

APPENDICES

APPENDIX 1: CONSERVATION CODES

1. CONSERVATION CODES FOR FLORA, FAUNA AND ECOLOGICAL COMMUNITIES

Table A1-1: Conservation Codes for Western Australian Flora and Fauna

Category	Definition
Threatened (T)	<p>Published as Specially Protected under the Wildlife Conservation Act 1950, and listed under Schedules 1 to 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.</p> <p>Threatened fauna is that subset of 'Specially Protected Fauna' declared to be 'likely to become extinct' pursuant to section 14(4) of the Wildlife Conservation Act.</p> <p>Threatened flora is flora that has been declared to be 'likely to become extinct or is rare, or otherwise in need of special protection', pursuant to section 23F(2) of the Wildlife Conservation Act.</p> <p>The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.</p>
CR	<p>Critically endangered species</p> <p>Threatened species considered to be facing an extremely high risk of extinction in the wild. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.</p>
EN	<p>Endangered species</p> <p>Threatened species considered to be facing a very high risk of extinction in the wild. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.</p>
VU	<p>Vulnerable species</p> <p>Threatened species considered to be facing a high risk of extinction in the wild. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.</p>
EX	<p>Presumed extinct species</p> <p>Species which have been adequately searched for and there is no reasonable doubt that the last individual has died. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora.</p>
IA	<p>Migratory birds protected under an international agreement</p> <p>Birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and the Bonn Convention, relating to the protection of migratory birds. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 5 of the Wildlife Conservation (Specially Protected Fauna) Notice.</p>

Category	Definition
CD	Conservation dependent fauna Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice.
OS	Other specially protected fauna Fauna otherwise in need of special protection to ensure their conservation. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice.
Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened flora or fauna. Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring. Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.	
P1	Priority 1: Poorly-known species Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.
P2	Priority 2: Poorly-known species Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.
P3	Priority 3: Poorly-known species Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

Category	Definition
P4	<p>Priority 4: Rare, Near Threatened and other species in need of monitoring</p> <p>(a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands. (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable, but are not listed as Conservation Dependent. (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy</p>

Source: DBCA (2017) Conservation Codes. https://www.dpaw.wa.gov.au/images/documents/plants-animals/threatened-species/Listings/conservation_code_definitions.pdf

APPENDIX 2: NATUREMAP DATABASE SEARCH RESULTS

NatureMap Species Report

Created By Guest user on 02/09/2017

Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 115° 44' 59" E, 31° 37' 12" S
Buffer 5km
Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	363	1066
Presumed extinct	1	1
Priority 1	2	10
Priority 3	4	7
Priority 4	6	74
Protected under international agreement	2	4
Rare or likely to become extinct	7	81
TOTAL	385	1243

