Notelaea lloydii	
12.8.9	Potential habitat for NCA listed species: Eucalyptus dunnii, Mallotus megadontus	
12.9-10.15	Habitat for vulnerable plant species Cupaniopsis tomentella and Phebalium distans, and near threatened plant species including Callitris baileyi.	
12.9-10.17a	Potential habitat for NCA listed species: Acacia acrionastes, Arundinella grevillensis, Cupaniopsis tomentella, Gonocarpus hirtus, Grevillea linsmithii, Leionema obtusifolium, Macrozamia pauli-guilielmi, Marsdenia coronata, Marsdenia longiloba, Notelaea I	
12.9-10.2	Habitat for threatened plant species including Notelaea lloydii, Grevillea quadricauda, Westringia sericea, Plectranthus habrophyllus	
12.9-10.3	Potential habitat for NCA listed species: Callitris baileyi, Haloragis exalata subsp. velutina, Picris conyzoides, Sophora fraseri	

Regional Ecosystem Special Values		
12.9-10.5a	Habitat for threatened plant species including Leucopogon recurvisepalus, Paspalidium grandispiculatum, Leionema obtusifolium and near threatened species including Eucalyptus curtisii. 12.9-10.5a: Habitat for threatened plant species including Eucalyptus taurina, Caustis blakei subsp. macrantha, Paspalidium grandispiculatum, Leionema obtusifolium and Grevillea quadricauda 12.9-10.5b: Habitat for threatened flora species including Paspalidium grandispiculatum. 12.9-10.5d: Habitat for threatened plant species including Sophora fraseri.	
12.9-10.7 Potential habitat for NCA listed species: Callitris baileyi, Graptophyllum reticulatum, Melaleuca formosa, Melaleuca Paspalidium grandispiculatum, Plectranthus habrophyllus Polianthion minutiflorum, Zieria inexpectata		
non-rem	None	

3. Remnant Regional Ecosystems by Broad Vegetation Group

BVGs are a higher-level grouping of vegetation communities. Queensland encompasses a wide variety of landscapes across temperate, wet and dry tropics and semi-arid climatic zones. BVGs provide an overview of vegetation communities across the state or a bioregion and allow comparison with other states. There are three levels of BVGs which reflect the approximate scale at which they are designed to be used: the 1:5,000,000 (national), 1:2,000,000 (state) and 1:1,000,000 (regional) scales.

A comprehensive description of BVGs is available at:

https://publications.gld.gov.au/dataset/redd/resource/

The following table provides a description of the 1:1,000,000 BVGs present and their associated extent within the AOI.

Table 6: Broad vegetation groups (1 million) within the AOI

BVG (1 Million)	Description	Area (Ha)	% of AOI
None	None	5,760.32	72.31
10b	Moist open forests to woodlands dominated by Corymbia citriodora (spotted gum). (land zones 12, 11, 9, 5, 8) (SEQ, CQC, EIU, WET)	437.84	5.5
11a	Moist to dry open forests to woodlands dominated by Eucalyptus orgadophila (mountain coolibah). Some areas dominated by E. tereticornis (blue gum), E. melliodora (yellow box), E. albens (white box), E. crebra (narrow-leaved red ironbark) or E. melanophloia (silver-leaved ironbark). (land zones 8, 11, 4, [3]) (BRB, SEQ, EIU)	487.26	6.12
13c	Woodlands of Eucalyptus crebra (sens. lat.) (narrow-leaved red ironbark), E. drepanophylla (grey ironbark), E. fibrosa (dusky-leaved ironbark), E. shirleyi (shirley's silver-leaved ironbark) on granitic and metamorphic ranges (land zones 12, 11, 9, [5]) (BRB, EIU, SEQ, NET, CQC)	640.07	8.04
13d	Woodlands dominated by Eucalyptus moluccana (gum-topped box) (or E. microcarpa (inland grey box)) on a range of substrates. (land zone 5, 9, 3, 11, 12) (BRB, SEQ, EIU, CQC, [NET, WET])	126.1	1.58

BVG (1 Million)	Description	Area (Ha)	% of AOI
16a	Open forest and woodlands dominated by Eucalyptus camaldulensis (river red gum) (or E. tereticornis (blue gum)) and/or E. coolabah (coolabah) (or E. microtheca (coolabah)) fringing drainage lines. Associated species may include Melaleuca spp., Corymbia tessellaris (carbeen), Angophora spp., Casuarina cunninghamiana (riveroak). Does not include alluvial areas dominated by herb and grasslands or alluvial plains that are not flooded. (land zone 3) (MGD, BRB, GUP, CHC, MUL, DEU, EIU, NWH, SEQ, [NET, WET]) (All bioregions except CYP and CQC)	201.51	2.53
16c	Woodlands and open woodlands dominated by Eucalyptus coolabah (coolabah) or E. microtheca (coolabah) or E. largiflorens (black box) or E. tereticornis (blue gum) or E. chlorophylla on floodplains. Does not include alluvial areas dominated by herb and grasslands or alluvial plains that are not flooded. (land zone 3) (All bioregions except WET, principally GUP, BRB, MUL).	10.45	0.13
28e	Low open forest to woodlands dominated by Lophostemon suaveolens (swamp box) (or L. confertus (brush box)) or Syncarpia glomulifera (turpentine) frequently with Allocasuarina spp. on rocky hill slopes. (land zones 12, 9, 3, 11, [10, 8]) (CQC, WET, SEQ, BRB, [CYP])	28.61	0.36
30a	Tussock grasslands dominated by Astrebla spp. (mitchell grass) or Dichanthium spp. (bluegrass) often with Eulalia aurea (silky browntop) on alluvia. (land zones 3, 4) (MGD, GUP, BRB, MUL, [DEU])	4.51	0.06
7a	Semi-evergreen vine thickets on wide range of substrates. (land zones 8, 9, 11, 12, 5, 4, 3, 10, [7]) (BRB, EIU, SEQ, CQC, [WET, GUP]) (Tracey 1982 11)	147.46	1.85
8a	Wet tall open forest dominated by species such as Eucalyptus grandis (flooded gum) or E. saligna, E. resinifera (red mahogany), Lophostemon confertus (brush box), Syncarpia glomulifera (turpentine), E. laevopinea (silvertop stringybark). Contains a well developed understorey of rainforest components, including ferns and palms, or the understorey may be dominated by sclerophyll shrubs. (land zones 12, 8, 10, 11, 3, 5, 9) (SEQ, WET, BRB, CQC, [NET])	84.34	1.06
9h	Dry woodlands dominated by species such as Eucalyptus acmenoides (narrow-leaved white stringybark) (or E. portuensis), E. tereticornis (blue gum), Angophora leiocarpa (rusty gum), Corymbia trachyphloia (yellow bloodwood) or C. intermedia (pink bloodwood), and often ironbarks including E. crebra (narrow-leaved red ironbark) or E. fibrosa (dusky-leaved ironbark). A heathy shrub layer is frequently present. On undulating to hilly terrain. (land zones 12, 11, [5]) (SEQ, BRB)	37.33	0.47

Refer to **Map 4** for further information. **Map 5** also provides a representation of the distribution of vegetation communities as per the 1:5,000,000 BVG believed to be present prior to European settlement.

4. Technical and BioCondition Benchmark Descriptions

Technical descriptions provide a detailed description of the full range in structure and floristic composition of regional ecosystems (e.g. 11.3.1) and their component vegetation communities (e.g. 11.3.1a, 11.3.1b). See:

http://www.gld.gov.au/environment/plants-animals/plants/ecosystems/technical-descriptions/

The descriptions are compiled using site survey data from the Queensland Herbarium's CORVEG database. Distribution maps, representative images (if available) and the pre-clearing and remnant extent (hectares) of each vegetation community

derived from the regional ecosystem mapping data are included. The technical descriptions should be used in conjunction with the fields from the regional ecosystem description database (REDD) for a full description of the regional ecosystem.

