

NatureMap Species Report

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Kingdom Animalia
Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 115° 47' 23" E, 31° 45' 12" S
Buffer 5km
Group By Family

Family	Species	Records
Acanthizidae	7	506
Accipitridae	12	367
Actinopodidae	1	9
Aeshnidae	1	1
Agamidae	2	7
Amphisopodidae	1	2
Anatidae	18	2113
Anhingidae	2	66
Aphelinidae	3	3
Apodidae	1	1
Araneidae	2	3
Ardeidae	11	528
Artamidae	2	3
Barychelidae	1	13
Boidae	1	2
Bothriuridae	1	1
Buprestidae	10	20
Burramyidae	1	1
Buthidae	1	1
Cacatuidae	1	292
Campephagidae	1	52
Canidae	1	1
Carabidae	2	2
Castniidae	1	17
Cerambycidae	1	1
Charadriidae	5	95
Cheloniidae	1	3
Cheluidae	2	5
Chrysomelidae	1	1
Cicadidae	1	1
Climacteridae	1	2
Coenagrionidae	3	8
Columbidae	5	603
Corixidae	1	1
Corvidae	3	351
Cracticidae	4	642
Cuculidae	4	13
Curculionidae	4	4
Cyprinidae	1	1
Dasyuridae	1	1
Dicaeidae	1	2
Dicruridae	5	554
Diplodactylidae	5	11
Elapidae	13	61
Falconidae	6	69
Felidae	1	2
Formicidae	1	1
Gekkonidae	2	6
Gobiidae	1	1
Halcyonidae	2	272
Helicidae	1	1
Henicopidae	1	1
Hirundinidae	3	185
Hylidae	2	21
Kalotermitidae	1	2
Lamponidae	1	2
Laridae	6	232
Leporidae	1	2
Leptoceridae	1	2
Lestidae	1	3
Libellulidae	2	8
Limnodynastidae	2	21
Lycosidae	3	5
Macropodidae	1	3
Maeridae	1	1
Maluridae	2	151
Meliphagidae	10	570
Meropidae	1	19
Muridae	4	7
Myobatrachidae	3	8
Nemesiidae	2	12
Neosittidae	1	7
Nephiidae	1	1
Noctuidae	1	1
Notonectidae	1	1

Pachycephalidae	7	110
Pachygronhidae	1	2
Paradoxosomatidae	1	5
Pardalotidae	2	161
Passeridae	2	42
Pelecanidae	1	160
Peramelidae	2	19
Petroicidae	3	4
Phalacrocoracidae	5	370
Phalangeridae	2	6
Phasianidae	1	3
Physidae	1	2
Plagiornithidae	1	1
Platycephalidae	2	2
Podargidae	2	7
Podicipedidae	5	367
Poeciliidae	1	1
Procellariidae	2	3
Psittacidae	21	1174
Pygopodidae	5	30
Rallidae	11	651
Recurvirostridae	3	331
Rhinotermitidae	2	2
Salticidae	1	1
Scincidae	17	131
Scolopacidae	9	50
Scolopendridae	2	7
Sparassidae	2	4
Strigidae	1	6
Succineidae	1	1
Sylviidae	2	126
Synthemistidae	2	3
Tachyglossidae	1	2
Tenebrionidae	3	3
Tettigoniidae	1	1
Theridiidae	1	2
Threskiornithidae	5	594
Tytonidae	1	1
Urodacidae	1	8
Varanidae	2	2
Zosteropidae	2	233
TOTAL	349	12616

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Acanthizidae				
1.	<i>Acanthiza (Acanthiza) apicalis subsp. apicalis</i>			
2.	24260 <i>Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill)</i>			
3.	24261 <i>Acanthiza chrysorrhoa (Yellow-rumped Thornbill)</i>			
4.	24262 <i>Acanthiza inornata (Western Thornbill)</i>			
5.	25530 <i>Gerygone fusca (Western Gerygone)</i>			
6.	25534 <i>Sericornis frontalis (White-browed Scrubwren)</i>			
7.	30948 <i>Smicromnis brevirostris (Weebill)</i>			
Accipitridae				
8.	25535 <i>Accipiter cirrocephalus (Collared Sparrowhawk)</i>			
9.	24281 <i>Accipiter cirrocephalus subsp. cirrocephalus (Collared Sparrowhawk)</i>			
10.	25536 <i>Accipiter fasciatus (Brown Goshawk)</i>			
11.	24285 <i>Aquila audax (Wedge-tailed Eagle)</i>			
12.	25538 <i>Aquila morphnoides (Little Eagle)</i>			
13.	24288 <i>Circus approximans (Swamp Harrier)</i>			
14.	<i>Elanus axillaris</i>			
15.	24290 <i>Elanus caeruleus subsp. axillaris (Australian Black-shouldered Kite)</i>			
16.	24293 <i>Haliaeetus leucogaster (White-bellied Sea-Eagle)</i>		IA	
17.	24295 <i>Haliastur sphenurus (Whistling Kite)</i>			
18.	<i>Lophoictinia isura</i>			
19.	<i>Pandion cristatus</i>			
Actinopodidae				
20.	<i>Missulena granulosa</i>			
Aeshnidae				
21.	<i>Adversaeschna brevistyla</i>			
Agamidae				
22.	30899 <i>Ctenophorus adelaidensis (Southern Heath Dragon, Western Heath Dragon)</i>			
23.	24907 <i>Pogona minor subsp. minor (Dwarf Bearded Dragon)</i>			
Amphisopodidae				
24.	<i>Paramphisopus sp.</i>			
Anatidae				
25.	24310 <i>Anas castanea (Chestnut Teal)</i>			
26.	24312 <i>Anas gracilis (Grey Teal)</i>			
27.	24313 <i>Anas platyrhynchos (Mallard)</i>			
28.	24315 <i>Anas rhynchotis (Australasian Shoveler)</i>			
29.	<i>Anas sp.</i>			
30.	24316 <i>Anas superciliosa (Pacific Black Duck)</i>			
31.	<i>Anser anser</i>			
32.	<i>Anser sp.</i>			
33.	24318 <i>Aythya australis (Hardhead)</i>			
34.	24319 <i>Biziura lobata (Musk Duck)</i>			
35.	<i>Cairina moschata</i>			
36.	24321 <i>Chenonetta jubata (Australian Wood Duck, Wood Duck)</i>			
37.	24322 <i>Cygnus atratus (Black Swan)</i>			
38.	24325 <i>Dendrocygna eytoni (Plumed Whistling Duck)</i>			
39.	24326 <i>Malacorhynchus membranaceus (Pink-eared Duck)</i>			
40.	24328 <i>Oxyura australis (Blue-billed Duck)</i>		P4	
41.	24329 <i>Stictonetta naevosa (Freckled Duck)</i>			
42.	24331 <i>Tadorna tadornoides (Australian Shelduck, Mountain Duck)</i>			
Anhingidae				
43.	25553 <i>Anhinga melanogaster (Darter)</i>			
44.	<i>Anhinga novaehollandiae</i>			
Aphelinidae				
45.	<i>Encarsia formosa</i>			
46.	<i>Encarsia sophia</i>			
47.	<i>Eretmocerus warrae</i>			
Apodidae				
48.	25554 <i>Apus pacificus (Fork-tailed Swift)</i>		IA	
Araneidae				
49.	<i>Austracantha minax</i>			
50.	<i>Eriophora biapicata</i>			
Ardeidae				

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
51.	25558 <i>Ardea ibis</i> (Cattle Egret)		IA	
52.	41324 <i>Ardea modesta</i> (Eastern Great Egret)		IA	
53.	24340 <i>Ardea novaehollandiae</i> (White-faced Heron)			
54.	24341 <i>Ardea pacifica</i> (White-necked Heron)			
55.	24345 <i>Botaurus poiciloptilus</i> (Australasian Bittern)		T	
56.	<i>Egretta garzetta</i>			
57.	<i>Egretta novaehollandiae</i>			
58.	<i>Ixobrychus dubius</i>			
59.	24347 <i>Ixobrychus flavicollis</i> subsp. <i>australis</i> (Australian Black Bittern)		P1	
60.	25563 <i>Ixobrychus minutus</i> (Little Bittern)		P4	
61.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
Artamidae				
62.	25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)			
63.	24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)			
Barychelidae				
64.	<i>Idiomata blackwalli</i>			
Boidae				
65.	25240 <i>Morelia spilota</i> subsp. <i>imbricata</i> (Carpet Python)		S	
Bothriuridae				
66.	<i>Cercophonius sulcatus</i>			
Buprestidae				
67.	<i>Calotemognatha varicollis</i>			
68.	<i>Calotemognatha yarelli</i> subsp. <i>yarelli</i>			
69.	<i>Castiarina aureola</i>			
70.	<i>Castiarina bazilisca</i>			
71.	<i>Castiarina flaviceps</i>			
72.	<i>Castiarina pallidiventris</i>			
73.	<i>Melobasis gloriosa</i>			
74.	<i>Melobasis wannerua</i>			
75.	<i>Temognatha mitchellii</i>			
76.	<i>Temognatha</i> sp.			
Burramyidae				
77.	24086 <i>Cercartetus concinnus</i> (Western Pygmy-possum, Mundarda)			
Buthidae				
78.	<i>Isometroides vesicus</i>			
Cacatuidae				
79.	<i>Eolophus roseicapillus</i>			
Campephagidae				
80.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
Canidae				
81.	30883 <i>Canis lupus</i> subsp. <i>familiaris</i> (Dog)	Y		
Carabidae				
82.	<i>Catadromus</i> sp.			
83.	<i>Scaraphites</i> sp.			
Castniidae				
84.	33992 <i>Synemon gratiosa</i> (Graceful Sunmoth)		P4	
Cerambycidae				
85.	<i>Phoracantha semipunctatus</i>			
Charadriidae				
86.	25575 <i>Charadrius leschenaultii</i> (Greater Sand Plover)		IA	
87.	24373 <i>Charadrius melanops</i> (Black-fronted Dotterel)			
88.	24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)			
89.	<i>Eelseyornis melanops</i>			
90.	24379 <i>Erythrogonys cinctus</i> (Red-kneed Dotterel)			
Cheloniidae				
91.	25335 <i>Caretta caretta</i> (Loggerhead Turtle)		T	
Cheluidae				
92.	<i>Chelodina (Macrodiemys) colliei</i>			
93.	43380 <i>Chelodina colliei</i> (Oblong Turtle)			
Chrysomelidae				
94.	<i>Strumatophyma verrucosa</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Cicadidae				
95.	<i>Arenopsaltria fullo</i>			
Climacteridae				
96.	24396 <i>Climacteris rufa</i> (Rufous Treecreeper)			
Coenagrionidae				
97.	<i>Austroagrion cyane</i>			
98.	<i>Ischnura aurora</i>			
99.	<i>Xanthagrion erythroneurum</i>			
Columbidae				
100.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		
101.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
102.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
103.	25589 <i>Streptopelia chinensis</i> (Spotted Turtle-Dove)	Y		
104.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
Corixidae				
105.	<i>Agraptocorixa eurynome</i>			
Corvidae				
106.	24416 <i>Corvus bennetti</i> (Little Crow)			
107.	25592 <i>Corvus coronoides</i> (Australian Raven)			
108.	<i>Corvus</i> sp.			
Cracticidae				
109.	24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)			
110.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
111.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
112.	25597 <i>Strepera versicolor</i> (Grey Currawong)			
Cuculidae				
113.	25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
114.	24427 <i>Cacomantis flabelliformis</i> subsp. <i>flabelliformis</i> (Fan-tailed Cuckoo)			
115.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
116.	24432 <i>Chrysococcyx lucidus</i> subsp. <i>plagosus</i> (Shining Bronze Cuckoo)			
Curculionidae				
117.	<i>Acantholophus amycteroides</i>			
118.	<i>Acantholophus humeralis</i>			
119.	<i>Euomus insculptus</i>			
120.	<i>Psaldus</i> sp.			Y
Cyprinidae				
121.	<i>Carassius auratus</i>			
Dasyuridae				
122.	24098 <i>Phascogale calura</i> (Red-tailed Phascogale, Kenngoor)		T	
Dicaeidae				
123.	25607 <i>Dicaeum hirundinaceum</i> (Mistletoebird)			
Dicruridae				
124.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
125.	25610 <i>Myiagra inquieta</i> (Restless Flycatcher)			
126.	25613 <i>Rhipidura fuliginosa</i> (Grey Fantail)			
127.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
128.	24454 <i>Rhipidura leucophrys</i> subsp. <i>leucophrys</i> (Willie Wagtail)			
Diplodactylidae				
129.	24918 <i>Crenadactylus ocellatus</i> subsp. <i>ocellatus</i> (Clawless Gecko)			
130.	24929 <i>Diplodactylus granariensis</i> subsp. <i>granariensis</i>			
131.	24939 <i>Diplodactylus polyophthalmus</i>			
132.	24943 <i>Strophurus spinigerus</i> subsp. <i>inornatus</i>			
133.	24942 <i>Strophurus spinigerus</i> subsp. <i>spinigerus</i>			
Elapidae				
134.	42381 <i>Brachyurophis semifasciatus</i> (Southern Shovel-nosed Snake)			
135.	25296 <i>Demansia psammophis</i> subsp. <i>reticulata</i> (Yellow-faced Whipsnake)			
136.	25251 <i>Echiopsis curta</i> (Bardick)			
137.	25250 <i>Elapognathus coronatus</i> (Crowned Snake)			
138.	25248 <i>Neelaps bimaculatus</i> (Black-naped Snake)			
139.	25249 <i>Neelaps calonotos</i> (Black-striped Snake)		P3	
140.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
141.	25253 <i>Parasuta gouldii</i>			
142.	25255 <i>Parasuta nigriceps</i>			