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Rare or likely to become extinct				
1.	24162 <i>Bettongia penicillata</i> subsp. <i>ogilbyi</i> (Woylie, Brush-tailed Bettong)		T	
2.	1213 <i>Calectasia cyanea</i> (Blue Tinsel Lily)		T	
3.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo (short-billed black-cockatoo), Carnaby's Cockatoo)		T	
4.	24092 <i>Dasyurus geoffroii</i> (Chuditch, Western Quoll)		T	
5.	13091 <i>Eucalyptus argutifolia</i> (Wabbling Hill Mallee)		T	
6.	24142 <i>Petrogale lateralis</i> subsp. <i>lateralis</i> (Black-flanked Rock-wallaby, Black-footed Rock-wallaby)		T	
7.	34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)		T	
Presumed extinct				
8.	24161 <i>Bettongia lesueur</i> subsp. <i>graii</i> (Boodie (inland), Burrowing Bettong (inland))		X	
Protected under international agreement				
9.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)		IA	
10.	24808 <i>Tringa nebularia</i> (Common Greenshank)		IA	
Priority 1				
11.	34161 <i>Baeckea</i> sp. <i>Limestone</i> (N. Gibson & M.N. Lyons 1425)		P1	
12.	33022 <i>Melaleuca</i> sp. <i>Wanneroo</i> (G.J. Keighery 16705)		P1	Y
Priority 3				
13.	11461 <i>Hibbertia spicata</i> subsp. <i>leptotheca</i>		P3	
14.	19460 <i>Leucopogon</i> sp. <i>Yanchep</i> (M. Hislop 1986)		P3	
15.	5237 <i>Pimelea calcicola</i>		P3	
16.	13127 <i>Stylidium maritimum</i>		P3	
Priority 4				
17.	25478 <i>Isodon obesulus</i> (Southern Brown Bandicoot)		P4	
18.	24153 <i>Isodon obesulus</i> subsp. <i>fusciventer</i> (Quenda, Southern Brown Bandicoot)		P4	
19.	4027 <i>Jacksonia sericea</i> (Waldjumi)		P4	
20.	24133 <i>Macropus irma</i> (Western Brush Wallaby)		P4	
21.	24328 <i>Oxyura australis</i> (Blue-billed Duck)		P4	
22.	33992 <i>Synemon gratiosa</i> (Graceful Sunmoth)		P4	
Non-conservation taxon				
23.	15470 <i>Acacia barbinervis</i> subsp. <i>borealis</i>			
24.	3409 <i>Acacia lasiocarpa</i> (Panjang)			
25.	11611 <i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>			
26.	3502 <i>Acacia pulchella</i> (Prickly Moses)			
27.	15482 <i>Acacia pulchella</i> var. <i>goadbyi</i>			
28.	3525 <i>Acacia rostellifera</i> (Summer-scented Wattle)			
29.	3584 <i>Acacia truncata</i>			
30.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
31.	24261	<i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
32.	24262	<i>Acanthiza inornata</i> (Western Thornbill)			
33.	1208	<i>Acanthocarpus preissii</i>			
34.	24560	<i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
35.	25535	<i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
36.	25536	<i>Accipiter fasciatus</i> (Brown Goshawk)			
37.	25755	<i>Acrocephalus australis</i> (Australian Reed Warbler)			
38.		<i>Aganippe rhapsiduca</i>			
39.	184	<i>Aira caryophyllea</i> (Silvery Hairgrass)	Y		
40.	1728	<i>Allocasuarina fraseriana</i> (Sheoak, Kondil)			
41.	1732	<i>Allocasuarina humilis</i> (Dwarf Sheoak)			
42.	2668	<i>Amaranthus powellii</i> (Powell's Amaranth)	Y		
43.	2671	<i>Amaranthus viridis</i> (Green Amaranth)	Y		
44.		<i>Amblyomma triguttatum</i>			
45.	24312	<i>Anas gracilis</i> (Grey Teal)			
46.	24315	<i>Anas rhynchotis</i> (Australasian Shoveler)			
47.	24316	<i>Anas superciliosa</i> (Pacific Black Duck)			
48.	6314	<i>Andersonia lehmanniana</i>			
49.	47414	<i>Anhinga novaehollandiae</i> (Australasian Darter)			
50.	1409	<i>Anigozanthos humilis</i> (Catspaw)			
51.	25241	<i>Antaresia stimsoni</i> subsp. <i>stimsoni</i> (Stimson's Python)			
52.	24561	<i>Anthochaera carunculata</i> (Red Wattlebird)			
53.	24562	<i>Anthochaera lunulata</i> (Western Little Wattlebird)			
54.	24991	<i>Aprasia repens</i> (Sand-plain Worm-lizard)			
55.	24285	<i>Aquila audax</i> (Wedge-tailed Eagle)			
56.		<i>Araneus cyphoxis</i>			
57.		<i>Araneus senicaudatus</i>			
58.	24340	<i>Ardea novaehollandiae</i> (White-faced Heron)			
59.	24341	<i>Ardea pacifica</i> (White-necked Heron)			
60.	25566	<i>Artamus cinereus</i> (Black-faced Woodswallow)			
61.	24353	<i>Artamus cyanopterus</i> (Dusky Woodswallow)			
62.	20283	<i>Astartea scoparia</i> (Common Astartea)			
63.	6331	<i>Astroloma microcalyx</i> (Native Cranberry)			
64.	6334	<i>Astroloma pallidum</i> (Kick Bush)			
65.	17240	<i>Austrostipa flavescens</i>			
66.	233	<i>Avena barbata</i> (Bearded Oat)	Y		
67.	24318	<i>Aythya australis</i> (Hardhead)			
68.	1800	<i>Banksia attenuata</i> (Slender Banksia, Piara)			
69.	1834	<i>Banksia menziesii</i> (Firewood Banksia)			
70.		<i>Barnardius zonarius</i>			
71.	5382	<i>Beaufortia elegans</i> (Elegant Beaufortia)			
72.	24319	<i>Biziura lobata</i> (Musk Duck)			
73.	24251	<i>Bos taurus</i> (European Cattle)	Y		
74.	3710	<i>Bossiaea eriocarpa</i> (Common Brown Pea)			
75.	42380	<i>Brachyuropis fasciolatus</i> subsp. <i>fasciolatus</i> (Narrow-banded Shovel-nosed Snake)			
76.	42381	<i>Brachyuropis semifasciatus</i> (Southern Shovel-nosed Snake)			
77.	11187	<i>Brassica barrelieri</i> subsp. <i>oxyrrhina</i> (Smooth-stem Turnip)	Y		
78.	3000	<i>Brassica tournefortii</i> (Mediterranean Turnip)	Y		
79.	244	<i>Briza maxima</i> (Blowfly Grass)	Y		
80.	245	<i>Briza minor</i> (Shivery Grass)	Y		
81.	249	<i>Bromus diandrus</i> (Great Brome)	Y		
82.	25714	<i>Cacatua pastinator</i> (Western Long-billed Corella)			
83.	25716	<i>Cacatua sanguinea</i> (Little Corella)			
84.	25598	<i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
85.	1276	<i>Caesia micrantha</i> (Pale Grass Lily)			
86.	11038	<i>Caladenia bicalliata</i>			
87.	1592	<i>Caladenia flava</i> (Cowslip Orchid)			
88.	1599	<i>Caladenia latifolia</i> (Pink Fairy Orchid)			
89.	2856	<i>Calandrinia liniflora</i> (Parakeelya)			
90.	5415	<i>Calothamnus lateralis</i>			
91.	5426	<i>Calothamnus quadrifidus</i> (One-sided Bottlebrush, Kwoowdjard)			
92.	5429	<i>Calothamnus sanguineus</i> (Silky-leaved Blood flower, Pindak)			
93.	5458	<i>Calytrix flavescens</i> (Summer Starflower)			
94.	2952	<i>Cassytha glabella</i> (Tangled Dodder Laurel)			
95.	2957	<i>Cassytha racemosa</i> (Dodder Laurel)			
96.	1125	<i>Centrolepis drummondiana</i>			
97.	2889	<i>Cerastium glomeratum</i> (Mouse Ear Chickweed)	Y		
98.	24377	<i>Charadrius ruficapillus</i> (Red-capped Plover)			
99.	43380	<i>Chelodina colliei</i> (South-western Snake-necked Turtle)			
100.	24321	<i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
101.	2483 <i>Chenopodium album</i> (Fat Hen)	Y		
102.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
103.	<i>Chroicocephalus novaehollandiae</i>			
104.	24288 <i>Circus approximans</i> (Swamp Harrier)			
105.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
106.	4550 <i>Comesperma calymega</i> (Blue-spike Milkwort)			
107.	4552 <i>Comesperma confertum</i>			
108.	1876 <i>Conospermum incurvum</i> (Plume Smokebush)			
109.	15611 <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> (Common Smokebush)			
110.	6348 <i>Conostephium pendulum</i> (Pearl Flower)			
111.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
112.	1427 <i>Conostylis candicans</i> (Grey Cottonhead)			
113.	1454 <i>Conostylis setigera</i> (Bristly Cottonhead)			
114.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
115.	<i>Cormocephalus turneri</i>			
116.	25592 <i>Corvus coronoides</i> (Australian Raven)			
117.	1285 <i>Corynotheca micrantha</i> (Sand Lily)			
118.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