Technical descriptions include data on canopy height, canopy cover and native plant species composition of the predominant layer, which are attributes relevant to assessment of the remnant status of vegetation under the *Vegetation Management Act* 1999. However, as technical descriptions reflect the full range in structure and floristic composition across the climatic, natural disturbance and geographic range of the regional ecosystem, local reference sites should be used for remnant assessment where possible (Neldner et al. 2012 (PDF)* section 3.3.1 of:

https://publications.qld.gov.au/dataset/redd/resource/

The technical descriptions are subject to review and are updated as additional data becomes available.

When conducting a BioCondition assessment, these technical descriptions should be used in conjunction with BioCondition benchmarks for the specific regional ecosystem, or component vegetation community.

http://www.gld.gov.au/environment/plants-animals/biodiversity/benchmarks/

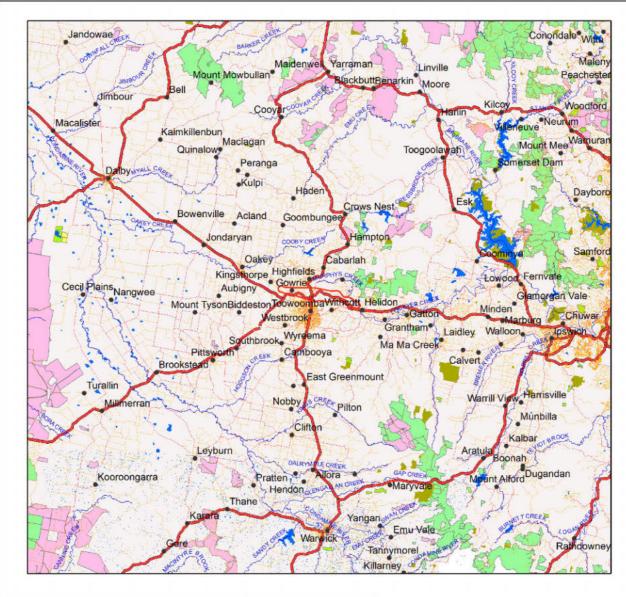
Benchmarks are based on a combination of quantitative and qualitative information and should be used as a guide only. Benchmarks are specific to one regional ecosystem vegetation community, however, the natural variability in structure and floristic composition under a range of climatic and natural disturbance regimes has been considered throughout the geographic extent of the regional ecosystem. Local reference sites should be used for this spatial and temporal (seasonal and annual) variability.

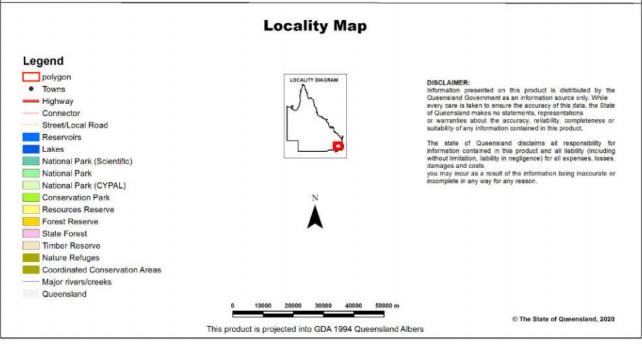
Table 7: List of remnant regional ecosystems within the AOI for which technical and biocondition benchmark descriptions are available

Regional ecosystems mapped as within the AOI	Technical Descriptions	Biocondition Benchmarks	
11.3.21	Not currently available	Not currently available	
11.3.25	Available	Not currently available	
11.8.2a	Available	Not currently available	
11.8.4	Available	Not currently available	
11.8.5	Available	Not currently available	
11.8.8	Available	Not currently available	
12.3.3	Available	Not currently available	
12.3.3d	Available	Not currently available	
12.3.7	Available	Not currently available	
12.8.14	Available	Not currently available	
12.8.14a	Not currently available	Not currently available	
12.8.17	Available	Not currently available	
12.8.21	Not currently available	Not currently available	
12.8.24	Not currently available	Not currently available	
12.8.9	Not currently available	Not currently available	
12.9-10.15	Not currently available	Not currently available	
12.9-10.17a	Not currently available	Not currently available	
12.9-10.2	Available	Not currently available	
12.9-10.3	Available	Not currently available	
12.9-10.5a	Available	Not currently available	
12.9-10.7	Available	Not currently available	
non-rem	Not currently available	Not currently available	

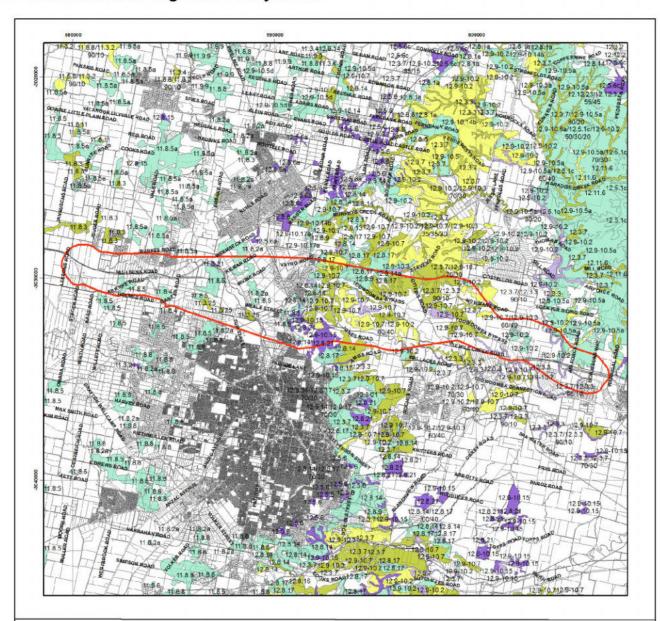
Maps

Map 1 - Location

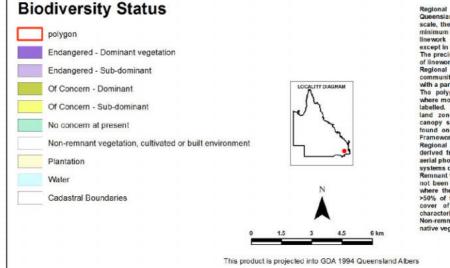




Map 2 - Remnant 2017 regional ecosystems



Remnant 2017 Regional Ecosystems



Regional ecosystem mapping over the majority of Queensland is produced at a scale of 1:100,000. At this scale, the minimum remnant polygon area is 5 hectares or minimum remnant width of 75 metres. Regional ecosystem linework reproduced at a scale greater than 1:100,000, except in designated areas, should be used as a guide only. The precision of polygon boundaries or positional accuracy of linework is 100 metres. Regional ecosystems are defined as vegetation communities in a bioregion that are consistently associated with a particular combination of geology, landform and soil. The polygons are labolled by regional ecosystem (RE); where more than one RE occurs, the porcentage of each is labelled. The label consists of 3 components: bioregion, land zone, and vegetation community — the dominant canopy species. e.g.: RE 12.3. Descriptions of REs are found online. Use the search term "Regional Ecosystem Framework".