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143.	25511 <i>Pseudonaja affinis</i> (Dugite)			
144.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
145.	25266 <i>Simoselaps bertholdi</i> (Jan's Banded Snake)			
146.	<i>Simoselaps semifasciatus</i>			
Falconidae				
147.	25621 <i>Falco berigora</i> (Brown Falcon)			
148.	25622 <i>Falco cenchroides</i> (Australian Kestrel)			
149.	24472 <i>Falco cenchroides</i> subsp. <i>cenchroides</i> (Australian Kestrel)			
150.	25623 <i>Falco longipennis</i> (Australian Hobby)			
151.	25624 <i>Falco peregrinus</i> (Peregrine Falcon)		S	
152.	24475 <i>Falco peregrinus</i> subsp. <i>macropus</i> (Australian Peregrine Falcon)		S	
Felidae				
153.	24041 <i>Felis catus</i> (Cat)	Y		
Formicidae				
154.	<i>Aphaenogaster poultoni</i>			
Gekkonidae				
155.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
156.	24983 <i>Underwoodisaurus milii</i> (Barking Gecko)			
Gobiidae				
157.	<i>Pseudogobius olorum</i>			
Halcyonidae				
158.	30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
159.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
Helicidae				
160.	<i>Cantareus apertus</i>			
Henicopidae				
161.	<i>Henicops dentatus</i>			
Hirundinidae				
162.	<i>Cheramoeca leucosterna</i>			
163.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
164.	25629 <i>Hirundo nigricans</i> (Tree Martin)			
Hylidae				
165.	25378 <i>Litoria adelaidensis</i> (Slender Tree Frog)			
166.	25388 <i>Litoria moorei</i> (Motorbike Frog)			
Kalotermitidae				
167.	<i>Kalotermes aemulus</i>			
Lamponidae				
168.	<i>Lampona cylindrata</i>			
Laridae				
169.	<i>Chroicocephalus novaehollandiae</i>			
170.	<i>Hydroprogne caspia</i>			
171.	25637 <i>Larus novaehollandiae</i> (Silver Gull)			
172.	24511 <i>Larus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Silver Gull)			
173.	25638 <i>Larus pacificus</i> (Pacific Gull)			
174.	24530 <i>Sterna nereis</i> subsp. <i>nereis</i> (Fairy Tern)		T	
Leporidae				
175.	24085 <i>Oryctolagus cuniculus</i> (Rabbit)	Y		
Leptoceridae				
176.	<i>Triplectides australis</i>			
Lestidae				
177.	<i>Austrolestes analis</i>			
Libellulidae				
178.	<i>Diplacodes bipunctata</i>			
179.	<i>Orthetrum caledonicum</i>			
Limnodynastidae				
180.	25410 <i>Heleioporus eyrei</i> (Moaning Frog)			
181.	25415 <i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
Lycosidae				
182.	<i>Dingosa serrata</i>			
183.	<i>Hogna crispipes</i>			
184.	<i>Venatrix pullastra</i>			

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Macropodidae				
185.	24132 <i>Macropus fuliginosus</i> (Western Grey Kangaroo)			
Maeridae				
186.	<i>Parelasomopus</i> sp.			
Maluridae				
187.	25651 <i>Malurus lamberti</i> (Variegated Fairy-wren)			
188.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
Meliphagidae				
189.	24559 <i>Acanthagenys rufogularis</i> (Spiny-cheeked Honeyeater)			
190.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
191.	24561 <i>Anthochaera carunculata</i> (Red Wattlebird)			
192.	24562 <i>Anthochaera lunulata</i> (Western Little Wattlebird)			
193.	24567 <i>Epthianura albigrons</i> (White-fronted Chat)			
194.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
195.	24583 <i>Manorina flavigula</i> (Yellow-throated Miner)			
196.	25663 <i>Melithreptus brevirostris</i> (Brown-headed Honeyeater)			
197.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
198.	42340 <i>Ptilotula ornatus</i> (Yellow-plumed Honeyeater)			
Meropidae				
199.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)		IA	
Muridae				
200.	24215 <i>Hydromys chrysogaster</i> (Water-rat)		P4	
201.	24223 <i>Mus musculus</i> (House Mouse)	Y		
202.	24243 <i>Rattus fuscipes</i> (Western Bush Rat)			
203.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
Myobatrachidae				
204.	25400 <i>Crinia insignifera</i> (Squelching Froglet)			
205.	25420 <i>Myobatrachus gouldii</i> (Turtle Frog)			
206.	25433 <i>Pseudophryne guentheri</i> (Crawling Toadlet)			
Nemesiidae				
207.	<i>Aname mainae</i>			
208.	<i>Aname tepperi</i>			
Neosittidae				
209.	25673 <i>Daphoenositta chrysoptera</i> (Varied Sittella)			
Nephilidae				
210.	<i>Nephila edulis</i>			
Noctuidae				
211.	<i>Helicoverpa armigera</i>			
Notonectidae				
212.	<i>Anisops thienemanni</i>			
Pachycephalidae				
213.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
214.	24613 <i>Colluricincla harmonica</i> subsp. <i>rufiventris</i> (Grey Shrike-thrush)			
215.	24616 <i>Falcunculus frontatus</i> subsp. <i>leucogaster</i> (Western Shrike-tit, Crested Shrike-tit)			
216.	25679 <i>Pachycephala pectoralis</i> (Golden Whistler)			
217.	24623 <i>Pachycephala pectoralis</i> subsp. <i>fuliginosa</i> (Golden Whistler)			
218.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
219.	24624 <i>Pachycephala rufiventris</i> subsp. <i>rufiventris</i> (Rufous Whistler)			
Pachygronhidae				
220.	<i>Darwinocoris australicus</i>			
Paradoxosomatidae				
221.	<i>Antichiropus whistleri</i>			
Pardalotidae				
222.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
223.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
Passeridae				
224.	25687 <i>Passer domesticus</i> (House Sparrow)	Y		
225.	24641 <i>Passer domesticus</i> subsp. <i>domesticus</i> (House Sparrow)	Y		Y
Pelecanidae				
226.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			

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Peramelidae				
227.	25478 <i>Isoodon obesulus</i> (Southern Brown Bandicoot)		P5	
228.	24153 <i>Isoodon obesulus</i> subsp. <i>fusciventer</i> (Quenda, Southern Brown Bandicoot)		P5	
Petroicidae				
229.	25693 <i>Microeca fascians</i> (Jacky Winter)			
230.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
231.	24660 <i>Petroica multicolor</i> subsp. <i>campbelli</i> (Scarlet Robin)			
Phalacrocoracidae				
232.	<i>Microcarbo melanoleucos</i>			
233.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
234.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
235.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
236.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
Phalangeridae				
237.	25521 <i>Trichosurus vulpecula</i> (Common Brushtail Possum)			
238.	24158 <i>Trichosurus vulpecula</i> subsp. <i>vulpecula</i> (Common Brushtail Possum)			
Phasianidae				
239.	25701 <i>Coturnix ypsilophora</i> (Brown Quail)			
Physidae				
240.	<i>Physa acuta</i>			
Plagiorchiidae				
241.	<i>Aptorchis</i> sp.			
Platycephalidae				
242.	<i>Platycephalus endrachtensis</i>			
243.	<i>Platycephalus</i> sp.			
Podargidae				
244.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
245.	24679 <i>Podargus strigoides</i> subsp. <i>brachypterus</i> (Tawny Frogmouth)			
Podicipedidae				
246.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
247.	24680 <i>Podiceps cristatus</i> subsp. <i>australis</i> (Great Crested Grebe)			
248.	24681 <i>Polyocephalus polyocephalus</i> (Hoary-headed Grebe)			
249.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
250.	24682 <i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
Poeciliidae				
251.	<i>Gambusia affinis</i>			
Procellariidae				
252.	24690 <i>Macronectes giganteus</i> (Southern Giant Petrel)			
253.	24693 <i>Pachyptila desolata</i> (Antarctic Prion)			
Psittacidae				
254.	<i>Barnardius zonarius</i>			
255.	25713 <i>Cacatua galerita</i> (Sulphur-crested Cockatoo)			
256.	24721 <i>Cacatua galerita</i> subsp. <i>galerita</i> (Sulphur-crested Cockatoo)	Y		
257.	25714 <i>Cacatua pastinator</i> (Western Long-billed Corella)			
258.	25715 <i>Cacatua roseicapilla</i> (Galah)			
259.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
260.	<i>Cacatua</i> sp.			
261.	24729 <i>Cacatua tenuirostris</i> (Eastern Long-billed Corella)	Y		
262.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
263.	24733 <i>Calyptorhynchus baudinii</i> (Baudin's Cockatoo (long-billed black-cockatoo), Baudin's Cockatoo)		T	
264.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo (short-billed black-cockatoo), Carnaby's Cockatoo)		T	
265.	<i>Calyptorhynchus</i> sp.			
266.	24735 <i>Glossopsitta porphyrocephala</i> (Purple-crowned Lorikeet)			
267.	24738 <i>Neophema elegans</i> (Elegant Parrot)			
268.	25720 <i>Platycercus icterotis</i> (Western Rosella)			
269.	24747 <i>Platycercus spurius</i> (Red-capped Parrot)			
270.	25721 <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)			
271.	25722 <i>Polytelis anthopeplus</i> (Regent Parrot)			
272.	<i>Purpureicephalus spurius</i>			
273.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
274.	24755 <i>Trichoglossus haematodus</i> subsp. <i>moluccanus</i> (Rainbow Lorikeet)	Y		

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Pygopodidae				
275.	24991 <i>Aprasia repens</i> (Sand-plain Worm-lizard)			
276.	24999 <i>Delma grayii</i>			
277.	25005 <i>Lialis burtonis</i>			
278.	25007 <i>Pletholax gracilis</i> subsp. <i>gracilis</i> (Keeled Legless Lizard)			
279.	25008 <i>Pygopus lepidopodus</i> (Common Scaly Foot)			
Rallidae				
280.	25727 <i>Fulica atra</i> (Eurasian Coot)			
281.	24761 <i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)			
282.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
283.	24763 <i>Gallinula tenebrosa</i> subsp. <i>tenebrosa</i> (Dusky Moorhen)			
284.	25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)			
285.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
286.	24767 <i>Porphyrio porphyrio</i> subsp. <i>bellus</i> (Purple Swamphen)			
287.	24769 <i>Porzana fluminea</i> (Australian Spotted Crake)			
288.	25732 <i>Porzana pusilla</i> (Baillon's Crake)			
289.	24771 <i>Porzana tabuensis</i> (Spotless Crake)			
290.	<i>Tribonyx ventralis</i>			
Recurvirostridae				
291.	24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
292.	25734 <i>Himantopus himantopus</i> (Black-winged Stilt)			
293.	24776 <i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			
Rhinotermitidae				
294.	<i>Coptotermes michaelsoni</i>			
295.	<i>Schedorhinotermes reticulatus</i>			
Salticidae				
296.	<i>Ocrisiona leucocomis</i>			
Scincidae				
297.	42368 <i>Acritoscincus trilineatus</i> (Western Three-lined Skink)			
298.	30893 <i>Cryptoblepharus buchananii</i>			
299.	25020 <i>Cryptoblepharus plagioccephalus</i>			
300.	25027 <i>Ctenotus australis</i>			
301.	25039 <i>Ctenotus fallens</i>			
302.	25047 <i>Ctenotus impar</i>			
303.	25087 <i>Cyclodomorphus celatus</i> (Western Slender Blue-tongue)			
304.	25100 <i>Egernia napoleonis</i>			
305.	25119 <i>Hemiergis quadrilineata</i>			
306.	25133 <i>Lerista elegans</i>			
307.	25148 <i>Lerista lineopunctulata</i>			
308.	25165 <i>Lerista praepedita</i>			
309.	25184 <i>Menetia greyii</i>			
310.	25192 <i>Morethia obscura</i>			
311.	25203 <i>Tiliqua occipitalis</i> (Western Bluetongue)			
312.	25519 <i>Tiliqua rugosa</i>			
313.	25207 <i>Tiliqua rugosa</i> subsp. <i>rugosa</i>			
Scolopacidae				
314.	41323 <i>Actitis hypoleucos</i> (Common Sandpiper)		IA	
315.	24779 <i>Calidris acuminata</i> (Sharp-tailed Sandpiper)		IA	
316.	24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)		T	
317.	24786 <i>Calidris melanotos</i> (Pectoral Sandpiper)		IA	
318.	24788 <i>Calidris ruficollis</i> (Red-necked Stint)		IA	
319.	24789 <i>Calidris subminuta</i> (Long-toed Stint)		IA	
320.	25741 <i>Limosa limosa</i> (Black-tailed Godwit)		IA	
321.	24806 <i>Tringa glareola</i> (Wood Sandpiper)		IA	
322.	24808 <i>Tringa nebularia</i> (Common Greenshank)		IA	
Scolopendridae				
323.	<i>Cormocephalus aurantiipes</i>			
324.	<i>Ethmostigmus rubripes</i>			
Sparassidae				
325.	<i>Eodelena convexa</i>			
326.	<i>Isopeda leishmanni</i>			
Strigidae				
327.	25748 <i>Ninox novaeseelandiae</i> (Boobook Owl)			
Succineidae				
328.	<i>Succinea (succinea)</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Sylviidae				
329.	25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)			
330.	25758 <i>Megalurus gramineus</i> (Little Grassbird)			
Synthemistidae				
331.	<i>Archaeosynthemis leachii</i>			
332.	<i>Archaeosynthemis occidentalis</i>			
Tachyglossidae				
333.	24207 <i>Tachyglossus aculeatus</i> (Short-beaked Echidna)			
Tenebrionidae				
334.	<i>Helea perforata</i>			
335.	<i>Pterohelaeus guerini</i>			
336.	<i>Pterohelaeus parallelus</i>			
Tettigoniidae				
337.	<i>Pachysaga australis</i>			
Theridiidae				
338.	<i>Latrodectus hasseltii</i>			
Threskiornithidae				
339.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
340.	24842 <i>Platalea regia</i> (Royal Spoonbill)			
341.	24843 <i>Plegadis falcinellus</i> (Glossy Ibis)		IA	
342.	24844 <i>Threskiornis molucca</i> (Australian White Ibis)			
343.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
Tytonidae				
344.	24852 <i>Tyto alba</i> subsp. <i>delicatula</i> (Barn Owl)			
Urodacidae				
345.	<i>Urodacus novaehollandiae</i>			
Varanidae				
346.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
347.	25526 <i>Varanus tristis</i> (Racehorse Monitor)			
Zosteropidae				
348.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			
349.	24856 <i>Zosterops lateralis</i> subsp. <i>gouldi</i> (Grey-breasted White-eye)			

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.