119.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
120.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			
121.	4802 <i>Cryptandra mutila</i>			
122.	30893 <i>Cryptoblepharus buchananii</i>			
123.	25039 <i>Ctenotus fallens</i>			
124.	11021 <i>Cuscuta planiflora</i>	Y		
125.	24322 <i>Cygnus atratus</i> (Black Swan)			
126.	10916 <i>Cyrtostylis huegelii</i>			
127.	30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
128.	25673 <i>Daphoenositta chrysoptera</i> (Varied Sittella)			
129.	6218 <i>Daucus glochidiatus</i> (Australian Carrot)			
130.	3793 <i>Daviesia angulata</i>			
131.	3807 <i>Daviesia divaricata</i> (Marno)			
132.	17663 <i>Desmocladius asper</i>			
133.	1259 <i>Dianella revoluta</i> (Blueberry Lily)			
134.	1287 <i>Dichopogon capillipes</i>			
135.	27392 <i>Dictyota dichotoma</i> var. <i>intricata</i>			
136.	24939 <i>Diplodactylus polyophthalmus</i>			
137.	4453 <i>Diplolaena angustifolia</i> (Yanchep Rose)			
138.	19649 <i>Disa bracteata</i>	Y		
139.	3095 <i>Drosera erythrorhiza</i> (Red Ink Sundew)			
140.	3106 <i>Drosera macrantha</i> (Bridal Rainbow)			
141.	13216 <i>Drosera menziesii</i> subsp. <i>penicillaris</i>			
142.	25100 <i>Egernia napoleonis</i>			
143.	<i>Egretta novaehollandiae</i>			
144.	347 <i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
145.	349 <i>Ehrharta longiflora</i> (Annual Veldt Grass)	Y		
146.	<i>Elanus axillaris</i>			
147.	1643 <i>Elythranthera brunonis</i> (Purple Enamel Orchid)			
148.	<i>Eolophus roseicapillus</i>			
149.	376 <i>Eragrostis curvula</i> (African Lovegrass)	Y		
150.	1646 <i>Eriochilus dilatatus</i> (White Bunny Orchid)			
151.	15446 <i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>			
152.	5615 <i>Eucalyptus decipiens</i> (Limestone Marlock, Moit)			
153.	5649 <i>Eucalyptus foecunda</i> (Narrow-leaved Red Mallee)			
154.	5659 <i>Eucalyptus gomphocephala</i> (Tuart, Duart)			
155.	20808 <i>Eucalyptus petiolaris</i>	Y		
156.	13541 <i>Eucalyptus petrensis</i>			
157.	13511 <i>Eucalyptus rudis</i> subsp. <i>rudis</i>			
158.	25621 <i>Falco berigora</i> (Brown Falcon)			
159.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
160.	25623 <i>Falco longipennis</i> (Australian Hobby)			
161.	24041 <i>Felis catus</i> (Cat)	Y		
162.	25727 <i>Fulica atra</i> (Eurasian Coot)			
163.	24761 <i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)			
164.	7976 <i>Galinsoga parviflora</i> (Potato Weed)	Y		
165.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
166.	24763 <i>Gallinula tenebrosa</i> subsp. <i>tenebrosa</i> (Dusky Moorhen)			
167.	25530 <i>Gerygone fusca</i> (Western Gerygone)			
168.	1520 <i>Gladiolus caryophyllaceus</i> (Wild Gladiolus)	Y		
169.	6143 <i>Glischrocaryon aureum</i> (Common Popflower)			
170.	3957 <i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
171.	6161 <i>Gonocarpus pithyoides</i>			
172.	19286 <i>Goodenia pulchella</i> subsp. <i>Coastal Plain A (M. Hislop 634)</i>			
173.	24443 <i>Grallina cyanoleuca</i> (<i>Magpie-lark</i>)			
174.	15839 <i>Grevillea preissii</i> subsp. <i>preissii</i>			
175.	2119 <i>Grevillea vestita</i>			
176.	2784 <i>Gyrostemon ramulosus</i> (<i>Corkybark</i>)			
177.	1468 <i>Haemodorum laxum</i>			
178.	2146 <i>Hakea costata</i> (<i>Ribbed Hakea</i>)			
179.	2175 <i>Hakea lissocarpha</i> (<i>Honey Bush</i>)			
180.	2203 <i>Hakea ruscifolia</i> (<i>Candle Hakea</i>)			
181.	2214 <i>Hakea trifurcata</i> (<i>Two-leaf Hakea</i>)			
182.	24295 <i>Haliastur sphenurus</i> (<i>Whistling Kite</i>)			
183.	24689 <i>Halobaena caerulea</i> (<i>Blue Petrel</i>)			
184.	3961 <i>Hardenbergia comptoniana</i> (<i>Native Wisteria</i>)			
185.	25410 <i>Heleioporus eyrei</i> (<i>Moaning Frog</i>)			
186.	3016 <i>Heliophila pusilla</i>	Y		
187.	16933 <i>Hemiandra glabra</i>			
188.	25119 <i>Hemiergis quadrilineata</i>			
189.	1293 <i>Hensmania turbinata</i>			
190.	5112 <i>Hibbertia aurea</i>			
191.	5135 <i>Hibbertia hypericoides</i> (<i>Yellow Buttercups</i>)			
192.	43280 <i>Hibbertia sericosepala</i>			
193.	47965 <i>Hieraaetus morphnoides</i> (<i>Little Eagle</i>)			
194.	25734 <i>Himantopus himantopus</i> (<i>Black-winged Stilt</i>)			
195.	24491 <i>Hirundo neoxena</i> (<i>Welcome Swallow</i>)			
196.	445 <i>Holcus setiger</i> (<i>Annual Fog</i>)	Y		
197.	6222 <i>Homaloscladium homalocarpum</i>			
198.	3966 <i>Hovea pungens</i> (<i>Devil's Pins, Puyenak</i>)			
199.	12859 <i>Hovea trisperma</i> var. <i>trisperma</i>			
200.	5216 <i>Hybanthus calycinus</i> (<i>Wild Violet</i>)			
201.	6232 <i>Hydrocotyle hispidula</i>			
202.	8086 <i>Hypochoeris glabra</i> (<i>Smooth Catsear</i>)	Y		
203.	1070 <i>Hypolaena exsulca</i>			
204.	<i>Indolpium</i> sp.			
205.	14783 <i>Jacksonia calcicola</i>			
206.	4029 <i>Jacksonia sternbergiana</i> (<i>Stinkwood, Kapur</i>)			
207.	467 <i>Lagurus ovatus</i> (<i>Hare's Tail Grass</i>)	Y		
208.	28342 <i>Landoltia punctata</i> (<i>Thin Duckweed</i>)			
209.	24511 <i>Larus novaehollandiae</i> subsp. <i>novaehollandiae</i> (<i>Silver Gull</i>)			
210.	7574 <i>Lechenaultia floribunda</i> (<i>Free-flowering Leschenaultia</i>)			
211.	7580 <i>Lechenaultia linarioides</i> (<i>Yellow Leschenaultia</i>)			
212.	925 <i>Lepidosperma angustatum</i>			
213.	42742 <i>Lepidosperma calcicola</i>			
214.	944 <i>Lepidosperma scabrum</i>			
215.	946 <i>Lepidosperma striatum</i>			
216.	1653 <i>Leporella fimbriata</i> (<i>Hare Orchid</i>)			
217.	2344 <i>Leptomeria empetriiformis</i>			
218.	2352 <i>Leptomeria preissiana</i>			
219.	5847 <i>Leptospermum erubescens</i> (<i>Roadside Teatree</i>)			
220.	1090 <i>Lepyrodia muirii</i>			
221.	25165 <i>Leista praepedita</i>			
222.	6427 <i>Leucopogon parviflorus</i> (<i>Coast Beard-heath</i>)			
223.	6434 <i>Leucopogon polymorphus</i>			
224.	7677 <i>Levenhookia stipitata</i> (<i>Common Stylewort</i>)			
225.	25005 <i>Lialis burtonis</i>			
226.	25661 <i>Lichmera indistincta</i> (<i>Brown Honeyeater</i>)			
227.	25415 <i>Limnodynastes dorsalis</i> (<i>Western Banjo Frog</i>)			
228.	7408 <i>Lobelia tenuior</i> (<i>Slender Lobelia</i>)			
229.	1228 <i>Lomandra hermaphrodita</i>			
230.	1231 <i>Lomandra maritima</i>			
231.	14542 <i>Lomandra micrantha</i> subsp. <i>micrantha</i>			
232.	1239 <i>Lomandra preissii</i>			
233.	1246 <i>Lomandra suaveolens</i>			
234.	4066 <i>Lupinus cosentinii</i>	Y		
235.	6456 <i>Lysinema ciliatum</i> (<i>Curry Flower</i>)			
236.	34736 <i>Lysinema pentapetalum</i>			
237.	85 <i>Macrozamia riedlei</i> (<i>Zamia, Djiridji</i>)			
238.	25651 <i>Malurus lamberti</i> (<i>Variegated Fairy-wren</i>)			
239.	24544 <i>Malurus lamberti</i> subsp. <i>assimilis</i> (<i>Variegated Fairy-wren</i>)			
240.	25652 <i>Malurus leucopterus</i> (<i>White-winged Fairy-wren</i>)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
241.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
242.	25758 <i>Megalurus gramineus</i> (Little Grassbird)			
243.	5920 <i>Melaleuca huegelii</i> (Chenille Honeymyrtle)			
244.	5952 <i>Melaleuca preissiana</i> (Moonah)			
245.	18598 <i>Melaleuca systema</i>			
246.	5978 <i>Melaleuca teretifolia</i> (Banbar)			
247.	5986 <i>Melaleuca urceolaris</i>			
248.	25184 <i>Menetia greyii</i>			
249.	955 <i>Mesomelaena pseudostygia</i>			
250.	<i>Microcarbo melanoleucos</i>			
251.	485 <i>Microlaena stipoides</i> (Weeping Grass)			
252.	15419 <i>Microtis media</i> subsp. <i>media</i>			