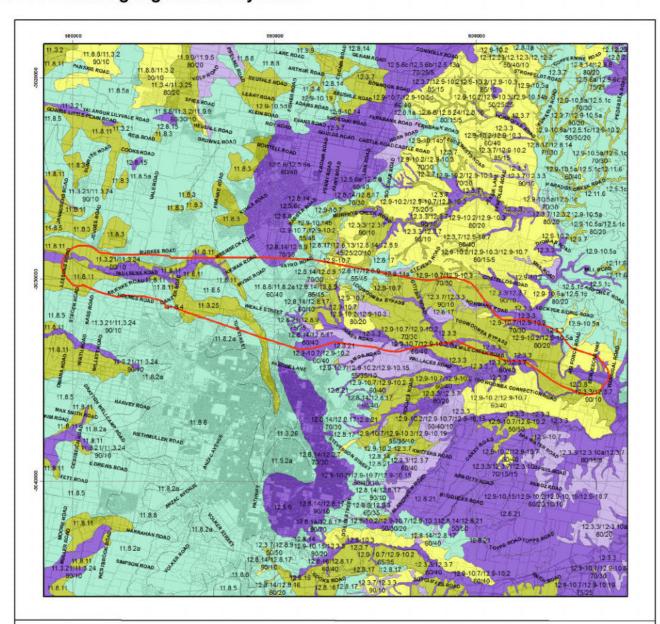
Framework".

Regional ecosystem mapping at 1:100,000 map scale is derived from the following sources: 1:80,000 B&W 1960's aerial photography, Landsat TM imagery, geology, soils, land systems data, field survey and historical records.

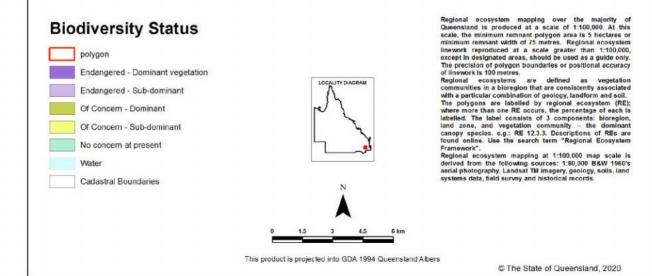
Remnant woody vegetation is defined as vegetation that has not been cleared or vegetation that has been cleared but where the dominant canopy has >70% of the height and >50% of the cover relative to the undisturbed height and cover of that stratum and is dominated by species characteristic of the vegetation's undisturbed canopy. Non-remnant vegetation includes regrowth and disturbed native vegetation.

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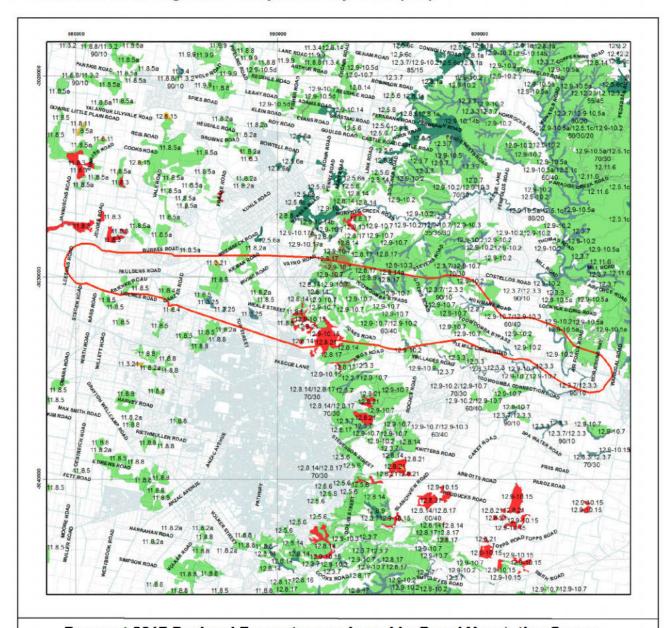
Map 3 - Pre-clearing regional ecosystems



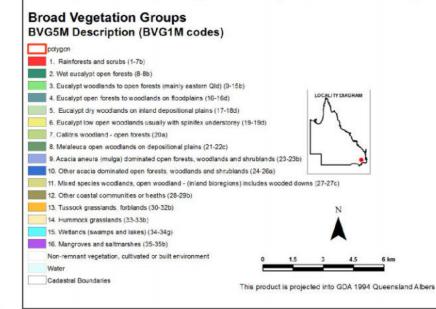
Pre-clearing Regional Ecosystems



Map 4 - Remnant 2017 regional ecosystems by BVG (5M)



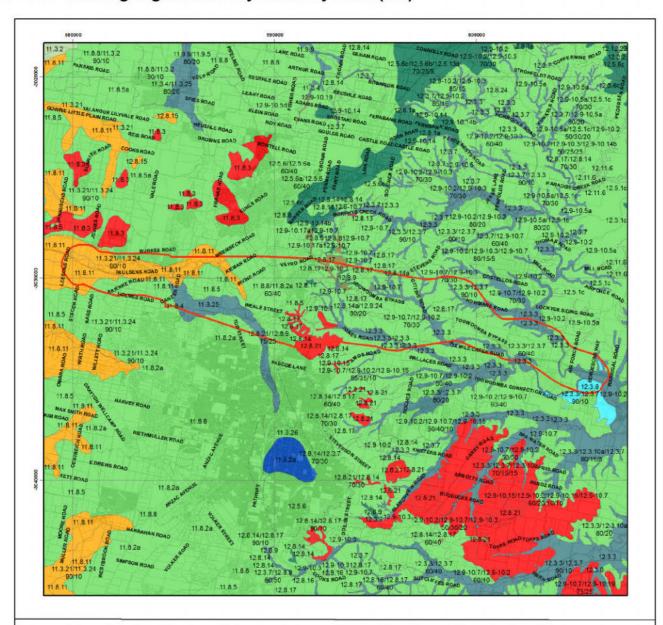
Remnant 2017 Regional Ecosystems coloured by Broad Vegetation Groups



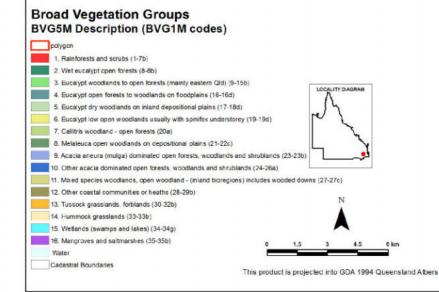
Broad Vegetation Groups (BVG) of Queensland are applied by lock up table to the regional ecosystem vegetation communities. Each polygon is coloured by the dominant BVGSM and the component regional ecosystems labelled. Where more than one regional ecosystem occurs, the percentage of each is labelled. Regional ecosystem mapping over the majority of Queensland is produced at a scale of 1:100,000. At this scale, the minimum remnant polygon area is 5 hectares or minimum remnant width of 75 metres. Regional ecosystem linework reproduced at a scale greater than 1:100,000, except in designated areas, should be used as a guide only. The precision of polygon boundaries or positional accuracy of linework is 100 metres. Regional ecosystems are defined as vegetation communities in a bioregion that are consistently associated with a particular combination of geology, landform and soil. The label consists of 3 components: bioregion, land zone, and vegetation community - the dominant canopy species. e.g.: RE 12.3.3. Descriptions of REs are found online. Use the search term "Regional Ecosystem Framework". Regional ecosystem mapping at 1:100,000 map scale is derived from the following sources: 1:80,000 B&W 1960's aerial photography, Landsat TM Imagery, geology, solls, land systems data, field survey and historical records. Remnant woody vegetation is defined as vegetation that has not been cleared or vegetation that has been cleared but where the dominant canopy has >70% of the height and cover of that stratum and is dominated by species characteristic of the vegetation includes regrowth and disturbed native vegetation.