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: 14/04/16 14:54:05

[Summary](#)

[Details](#)

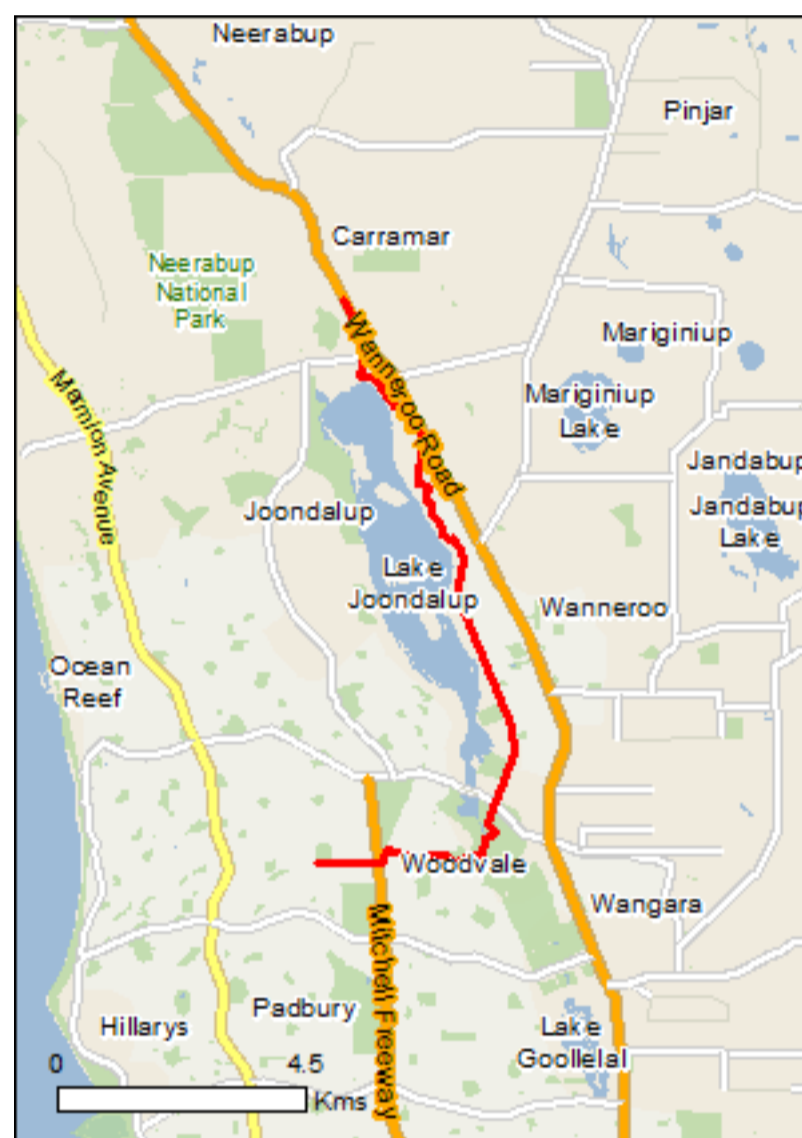
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

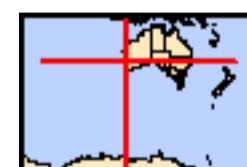
[Acknowledgements](#)



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

[Coordinates](#)

Buffer: 0.02Km



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:	None
Listed Threatened Species:	11
Listed Migratory Species:	9

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:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	14
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:	3
Regional Forest Agreements:	None
Invasive Species:	41
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calyptorhynchus latirostris Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat likely to occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Mammals		
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Anigozanthos viridis subsp. terraspectans Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat may occur within area
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat likely to occur within area
Darwinia foetida Muceha Bell [83190]	Critically Endangered	Species or species habitat may 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, Praying Virgin [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

Listed Migratory Species		[Resource Information]
Name	Threatened	Type of Presence
* 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		
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Ardea alba Great Egret, White Egret [59541]		Species or species habitat known 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 known to occur within area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Birds		
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 known 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 known to occur within area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species

Name	Threatened	Type of Presence
Himantopus himantopus Black-winged Stilt [870]		habitat known to occur within area Species or species habitat known to occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Recurvirostra novaehollandiae Red-necked Avocet [871]		Species or species habitat known 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 known to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Lake Joondalup	WA
Unnamed WA21176	WA
Woodvale Nature Reserve	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

Name	Status	Type of Presence
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		habitat likely to occur within area Species or species habitat likely to occur within area
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		
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
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

Name	Status	Type of Presence
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Asparagus declinatus Bridal Veil, Bridal Veil Creeper, Pale Berry Asparagus Fern, Asparagus Fern, South African Creeper [66908]		Species or species habitat likely to occur within area
Asparagus plumosus Climbing Asparagus-fern [48993]		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 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 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]		Species or species habitat likely to occur within area
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
Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to 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
Protasparagus plumosus Climbing Asparagus-fern, Ferny Asparagus [11747]		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

Name	Status	Type of Presence
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

Nationally Important Wetlands	[Resource Information]
Name	State
Joondalup Lake	WA

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.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

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

-31.786693 115.771205,-31.786693 115.781848,-31.784796 115.782449,-31.785817 115.786912,-31.785525 115.79232,-31.786984 115.793264,-31.785671 115.79601,-31.785598 115.798242,-31.783336 115.798414,-31.782607 115.800216,-31.781002 115.798929,-31.771443 115.80322,-31.767868 115.802619,-31.75028 115.794036,-31.748528 115.794208,-31.746922 115.794551,-31.745024 115.795066,-31.743638 115.794637,-31.741813 115.793436,-31.741959 115.792835,-31.741229 115.791719,-31.740499 115.791633,-31.739623 115.791204,-31.738674 115.790431,-31.738163 115.789916,-31.736849 115.790002,-31.736703 115.788801,-31.736265 115.789058,-31.734805 115.789401,-31.734075 115.787857,-31.73298 115.787685,-31.732615 115.787857,-31.728819 115.788715,-31.724293 115.78614,-31.723636 115.783565,-31.719474 115.780303,-31.719547 115.778243,-31.715459 115.779273,-31.708814 115.775325,-31.708814 115.775325

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](#)
- [-Parks and Wildlife Commission NT, Northern Territory Government](#)
- [-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, Atherton and Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- 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 H

Flora Likelihood Table

Assessment of the Likely Occurrence of DRF and Priority Flora (as per DPaW and EPBC Database Searches) in the Survey Area

¹Closest record to Survey Area based on DPaW 2015. Likely = Suitable habitat present and records less than 5 km from the Survey Area, Possible = Suitable habitat present and records between 5 km and 10 km from the Survey Area, and Unlikely = No suitable habitat present and/or records greater than 10 km from the Survey Area. En = Listed as Endangered under the EBPC Act, Vu = Listed as Vulnerable under the EBPC, Ce = Critically Endangered under the EBPC Act, P = Listed as Priority by the DPaW DRF = Declared Rare Flora as listed by the State.

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
EPBC PMST	Vulnerable	DRF/T	<i>Anigozanthos viridis subsp. terraspectans</i>	Grey sand, clay loam. Winter-wet depressions	72km	No	Unlikely
NatureMap EPBC PMST	Endangered	DRF/T	<i>Caladenia huegelii</i>	Grey or brown sand, clay loam.	6.93 km	Yes	Possible
EPBC PMST	Critically Endangered	DRF/T	<i>Darwinia foetida</i>	Unavailable	22.2 km	Unknown	Unlikely
DPaW	Critically Endangered	DRF/T	<i>Dasymalla axillaris</i>	Unavailable	125.9	Unknown	Unknown
EPBC PMST	Vulnerable	DRF/T	<i>Diuris micrantha</i>	Brown loamy clay. Winter-wet swamps, in shallow water.	50 km	No	Unlikely
EPBC PMST	Endangered	DRF/T	<i>Diuris purdiei</i>	Grey-black sand, moist. Winter-wet swamps.	30 km	No	Unlikely
EPBC PMST	Endangered	DRF/T	<i>Drakaea elastica</i>	White or grey sand. Low-lying situations adjoining winter-wet swamps.	33 km	No	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW					
EPBC PMST	Vulnerable	DRF/T	<i>Drakaea micrantha</i>	White-grey sand.	40.7 km	Yes	Unlikely
DPaW NatureMap		DRF/T	<i>Marianthus paralius</i>	White sand over limestone. Low coastal cliffs	2.5 km	No	Unlikely
DPaW NatureMap	-	P1	<i>Baeckea sp. Limestone</i>	Unavailable	145m	Unknown	Unknown
DPaW	-	P1	<i>Drosera x sidjamesii</i>	Peaty sand. Along lake margins, close to winter high-water line	6.22 km	No	Unlikely
DPaW	-	P1	<i>Grevillea sp. Ocean Reef</i>	Unavailable	No data	Unknown	Unknown
DPaW		P1	<i>Melaleuca sp. Wanneroo</i>	Unavailable	No data	Unknown	Unknown
DPaW NatureMap	-	P2	<i>Acacia benthamii</i>	Typically on limestone breakaways	468m	No	Unlikely
DPaW NatureMap	-	P2	<i>Austrostipa mundula</i>	Unavailable	2.1km	Unknown	Unknown
DPaW	-	P2	<i>Calectasia elegans</i>	Unavailable	10.3 km	Unknown	Unknown
DPaW	-	P2	<i>Fabronia hampeana</i>	Unavailable	2.3 km	Unknown	Unknown

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW					
DPaW NatureMap	-	P2	<i>Tetraria sp.</i> <i>Chandala</i>	Along edges of swamp. Black peaty sand	494 m	No	Unlikely
DPaW NatureMap	-	P2	<i>Thelymitra</i> <i>variegata</i>	Sandy clay, sand, laterite.	468m	No	Unlikely
DPaW NatureMap	-	P3	<i>Conostylis</i> <i>bracteata</i>	Sand, limestone. Consolidated sand dunes	33m	Yes	Found within Survey Area
DPaW	-	P3	<i>Cyathochaeta</i> <i>teretifolia</i>	Grey sand, sandy clay. Swamps, creek edges.	6.6 km	No	Unlikely
NatureMap	-	P3	<i>Lasiopetalum</i> <i>membranaceum</i>	Sand over limestone	700 m	Yes	Likely
DPaW	-	P3	<i>Leucopogon sp.</i> <i>Yanchep</i>	Light grey-yellow sand, brown loam, limestone, laterite, granite. Coastal plain, breakaways, valley slopes, low hills.	No data	Yes	Possible
DPaW NatureMap	-	P3	<i>Pimelea calcicola</i>	Coastal limestone ridges	468 m	No	Unlikely
DPaW	-	P3	<i>Sarcozona</i> <i>bicarinata</i>	White sand	6 km	No	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW					
DPaW NatureMap	-	P3	<i>Stylidium paludicola</i>	Peaty sand over clay. Winter-wet areas. Marri and <i>Melaleuca</i> woodland, <i>Melaleuca</i> shrubland.	2.5 km	No	Unlikely
DPaW NatureMap	-	P4	<i>Jacksonia sericea</i>	Calcareous and sandy soils	600m	Yes	Likely
DPaW	-	P4	<i>Schoenus griffinianus</i>	White sand	12.7	No	Unlikely