253.	8106 <i>Millotia tenuifolia</i> (Soft Millotia)			
254.	25240 <i>Morelia spilota</i> subsp. <i>imbricata</i> (Carpet Python)			
255.	24223 <i>Mus musculus</i> (House Mouse)	Y		
256.	25248 <i>Neelaps bimaculatus</i> (Black-naped Snake)			
257.	24738 <i>Neophema elegans</i> (Elegant Parrot)			
258.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
259.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
260.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
261.	<i>Occiperipatoides gilesii</i>			
262.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
263.	18255 <i>Opercularia vaginata</i> (Dog Weed)			
264.	1537 <i>Orthrosanthus laxus</i> (Morning Iris)			
265.	24085 <i>Oryctolagus cuniculus</i> (Rabbit)	Y		
266.	34016 <i>Ovis aries</i> (Sheep)			
267.	4356 <i>Oxalis pes-caprae</i> (Soursob)	Y		
268.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
269.	<i>Paraplectanoides crassipes</i>			
270.	25253 <i>Parasuta gouldii</i>			
271.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
272.	4343 <i>Pelargonium capitatum</i> (Rose Pelargonium)	Y		
273.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
274.	2273 <i>Persoonia saccata</i> (Snottygobble)			
275.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
276.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
277.	20368 <i>Petrophile axillaris</i>			
278.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
279.	2301 <i>Petrophile macrostachya</i>			
280.	2309 <i>Petrophile serruriae</i>			
281.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
282.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
283.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
284.	48071 <i>Phylidonyris niger</i> (White-cheeked Honeyeater)			
285.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
286.	4675 <i>Phyllanthus calycinus</i> (False Boronia)			
287.	2793 <i>Phytolacca octandra</i> (Red Ink Plant)	Y		
288.	<i>Phytophthora cinnamomi</i>			
289.	5243 <i>Pimelea ferruginea</i>			
290.	18117 <i>Pimelea rosea</i> subsp. <i>rosea</i>			
291.	5268 <i>Pimelea sulphurea</i> (Yellow Banjine)			
292.	42281 <i>Pithocarpa cordata</i>			
293.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
294.	25720 <i>Platycercus icterotis</i> (Western Rosella)			
295.	4524 <i>Platytheca galioides</i>			
296.	573 <i>Poa drummondiana</i> (Knotted Poa)			
297.	578 <i>Poa porphyroclados</i>			
298.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
299.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
300.	8183 <i>Podotheca chrysantha</i> (Yellow Podotheca)			
301.	24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)			
302.	24681 <i>Polioccephalus poliocephalus</i> (Hoary-headed Grebe)			
303.	25722 <i>Polytelis anthopeplus</i> (Regent Parrot)			
304.	4691 <i>Poranthera microphylla</i> (Small Poranthera)			
305.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
306.	24767 <i>Porphyrio porphyrio</i> subsp. <i>bellus</i> (Purple Swamphen)			
307.	24770 <i>Porzana pusilla</i> subsp. <i>palustris</i> (Baillon's Crane)			
308.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
309.	25433 <i>Pseudophryne guentheri</i> (Crawling Toadlet)			
310.	12217 <i>Pterostylis sanguinea</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
311.	1698 <i>Pterostylis vittata</i> (Banded Greenhood)			
312.	2751 <i>Ptilotus polystachyus</i> (Prince of Wales Feather)			
313.	<i>Purpureicephalus spurius</i>			
314.	8195 <i>Quinetia urvillei</i>			
315.	24243 <i>Rattus fuscipes</i> (Western Bush Rat)			
316.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
317.	<i>Raveniella cirrata</i>			
318.	<i>Raveniella peckorum</i>			
319.	6012 <i>Regelia ciliata</i>			
320.	11341 <i>Rhagodia baccata</i> subsp. <i>baccata</i>			
321.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
322.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
323.	1556 <i>Romulea rosea</i> (Guildford Grass)	Y		
324.	13182 <i>Scaevola repens</i> var. <i>repens</i>			
325.	13152 <i>Scaevola thesioides</i> subsp. <i>thesioides</i>			
326.	982 <i>Schoenus clandestinus</i>			
327.	984 <i>Schoenus curvifolius</i>			
328.	985 <i>Schoenus discifer</i>			
329.	997 <i>Schoenus lanatus</i> (Woolly Bog-rush)			
330.	25534 <i>Sericornis frontalis</i> (White-browed Scrubwren)			
331.	<i>Seriola lalandi</i>			
332.	8225 <i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
333.	25266 <i>Simoselaps bertholdi</i> (Jan's Banded Snake)			
334.	42785 <i>Sirophysalis trinodis</i>			
335.	30948 <i>Smicromis brevirostris</i> (Weebill)			
336.	9259 <i>Solanum nodiflorum</i> (Glossy Nightshade)	Y		
337.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
338.	1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)			
339.	1558 <i>Sparaxis bulbifera</i>	Y		
340.	4828 <i>Spyridium globulosum</i> (Basket Bush)			
341.	3080 <i>Stenopetalum robustum</i>			
342.	25597 <i>Strepera versicolor</i> (Grey Currawong)			
343.	25589 <i>Streptopelia chinensis</i> (Spotted Turtle-Dove)	Y		
344.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
345.	7696 <i>Stylidium calcaratum</i> (Book Triggerplant)			
346.	7717 <i>Stylidium divaricatum</i> (Daddy-long-legs)			
347.	7774 <i>Stylidium piliferum</i> (Common Butterfly Triggerplant)			
348.	20521 <i>Stylidium rigidulum</i>			
349.	1260 <i>Stypandra glauca</i> (Blind Grass)			
350.	15532 <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>			
351.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
352.	24682 <i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
353.	24331 <i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
354.	24167 <i>Tarsipes rostratus</i> (Honey Possum, Noolbenger)			
355.	4256 <i>Templetonia retusa</i> (Cockies Tongues)			
356.	5105 <i>Thomasia triphylla</i>			
357.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
358.	1339 <i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
359.	1343 <i>Thysanotus patersonii</i>			
360.	1351 <i>Thysanotus sparteus</i>			
361.	25204 <i>Tiliqua rugosa</i> subsp. <i>aspera</i>			
362.	25207 <i>Tiliqua rugosa</i> subsp. <i>rugosa</i>			
363.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
364.	6280 <i>Trachymene pilosa</i> (Native Parsnip)			
365.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
366.	1361 <i>Tricoryne elatior</i> (Yellow Autumn Lily)			
367.	4292 <i>Trifolium campestre</i> (Hop Clover)	Y		
368.	4295 <i>Trifolium dubium</i> (Suckling Clover)	Y		
369.	4297 <i>Trifolium glomeratum</i> (Cluster Clover)	Y		
370.	4309 <i>Trifolium scabrum</i> (Rough Clover)	Y		
371.	152 <i>Triglochin trichophora</i>			
372.	<i>Urodacus novaehollandiae</i>			
373.	8254 <i>Urospermum picroides</i> (False Hawkbit)	Y		
374.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
375.	25526 <i>Varanus tristis</i> (Racehorse Monitor)			
376.	15725 <i>Verbesina encelioides</i>	Y		
377.	11474 <i>Vicia sativa</i> subsp. <i>nigra</i>	Y		
378.	4325 <i>Viminaria juncea</i> (Swishbush, Koweda)			
379.	724 <i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
380.	7389	<i>Wahlenbergia preissii</i>			
381.	8282	<i>Waitzia suaveolens</i> (Fragrant Waitzia)			
382.		<i>Westrarchaea spinosa</i>			
383.	1256	<i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
384.	6289	<i>Xanthosia huegelii</i>			
385.	25765	<i>Zosterops lateralis</i> (Grey-breasted White-eye, Silveryeye)			