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Map 5 - Pre-clearing regional ecosystems by BVG (5M)



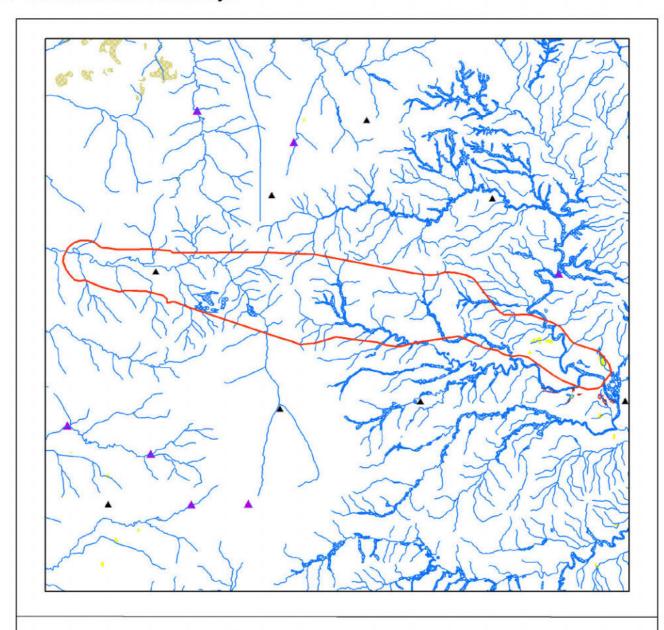
Pre-clearing Regional Ecosystems coloured by Broad Vegetation Groups

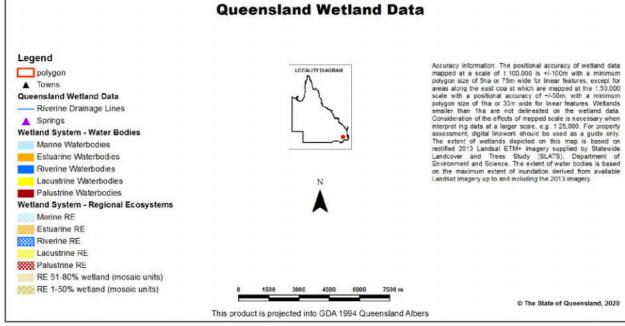


Broad Vegetation Groups (BVG) of Queensland are applied by look up table to the regional ecosystem vegetation communities. Each polygon is coloured by the dominant BVGSM and the component regional ecosystem cocurs, the percentage of each is labelled. Regional ecosystem occurs, the percentage of each is labelled. Regional ecosystem mapping over the majority of Queensland is produced at a scale of 1:100,000. At this scale, the minimum remnant polygon area is 5 hectares or minimum remnant width of 75 metres. Regional ecosystem linework reproduced at a scale greater than 1:100,000, except in designated areas, should be used as a guide only. The precision of polygon boundaries or positional accuracy of linework is 100 metres. Regional ecosystems are defined as vogetation communities in a bioregion that are consistently associated with a particular combination of geology, landform and soil. The label consists of 3 components: bioregion, land zone, and vegetation community — the dominant canopy species. e.g.: RE 12.3.3. Descriptions of REs are found online. Use the search term "Regional Ecosystem Framework".
Regional ecosystem mapping at 1:100,000 map scale is derived from the following sources: 1:80,000 B&W 1960's aerial photography, Landsat TM Imagery, geology, solls, land systems data, field survey and historical records.

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Map 6 - Wetlands and waterways





Links and Other Information Sources

The Department of Environment and Science's Website -

http://www.qld.gov.au/environment/plants-animals/plants/ecosystems/

provides further information on the regional ecosystem framework, including access to links to the Regional Ecosystem Database, Broad Vegetation Group Definitions, Regional Ecosystem and Land zone descriptions.

Descriptions of the broad vegetation groups of Queensland can be downloaded from:

https://publications.gld.gov.au/dataset/redd/resource/

The methodology for mapping regional ecosystems can be downloaded from:

https://publications.gld.gov.au/dataset/redd/resource/

Technical descriptions for regional ecosystems can be obtained from:

http://www.gld.gov.au/environment/plants-animals/plants/ecosystems/technical-descriptions/

Benchmarks can be obtained from:

http://www.qld.gov.au/environment/plants-animals/biodiversity/benchmarks/

For further information associated with the remnant regional ecosystem dataset used by this report, refer to the metadata associated with the Biodiversity status of pre-clearing and Remnant Regional Ecosystems of Queensland dataset (version listed in **Appendix 1**) which is available through the Queensland Government Information System portal,

http://dds.information.qld.gov.au/dds/

The Queensland Globe is a mapping and data application. As an interactive online tool, Queensland Globe allows you to view and explore Queensland maps, imagery (including up-to-date satellite images) and other spatial data, including regional ecosystem mapping. To further view and explore regional ecosystems over an area of interest, access the Biota Globe (a component of the Queensland Globe). The Queensland Globe can be accessed via the following link:

http://www.dnrm.qld.gov.au/mapping-data/queensland-globe

References

Neldner, V.J., Niehus R.E., Wilson, B.A. McDonald, W.J.F., Ford, A.J. and Accad, A. (2017) The Vegetation of Queensland. Descriptions of Broad Vegetation Groups. Version 3.0. Queensland Herbarium, Department of Science, Information Technology, Innovation and the Arts.

(https://publications.qld.gov.au/dataset/redd/resource/78209e74-c7f2-4589-90c1-c33188359086)

Neldner, V.J., Wilson, B.A., Dillewaard, H.A., Ryan, T.S. and Butler, D.W. (2017) *Methodology for Survey and Mapping of Regional Ecosystems and Vegetation Communities in Queensland*. Version 4.0. Queensland Herbarium, Department of Science, Information Technology, Innovation and the Arts.

(https://publications.gld.gov.au/dataset/redd/resource/6dee78ab-c12c-4692-9842-b7257c2511e4)

Sattler, P.S. and Williams, R.D. (eds) (1999). *The Conservation Status of Queensland's Bioregional Ecosystems*. Environmental Protection Agency, Brisbane.

Appendices

Appendix 1 - Source Data

The dataset listed below is available for download from:

http://www.gld.gov.au/environment/plants-animals/plants/ecosystems/download/

· Regional Ecosystem Description Database

The datasets listed below are available for download from:

http://dds.information.qld.gov.au/dds/

- · Biodiversity status of pre-clearing and 2017 remnant regional ecosystems of Queensland
- Pre-clearing Vegetation Communities and Regional Ecosystems of Queensland
- · Queensland Wetland Data Version Wetland lines
- · Queensland Wetland Data Version Wetland points
- · Queensland Wetland Data Version Wetland areas