APPENDIX I

Flora Inventory

Family	Taxa	Indigenous name
	<i>Ptilotus drummondii</i>	
Amaranthaceae	<i>Ptilotus polystachyus</i>	
Anacardiaceae	* <i>Schinus terebinthifolius</i>	
Apiaceae	* <i>Eryngium pinnatifidum</i>	
Apocynaceae	* <i>Nerium oleander</i>	
Araliaceae	<i>Trachymene pilosa</i>	
Asteraceae	<i>Asteraceae sp.</i>	
Asparagaceae	<i>Chamaescilla corymbosa</i>	
	<i>Lomandra caespitosa</i>	
	<i>Lomandra hermaphrodita</i>	
	<i>Lomandra micrantha</i>	
	<i>Lomandra preissii</i>	
	<i>Sowerbaea laxiflora</i>	
	<i>Thysanotus manglesianus</i>	
	<i>Thysanotus dichotomus</i>	
	<i>Lagenophora huegelii</i>	
	<i>Podolepis sp.</i>	
	<i>Senecio sp.</i>	
	* <i>Arctotheca calendula</i>	
	* <i>Hypochaeris glabra</i>	
	* <i>Ursinia anthemoides</i>	
	<i>Olearia axillaris</i>	
* <i>Conyza bonariensis</i>		
Caryophyllaceae	* <i>Cerastium glomeratum</i>	
	* <i>Polycarpon tetraphyllum</i>	
Casuarinaceae	<i>Allocasuarina fraseriana</i>	Kwel
	<i>Allocasuarina humilis</i>	
Chenopodiaceae	<i>Rhagodia baccata subsp. baccata</i>	
Colchicaceae	<i>Burchardia congesta</i>	
Crassulaceae	<i>Crassula colorata var. acuminata</i>	
	* <i>Crassula thunbergiana</i>	
Cyperaceae	<i>Baumea articulata</i>	
	* <i>Cyperus congestus</i>	
	* <i>Cyperus tenellus</i>	
	<i>Isolepis sp.</i>	
	<i>Lepidosperma leptostachyum</i>	
	<i>Lepidosperma longitudinale</i>	
	<i>Lepidosperma pubisquamum</i>	
	<i>Lepidosperma sp.</i>	
	<i>Mesomelaena pseudostygia</i>	
	<i>Schoenus curvifolius</i>	
	<i>Tetraria octandra</i>	
Dennstaedtiaceae	<i>Pteridium esculentum</i>	

Family	Taxa	Indigenous name
Dilleniaceae	<i>Hibbertia hibbertioides</i>	
	<i>Hibbertia hypericoides</i>	
	<i>Hibbertia racemosa</i>	
Droseraceae	<i>Drosera erythrogyne</i>	
	<i>Drosera macrantha</i>	
Ericaceae	<i>Conostephium pendulum</i>	
	<i>Leucopogon nutans</i>	
Euphorbiaceae	* <i>Ricinus communis</i>	
Fabaceae	<i>Acacia extensa</i>	
	<i>Acacia pulchella</i>	
	<i>Acacia rostellifera</i>	Koonart
	<i>Acacia saligna</i>	
	<i>Bossiaea eriocarpa</i>	
	<i>Daviesia angulata</i>	
	<i>Daviesia decurrens</i>	
	<i>Daviesia divaricata</i>	
	<i>Gastrolobium capitatum</i>	
	<i>Gompholobium tomentosum</i>	
	<i>Hardenbergia comptoniana</i>	
	<i>Hovea trisperma</i>	
	<i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>	
	<i>Jacksonia furcellata</i>	
	<i>Jacksonia sternbergiana</i>	
* <i>Lupinus</i> sp.		
<i>Viminaria juncea</i>		
Geraniaceae	* <i>Pelargonium capitatum</i>	
Goodeniaceae	<i>Scaevola canescens</i>	
	<i>Scaevola repens</i>	
Haemodoraceae	<i>Conostylis aculeata</i>	
	<i>Conostylis bracteata</i> (P3)	
	<i>Haemodorum</i> sp.	
Hemerocallidaceae	<i>Dianella revoluta</i>	
	<i>Tricoryne tenella</i>	
Iridaceae	* <i>Ferraria crispa</i>	
	* <i>Freesia</i> sp.	
	* <i>Gladiolus caryophyllaceus</i>	
	* <i>Moraea flaccida</i>	
	<i>Orthrosanthus laxis</i>	
	* <i>Romulea rosea</i>	
Juncaceae	<i>Juncus pallidus</i>	

Family	Taxa	Indigenous name
	<i>Luzula meridionalis</i>	
Lamiaceae	<i>Hemiandra pungens</i>	
Meliaceae	* <i>Melia azedarach</i>	
Moraceae	<i>Ficus macrophylla</i>	
Myrtaceae	<i>Agonis flexuosa</i> (ne)	
	<i>Callistemon</i> sp. (ne)	
	<i>Calothamnus quadrifidus</i>	
	<i>Chamelaucium uncinatum</i>	
	<i>Corymbia calophylla</i>	
	<i>Eucalyptus accedens</i> (ne)	
	<i>Eucalyptus gomphocephala</i>	
	<i>Eucalyptus marginata</i>	Djarraly
	<i>Eucalyptus rudis</i>	
	<i>Hypocalymma robustum</i>	
	* <i>Leptospermum laevigatum</i>	
	<i>Melaleuca nesophila</i>	
	<i>Melaleuca raphiophylla</i>	Bibol/Yowarl
Oleaceae	* <i>Olea europaea</i>	
Orchidaceae	<i>Caladenia arenicola</i>	
	<i>Caladenia discoidea</i>	
	<i>Caladenia flava</i>	
	<i>Cyrtostylis huegelii</i>	
	<i>Elythranthera brunonis</i>	
	<i>Pterostylis pyramidalis</i>	
		<i>Pterostylis</i> sp.
Oxalidaceae	* <i>Oxalis pes-caprae</i>	
Phyllanthaceae	<i>Phyllanthus calycinus</i>	
	<i>Phyllanthus calycinus</i>	
Pinaceae	* <i>Pinus pinaster</i>	
	* <i>Aira caryophyllea</i>	
	* <i>Briza maxima</i>	
	* <i>Cynodon dactylon</i>	
	* <i>Ehrharta calycina</i>	
	* <i>Ehrharta longiflora</i>	
	* <i>Eragrostis curvula</i>	
	* <i>Cynodon dactylon</i>	
	<i>Microlaena stipoides</i>	
	* <i>Pennisetum clandestinum</i>	
		* <i>Poa annua</i>
Poaceae	* <i>Poaceae</i> sp.	
Primulaceae	<i>Lysimachia arvensis</i>	
Proteaceae	<i>Banksia attenuata</i>	Mandatj

Family	Taxa	Indigenous name
	<i>Banksia grandis</i>	Mandatj
	<i>Banksia ilicifolia</i>	
	<i>Banksia menziesii</i>	
	<i>Banksia prionotes</i>	
	<i>Grevillea vestita subsp. vestita</i>	
	<i>Hakea trifurcata</i>	
	<i>Hakea lissocarpha</i>	
	<i>Hakea prostrata</i>	
	<i>Petrophile linearis</i>	
	<i>Petrophile macrostachya</i>	
	<i>Alexgeorgea nitens</i>	
	<i>Desmocladius fasciculatus</i>	
	<i>Desmocladius flexuosus</i>	
Restionaceae	<i>Loxocarya cinerea</i>	
Rubiaceae	<i>Opercularia vaginata</i>	
Stylidiaceae	<i>Stylidium ? araeophyllum</i>	
	<i>Stylidium piliferum</i>	
Thymelaeaceae	<i>Pimelea sulphurea</i>	
Typhaceae	* <i>Typha orientalis</i>	
Violaceae	<i>Hybanthus calycinus</i>	
Xanthorrhoeaceae	<i>Xanthorrhoea gracilis</i>	
	<i>Xanthorrhoea preissii</i>	Koaroop
Zamiaceae	<i>Macrozamia riedlei</i>	

Note: (ne) = Non endemic species/planted

* = Weed species

APPENDIX J

Flora Survey Area Data Sheets

Opportunistic Species

Acacia rostellifera
Acacia saligna
Agonis flexuosa
Allocasuarina humilis
Banksia grandis
Caladenia arenicola
Callistemon sp.
Calothamnus quadrifidus
Chamelaucium uncinatum
Conostylis bracteata
Conyza bonariensis
Cynodon dactylon
Cyperus congestus
Cyrtostylis huegelii
Dianella revoluta
Drosera erythrorhiza
Elythranthera brunonis
Eragrostis curvula
Eucalyptus accedens
Eucalyptus gomphocephala
Eucalyptus rudis
Ficus macrophylla
Gladiolus caryophyllaceus
Grevillea vestita subsp. vestita
Hakea lissocarpha
Hakea prostrata
Hardenbergia comptoniana
Hovea trisperma
Hypocalymma robustum
Jacksonia furcellata
Jacksonia sternbergiana
Juncus pallidus
Leptospermum laevigatum
Lomandra preissii
Lupinus sp.
Melaleuca nesophila
Melaleuca raphiophylla
Moraea flaccida
Nerium oleander
Olea europaea
Olearia axillaris
Pennisetum clandestinum
Phyllanthus calycinus
Pinus pinaster
Pteridium esculentum
Ptilotus drummondii
Ricinus communis
Schinus terebinthifolius
Tetraria octandra
Thysanotus dichotomus

Site Q1

Described by NW
Date 6/09/2016
Type Q 10m x 10m
Location 150 m in from Cuvier Grove
 along the pipeline alignment
MGA Zone 50 385081mE 6488674mN
Habitat Gentle slope - Mid slope
Soil Brown/grey sand - yellow/orange
 at depth



Vegetation Woodland of *Eucalyptus marginata*, *Banksia attenuata*, *Banksia menziesii* over *Xanthorrhoea preissii*, *Hibbertia hypericoides*, *Hypocalymma robustum* over *Briza maxima*

Veg Condition VG - G

Fire Age >12

Notes *Allocasuarina fraseriana* just out of quadrat

Disturbance: Weeds

Ground Cover: 2% Bareground, 1.5% Logs, 4% Twigs, 7% Leaves

Name	Cover	Height
<i>Aira caryophyllea</i>	+	6
<i>Allocasuarina humilis</i>	1.5%	110
<i>Asteraceae</i> sp.	+	7
<i>Banksia attenuata</i>	4%	500
<i>Banksia menziesii</i>	5%	1000
<i>Briza maxima</i>	15%	5
<i>Burchardia congesta</i>	+	60
<i>Caladenia flava</i>	+	15
<i>Caladenia</i> sp.	+	15
<i>Chamaescilla corymbosa</i>	+	3
<i>Conostylis aculeata</i>	+	30
<i>Daviesia decurrens</i>	1	65
<i>Desmocladius fasciculatus</i>	+	6
<i>Desmocladius flexuosus</i>	+	10
<i>Dianella revoluta</i>	+	55
<i>Drosera erythrorhiza</i>	+	1
<i>Eryngium pinnatifidum</i>	+	50
<i>Eucalyptus marginata</i>	8%	600
<i>Freesia</i> sp.	+	15
<i>Gladiolus caryophyllaceus</i>	+	50
<i>Haemodorum</i> sp.	+	50
<i>Hardenbergia comptoniana</i>	+	C
<i>Hibbertia hypericoides</i>	20%	55
<i>Hibbertia racemosa</i>	+	40
<i>Hovea trisperma</i>	+	40
<i>Hypocalymma robustum</i>	1%	40
<i>Hypochaeris glabra</i>	6%	1

<i>Lagenophora huegelii</i>	+	10
<i>Lepidosperma sp.</i>	+	30
<i>Leucopogon nutans</i>	+	35
<i>Lomandra caespitosa</i>	+	35
<i>Mesomelaena pseudostygia</i>	+	50
<i>Microlaena stipoides</i>	+	5
<i>Opercularia vaginata</i>	+	25
<i>Pimelea sulphurea</i>	+	40
<i>Pterostylis pyramidalis</i>	+	6
<i>Sowerbaea laxiflora</i>	+	40
<i>Stylidium ? araeophyllum</i>	+	7
<i>Thysanotus manglesianus</i>	+	T
<i>Trachymene pilosa</i>	+	3
<i>Ursinia anthemoides</i>	3%	15
<i>Xanthorrhoea preissii</i>	6%	150

Site Q2

Described by NW
Date 6/09/2016
Type Q 10 x 10m
MGA Zone 50 385025mE 6488884mN
Soil Grey yellow sand, organic matter
 at surface



Vegetation Low woodland of *Banksia menziesii*, *Banksia attenuata* and *Allocasuarina fraseriana* over *Xanthorrhoea preissii*, *Hibbertia hypericoides* over *Briza maxima*

Veg Condition VG - G

Fire Age >12

Disturbance: Weeds

Ground Cover: 1% Bareground, 2% Logs, 4% Twigs, 15% Leaves

Name	Cover	Height
<i>Allocasuarina fraseriana</i>	40	800
<i>Arctotheca calendula</i>	+	15
<i>Asteraceae</i> sp.	+	8
<i>Banksia attenuata</i>	1.5	400
<i>Banksia menziesii</i>	20	700
<i>Bossiaea eriocarpa</i>	1	40
<i>Briza maxima</i>	10	10
<i>Caladenia flava</i>	+	10
<i>Conostylis aculeata</i>	+	30
<i>Daviesia divaricata</i>	+	45
<i>Desmocladius flexuosus</i>	+	15
<i>Dianella revoluta</i>	+	40
<i>Drosera erythrorhiza</i>	+	10
<i>Gladiolus caryophyllaceus</i>	+	35
<i>Gompholobium tomentosum</i>	+	20
<i>Haemodorum</i> sp.	+	110
<i>Hemiandra pungens</i>	1	15
<i>Hibbertia hypericoides</i>	5	10
<i>Hybanthus calycinus</i>	+	20
<i>Hypocalymma robustum</i>	1	55
<i>Hypochaeris glabra</i>	2	1
<i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>	+	35
<i>Lagenophora huegelii</i>	+	3
<i>Lepidosperma leptostachyum</i>	+	30
<i>Lepidosperma</i> sp.	+	35
<i>Lomandra hermaphrodita</i>	+	65
<i>Mesomelaena pseudostygia</i>	1	40

<i>Opercularia vaginata</i>	+	45
<i>Pimelea sulphurea</i>	+	40
<i>Schoenus curvifolius</i>	+	30
<i>Sowerbaea laxiflora</i>	+	50
<i>Trachymene pilosa</i>	+	2
<i>Tricoryne tenella</i>	+	35
<i>Ursinia anthemoides</i>	+	25
<i>Xanthorrhoea preissii</i>	25	80