Conservation Codes

T - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 3
4 - Priority 4
5 - Priority 5

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.

APPENDIX 3: EPBC PROTECTED MATTERS DATABASE SEARCH RESULTS



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 25/08/17 13:05:03

[Summary](#)

[Details](#)

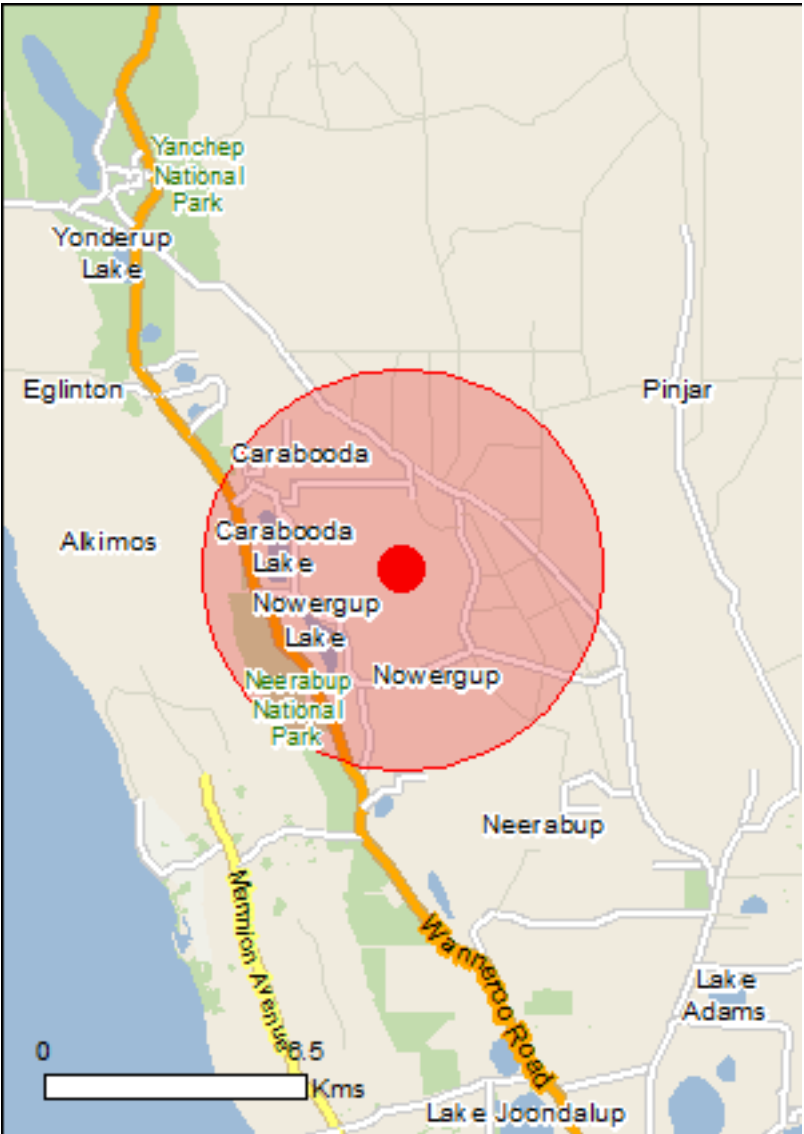
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



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[Coordinates](#)

[Buffer: 5.0Km](#)



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	1
Listed Threatened Species:	18
Listed Migratory Species:	10

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	16
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Commonwealth Reserves Marine:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	2
Regional Forest Agreements:	None
Invasive Species:	37
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

[Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Name	Status	Type of Presence
Banksia Woodlands of the Swan Coastal Plain ecological community	Endangered	Community likely to occur within area