Appendix 2 - Acronyms and Abbreviations

AOI - Area of Interest

GDA94 - Geocentric Datum of Australia 1994

GIS - Geographic Information System

RE - Regional Ecosystem

REDD - Regional Ecosystem Description Database

VMA - Vegetation Management Act 1999

Appendix E

Flora Species List

Family	Species name	Common name	Conservation status (NC Act)	Native/ non-native	Restricted matter	WoNS
Acanthaceae	Brunoniella australis	Blue trumpet	LC	Native		
Adiantaceae	Adiantum species		LC	Native		
Adiantaceae	Cheilanthes distans	Bristly cloak fern	SLC	Native		
Amaranthaceae	Alternanthera pungens	Khaki weed		Non-native		
Amaranthaceae	Gomphrena celosioides	Gomphrena weed		Non-native		
Apocynaceae	Alstonia constricta	Bitterbark	LC	Native		
Apocynaceae	Alyxia ruscifolia	Prickly alyxia	LC	Native		
Apocynaceae	Carissa ovata	Currantbush	LC	Native		
Apocynaceae	Gomphocarpus physocarpus	Balloon cottonbush		Non-native		
Apocynaceae	Marsdenia coronata	Slender Milkvine	V	Native		
Apocynaceae	Parsonsia species		LC	Native		
Araliaceae	Hydrocotyle acutiloba		LC	Native		
Arecaceae	Syagrus romanzoffiana	Queen palm		Non-native		
Asparagaceae	Asparagus plumosus	Feathered asparagus fern		Non-native	Category 3	Yes
Asteraceae	Baccharis halimifolia	groundsel bush		Non-native	Category 3	
Asteraceae	Bidens pilosa	Cobbler's pegs		Non-native		
Asteraceae	Calotis cuneifolia	Burr daisy	LC	Native		
Asteraceae	Calotis hispidula	Bogan flea	LC	Native		
Asteraceae	Cassinia laevis		LC	Native		
Asteraceae	Chrysocephalum apiculatum	Yellow buttons	LC	Native		
Asteraceae	Cirsium vulgare	Spear thistle	LC	Native		
Asteraceae	Conyza bonariensis			Non-native		
Asteraceae	Conyza canadensis	Fleabane		Non-native		
Asteraceae	Parthenium hysterophorus	Parthenium weed		Non-native	Category 3	Yes
Asteraceae	Pterocaulon sphacelatum	Applebush	LC	Native		
Asteraceae	Senecio madagascariensis	Fireweed		Non-native Category 3		Yes
Asteraceae	Senecio sp.	Native fireweed	LC	Native		
Asteraceae	Tagetes minuta	Stinking roger		Non-native		



Family	Species name	Common name	Conservation status (NC Act)	Native/ non-native	Restricted matter	WoNS
Asteraceae	Vittadinia pterochaeta	Rough fuzzweed	LC	Native		
Basellaceae	Anredera cordifolia	Madeira vine		Non-native	Category 3	Yes
Bignoniaceae	Dolichandra unguis-cati	Cat's claw creeper		Non-native	Category 3	Yes
Bignoniaceae	Pandorea pandorana	Wonga vine	LC	Native		
Blechnaceae	Blechnum nudum	Fishbone water fern	LC	Native		
Boraginaceae	Heliotropium amplexicaule	Blue heliotrope	LC	Native		
Brassicaceae	Brassica rapa subsp. campestris			Non-native		
Brassicaceae	Capsella bursapastoris	Shepherd's purse		Non-native		
Brassicaceae	Lepidium bonariense	Argentine peppercress		Non-native		
Brassicaceae	Rapistrum rugosum	Turnip weed		Non-native		
Brassicaceae	Sisymbrium thellungii	African turnip- weed		Non-native		
Cactaceae	Opuntia scricta	Common pest pear		Non-native	Category 3	Yes
Cactaceae	Opuntia tomentosa	Velvety tree pear		Non-native	Category 3	Yes
Caesalpiniaceae	Gleditsia triacanthos	Honey locust		Non-native	Category 3	
Campanulaceae	Lobelia purpurascens	White root	LC	Native		
Campanulaceae	Wahlenbergia communis	Tufted bluebell	SLC	Native		
Campanulaceae	Wahlenbergia gracilis	Sprawling bluebell	SLC	Native		
Campanulaceae	Wahlenbergia species		LC	Native		
Capparaceae	Capparis Iasiantha	Nipan	LC	Native		
Capparaceae	Capparis sarmentosa	Scrambling caper	LC	Native		
Casuarinaceae	Allocasuarina littoralis		LC	Native		
Casuarinaceae	Allocasuarina luehmannii	Bull oak	LC	Native		
Casuarinaceae	Allocasuarina torulosa		LC	Native		
Casuarinaceae	Casuarina cunninghamiana	River oak	LC	Native		
Celastraceae	Maytenus silvestris	Narrow-leaved orange bark	LC	Native		



Family	Species name	Common	Conservation	Native/	Restricted	WoNS
		name	status (NC Act)	non-native	matter	
Chenopodiaceae	Chenopodium album	Fat-hen		Non-native		
Chenopodiaceae	Maireana microcarpa		LC	Native		
Chenopodiaceae	Salsola australis	Roly poly	LC	Native		
Chenopodiaceae	Sclerolaena muricata		LC	Native		
Commelinaceae	Commelina diffusa	Wandering jew	LC	Native		
Convolvulaceae	Dichondra repens	Kidney weed	LC	Native		
Convolvulaceae	Evolvulus alsinoides	Evolvulus	LC	Native		
Cyperaceae	Cyperus bifax	Western nutgrass	LC	Native		
Cyperaceae	Cyperus clarus	Cyperus	V	Native		
Cyperaceae	Cyperus difformis	Rice sedge	LC	Native		
Cyperaceae	Cyperus exaltatus	Tall flatsedge	LC	Native		
Cyperaceae	Cyperus gracilis		LC	Native		
Cyperaceae	Cyperus rotundus	Nutgrass		Non-native		
Cyperaceae	Cyperus species (NFM)		LC	Native		
Cyperaceae	Cyperus vaginatus	Cyperus	LC	Native		
Cyperaceae	Fimbristylis sp.	Sedge	LC	Native		
Cyperaceae	Gahnia aspera	Rough saw- sedge	LC	Native		
Cyperaceae	Isolepis inundata	Swamp club rush	LC	Native		
Dennstaedtiaceae	Pteridium esculentum	Common bracken	LC	Native		
Ericaceae	Epacris obtusifolia	Common heath	LC	Native		
Ericaceae	Monotoca scoparia	Prickly broom heath	LC	Native		
Erythroxylaceae	Erythroxylum australe	Cocaine tree	LC	Native		
Euphorbiaceae	Alchornea ilicifolia	Native holly	LC	Native		
Euphorbiaceae	Mallotus philippensis	Red kamala	LC	Native		
Euphorbiaceae	Ricinus communis	Castor oil bush		Non-native		
Fabaceae	Desmodium campylocaulon		LC	Native		
Fabaceae	Desmodium rhytidophyllum	Native desmodium	LC	Native		
Fabaceae	Desmodium varians	Slender tick trefoil	LC	Native		
Fabaceae	Erythrina vespertilio		LC	Native		
Fabaceae	Glycine tabacina	Glycine pea	LC	Native		



Family	Species name	Common name	Conservation status (NC Act)	Native/ non-native	Restricted matter	WoNS
Fabaceae	Hardenbergia violacea		LC	Native		
Fabaceae	Jacksonia scoparia		LC	Native		
Fabaceae	Lotus australis	Australian trefoil	LC	Native		
Fabaceae	Macroptilium atropurpureum	Siratro		Non-native		
Fabaceae	Medicago polymorpha	Burr medic		Non-native		
Fabaceae	Neonotonia wightii	Glycine		Non-native		
Fabaceae	Rhynchosia minima	Pea	LC	Native		
Fabaceae	Vicia monantha subsp. monantha	Common vetch		Non-native		
Goodeniaceae	Brunonia australis	Blue pincushion	LC	Native		
Goodeniaceae	Goodenia rotundifolia		LC	Native		
Hemerocallidaceae	Dianella caerulea	Blue flax lily	LC	Native		
Hemerocallidaceae	Dianella longifolia var. longifolia		LC	Native		
Hemerocallidaceae	Geitonoplesium cymosum	Scrambling lily	LC	Native		
Lamiaceae	Mentha satureioides	Native pennyroyal	LC	Native		
Lamiaceae	Plectranthus graveolens	Flea bush	LC	Native		
Lauraceae	Cassytha filiformis	Dodder laurel	LC	Native		
Lauraceae	Cinnamomum camphora	Camphor laurel		Non-native	Category 3	
Laxmanniaceae	Cordyline rubra	Red-fruited palm lily	LC	Native		
Laxmanniaceae	Eustrephus latifolius	Wombat berry	LC	Native		
Laxmanniaceae	Laxmannia gracilis	Slender wire lily	LC	Native		
Laxmanniaceae	Lomandra filiformis	Wattle mat- rush	LC	Native		
Laxmanniaceae	Lomandra Iongifolia	Spiny-head mat-rush	LC	Native		
Laxmanniaceae	Lomandra multiflora	Many-flowered mat-rush	LC	Native		
Lindsaeaceae	Lindsaea microphylla	Lacy wedge fern	LC	Native		
Loganiaceae	Strychnos psilosperma	Strychnine tree	LC	Native		
Malvaceae	Abutilon calliphyllum	Velvet lanternflower	LC	Native		