Site Q3

Described by NW

Date 6/09/2016

Type Q 10 x 10 m

MGA Zone 50 384925 mE 6488739 mN

Habitat Gentle slope down towards lake

Soil Brown grey loamy sand



Vegetation Low open woodland of *Banksia attenuata*, *Banksia menziesii*, *Banksia ilicifolia* over *Xanthorrhoea preissii*, *Hibbertia hypericoides* over *Briza maxima*

Veg Condition G

Fire Age >12

Notes Some Banksia death

Disturbance: Weeds

Ground Cover: 2% Bareground, 2% Logs, 4% Twigs, 15% Leaves

Name	Cover	Height
<i>Acacia pulchella</i>	1	130
<i>Aira caryophyllea</i>	+	5
Asteraceae sp.	+	5
<i>Banksia attenuata</i>	5	400
<i>Banksia ilicifolia</i>	3	500
<i>Banksia menziesii</i>	5	400
<i>Bossiaea eriocarpa</i>	+	40
<i>Briza maxima</i>	35	15
<i>Burchardia congesta</i>	+	50
<i>Caladenia flava</i>	+	+
<i>Cerastium glomeratum</i>	+	10
<i>Cyperus tenellus</i>	+	4
<i>Daviesia divaricata</i>	+	20
<i>Desmocladius flexuosus</i>	1	15
<i>Dianella revoluta</i>	+	50
<i>Drosera erythrorhiza</i>	+	1
<i>Drosera macrantha</i>	+	15
<i>Ehrharta calycina</i>	+	80
<i>Gladiolus caryophyllaceus</i>	+	60
<i>Gompholobium tomentosum</i>	1	130
<i>Grevillea vestita</i> subsp. <i>vestita</i>	2	120
<i>Haemodorum</i> sp.	+	80
<i>Hibbertia hypericoides</i>	25	65
<i>Hybanthus calycinus</i>	+	20
<i>Hypocalymma robustum</i>	3.5	60
<i>Hypochoeris glabra</i>	1.5	1
<i>Jacksonia sternbergiana</i>	1.5	450
<i>Lagenophora huegelii</i>	+	2

<i>Lomandra caespitosa</i>	+	30
<i>Macrozamia riedlei</i>	1	160
<i>Mesomelaena pseudostygia</i>	1.5	70
<i>Petrophile linearis</i>	+	40
<i>Pterostylis pyramidalis</i>	+	10
<i>Thysanotus manglesianus</i>	+	+
<i>Trachymene pilosa</i>	+	2
<i>Ursinia anthemoides</i>	1	25
<i>Xanthorrhoea preissii</i>	7	120

Site Q4

Described by NW
Date 6/09/2016
Type Q 10m x 10m
Location Close to footpath (5m), and 10m from old building pad
MGA Zone 50 384866mE 6489097mN
Habitat Gentle slope towards lake, lower slope
Soil Grey sand



Vegetation Open woodland of *Banksia menziesii*, *Banksia attenuata* over *Jacksonia furcellata*, *Hibbertia hypericoides*, over *Loxocarya cinerea*

Veg Condition G - D

Fire Age >12

Disturbance: Weeds

Ground Cover: 5% Bareground, 0% Logs, 4% Twigs, 20% Leaves

Name	Cover	Height
<i>Acacia pulchella</i>	1	60
<i>Banksia attenuata</i>	25	1000
<i>Banksia menziesii</i>	40	1000
<i>Briza maxima</i>	8	20
<i>Burchardia congesta</i>	+	50
<i>Caladenia flava</i>	+	15
<i>Conostylis aculeata</i>	+	25
<i>Dianella revoluta</i>	+	40
<i>Drosera erythrogynne</i>	3	1
<i>Ehrharta longiflora</i>	+	20
<i>Ferraria crispa</i>	2	25
<i>Gladiolus caryophyllaceus</i>	+	40
<i>Hibbertia hypericoides</i>	3	50
<i>Hovea trisperma</i>	+	25
<i>Hypochaeris glabra</i>	+	10
<i>Jacksonia furcellata</i>	1.5	250
<i>Lepidosperma pubisquameum</i>	1.5	40
<i>Lomandra caespitosa</i>	2	30
<i>Lomandra hermaphrodita</i>	+	20
<i>Loxocarya cinerea</i>	8	20
<i>Mesomelaena pseudostygia</i>	+	60
<i>Gastrolobium capitatum</i>	+	30
<i>Pelargonium capitatum</i>	3	25
<i>Petrophile linearis</i>	+	25
<i>Phyllanthus calycinus</i>	1	50
<i>Poaceae sp.</i>	6	30
<i>Romulea rosea</i>	1	20
<i>Ursinia anthemoides</i>	+	20

Site Q5

Described by NW

Date 6/09/2016

Type Q 10m x 10m

Location South of Pines

MGA Zone 50 385174mE 6488870 m

Habitat Flat - Plain/flat

Soil Grey sand, yellow at depth



Vegetation Woodland of *Eucalyptus marginata*, *Banksia attenuata*, *Allocasuarina fraseriana* over *Xanthorrhoea preissii*, *Hibbertia hypericoides* and *Mesomelaena pseudostygia*

Veg Condition VG

Fire Age >12

Disturbance: Weeds

Ground Cover: 3% Bareground, 0% Logs, 5% Twigs, 15% Leaves

Name	Cover	Height
<i>Acacia pulchella</i>	+	35
<i>Alexgeorgea nitens</i>	+	6
<i>Allocasuarina fraseriana</i>	7	600
<i>Banksia attenuata</i>	4	600
<i>Bossiaea eriocarpa</i>	+	30
<i>Briza maxima</i>	3	15
<i>Caladenia flava</i>	+	20
<i>Cyperus tenellus</i>	+	3
<i>Daviesia divaricata</i>	+	40
<i>Desmocladius flexuosus</i>	1	15
<i>Drosera erythrorhiza</i>	2	1
<i>Drosera macrantha</i>	+	15
<i>Ehrharta calycina</i>	+	45
<i>Eryngium pinnatifidum</i>	1	15
<i>Eucalyptus marginata</i>	15	1300
<i>Freesia sp.</i>	+	20
<i>Haemodorum sp.</i>	+	65
<i>Hibbertia hypericoides</i>	15	55
<i>Hybanthus calycinus</i>	+	20
<i>Hypocalymma robustum</i>	1	60
<i>Hypochaeris glabra</i>	5	1
<i>Lagenophora huegelii</i>	+	10
<i>Leucopogon nutans</i>	+	20
<i>Luzula meridionalis</i>	+	20
<i>Mesomelaena pseudostygia</i>	1	60
<i>Opercularia vaginata</i>		
<i>Pimelea sulphurea</i>	+	30
<i>Podolepis sp.</i>	+	10
<i>Romulea rosea</i>	+	15

<i>Sowerbaea laxiflora</i>	+	45
<i>Trachymene pilosa</i>	+	3
<i>Ursinia anthemoides</i>	+	20
<i>Xanthorrhoea preissii</i>	8	120

Site Q6

Described by NW

Date 6/09/2016

Type Q 10 x 10 m

Location East of track

MGA Zone 50 385244mE 6488709mN

Habitat Flat/Very gentle slope (Plain/Flat)

Soil Grey sand - some organic matter



Vegetation Woodland of *Banksia menziesii*, *Banksia attenuata*, *Allocasuarina fraseriana* and *Eucalyptus marginata* over *Xanthorrhoea preissii*, *Hibbertia hypericoides* over *Briza maxima*

Veg Condition VG - G

Fire Age >12

Disturbance: Weeds

Ground Cover: 0% Bareground, 0% Logs, 3% Twigs, 35% Leaves

Name	Cover	Height
<i>Acacia pulchella</i>	1	130
<i>Allocasuarina fraseriana</i>	12	1000
<i>Banksia attenuata</i>	10	800
<i>Banksia menziesii</i>	20	1000
<i>Briza maxima</i>	10	15
<i>Burchardia congesta</i>	+	60
<i>Caladenia flava</i>	+	15
<i>Desmocladius flexuosus</i>	+	10
<i>Dianella revoluta</i>	+	40
<i>Drosera erythrorhiza</i>	+	1
<i>Eryngium pinnatifidum</i>	+	35
<i>Eucalyptus marginata</i>	15	900
<i>Gladiolus caryophyllaceus</i>	+	40
<i>Gompholobium tomentosum</i>	+	30
<i>Haemodorum sp.</i>	+	80
<i>Hibbertia hypericoides</i>	15	900
<i>Hypochaeris glabra</i>	6	1
<i>Isolepis sp.</i>	+	20
<i>Lagenophora huegelii</i>	+	5
<i>Lepidosperma leptostachyum</i>	+	60
<i>Lomandra hermaphrodita</i>	+	15
<i>Lomandra micrantha</i>	+	40
<i>Mesomelaena pseudostygia</i>	2	60
<i>Opercularia vaginata</i>	+	25
<i>Pterostylis pyramidalis</i>	+	10
<i>Schoenus curvifolius</i>	+	30
<i>Sowerbaea laxiflora</i>	+	40
<i>Trachymene pilosa</i>	+	2
<i>Xanthorrhoea preissii</i>	7	110

Site Q7

Described by NW
Date 6/09/2016
Type Q 10m x 10m
MGA Zone 50 384081 mE 6499037 mN
Habitat Gentle slope (Lower Slope)
Soil Grey brown sand



Vegetation Open woodland of *Banksia menziesii*, *Banksia attenuata*, *Eucalyptus marginata* over *Xanthorrhoea preissii*, *Hibbertia hypericoides*

Veg Condition D

Fire Age >12

Disturbance: Weeds

Ground Cover: 1% Bareground, 0% Logs, 2% Twigs, 15% Leaves

Name	Cover	Height
<i>Banksia attenuata</i>	30	1000
<i>Banksia menziesii</i>	20	300
<i>Briza maxima</i>	60	10
<i>Desmocladius flexuosus</i>	3	10
<i>Drosera erythrorhiza</i>	1	1
<i>Ehrharta longiflora</i>	+	15
<i>Haemodorum sp.</i>	+	60
<i>Hardenbergia comptoniana</i>	10	20
<i>Hibbertia hypericoides</i>	2	150
<i>Hypochaeris glabra</i>	2	1
<i>Lysimachia arvensis</i>	+	5
<i>Mesomelaena pseudostygia</i>	1	20
<i>Olea europaea</i>	+	100
<i>Orthrosanthus laxus</i>	2	50
<i>Pimelea sulphurea</i>	2	50
<i>Poaceae sp.</i>	1	20
<i>Ptilotus polystachyus</i>	+	20
<i>Romulea rosea</i>	+	15
<i>Tetralix octandra</i>	1	45
<i>Trachymene pilosa</i>	+	3
<i>Ursinia anthemoides</i>	+	15
<i>Xanthorrhoea gracilis</i>	1	70
<i>Xanthorrhoea preissii</i>	10	1100

Site Q8

Described by NW
Date 6/09/2016
Type Q 10m x 10m
Location Off Wanneroo Road
MGA Zone 50 384065mE 6490954mN
Habitat Flat/gentle slope (Plain/Flat)
Soil Loamy sand



Vegetation Woodland of *Allocasuarina fraseriana*, *Banksia menziesii*, *Banksia attenuata* over *Hibbertia hypericoides*

Veg Condition VG

Fire Age >12

Disturbance: Weeds

Ground Cover: 2% Bareground, 3% Logs, 4% Twigs, 25% Leaves

Name	Cover	Height
<i>Allocasuarina fraseriana</i>	12	800
<i>Banksia attenuata</i>	1.5	400
<i>Briza maxima</i>	6	10
<i>Desmocladius fasciculatus</i>	+	5
<i>Desmocladius flexuosus</i>	+	5
<i>Ehrharta longiflora</i>	3	25
<i>Hibbertia hypericoides</i>	30	55
<i>Hybanthus calycinus</i>	+	15
<i>Hypocalymma robustum</i>	1	40
<i>Lomandra caespitosa</i>	+	30
<i>Moraea flaccida</i>	1.5	60
<i>Romulea rosea</i>	1	15
<i>Scaevola canescens</i>	1	15
<i>Senecio sp.</i>	1.5	10
<i>Sowerbaea laxiflora</i>	+	50
<i>Tetraria octandra</i>	1	30
<i>Ursinia anthemoides</i>	+	15

Site R1

Described by NW
 Date 17/05/2016
 Type R 10x10
 MGA Zone 50 385165mE 6488604 mN
 Soil grey sand



Vegetation Woodland of *Corymbia calophylla*, *Eucalyptus marginata*, *Allocasuarina fraseriana*, *Banksia menziesii*, *Banksia attenuata* over mixed shrubs.