Listed Threatened Species

[Resource Information]

Name	Status	Type of Presence
Birds		

Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
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Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
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Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat likely to occur within area
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Calyptorhynchus latirostris Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
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Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
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Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
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Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
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Mammals

Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
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Plants

Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat may occur within area
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Anigozanthos viridis subsp. terraspectans Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat likely to occur within area
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Name	Status	Type of Presence
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat likely to occur within area
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area
Diuris purdiei Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat may occur within area
Drakaea elastica Glossy-leaved Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area
Drakaea micrantha Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat may occur within area
Eleocharis keigheryi Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat may occur within area
Eucalyptus argutifolia Yanchep Mallee, Wabling Hill Mallee [24263]	Vulnerable	Species or species habitat likely to occur within area
Lepidosperma rostratum Beaked Lepidosperma [14152]	Endangered	Species or species habitat likely to occur within area

Listed Migratory Species

[Resource Information]

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat likely to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area

Name	Threatened	Type of Presence
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land	[Resource Information]
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The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name
Commonwealth Land -

Listed Marine Species	[Resource Information]
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* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat likely to occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur

Name	Threatened	Type of Presence
Merops ornatus Rainbow Bee-eater [670]		within area Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Thinornis rubricollis Hooded Plover [59510]		Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Neerabup	WA
Neerabup	WA

Invasive Species

[Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Birds		
Acridotheres tristis Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis European Goldfinch [403]		Species or species habitat likely to occur within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Mammals		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Funambulus pennantii Northern Palm Squirrel, Five-striped Palm Squirrel [129]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus norvegicus Brown Rat, Norway Rat [83]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Asparagus aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within

Name	Status	Type of Presence
		area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Genista linifolia Flax-leaved Broom, Mediterranean Broom, Flax Broom [2800]		Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large- leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Protasparagus densiflorus Asparagus Fern, Plume Asparagus [5015]		Species or species habitat likely to occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Tamarix aphylla Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat likely to occur within area

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-31.62 115.74972

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.

APPENDIX 4: FLORA SPECIES LIST

Family		Species
042	Zamiaceae	<i>Macrozamia riedlei</i>
044	Pinaceae	* <i>Pinus pinaster</i>
080	Lauraceae	<i>Cassytha</i> sp.
082	Araceae	* <i>Zantedeschia aethiopica</i>
109	Colchicaceae	<i>Burchardia congesta</i>
115	Orchidaceae	* <i>Disa bracteata</i>
		<i>Microtis media</i>
124	Iridaceae	* <i>Gladiolus caryophyllaceus</i>
		<i>Patersonia occidentalis</i>
126	Xanthorrhoeaceae	<i>Xanthorrhoea preissii</i>
128	Asparagaceae	<i>Lomandra</i> sp.
		<i>Sowerbaea laxiflora</i>
		<i>Thysonatus sparteus</i> ?
		<i>Thysonatus</i> sp.
130	Hemerocallidaceae	<i>Dianella revoluta</i> ?
138	Haemodoraceae	<i>Anigozanthos humilis</i>
		<i>Anigozanthos manglesii</i>
		<i>Conostylis aculeata</i>
		<i>Conostylis aurea</i>
		<i>Conostylis setigera</i>
		<i>Haemodorum laxum</i>
		<i>Haemodorum spicatum</i>
147	Dasypogonaceae	<i>Calectasia narragara</i>
159	Restionaceae	<i>Desmocladius fasciculatus</i>
		<i>Desmocladius flexuosus</i>
		<i>Alexgeorgea nitens</i> ?
		<i>Hypolaena exsulca</i>
156	Cyperaceae	<i>Mesomelaena pseudostygia</i>
157	Anarthriaceae	<i>Lyginia barbata</i>
163	Poaceae	* <i>Aira caryophyllea</i>
		* <i>Avena barbata</i>
		* <i>Briza maxima</i>
		* <i>Bromus</i> sp.
		* <i>Ehrharta calycina</i>
175	Proteaceae	<i>Banksia attenuata</i>
		<i>Banksia menziesii</i>
		<i>Hakea lissocarpha</i>
		<i>Hakea ruscifolia</i>
		<i>Hakea trifurcata</i>
		<i>Petrophile linearis</i>
		<i>Petrophile macrostachya</i>
		<i>Stirlingia latifolia</i>
		<i>Synaphea spinulosa</i>

181	Dilleniaceae	<i>Hibbertia huegelii</i>
		<i>Hibbertia hypericoides</i>
		<i>Hibbertia subvaginata</i>
192	Crassulaceae	* <i>Crassula</i> sp.
201	Fabaceae	<i>Acacia huegelii</i>
		<i>Acacia pulchella</i>
		<i>Acacia saligna</i>
		<i>Acacia willdenowiana</i>
		<i>Bossiaea eriocarpa</i>
		<i>Daviesia divaricata</i>
		<i>Gompholobium tomentosum</i>
		<i>Hardenbergia comptoniana</i>
		<i>Hovea trisperma</i>
		<i>Jacksonia</i> sp.
		<i>Jacksonia sternbergiana</i>
		* <i>Trifolium arvense</i>
		* <i>Trifolium</i> sp.
217	Casuarinaceae	<i>Allocasuarina humilis</i>
232	Oxalidaceae	* <i>Oxalis pes-caprae</i>
242	Euphorbiaceae	* <i>Euphorbia terracina</i>
274	Geraniaceae	* <i>Pelargonium capitatum</i>
281	Myrtaceae	<i>Calothamnus quadrifidus</i>
		<i>Calytrix flavescens</i>
		* <i>Chamelaucium uncinatum</i>
		<i>Eremaea asterocarpa</i>
		<i>Eremaea pauciflora</i>
		<i>Eucalyptus todtiana</i>
		<i>Kunzea glabrescens</i>
		* <i>Leptospermum laevigatum</i>
		<i>Regelia inops</i>
300	Rutaceae	<i>Philotheca spicata</i>
311	Thymelaeaceae	<i>Pimelea sulphurea</i>
339	Loranthaceae	<i>Nuytsia floribunda</i>
346	Droseraceae	<i>Drosera erythrorhiza</i>
		<i>Drosera pallida</i>
355	Caryophyllaceae	* <i>Petrorhagia dubia</i>
		* <i>Silene gallica</i>
357	Amaranthaceae	<i>Ptilotus</i> sp.
364	Aizoaceae	* <i>Carpobrotus edulis</i>
392	Primulaceae	* <i>Lysimachia arvensis</i>
403	Ericaceae	<i>Astroloma pallidum</i>
		<i>Conostephium pendulum</i>
		<i>Leucopogon polymorphus</i>
		<i>Lysinema pentapetalum</i>