Family	Species name	Common name	Conservation status (NC Act)	Native/ non-native	Restricted matter	WoNS
Malvaceae	Hibiscus divaricatus		LC	Native		
Malvaceae	Malva parviflora	Small-flowered mallow		Non-native		
Malvaceae	Malvastrum americanum			Non-native		
Malvaceae	Sida cordifolia	Flannel weed		Non-native		
Malvaceae	Sida hackettiana	Native hemp	LC	Native		
Malvaceae	Sida rhombifolia	Paddys lucern		Non-native		
Malvaceae	Sida species		LC	Native		
Mimosaceae	Acacia caroleae		LC	Native		
Mimosaceae	Acacia everistii		LC	Native		
Mimosaceae	Acacia excelsa	Ironwood	LC	Native		
Mimosaceae	Acacia fimbriata	Fringed wattle	LC	Native		
Mimosaceae	Acacia glaucocarpa	Hickory wattle	LC	Native		
Mimosaceae	Acacia implexa	Lightwood	LC	Native		
Mimosaceae	Acacia leiocalyx	Black wattle	LC	Native		
Mimosaceae	Acacia Iongispicata		LC	Native		
Mimosaceae	Acacia maidenii	Maiden's wattle	LC	Native		
Mimosaceae	Acacia pendula	Weeping myall	LC	Native		
Mimosaceae	Acacia podalyriifolia	Queensland silver wattle	LC	Native		
Mimosaceae	Acacia salicina	Doolan	LC	Native		
Mimosaceae	Allocasurina torulosa	Mountain she- oak	LC	Native		
Mimosaceae	Leucaena leucocephala	Leucaena		Non-native		
Mimosaceae	Neptunia gracilis	Native sensitive weed	LC	Native		
Moraceae	Ficus watkinsiana	Green-leaved Moreton Bay fig	LC	Native		
Moraceae	Maclura cochinchinensis	Cockspur thorn	LC	Native		
Moraceae	Morus nigra	Black mulberry		Non-native		
Myrtacae	Eucalyptus tereticornis	Queensland blue gum	LC	Native		
Myrtaceae	Angophora floribunda	Rough-barked apple	LC	Native		
Myrtaceae	Angophora subvelutina	Broad-leaved apple	LC	Native		
Myrtaceae	Corymbia citriodora	Spotted gum	LC	Native		
Myrtaceae	Corymbia henryi	Large-leaved spottted gum	LC	Native		



Family	Species name	Common name	Conservation status (NC Act)	Native/ non-native	Restricted matter	WoNS
Myrtaceae	Corymbia intermedia	Pink bloodwood	LC	Native		
Myrtaceae	Corymbia tessellaris	Moreton Bay ash	LC	Native		
Myrtaceae	Corymbia trachyphloia		LC	Native		
Myrtaceae	Eucalyptus acmenoides	White mahogany	LC	Native		
Myrtaceae	Eucalyptus carnea	Thick-leaved mahogany	LC	Native		
Myrtaceae	Eucalyptus crebra	Narrow-leaved red ironbark	LC	Native		
Myrtaceae	Eucalyptus helidonica		LC	Native		
Myrtaceae	Eucalyptus melanophloia	Silver-leaf ironbark	LC	Native		
Myrtaceae	Eucalyptus melliodora	Yellow box	LC	Native		
Myrtaceae	Eucalyptus moluccana	Gum-topped box	LC	Native		
Myrtaceae	Eucalyptus pilularis	Blackbutt	LC	Native		
Myrtaceae	Eucalyptus propinqua	Small-fruited grey gum	LC	Native		
Myrtaceae	Eucalyptus saligna		LC	Native		
Myrtaceae	Eucalyptus siderophloia	Grey ironbark	LC	Native		
Myrtaceae	Lophostemon confertus	Brush box	LC	Native		
Myrtaceae	Melaleuca bracteata		LC	Native		
Nyctaginaceae	Boerhavia sp.	Tar vine	LC	Native		
Oleaceae	Jasminum suavissimum	Native jasmine	LC	Native		
Oleaceae	Ligustrum lucidum	Large-leaved privet		Non-native	Category 3	
Oleaceae	Ligustrum sinense	small-leaved privet		Non-native	Category 3	
Orchidaceae	Dendrobium kingianum		LC	Native		
Oxalidaceae	Oxalis chnoodes	Wood sorrel	LC	Native		
Oxalidaceae	Oxalis corniculata			Non-native		
Passifloraceae	Passiflora suberosa	Corky passion flower		Non-native		
Phyllanthaceae	Breynia oblongifolia		LC	Native		
Picrodendraceae	Petalostigma pubescens	Quinine tree	LC	Native		



Family	Species name	Common name	Conservation status (NC Act)	Native/ non-native	Restricted matter	WoNS
Piperaceae	Peperomia tetraphylla		LC	Native		
Pittosporaceae	Bursaria incana	Spiny bursaria	LC Native			
Pittosporaceae	Bursaria spinosa		LC	Native		
Pittosporaceae	Pittosporum angustifolium		LC	Native		
Pittosporaceae	Pittosporum phylliraeoides	Gumbi gumbi	LC	Native		
Plantaginaceae	Plantago lanceolata	Lambs tongue		Non-native		
Poaceae	Aristida calycina		LC	Native		
Poaceae	Aristida caput- medusae		LC	Native		
Poaceae	Aristida leptopoda	White speargrass	LC	Native		
Poaceae	Aristida ramosa	Purple wiregrass	LC	Native		
Poaceae	Aristida species		LC	Native		
Poaceae	Austrastipa verticillata	Slender bamboo grass	LC	Native		
Poaceae	Avena fatua	Wild oats		Non-native		
Poaceae	Bothriochloa bladhii		LC	Native		
Poaceae	Bothriochloa decipiens	Pitted bluegrass	LC	Native		
Poaceae	Bromus catharticus	Prairie grass		Non-native		
Poaceae	Capillipedium spicigerum	spicytop	LC	Native		
Poaceae	Cenchrus ciliaris	Buffel grass		Non-native		
Poaceae	Chloris gayana	Rhodes grass		Non-native		
Poaceae	Chloris pectinata	Comb chloris	LC	Native		
Poaceae	Chloris truncata	Tall chloris	LC	Native		
Poaceae	Chloris ventricosa	Tall chloris	LC	Native		
Poaceae	Cymbopogon refractus	Barbed-wire grass	LC	Native		
Poaceae	Cynodon dactylon	Couch		Non-native		
Poaceae	Dicanthium sp.	Bluestem		Native		
Poaceae	Dichanthium sericeum	Blue grass	LC	Native		
Poaceae	Digitaria brownii		LC	Native		
Poaceae	Digitaria divaricatissima	Spreading umbrella grass	LC	Native		
Poaceae	Digitaria parviflora	Digitaria	LC	Native		
Poaceae	Digitaria porrecta	Finger Panic	NT	Native		
Poaceae	Digitaria sp.	grass		Native		