Veg Condition G-VG

Fire Age 4-8

Name	Cover	Height
<i>Acacia pulchella</i>	4	80
<i>Allocasuarina fraseriana</i>	5	700
<i>Banksia attenuata</i>	5	500
<i>Banksia menziesii</i>	7	400
<i>Briza maxima</i>	4	30
<i>Corymbia calophylla</i>	15	1000
<i>Desmocladius flexuosus</i>	7	15
<i>Eucalyptus marginata</i>	10	1000
<i>Hibbertia hypericoides</i>	10	60
<i>Hibbertia racemosa</i>	+	40
<i>Hovea trisperma</i>	+	25
<i>Hypochaeris glabra</i>	3	1
<i>Lagenifera huegelii</i>	+	3
<i>Macrozamia riedlei</i>	7	230
<i>Mesomelaena pseudostygia</i>	2	70
<i>Phyllanthus calycinus</i>	+	40
<i>Pterostylis</i> sp.	+	20
<i>Xanthorrhoea preissii</i>	7	30

Site R2

Described by NW

Date 17/05/2016

Type R 10x10

MGA Zone 50 385087mE 6488713 mN

Soil Brown/grey sand with some organic matter



Vegetation Woodland of *Banksia menziesii*, *Banksia attenuata*, *Corymbia calophylla*, *Eucalyptus marginata* over *Macrozamia riedlei*, *Xanthorrhoea preissii*, *Mesomelaena pseudostygia* and *Hibbertia hypericoides*

Veg Condition VG

Fire Age 4-8

Name	Cover	Height
<i>Acacia extensa</i>	+	50
<i>Banksia attenuata</i>	5	500
<i>Banksia menziesii</i>	20	550
<i>Conostephium pendulum</i>	1	45
<i>Corymbia calophylla</i>	8	1000
<i>Daviesia angulata</i>	1	60
<i>Drosera erythrorhiza</i>	+	1
<i>Eucalyptus marginata</i>	6	800
<i>Hibbertia hypericoides</i>	10	40
<i>Hibbertia racemosa</i>	+	35
<i>Jacksonia sternbergiana</i>	1	170
<i>Macrozamia riedlei</i>	5	200
<i>Mesomelaena pseudostygia</i>	15	70
<i>Petrophile macrostachya</i>	1.5	60
<i>Stylidium piliferum</i>	+	2
<i>Ursinia anthemoides</i>	3	15
<i>Xanthorrhoea preissii</i>	20	140

Site R3

Described by NW

Date 17/05/2016

Type R 10x10

MGA Zone 50 384987mE 6488869mN
Soil Sand- yellow at depth



Vegetation Low woodland of *Banksia attenuata*, *Banksia menziesii*, *Eucalyptus marginata* over *Xanthorrhoea preissii*, *Hibbertia hypericoides* and *Mesomelaena pseudostygia*

Veg Condition G-VG

Fire Age 4-8

Name	Cover	Height
<i>Banksia attenuata</i>	15	600
<i>Banksia menziesii</i>	3	500
<i>Bossiaea eriocarpa</i>	1	35
<i>Conostylis aculeata</i>	+	20
<i>Desmocladius flexuosus</i>	5	15
<i>Eucalyptus marginata</i>	15	800
<i>Gladiolus caryophyllaceus</i>	+	20
<i>Hibbertia hypericoides</i>	15	40
<i>Hibbertia racemosa</i>	1	45
<i>Hypochaeris glabra</i>	5	1
<i>Jacksonia furcellata</i>	2	250
<i>Lagenifera huegelii</i>	+	1
<i>Mesomelaena pseudostygia</i>	6	40
<i>Poa annua</i>	6	5
<i>Ursinia anthemoides</i>	3	10
<i>Xanthorrhoea preissii</i>	10	150

Site R4

Described by NW
Date 17/06/2016
Type R 10x10
MGA Zone 50 384867mE 6489009 mN
Habitat gentle slope down to the lake
Soil Sand



Vegetation Woodland of *Banksia attenuata*, *Banksia menziesii*, *Eucalyptus marginata* and *Corymbia calophylla* over *Hibbertia hypericoides*, *Xanthorrhoea preissii* and *Mesomelaena pseudostygia*

Veg Condition G

Fire Age 4-8

Name	Cover	Height
<i>Allocasuarina fraseriana</i>	3	1200
<i>Banksia attenuata</i>	10	600
<i>Banksia menziesii</i>	8	500
<i>Corymbia calophylla</i>	10	1600
<i>Desmocladius flexuosus</i>	6	10
<i>Dianella revoluta</i>	+	50
<i>Eucalyptus marginata</i>	6	1200
<i>Hibbertia hibbertioides</i>	8	40
<i>Hypochaeris glabra</i>	6	1
<i>Jacksonia furcellata</i>	+	130
<i>Leucopogon nutans</i>	+	35
<i>Macrozamia riedlei</i>	1	50
<i>Mesomelaena pseudostygia</i>	4	45
<i>Nemcia capitata</i>	2	60
<i>Phyllanthus calycinus</i>	+	50
<i>Poa annua</i>	10	10
<i>Ursinia anthemoides</i>	5	15
<i>Xanthorrhoea preissii</i>	6	170

Site R5

Described by NW
Date 17/05/2016
Type R 10x10
MGA Zone 50 384107 mE 6490908 mN
Habitat very gentle slope towards lake
Soil Sand



Vegetation Low Open Woodland of *Allocasuarina fraseriana*, *Banksia attenuata*, *Banksia menziesii* and *Banksia prionotes* over *Jacksonia sternbergiana* and *Hibbertia hypericoides*

Veg Condition D-G

Fire Age 8-12

Name	Cover	Height
<i>Allocasuarina fraseriana</i>	6	800
<i>Banksia attenuata</i>	3	500
<i>Banksia menziesii</i>	5	500
<i>Banksia prionotes</i>	3	900
<i>Hibbertia hypericoides</i>	10	45
<i>Jacksonia sternbergiana</i>	6	350
<i>Scaevola repens</i>	+	6

Site R6

Described by NW

Date 18/06/2016

Type R 10x10

MGA Zone 50 386744 mE 6484406 mN

Soil grey brown sand



Vegetation Low Woodland of *Eucalyptus marginata*, *Allocasuarina fraseriana*, *Banksia attenuata*, *Banksia prionotes* over *Xanthorrhoea preissii*, *Macrozamia riedlei* and *Hibbertia hypercoides*

Veg Condition D

Fire Age 8-12

Name	Cover	Height
<i>Allocasuarina fraseriana</i>	8	700
<i>Banksia attenuata</i>	4	600
<i>Banksia prionotes</i>	6	600
<i>Briza maxima</i>	2	30
<i>Burchardia congesta</i>	+	45
<i>Desmocladius flexuosus</i>	1	15
<i>Ehrharta calycina</i>	80	50
<i>Eucalyptus marginata</i>	10	800
<i>Gompholobium tomentosum</i>	+	30
<i>Haemodorum</i> sp.	+	70
<i>Hibbertia hypericoides</i>	2	45
<i>Lepidosperma leptostachyum</i>	+	50
<i>Lomandra preissii</i>	+	40
<i>Macrozamia riedlei</i>	2	160
<i>Oxalis pes-caprae</i>	2	25
<i>Pelargonium capitatum</i>	1	30
<i>Ursinia anthemoides</i>	+	15
<i>Xanthorrhoea preissii</i>	4	120

Site R7

Described by NW

Date 6/09/2016

Type R 10m x 10m

Location On lakes edge

MGA Zone 50 384850mE 6488700mN

Habitat Edge of water

Soil Loam



Vegetation Woodland of *Melaleuca raphiophylla* and *Eucalyptus rudis* over sedges of *Baumea articulata* and *lepidosperma longitudinale*

Veg Condition E - VG

Fire Age >12

Disturbance: Weeds

Ground Cover: 0% Bareground, 1% Logs, 2% Twigs, 1% Leaves

Name	Cover	Height
<i>Baumea articulata</i>	20	200
<i>Eucalyptus rudis</i>	10	800
<i>Lepidosperma longitudinale</i>	20	110
<i>Melaleuca raphiophylla</i>	15	700
<i>Rhagodia baccata</i> subsp. <i>baccata</i>	3	70
<i>Viminaria juncea</i>	1.5	170

Site R8

Described by NW

Date 6/09/2016

Type R 10m x 10m

Location Along fence line of wetland

MGA Zone 50 384182mE 6490506mN

Habitat Flat

Soil Yellow grey sand



Vegetation Tall shrubland of *Acacia saligna* and *Acacia rostellifera* over *Rhagodia bacata* subsp. *bacata*

Veg Condition D - CD

Fire Age >12

Ground Cover: 2% Bareground, 0% Logs, 2% Twigs, 80% Leaves

Name	Cover	Height
<i>Acacia rostellifera</i>	40	400
<i>Acacia saligna</i>	40	400
<i>Crassula colorata</i> var. <i>acuminata</i>	+	3
<i>Crassula thunbergiana</i>	+	2
<i>Hakea trifurcata</i>	+	50
<i>Opercularia vaginata</i>	+	4
<i>Polycarpon tetraphyllum</i>	+	1
<i>Rhagodia baccata</i> subsp. <i>baccata</i>	3	50

APPENDIX K

Fauna Species List

AMPHIBIAN SPECIES RECORDED IN THE REGION

Key: EPBC = Environmental Protection and Biodiversity Conservation Act 1999, WC = Wildlife Conservation Act 1950, DPaW = Department of Parks and Wildlife Priority Code, A = Listed in Naturemap, B= DPaW Threatened and Priority fauna search, C = EPBC Protected Matters search, D= Current Survey;

Note: For Definitions of Conservation Codes see Appendix A.

Scientific Name	Common Name	Conservation Codes						
		EPBC	WC	DPaW	A	B	C	D
CHELONIIDAE								
<i>Caretta caretta</i>	Loggerhead Turtle	En	S2		X			
CHELUIDAE								
<i>Chelodina colliei</i>	Oblong Turtle				X			
LIMNODYNASTIDAE								
<i>Heleioporus eyrei</i>	Moaning Frog				X			
<i>Limnodynastes dorsalis</i>	Western Banjo Frog				X			
	Frog in Noongar: Kweeyar							
MYOBATRACHIDAE								
<i>Crinia insignifera</i>	Squelching Froglet				X			
<i>Myobatrachus gouldii</i>	Turtle Frog				X			
<i>Pseudophryne guentheri</i>	Crawling Toadlet				X			
HYLIDAE								
<i>Litoria adelaidensis</i>	Slender Tree Frog				X			
<i>Litoria moorei</i>	Motorbike Frog				X			

REPTILIAN SPECIES RECORDED IN THE REGION

Key: EPBC = Environmental Protection and Biodiversity Conservation Act 1999, WC = Wildlife Conservation Act 1950, DPaW = Department of Parks and Wildlife Priority Code, A = Listed in Naturemap, B= DPaW Threatened and Priority fauna search, C = EPBC Protected Matters search, D= Current Survey:

Note: For Definitions of Conservation Codes see Appendix A.

Scientific Name	Common Name	Conservation Codes						
		EPBC	WC	DPaW	A	B	C	D
DIPLODACTYLIDAE								
<i>Crenadactylus ocellatus</i>	Clawless Gecko				X			
<i>Diplodactylus granariensis</i>	Wheat-belt Stone Gecko				X			
<i>Diplodactylus polyophthalmus</i>	Speckled Stone Gecko				X			
<i>Strophurus spinigerus inortatus</i>	South-western Spint-tailed Gecko				X			
<i>Strophurus spinigerus spinigerus</i>	South-western Spint-tailed Gecko				X			
PYGOPODIDAE								
<i>Aprasia rapens</i>	Sand-plain Worm-lizard				X			
<i>Delma grayii</i>	Side-barred Delma				X			
<i>Lialis burtonis</i>	Burtons Snake Lizard				X			
<i>Pletholax gracillis gracillis</i>	Keeled Legless Lizard				X			
<i>Pygopus lepidopous</i>	Common Scaly Foot				X			
GEKKONIDAE								
<i>Christinus marmoratus</i>	Marbled Gecko				X			
<i>Underwoodisaurus milii</i>	Barking Gecko				X			
SCINCIDAE								
<i>Acritoscincus trilineatus</i>	Western Three-lined Skink				X			
<i>Cryptoblepharus buchananii</i>	Buchanans Snake-eyed Skink				X			
<i>Cryptoblepharus plagiiocephalus</i>	Perons Snake-eyed Skink				X			
<i>Ctenotus australis</i>	Western Limestone Ctenotus				X			
<i>Ctenotus fallens</i>	West-coast Laterite Ctenotus				X			
<i>Ctenotus impar</i>	Odd-striped Ctenotus				X			
<i>Cyclodomorphus celatus</i>	Western Slender Blue-tongue				X			
<i>Egernia napoleonis</i>	South-western Crevice Skink				X			
<i>Hemiergus quadrilineata</i>	Two-toed Earless Skink				X			
<i>Lerista elegans</i>	Elegant Slider				X			

Scientific Name	Common Name	Conservation Codes						D
		EPBC	WC	DPaW	A	B	C	
<i>Lerista lineopunctulata</i>	Dotted-line Robust Slider				X			
<i>Lerista praepedita</i>	Blunt-tailed West-coast Slider				X			
<i>Menetia greyii</i>	Common Dwarf Skink				X			
<i>Morethia obscura</i>	Shrubland Morethia Skink				X			
<i>Tiliqua occipitalis</i>	Western Bluetongue				X			
<i>Tiliqua rugosa</i>	Shingleback (Noongar: Yoorn)				X			
AGAMIDAE								
<i>Ctenophorus adelaidensis</i>	Southern Heath Dragon				X			
<i>Pogona minor</i>	Dwarf Bearded Dragon				X			
VARANIDAE								
	Goanna in Noongar: Karda							
<i>Varanus gouldii</i>	Sand Monitor				X			
<i>Varanus tristis</i>	Racehorse Monitor				X			
BOIDAE								
<i>Morelia spilota imbricata</i>	Carpet Python				X			
ELAPIDAE								
<i>Brachyrophis semifasciatus</i>	Southern Shovel-nosed Snake				X			
<i>Demansia psammophis reticulata</i>	Yellow-faced Whipsnake				X			
<i>Echiopsis curta</i>	Barcick				X			
<i>Elapognathus coronatus</i>	Crowned Snake				X			
<i>Neelaps bimaculatus</i>	Black-naped Snake				X			
<i>Neelaps calonotos</i>	Black-striped Snake			P3	X			
<i>Notechis scutatus</i>	Tiger Snake				X			
<i>Parasuta gouldii</i>	Gouds Snake				X			
<i>Parasuta nigriceps</i>	Black-backed Snake				X			
<i>Pseudonaja affinis affinis</i>	Dugite (Noongar: Dobitj)				X			
<i>Simoselaps bertholdi</i>	Jan's Banded Snake				X			

AVIAN (Birds in Noongar: Djert) SPECIES RECORDED IN THE REGION

Key: EPBC = Environmental Protection and Biodiversity Conservation Act 1999, WC = Wildlife Conservation Act 1950, DPaW = Department of Parks and Wildlife Priority Code, A = Listed in Naturemap, B= DPaW Threatened and Priority fauna search, C= EPBC Protected Matters search, D= Current Survey

Note: For Definitions of Conservation Codes see Appendix A.