409	Rubiaceae	<i>Opercularia vaginata</i>
416	Convolvulaceae	* <i>Cuscuta planiflora</i>
428	Scrophulariaceae	* <i>Dischisma capitatum</i>
435	Orobanchaceae	* <i>Orobanche minor</i>
450	Campanulaceae	* <i>Wahlenbergia capensis</i>
452	Stylidiaceae	<i>Stylidium brunonianum?</i>
		<i>Stylidium calcaratum?</i>
		<i>Stylidium piliferum</i>
		<i>Stylidium schoenoides</i>
458	Goodeniaceae	<i>Scaevola sp.</i>
460	Asteraceae	* <i>Arctotheca calendula</i>
		* <i>Hypochaeris glabra</i>
		<i>Podotheca gnaphalioides</i>
		* <i>Sonchus oleraceus</i>
		* <i>Urospermum picroides</i>
		* <i>Ursinia anthemoides</i>
472	Araliaceae	<i>Trachymene pilosa</i>

APPENDIX 5: QUADRAT DATA

QUADRAT 1

Location: 235 McLennan Drive Nowergup, eastern side of property.

GPS: 381484 / 6500915 (MGA94, Zone 50)

Size: 10 by 10 metres

Soil: Brown-grey sand on surface

Vegetation Condition: Very Good

Comments: Some previous vegetation disturbance particularly to understorey. Weeds. No signs of fire in recent past.



Vegetation Description: Low woodland of *Banksia attenuata* over open to low open heath of *Hibbertia hypericoides*, *Eremaea pauciflora*, *Bossiaea eriocarpa*, *Acacia pulchella* and *Xanthorrhoea preissii* over *Desmocladius flexuosus*.

Species	Height (m)	% Cover
<i>Acacia pulchella</i>	1	2
* <i>Avena barbata</i>	0.6	+
<i>Banksia attenuata</i>	6	30
<i>Bossiaea eriocarpa</i>	0.4	2
* <i>Briza maxima</i>	0.6	+
<i>Burchardia congesta</i>	0.4	+
<i>Cassytha</i> sp.	climber	+
<i>Conostephium pendulum</i>	0.3	+
<i>Conostylis aculeata</i>	0.3	+
<i>Conostylis setigera</i>	0.1	+
<i>Daviesia divaricata</i>	0.3	+
<i>Desmocladius flexuosus</i>	0.2	15
* <i>Ehrharta calycina</i>	0.5	+
<i>Eremaea pauciflora</i>	1.2	10
* <i>Gladiolus caryophyllaceus</i>	1	+

Species	Height (m)	% Cover
<i>Gompholobium tomentosum</i>	0.3	+
<i>Hibbertia hypericoides</i>	0.8	60
<i>Hovea trisperma</i>	climber	+
* <i>Hypochaeris glabra</i>	0.2	+
<i>Hypolaena exsulca</i>	0.5	+
* <i>Lysimachia arvensis</i>	0.1	+
<i>Microtis media</i>	0.35	+
<i>Patersonia occidentalis</i>	0.6	+
<i>Podotheca gnaphalioides</i>	0.3	1
* <i>Sonchus oleraceus</i>	0.3	+
<i>Stirlingia latifolia</i>		
<i>Thyssonatus sparteus?</i>	0.5	+
<i>Trachymene pilosa</i>	0.1	+
* <i>Ursinia anthemoides</i>	0.3	+
<i>Xanthorrhoea preissii</i>	1.5	2

QUADRAT 2

Location: 235 McLennan Drive Nowergup, eastern side of property.

GPS: 381548 / 6501015 (MGA94, Zone 50)

Size: 10 by 10 m

Soil: Brown-grey sand on surface

Vegetation Condition: Very good

Comments: Some previous vegetation disturbance particularly to understorey. Weeds. No signs of fire in recent past.



Vegetation Description: Low woodland of *Banksia menziesii* over open to low open heath of *Hibbertia hypericoides* and *Eremaea pauciflora* over *Desmocladius flexuosus*

Species	Height (m)	% Cover
<i>Acacia pulchella</i>	2	2
<i>Banksia menziesii</i>	5	20
<i>Bossiaea eriocarpa</i>	0.5	+
* <i>Briza maxima</i>		
* <i>Bromus</i> sp.	0.8	+
<i>Burchardia congesta</i>	0.6	+
<i>Cassytha</i> sp.	climber	+
<i>Daviesia divaricata</i>	1.5	+
<i>Desmocladius flexuosus</i>	0.15	20
* <i>Ehrharta calycina</i>	0.8	+
<i>Eremaea pauciflora</i>	1	20
* <i>Gladiolus caryophyllaceus</i>	0.5	+
<i>Haemodorum spicatum</i>	0.8	+
<i>Hibbertia hypericoides</i>	0.5	20
* <i>Hypochaeris glabra</i>	0.3	+
<i>Lyginia barbata</i>	0.4	+
* <i>Lysimachia arvensis</i>	0.1	+

Species	Height (m)	% Cover
<i>Mesomelaena pseudostygia</i>	0.5	+
<i>Microtis media</i>	0.4	+
<i>Patersonia occidentalis</i>	0.5	+
<i>Petrophile linearis</i>	0.4	+
<i>Podotheca gnaphalioides</i>	0.3	1
* <i>Sonchus oleraceus</i>	0.25	+
<i>Sowerbaea laxiflora</i>	0.3	+
<i>Stirlingia latifolia</i>	1	+
<i>Trachymene pilosa</i>	0.15	+
* <i>Trifolium sp.</i>	0.1	+
* <i>Ursinia anthemoides</i>	0.25	+
<i>Xanthorrhoea preissii</i>	1.5	+

APPENDIX 6: ASSESSMENT OF BANKSIA WOODLAND COMMUNITY AGAINST EPBC REFERRAL GUIDANCE

Table A6.1: Key Diagnostic Characteristics of Banksia Woodlands TEC

Key Diagnostic Characteristics	Information	Key Diagnostic Questions ¹	Response and Discussion
Location and physical environments	Bioregion	Is the proposal site within the Swan Coastal Plain IBRA bioregion (including Dandaragan plateau), or adjacent areas within the Jarrah Forest IBRA bioregion?	Yes. Swan Coastal Plain.
Soils and Landform	Soil type	Is the soil type consistent with where the Banksia Woodlands TEC may occur?	Yes. Spearwood System (Yellow sands).
	Location in the landscape, topography	Is the topography consistent with where the Banksia Woodlands TEC may occur?	Yes. Upper slopes of sand dune.
Structure	Tree composition, understorey composition, diversity, species	Is the structure consistent with the characteristics set out in the conservation advice?	Yes. Woodland of <i>Banksia attenuata</i> and <i>Banksia menziesii</i> with <i>Eucalyptus tottiana</i> over sclerophyllous shrubs and herbaceous ground layer of rushes, sedges, forbs and grasses.
Composition	Dominant tree species, emergent tree layer, understory	Is the composition consistent with the characteristics set out in the conservation advice?	Yes. Co-dominated by <i>Banksia attenuata</i> and <i>Banksia menziesii</i> with <i>Eucalyptus tottiana</i> over understorey of shrubs and herbs (diversity variable and partly dependent on condition). Many of the common shrub and herb species listed in the Approved Conservation Advice (Threatened Species Scientific Committee 2016) are present.