Family	Species name	Common name	Conservation status (NC Act)	Native/ non-native	Restricted matter	WoNS
Poaceae	Enneapogon species (NFM)		LC	Native		
Poaceae	Entolasia stricta	Wiry panic	LC	Native		
Poaceae	Eragrostis brownii	Brown's lovegrass	LC	Native		
Poaceae	Eragrostis cilianensis	Stink grass		Non-native		
Poaceae	Eragrostis elongata		LC	Native		
Poaceae	Eragrostis lacunaria	Purple lovegrass	LC	Native		
Poaceae	Eragrostis sororia		LC	Native		
Poaceae	Eragrostis species		LC	Native		
Poaceae	Eragrostis tenuifolia	Elastic grass		Non-native		
Poaceae	Eriachne glabrata		LC	Native		
Poaceae	Heteropogon contortus	Black speargrass	LC	Native		
Poaceae	Imperata cylindrica	Blady grass	LC	Native		
Poaceae	Megathyrsus maximus	Green panic		Non-native		
Poaceae	Melinis repens	Red natal grass		Non-native		
Poaceae	Panicum decompositum	Inquisitive grass	LC	Native		
Poaceae	Panicum effusum	Panic grass	LC	Native		
Poaceae	Panicum queenslandicum	Queensland Panic	LC	Native		
Poaceae	Panicum simile	Small panic	LC	Native		
Poaceae	Panicum species		LC	Native		
Poaceae	Paspalidium distans	Shotgrass	LC	Native		
Poaceae	Paspalidium globoideum	Paspilidium	LC	Native		
Poaceae	Paspalum dilatatum	Paspalum		Non-native		
Poaceae	Paspalum species		LC	Native		
Poaceae	Pennisetum villosum	Feather top grass		Non-native		
Poaceae	Setaria sphacelata			Non-native		
Poaceae	Sorghum halepense	Johnson grass		Non-native		
Poaceae	Sorghum leiocladum	Wild sorghum	LC	Native		
Poaceae	Sporobolus africanus	Giant Parramatta grass		Non-native	Category 3	



Family	Species name	Common name	Conservation status	Native/ non-native	Restricted matter	WoNS
			(NC Act)			
Poaceae	Sporobolus creber	Native rats-tail grass		Non-native	Category 3	
Poaceae	Themeda triandra	Kangaroo grass	LC	Native		
Poaceae	Urochloa mosambicensis	Sabi grass		Non-native		
Polygonaceae	Emex australis			Non-native		
Portulacaceae	Portulaca pilosa	Pink pigweed		Non-native		
Proteaceae	Grevillea banksii		LC	Native		
Proteaceae	Grevillea robusta		LC	Native		
Proteaceae	Helica glabriflora	Pale oak	LC	Native		
Proteaceae	Persoonia sericea	Silky geebung	LC	Native		
Proteaceae	Xylomelum benthamii		LC	Native		
Pteridaceae	Adiantum sp.	Maidenhair fern	LC	Native		
Ranunculaceae	Ranunculus lappaceus	Common buttercup	LC	Native		
Ranunculaceae	Ranunculus species		LC	Native		
Rhamnaceae	Alphitonia excelsa	Red ash	LC	Native		
Rosaceae	Prunis persica	Peach tree		Non-native		
Rosaceae	Prunus sp.	Stonefruit		Non-native		
Rosaceae	Rubus anglocandicans	Blackberry		Non-native	Category 3	Yes
Rosaceae	Rubus parvifolius	Pink-flowered native raspberry	LC	Native		
Rubiaceae	Everistia vacciniifolia var. vacciniifolia		LC	Native		
Rubiaceae	Psydrax odorata		LC	Native		
Rutaceae	Flindersia collina	Broad-leaved leopard tree	LC	Native		
Santalaceae	Exocarpos cupressiformis	Native cherry	LC	Native		
Santalaceae	Santalum lanceolatum	Sandalwood	LC	Native		
Sapindaceae	Alectryon diversifolius	Scrub boonaree	LC	Native		
Sapindaceae	Alectryon oleifolius	Boonaree	LC	Native		
Sapindaceae	Cupaniopsis parvifolia	Small-leaved tuckeroo	LC	Native		
Sapindaceae	Dodonaea viscosa	Hop bush	LC	Native		
Sapindaceae	Elattostachys xylocarpa	White tamarind	LC	Native		
Sapindaceae	Harpullia pendula	Tulipwood	LC	Native		
Scrophulariaceae	Eremophila debilis	Winter apple	LC	Native		



Family	Species name	Common name	Conservation status (NC Act)	Native/ non-native	Restricted matter	WoNS
Smilacaceae	Smilax australis	Barbed-wire vine	LC	Native		
Solanaceae	Cestrum parqui	Green cestrum		Non-native		
Solanaceae	Lycium ferocissimum	African boxthorn		Non-native	Category 3	Yes
Solanaceae	Solanum mauritianum	Wild tobacco		Non-native		
Sparrmanniaceae	Grewia latifolia	Dysentery plant	LC	Native		
Sterculiaceae	Brachychiton populneus	Kurrajong	SLC	Native		
Thymelaeaceae	Pimelea linifolia		LC	Native		
Thymelaeaceae	Pimelea neoanglica	Poison pimelea	LC	Native		
Ulmaceae	Celtis sinensis	Chinese celtis		Non-native	Category 3	
Ulmaceae	Trema tomentosa		LC	Native		
Verbenacea	Lantana camara	Lantana		Non-native	Category 3	Yes
Verbenaceae	Glandularia aristigera	Mayne's pest		Non-native		
Verbenaceae	Verbena bonariensis			Non-native		
Verbenaceae	Verbena litoralis	Verbena		Non-native		
Verbenaceae	Verbena species		LC	Native		
Violaceae	Viola betonicifolia		LC	Native		
Zygophyllaceae	Tribulus terrestris	Caltrop	LC	Native		
Zygophyllaceae	Zygophyllum apiculatum	Gall weed	LC	Native		

Table notes:

LC = Least concern, SLC = Special least concern, NT = Near threatened, V = Vulnerable, - = Species not listed *Species listed as threatened under the EPBC Act that were recorded in the ecology study area

Appendix F

Fauna Species List

Family	Species name	Common name	NC Act status	EPBC Act status	Native/ non- native	Restricted matter
Acanthizidae	Acanthiza chrysorrhoa	Yellow-rumped thornbill	LC		Native	
Acanthizidae	Acanthiza lineata	Striated thornbill	LC		Native	
Acanthizidae	Gerygone olivacea	white-throated gerygone	LC		Native	
Acanthizidae	Smicrornis brevirostris	Weebill	LC		Native	
Accipitridae	Aquila audax	Wedge-tailed eagle	LC		Native	
Accipitridae	Haliastur sphenurus	Whistling kite	LC		Native	
Accipitridae	Milvus migrans	Black kite	LC		Native	
Agamidae	Intellagama lesueurii	eastern water dragon	LC		Native	
Agamidae	Pogona barbata	Bearded dragon	LC		Native	
Ardeidae	Egretta novaehollandiae	white-faced heron	LC		Native	
Artamidae	Artamus personatus	Masked woodswallow	LC		Native	
Artamidae	Cracticus nigrogularis	Pied butcherbird	LC		Native	
Artamidae	Cracticus tibicen	Australian magpie	LC		Native	
Artamidae	Cracticus torquatus	Grey butcherbird	LC		Native	
Artamidae	Strepera graculina graculina	Pied currawong (eastern Australia)	LC		Native	
Boidae	Morelia spilota	Carpet python	LC		Native	
Bufonidae	Rhinella marina	cane toad			Non- native	
Cacatuidae	Cacatua galerita	Sulphur-crested cockatoo	LC		Native	
Cacatuidae	Cacatua sanguinea	little corella	LC		Native	
Cacatuidae	Calyptorhynchus funereus	Yellow-tailed black- cockatoo	LC		Native	
Cacatuidae	Eolophus roseicapilla	Galah	LC		Native	
Cacatuidae	Nymphicus hollandicus	Cockatiel	LC		Native	
Campephagidae	Coracina novaehollandiae	Black-faced cuckoo- shrike	LC		Native	
Charadriidae	Vanellus miles	Masked lapwing	LC		Native	
Chelidae	Emydura macquarii macquarii	Murray turtle	LC		Native	
Climacteridae	Cormobates leucophaea	White-throated treecreeper	LC		Native	
Columbidae	Geopelia humeralis	Bar-shouldered dove	LC		Native	
Columbidae	Geopelia striata	Peaceful dove	LC		Native	
Columbidae	Macropygia amboinensis	Brown cuckoo-dove	LC		Native	
Columbidae	Ocyphaps lophotes	Crested pigeon	LC		Native	
Columbidae	Phaps chalcoptera	Common bronzewing	LC		Native	