Scientific Name	Common Name	Conservation Codes						
		EPBC	WC	DPaW	A	B	C	D
CASUARIIDAE								
<i>Dromaius novaehollandia</i>	Emu (Noongar: Weitj)							X
MEGAPODIIDAE								
<i>Leipoa ocellata</i>	Malleefowl	Vu	S1				X	
PHASIANIDAE								
<i>Coturnix ypsilophora</i>	Brown Quail				X			
ANATIDAE								
<i>Anas castanea</i>	Chestnut Teal				X			
<i>Anas gracillis</i>	Grey Teal				X			
<i>Anas platyrhynchos</i>	Mallard				X		X	
<i>Anas rhynchotis</i>	Australian Shoveler				X			
<i>Anas superciliosa</i>	Pacific Black Duck				X			
<i>Anser anser</i>	Greylag Goose				X			
<i>Aythya australis</i>	Hardhead				X			
<i>Biziura lobata</i>	Musk Duck				X			
<i>Cairina moschata</i>	Muscovy duck				X			
<i>Chenonetta jubata</i>	Australian Wood Duck				X			
<i>Cygnus atratus</i>	Black Swan				X			
<i>Dendrocygna eytoni</i>	Plumed whistling Duck				X			
<i>Malacorhynchus membranaceus</i>	Pink-eared Duck				X			
<i>Oxyura australis</i>	Blue-billed Duck			P4	X			
<i>Stictonetta naevosa</i>	Freckled Duck				X			
<i>Tadorna tadornoides</i>	Australian Shelduck				X			
PODICIPEDIDAE								
<i>Poliocephalus poliocephalus</i>	Hoary-headed Greb				X			
<i>Podiceps cristatus</i>	Great Crested Grebe				X			
<i>Tachybaptus novaehollandiae</i>	Australian Grebe				X			
ANHINGIDAE								
<i>Anhinga melanogaster</i>	Oriental Darter				X			

Scientific Name	Common Name	EPBC	WC	DPaW	A	B	C	D
<i>Anhinga novaehollandiae</i>	Australasian Darter				X			
PHALACROCORACIDAE								
<i>Microcarbo melanoleucos</i>	Little Pied Cormorant				X			
<i>Phalacrocorax carbo</i>	Great Cormorant				X			
<i>Phalacrocorax sulcirostris</i>	Little Black Cormorant				X			
<i>Phalacrocorax varius</i>	Pied Cormorant				X			
PELECANIDAE								
<i>Pelecanus conspicillatus</i>	Australian Pelican				X			
ARDEIDAE								
<i>Ardea garzetta</i>	Little Egret				X			
<i>Ardea ibis</i>	Cattle Egret	MiMa			X	X	X	
<i>Ardea modesta</i>	Great Egret	MiMa			X	X	X	
<i>Ardea novaehollandiae</i>	White-faced Heron				X			
<i>Ardea pacifica</i>	White-necked Heron				X			
<i>Botaurus poiciloptilus</i>	Australasian Bittern	En	S2		X			
<i>Ixobrychus dubius</i>	Black Backed Bittern				X			
<i>Ixobrychus flavicollis australis</i>	Black Bittern (southwest pop)			P1	X	X		
<i>Ixobrychus minutus</i>	Little Bittern			P4	X	X		
<i>Nycticorax caledonicus</i>	Rufous Night Heron				X			
RECURVIROSTRIDAE								
<i>Cladorhynchus leucocephalus</i>	Banded Stilt				X			
<i>Himantopus himantopus</i>	Black-winged Stilt	Ma			X		X	
<i>Recurvirostra novaehollandiae</i>	Red-necked Avocet	Ma			X		X	
CHARADRIIDAE								
<i>Charadrius leschenaultii</i>	Greater Sand Plover	MiMa			X	X		
<i>Charadrius ruficapillus</i>	Red-capped Plover				X			
<i>Euseyornis melanops</i>	Black-fronted Dotterel				X			
<i>Erythrogonys cinctus</i>	Red-kneed Dotterel				X			
<i>Thinornis rubricollis</i>	Hooded Plover	Ma		P4			X	
ROSTRATULIDAE								
<i>Rostratula australis</i>	Australian Painted Snipe	En, MiMa					X	
SCOLOPACIDAE								
<i>Actitis hypoleucos</i>	Common Sandpiper	MiMa			X			
<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	MiMa			X		X	
<i>Calidris ferruginea</i>	Curlew Sandpiper	MiMa			X	X		
<i>Calidris melanotos</i>	Pectoral Sandpiper	MiMa			X			
<i>Calidris ruficollis</i>	Red-necked Stint	MiMa	S3		X	X	X	
<i>Calidris subminuta</i>	Long-toed Stint	MiMa			X			
<i>Limosa limosa</i>	Black-tailed Godwit	MiMa			X	X		
<i>Tringa glareola</i>	Wood Sandpiper	MiMa			X			
<i>Tringa nebularia</i>	Common Greenshank	MiMa	S3		X	X	X	

Scientific Name	Common Name	EPBC	WC	DPaW	A	B	C	D
COLUMBIDAE								
<i>Columba livia</i>	Domestic Pigeon				X		X	X
<i>Ocyphaps lophotes</i>	Crested Pigeon				X			
<i>Phaps chalcoptera</i>	Common Bronzewing				X			
<i>Streptopelia chinensis</i>	Spotted Turtle-Dove				X		X	
<i>Streptopelia senegalensis senegalensis</i>	Laughing Dove				X		X	
PODARGIDAE								
<i>Podargus strigoides</i>	Tawny Frogmouth				X			
APODIDAE								
<i>Apus pacificus</i>	Fork-tailed Swift	MiMa			X	X	X	
PROCELLARIIDAE								
<i>Macronectes giganteus</i>	Southern Giant-Petrel				X			
<i>Pachyptila desolata</i>	Antarctic Prion				X			
THRESKIORNITHIDAE								
<i>Plegadis falcinellus</i>	Glossy Ibis	MiMa	S5		X	X		
<i>Platalea regia</i>	Royal Spoonbill				X			
<i>Plegadis flavipes</i>	Yellow-billed Spoonbill				X			
<i>Threskiornis molucca</i>	Australian White Ibis				X			
<i>Threskiornis spinicollis</i>	Straw-necked Ibis				X			
ACCIPITRIDAE								
<i>Accipiter cirrocephalus cirrocephalus</i>	Collared Sparrowhawk				X			
<i>Accipiter fasciatus didimus</i>	Brown Goshawk				X			
<i>Aquila audax</i>	Wedge-tailed Eagle				X			
	Eagle in Noongar: Warlitj							
<i>Aquila morphnoides</i>	Little Eagle				X			
<i>Circus approximans</i>	Swamp harrier				X			
<i>Elanus axillaris</i>	Black Souldered Kite				X			
<i>Haliaeetus leucogaster</i>	White-bellied Sea Eagle	Ma			X		X	
<i>Haliastur sphenurus</i>	Whistling Kite				X			
<i>Lophoictinia isura</i>	Square-tailed Kite				X			
<i>Pandion haliaetus</i>	Osprey	MiMa			X		X	
FALCONIDAE								
<i>Falco berigora</i>	Brown Falcon				X			
<i>Falco cenchroides</i>	Australian Kestrel				X			
<i>Falco longipennis</i>	Australian Hobby				X			
<i>Falco peregrinus</i>	Peregrine Falcon		S7		X	X		
RALLIDAE								
<i>Fulica atra</i>	Eurasian Coot				X			
<i>Gallinula tenebrosa</i>	Dusky Moorhen				X			
<i>Gallirallus philippensis</i>	Buff-banded Rail				X			
<i>Porphyrio porphyrio bellus</i>	Purple Swamphen				X			

Scientific Name	Common Name	EPBC	WC	DPaW	A	B	C	D
<i>Porzana fluminea</i>	Australian Spotted Crane				X			
<i>Porzana pusilla</i>	Ballions Crane				X			
<i>Porzana tabuensis</i>	Spotless Crane				X			
<i>Tribonyx ventralis</i>	Black-tailed Native-hen				X			
LARIDAE								
<i>Chroicocephalus novaehollandiae</i>	Silver Gull				X			
<i>Larus pacificus</i>	Pacific Gull				X			
<i>Sternula nereis</i>	Fairy Tern	Vu			X	X		
PSITTACIDAE								
<i>Cacatua galerita</i>	Sulphur-crested Cockatoo				X			
<i>Cacatua pastinator</i>	Western Long-billed Corella				X			X
<i>Cacatua sanguinea</i>	Little Corella				X			
<i>Cacatua tenuirostris</i>	Eastern Long-billed Corella				X			
<i>Calyptorhynchus banksii naso</i>	Forest Red-tailed Black-Cockatoo	Vu	S1		X	X		
<i>Calyptorhynchus baudinii</i>	Baudin's Cockatoo	Vu	S1		X	X		
<i>Calyptorhynchus latirostris</i>	Carnaby's Black Cockatoo	En	S1		X	X	X	X
	Black Cockatoo in Noongar: Ngoolyark							
<i>Eolophus roseicapilla</i>	Galah				X			X
<i>Glossopsitta porphyrocephala</i>	Purple-crowned Lorikeet				X			
<i>Neophema elegans</i>	Elegant Parrot				X			
<i>Platycercus icterotis</i>	Western Rosella				X			
<i>Purpureicephalus spurius</i>	Red-capped Parrot				X			
<i>Platycercus zonarius</i>	Australian Ringneck				X			X
<i>Polytelis anthopeplus</i>	Regent parrot				X			
<i>Trichoglossus haematodus moluccanus</i>	Rainbow Lorikeet				X			X
CUCULIDAE								
<i>Cacomantis flabelliformis</i>	Fan-tailed Cockoo				X			
<i>Cacomantis pallidus</i>	Pallid Cuckoo				X			
<i>Chrysococcyx lucidus plagosus</i>	Shining Bronze Cockoo				X			
STRIGIDAE								
<i>Ninox novaeseelandiae boobook</i>	Boobook Owl				X			
TYTONIDAE								
<i>Tyto alba deliculata</i>	Barn Owl				X			
HALCYONIDAE								
<i>Dacelo novaeguineae</i>	Laughing Kookaburra				X			
<i>Todiramphus sanctus sanctus</i>	Sacred Kingfisher				X			
MEROPIIDAE								
<i>Merops ornatus</i>	Rainbow Bee-eater	MiMa			X	X	X	
CLIMACTERIDAE								
<i>Climacteris rufa</i>	Rufous Treecreeper				X			
MALURIDAE								

Scientific Name	Common Name	EPBC	WC	DPaW	A	B	C	D
<i>Malurus lamberti</i>	Variigated Fairy-wren				X			
<i>Malurus splendens</i>	Splendid Fairy-wren				X			
ACANTHIZIDAE								
<i>Acanthiza apicalis</i>	Inland Thornbill				X			
<i>Acanthiza chrysorrhoa</i>	Yellow-rumped Thornbill				X			X
<i>Acanthiza inornata</i>	Western Thornbill				X			
<i>Gerygone fusca</i>	Western Gerygone				X			
<i>Sericornis brevirostris</i>	Weebill				X			X
<i>Sericornis frontalis</i>	White-browed Scrubwren				X			
PARDALOTIDAE								
<i>Pardalotus punctatus</i>	Spotted Pardalote				X			
<i>Pardalotus striatus</i>	Striated Pardalote				X			
MELIPHAGIDAE								
<i>Acanthagenys rufogularis</i>	Spiny-cheeked Honeyeater				X			
<i>Acanthorhynchus superciliosus</i>	Western Spinebill				X			
<i>Anthochaera carunculata</i>	Red Wattlebird				X			X
<i>Anthochaera lunulata</i>	Western Little Wattlebird				X			
<i>Epthianura albifrons</i>	White-fronted Chat				X			
<i>Lichmera indistincta</i>	Brown Honeyeater				X			
<i>Manorina flavigula</i>	Yellow-throated Miner				X			
<i>Melithreptus brevirostris</i>	Brown-headed Honeyeater				X			
<i>Phylidonyris novaehollandiae</i>	New Holland Honeyeater				X			X
<i>Ptilotula ornatus</i>	Yellow-plumed Honeyeater				X			
NEOSITTIDAE								
<i>Daphoenositta chyrstoptera</i>	Varied Sittella				X			
CAMPEPHAGIDAE								
<i>Coracina novaehollandiae</i>	Black-faced Cuckoo-shrike				X			
PACHYCEPHALIDAE								
<i>Colluricincla harmonica</i>	Grey Shrike Thrush				X			
<i>Falcunculus frontatus leucogaster</i>	Western Shrike-tit				X			
<i>Pachycephala pectoralis</i>	Golden Whistler				X			
<i>Pachycephala rufiventris</i>	Rufous Whistler				X			
ARTAMIDAE								
<i>Artamus cinereus</i>	Black-faced Woodswallow				X			
<i>Artamus cyanopterus</i>	Dusky Woodswallow				X			
DICRURIDAE								
<i>Grallina cyanoleuca</i>	Magpie-lark				X			X
<i>Myiagra inquire</i>	Restless Flycatcher				X			
<i>Rhipidura albiscapa</i>	Grey Fantail				X			X
<i>Rhipidura leucophrys</i>	Willie Wagtail (Noongar: Djiti Djiti)				X			
CRACTICIDAE								