¹ As per Section 2.2 of the Approved Conservation Advice (Threatened Species Scientific Committee 2016).

Table A6.2: Additional Information to Characterise Banksia Woodlands TEC

Item	Information	Relevant Content ¹	Response and Discussion
Location and physical environments	Regional distribution and quality	Quantity/quality of vegetation community in, and in the region around, the site where the proposed action will occur	235 McLennan Drive is part of a large patch (potentially several hundred hectares) of remnant vegetation that includes Banksia woodland and variety of Eucalyptus woodlands and thus locally the quantity and quality of the vegetation community are likely good. 235 McLennan Drive has been mapped as Cottesloe Complex - Central and South (Heddlie et al. 1980) and 46% of the pre-European extent of this complex within the City of Wanneroo still remains.
Patch condition	Condition thresholds	What is the patch condition using the condition categories outlined in Approved Conservation Advice ¹	Condition was only assessed within 235 McLennan Drive and varied from Degraded to Very Good.
Patch Size	Patch size in hectares	Is the patch size large enough to meet criteria in Approved Conservation Advice ¹	235 McLennan Drive is part of a large patch, the total size of which is unknown (potentially several hundred hectares). Within 235 McLennan Drive there are approximately 10 ha of remnant Banksia Woodland with more than 1 ha in Very Good and more than 2 ha in Good condition. Consequently the patch size is large enough to meet the criteria. There is remnant vegetation on three sides of 235 McLennan Drive, comprising a mixture of Banksia woodland and Eucalyptus woodlands. The vegetation on 235 McLennan Drive is part of a remnant vegetation corridor connecting State Forrest 65 (also a Bush Forever site) in the east to the Lake Nowergup Nature Reserve and the Neerabup National Park in the west.
	Surrounding buffer	What is the size and vegetation community of the surrounding buffer? And what is the connectivity to the surrounding vegetation?	
Other condition considerations	Presence/absence and spread of <i>Phytophthora cinnamomi</i> (dieback)	If present, how much dieback exists and is the proposed action likely to spread dieback further? If not present, can its introduction be prevented?	The presence/absence of <i>Phytophthora cinnamomi</i> on 235 McLennan Drive has not been determined.
	Presence/absence weeds	Does the patch contain weeds? Which species are present and how can they be managed?	The most common weed species recorded on 235 McLennan Drive during the October 2016 reconnaissance were <i>Ehrharta calycina</i> , <i>Gladiolus caryophyllaceus</i> , <i>Briza maxima</i> , <i>Ursinia anthemoides</i> , <i>Hypochaeris glabra</i> and <i>Arctotheca calendula</i> . Effective management of these species is unlikely to be feasible as they are widespread locally and regionally.
	Any other notable disturbance to the site where relevant (i.e. fragmentation, fire regimes, bare patches, erosion, feral animals)	What disturbance is present which may degrade the quality of the community or species? For any/each form of disturbance, what is the degree of the disturbance? Is there evidence of recruitment of key native plant species following disturbance?	Aerial photos of 235 McLennan Drive show varying degrees of disturbance from the start of available photography in 1960s. Aerial photos from 1970s show bare patches across the property. Clearing was subsequently undertaken for the orchard, residential dwellings, outbuildings, tracks, fence lines and firebreaks, resulting in fragmentation of the vegetation. There has been recruitment of native species in some of the disturbed areas. The property is currently used for horticulture and residential purposes, both of which may result in spread of weeds and disease. In the surrounding area, the vegetation community is subject to a range of disturbances related to urban and rural development and mining.

Item	Information	Relevant Content ¹	Response and Discussion
	Patch isolation	Is the patch connected to other areas of Banksia Woodland or is it isolated?	235 McLennan Drive forms part of a large patch of remnant vegetation some of which is Banksia woodland.
Sub-community and vegetation unit	Broad scale structural unit (Beard vegetation associations)	Provide the best corresponding Beard vegetation association (s).	Spearwood Vegetation Association 949 Low woodland; Banksia (based on 'Pre-European Vegetation - Western Australia' dataset in NRInfo online mapping by Department of Agriculture and Food).
	Floristic community types (Gibson <i>et al.</i> , 1994; Keighery <i>et al.</i> , 2008)	Provide the closest resemblance of floristic community type(s) with reference to those discussed in Appendix C2 of the Approved Conservation Advice.	Data available from site reconnaissance survey is not sufficient to statistically determine Floristic Community Type (FCT). FCT was inferred as mostly likely FCT 28 Spearwood <i>Banksia attenuata</i> or <i>Banksia attenuata</i> - <i>Eucalyptus</i> woodlands, however FCT 20a Banksia attenuata woodlands over species rich dense shrublands (TEC in WA, part of TEC under EPBC Act) and FCT 24 Northern Spearwood shrublands and woodlands (P3 in WA, part of TEC under EPBC Act) could not be ruled out on the basis of the available information.
	Western Australian ecological community listing	Is this ecological community listed in Western Australia?	FCT 28 is not listed as threatened in Western Australia, however Banksia Dominated Woodlands of the Swan Coastal Plain IBRA region that this FCT likely belongs to is listed as Priority 3.
Surveying	Timing of the surveying	Ideally surveys should be undertaken in spring with two sampling periods to capture early and late flowering species. When was sampling undertaken at the proposed site? Is there any reason why the vegetation community could not be readily identified (e.g. due to recent disturbance such as fire)?	One reconnaissance site visit was undertaken during spring (October 2016).

¹ Detailed guidance for each of these provided in Approved Conservation Advice (Threatened Species Scientific Committee 2016).

APPENDIX 7: OPPORTUNISTIC FAUNA RECORDS

Species	Notes
Bobtail (<i>Tiliqua rugose</i>)	Observed
Australian Raven (<i>Corvus coronoides</i>)	Observed
Galah (<i>Eolophus roseicapilla</i>)	Observed
Australian Magpie (<i>Cracticus tibicen</i>)	Observed
Australian Ringneck (<i>Barnardius zonarius</i>)	Observed
Cat (<i>Felis catus</i>)	Foot prints on sand
Other	Kangaroo/wallaby droppings and tracks
	Unidentified skink observed.
	Lizard diggings.
	Small mammal footprints on sand (mouse size).