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Corvidae	Corvus orru	Torresian crow	LC		Native	
Cuculidae	Cacomantis flabelliformis	Fan-tailed cuckoo	LC		Native	
Cuculidae	Centropus phasianinus	Pheasant coucal	LC		Native	
Cuculidae	Chalcites lucidus	Shining bronze-cuckoo	LC		Native	
Elapidae	Pseudonaja textilis	Eastern brown snake	LC		Native	
Emballonuridae	Saccolaimus flaviventris	Yellow-bellied sheath- tailed bat	LC		Native	
Estrildidae	Neochmia temporalis	Red-browed finch	LC		Native	
Estrildidae	Taeniopygia guttata	Zebra finch	LC		Native	
Estrildidae	Taenopygia bichenovii	Double-barred finch	LC		Native	
Halcyonidae	Dacelo novaeguineae	Laughing kookaburra	LC		Native	
Halcyonidae	Todiramphus pyrrhopygius	Red-backed kingfisher	LC		Native	
Halcyonidae	Todiramphus sanctus	Sacred kingfisher	LC		Native	
Hirundinidae	Hirundo neoxena	Welcome swallow	LC		Native	
Leporidae	Oryctolagus cuniculus	European rabbit			Non- native	Category 2
Macropodidae	Macropus rufogriseus	red-necked wallaby	LC		Native	
Maluridae	Malurus cyaneus	Superb fairy-wren	LC		Native	
Maluridae	Malurus lamberti	Variegated fairy-wren	LC		Native	
Maluridae	Malurus melanocephalus	Red-backed fairy-wren	LC		Native	
Megapodiidae	Alectura lathami	Australian brush-turkey	LC		Native	
Meliphagidae	Acanthagenys rufogularis	Spiny-cheeked honeyeater	LC		Native	
Meliphagidae	Gavicalis virescens	Singing honeyeater	LC		Native	
Meliphagidae	Lichmera indistincta	Brown honeyeater	LC		Native	
Meliphagidae	Manorina melanocephala	Noisy miner	LC		Native	
Meliphagidae	Meliphaga lewinii	Lewin's honeyeater	LC		Native	
Meliphagidae	Philemon corniculatus	Noisy friarbird	LC		Native	
Meliphagidae	Phylidonyris niger	White-cheeked honeyeater	LC		Native	
Meliphagidae	Ptilotula fusca	Fuscous honeyeater	LC		Native	
Meropidae	Merops ornatus	Rainbow bee-eater	LC		Native	
Miniopteridae	Miniopterus australis	Little bentwing bat	LC		Native	
Miniopteridae	Miniopterus schreibersii oceanensis	Large Bent-winged Bat	LC		Native	
Molossidae	Austronomus australis	White-striped free-tailed bat	LC		Native	
Molossidae	Ozimops petersi		LC		Native	
Molossidae	Ozimops ridei	Eastern freetail bat	LC		Native	
Monarchidae	Grallina cyanoleuca	Magpie-lark	LC		Native	
Monarchidae	Myiagra cyanoleuca	Satin flycatcher	SLC	M	Native	



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Monarchidae	Myiagra inquieta	Restless flycatcher	LC		Native	
Monarchidae	Myiagra rubecula	Leaden flycatcher	LC		Native	
Monarchidae	Symposiachrus trivirgatus	Spectacled monarch	SLC	М	Native	
Ornithorhynchidae	Ornithorhynchus anatinus	Platypus	SLC		Native	
Pachycephalidae	Colluricincla harmonica	Grey shrike-thrush	LC		Native	
Pachycephalidae	Colluricincla megarhyncha	Little shrike-thrush	LC		Native	
Pachycephalidae	Pachycephala pectoralis	Golden whistler	LC		Native	
Pachycephalidae	Pachycephala rufiventris	Rufous whistler	LC		Native	
Pardalotidae	Pardalotus punctatus	Spotted pardalote	LC		Native	
Pardalotidae	Pardalotus striatus	Striated pardalote	LC		Native	
Petroicidae	Eopsaltria australis	Eastern yellow robin	LC		Native	
Phalacrocoracidae	Phalacrocorax sulcirostris	little black cormorant	LC		Native	
Phalacrocoracidae	Phalacrocorax varius	pied cormorant	LC		Native	
Phalangeridae	Trichosurus vulpecula	Common brushtail possum	LC		Native	
Phascolarctidae	Phascolarctos cinereus	Koala	V	V	Native	
Podargidae	Podargus strigoides	Tawny frogmouth	LC		Native	
Psittacidae	Parvipsitta pusilla	Little lorikeet	LC		Native	
Psittacidae	Platycercus adscitus	Pale-headed rosella	LC		Native	
Psittacidae	Trichoglossus haematodus moluccanus	Rainbow lorikeet	LC		Native	
Psophodidae	Psophodes olivaceus	Eastern whipbird	LC		Native	
Pygopodidae	Delma torquata	Collared delma	V	V	Native	
Rallidae	Porphyrio melanotus	purple swamphen	LC		Native	
Rhipiduridae	Rhipidura albiscapa	Grey fantail	LC		Native	
Rhipiduridae	Rhipidura leucophrys	Willie wagtail	LC		Native	
Scincidae	Ctenotus eurydice	brown-backed yellow- lined ctenotus	LC		Native	
Sturnidae	Acridotheres tristis	Common myna			Non- native	
Tachyglossidae	Tachyglossus aculeatus	Short-beaked echidna	SLC		Native	
Threskiornithidae	Threskiornis spinicollis	straw-necked ibis	LC		Native	
Timaliidae	Zosterops lateralis cornwalli	Silvereye (eastern)	LC		Native	
Varanidae	Varanus varius	Lace monitor	LC		Native	
Vespertilionidae	Chalinolobus gouldii	Gould's wattled bat	LC		Native	
Vespertilionidae	Myotis macropus	Large-footed myotis	LC		Native	
Vespertilionidae	Nyctophilus sp	Long-eared bat species			Native	



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Vespertilionidae	Scotorepens greyii/sp.	Broad-nosed bat species			Native	
Vespertilionidae	Vespadelus troughtoni	Eastern cave bat	LC		Native	
Vespertilionidae	Vespedelus darlingtoni	Large forest bat	LC		Native	

Table notes:

LC = Least concern, SLC = Special least concern, V = Vulnerable, - = Species not listed. *Species listed as threatened under the EPBC Act that were recorded in the ecology study area