Scientific Name	Common Name	EPBC	WC	DPaW	A	B	C	D
<i>Cracticus nigrogularis</i>	Pied Butcherbird				X			
<i>Cracticus tibicen</i>	Australian Magpie (Noongar: Koolbardi)				X			X
<i>Cracticus torquatus</i>	Grey Butcherbird				X			X
<i>Strepera versicolour</i>	Grey Curranwong				X			
CORVIDAE								
<i>Corvus bennetti</i>	Little Crow				X			
<i>Corvus coronoides</i>	Australian Raven				X			X
PETROICIDAE								
<i>Microeca fascinans</i>	Jacky Winter				X			
<i>Petroica boodang</i>	Scarlet Robin				X			
<i>Petroica goodenovii</i>	Red-capped Robin				X			
DICAEIDAE								
<i>Dicaeum hirundinaceum</i>	Mistletoebird				X			
ACROCEPHALIDAE								
<i>Acrocephalus australis</i>	Australian Reed-Warbler				X			
MEGALURIDAE								
<i>Megalurus gramineus</i>	Little Grassbird				X			
TIMALIIDAE								
<i>Zosterops lateralis</i>	Silvereeye				X			
HIRUNDINIDAE								
<i>Cheramoeca leucosterna</i>	White-backed Swallow				X			
<i>Hirundo neoxena</i>	Welcome Swallow				X			
<i>Hirundo nigricans</i>	Tree Martin				X			
STURINADAE								
<i>Acridotheres tristis</i>	Common Myna						X	
<i>Sturnus vulgaris</i>	Common Starling						X	
PASSERIDAE								
<i>Passer domesticus</i>	House Sparrow				X		X	
<i>Passer montanus</i>	Eurasian Tree Sparrow						X	
MOTACILLIDAE								
<i>Motacilla cinerea</i>	Grey Wagtail	MiMa					X	
FRINGILLIDAE								
<i>Carduelis carduelis</i>	European Goldfinch						X	

MAMMALIAN SPECIES RECORDED IN THE REGION

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Note: For Definitions of Conservation Codes see Appendix A.

Scientific Name	Common Name	Conservation Codes							
		EPBC	WC	DPaW	A	B	C	D	
TACHYGLOSSIDAE									
<i>Tachyglossus aculeatus</i>	Short-beaked Echidna				X				
DASYURIDAE									
<i>Dasyurus geoffroii</i> Chuditch	Western Quoll	Vu	S1				X		
<i>Phascogale calura</i>	Red-tailed Phascogale	En	S6		X				
PERAMELIDAE									
<i>Isodon obesulus fusciventer</i>	Southern Brown Bandicoot (Noongar:Kwenda)			P5	X	X			X
BURRAMYDAE									
<i>Cercartetus concinnus</i>	Western Pygmy-possum				X				
PHALANGERIDAE									
<i>Trichosurus vulpecula</i>	Common Brushtail Possum (Noongar: Koomoorl)				X				
MACROPODIDAE									
<i>Macropus fuliginosus</i>	Western Grey Kangaroo (Noongar: Yonga)				X				X
MURIDAE									
<i>Hydromys chrysogaster</i>	Water Rat			P4	X				
<i>Mus musculus</i>	House Mouse				X		X		
<i>Rattus fuscipes</i>	Western Bush Rat				X		X		
<i>Rattus rattus</i>	Black Rat				X		X		
SCIURIDAE									
<i>Funambulus pennantii</i>	Northern Palm Squirrel						X		
CANIDAE									
<i>Canis lupus familiaris</i>	Domestic Dog				X		X		
CARNIVORA									
<i>Vulpes vulpes</i>	Red Fox						X		
FELIDAE									
<i>Felis catus</i>	Cat				X		X		
LEPORIDAE									

Scientific Name	Common Name	Conservation Codes						
		EPBC	WC	DPaW	A	B	C	D
<i>Oryctolagus cuniculus</i>	European Rabbit				X		X	
BOVIDAE								
<i>Bos taurus</i>	Cattle						X	

APPENDIX L

Black Cockatoo Potential Breeding Trees

ID	Species	DBH	Height	No. of Hollow	Hollow Size	Easting	Northing	Comments
1	Marri	A	14	0		385167	6488592	
2	Jarrah	A	13	0		385168	6488604	
3	Jarrah (dead)	A	8	4		385159	6488608	Hollows don't go anywhere
4	Jarrah	A	8	2		385137	6488634	Hollows don't go anywhere
5	Jarrah	A	14	0		385151	6488645	
6	Jarrah	A	12	1	<100	385141	6488642	
7	Jarrah (dead)	A	0	0		385125	6488649	Bees
8	Jarrah	A	15	0		385113	6488662	
9	Jarrah	A	17	0		385109	6488674	
10	Jarrah	A	16	1	<100	385119	6488711	
11	Jarrah	B	18	4	<100	385072	6488674	
12	Jarrah	A	18	0		385075	6488695	
13	Jarrah	A	14	0		385095	6488721	
14	Jarrah	A	16	0		385092	6488735	
15	Jarrah	A	18	0		385090	6488748	
16	Jarrah	A	14	1	<100	385068	6488735	
17	Jarrah	A	15	0		385048	6488738	
18	Jarrah	A	16	0		385020	6488758	
19	Jarrah (dead)	A	14	0		385018	6488766	
20	Jarrah	A	16	0		385007	6488775	Splits into two at 2m
21	Jarrah (dead)	A	15	0		384968	6488802	
22	Jarrah (dead)	A	18	5	<100	384992	6488827	
23	Jarrah	A	12	0		385000	6488829	
24	Jarrah (dead)	A	12	0		385003	6488822	
25	Jarrah (dead)	A	15	0		384996	6488841	Bees
26	Jarrah (dead)	A	16	0		384979	6488834	
27	Jarrah (dead)	A	16	3	1x100, 2x <100	384945	6488866	Bees
28	Jarrah (dead)	A	16	0		384934	6488852	Patch of Marri <500mm
29	Jarrah (dead)	B	17	4	1x100, 3x<100	384959	6488900	Bees
30	Jarrah	A	16	2	<100	384952	6488935	Bees
31	Jarrah	A	20	3	<100	384885	6488947	Bees

32	Jarrah	A	16	0		384886	6488932	
33	Marri	A	17	0		384877	6488950	
34	Jarrah	A	14	0		384869	6489010	
35	Marri	A	16	0		384876	6489025	
36	Marri	A	16	0		384876	6489025	
37	Jarrah	A	17	3	1X150, 2x<100	384864	6489055	
38	Tuart	A	23	0		384851	6489218	
39	Jarrah	A	14	0		384753	6489635	
40	Rudis	A	16	0		384763	6489631	
41	Marri	A	15	0		384769	6489627	
42	Marri	A	18	0		384766	6489620	
43	Rudis	A	14	0		384789	6489604	
44	Marri	A	17	0		384774	6489595	
45	Rudis	A	16	0		384840	6489530	Bees
46	Rudis	A	14	0		384838	6489518	
47	Marri	A	12	0		384831	6489520	
48	Jarrah	A	16	0		384029	6491022	
49	Tuart	A	20	0		385305.368	6488138.412	
50	Tuart	A	14	0		385266	6488158	
51	Tuart	A	20	0		385267.222	6488218.237	
52	Tuart	A	17	0		385630	6487553	
53	Tuart	A	16	0		385373.031	6488014.412	
54	Rudis	A	12	0		385779	6487447	
55	Tuart	A	12	0		385807	6486637	
56	Tuart	A	20	0		386007.121	6486063.26	
57	Tuart	A	23	0		386013.533	6486048.879	
58	Tuart	A	21	0		386029.3	6486007.969	
59	Tuart	A	20	0		386035.74	6485993.381	
60	Marri	A	8	0		386062.202	6485971.556	
61	Marri	A	12	0		386066	6485924.35	
62	Powderbark	A	12	0		386084.327	6485884.638	
63	Tuart	A	12	0		386096	6485855	
64	Tuart	A	13	0		386105.44	6485833.031	

65	Rudis	A	15	0		386143.206	6485737.44	
66	Rudis	A	20	0		386172.677	6485695.677	
67	Rudis	A	12	0		386385	6485168	
68	Marri	A	16	0		386549	6484797	
69	Jarrah	A	16	0		386755.605	6484445.598	
70	Marri	A	16	0		386774.86	6484432.788	
71	Marri	A	16	0		386784.08	6484430.577	
72	Rudis	A	18	0		386631.573	6484190.75	Carnaby's Black Cockatoo flying nearby
73	Rudis	A	18	0		386631	6484160	
75	Rudis	A	18	0		385015	6488697	
76	Tuart	C	20	0	All <100	386519	6483962	
77	Tuart	B	26	1	<100	386103.456	6482970.352	
78	Tuart	A	25	0		386143	6483014	
79	Tuart	A	18	0		386167	6483059	
80	Tuart	A	16	0		386211	6483069	
81	Tuart	A	20	0		386092	6482896	
82	Tuart	A	20	0		386092	6482896	
83	Tuart	A	20	0		386092	6482896	
84	Tuart	A	18	0		386098	6482846	
85	Tuart	A	18	0		386098	6482846	
86	Marri	A	22	0		386092	6482790	
87	Marri	A	20	0		386096	6482763	
88	Tuart	A	26	0		386120	6482720	
89	Tuart	A	18	0		385938	6482658	
90	Tuart	A	30	0		385732	6482602	
91	Tuart	A	30	0		385732	6482602	
92	Tuart	A	30	0		385732	6482602	
93	Tuart	A	18	0		384679	6482683	
94	Tuart	A	16	0		384679	6482683	
95	Jarrah	A	12	0		385015	6488647	
96	Jarrah	A	15	0		385043	6488693	
97	Jarrah (dead)	A	14	0		385053	6488706	
98	Jarrah	A	17	0		385073	6488694	

99	Jarrah	A	16	0		385072	6488674	
100	Jarrah (dead)	A	14	0		385015	6488769	
101	Jarrah (dead)	A	15	0		385038	6488707	
102	Jarrah	A	16	2	<100	385048	6488736	
103	Jarrah	A	15	0		385024	6488758	
104	Marri	A	19	0		384920	6488823	
105	Marri	A	16	0		384921	6488832	
106	Marri	A	19	0		384911	6488847	
107	Jarrah	A	17	0		384890	6488858	
108	Marri	C	40	0		385229	6482717	
109	Marri	A	15	0		385156	6482730	

APPENDIX M

Fauna Habitat Assessments

FAUNA HABITAT ASSESSMENT SHEET - 360 ENVIRONMENTAL

(South West)

Location: Culvier Court	Site Number Habitat Assessment #1
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Project: GWRS - Joondalup

Date: 17/05/2016	Easting: 385142	Aspect	N	NE	SW	NW
Quadrat Size: 50 x 50 m	Northing: 6488619		E	SE	W	N/A



Soil Texture	sand	sandy-loam	loam	cracking clay	clay
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VEGETATION

Vegetation Description	Other:		Average Height (M)	Cover				
	Stratum			Scattered Plants	Sparse	Moderate	Thick	
	Hummock Grassland							
Acacia Shrubland								
Riverine Woodland	Overstorey	Jarrah and Marri	14	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	
Other Grassland	Midstorey	Banksia attenuata, allocasuarina, Acacia sp.,	6	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	
Low Woodland	Ground Cover	Macrozamia, Xanthorrhoea, Hibbertia sp.	< 1	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	

CONDITION

LAST FIRE

Scale:	5 Pristine	4 Excellent	3 Very Good	2 Good	1 Degraded	0 Completely Degraded	0 <1 year	1 1-3 Yr	2 4-5 Yr	3 >5 Yr
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(Cattle)

DISTURBANCE

(Other)

0 heavy	1 medium	2 mild	3 none	0 heavy	1 medium	2 mild	3 none
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GROUND COVER

	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%		0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%
Bare Ground					Hummock Grass				
Rock					Other Grass				
Leaf Litter					Herbs				
Logs >10cm					Other:				

MICROHABITATS

Burrowing Suitability	0 Rock	1 Stony	2 Sandy Loam	3 Sand	Peeling Bark	0 none	1 rare	2 moderate	3 common
Pebbles Stones	0 none	1 0-30%	2 30-70%	3 70-100%	Large Hollows	0 none	1 rare	2 moderate	3 common
Exfoliating Slabs	0 none	1 0-30%	2 30-70%	3 70-100%	Small Hollows	0 none	1 rare	2 moderate	3 common
Rock Crevices	0 none	1 0-30%	2 30-70%	3 70-100%	Water Presence	0 none	1 rare	2 moderate	3 common
Boulders	0 none	1 0-30%	2 30-70%	3 70-100%	Distance to Water	0 >5km	1 2-5km	2 500m - 2km	3 <500m
Suitability for Bats	YES		NO		Termite Mounds	0 none	1 rare	2 moderate	3 common
Caves	Absent	Present	Total =		Woody Debris	0 none	1 rare	2 moderate	3 common

SPECIES

Black Cockatoo Foraging Habitat

Species:	% cover	Hollows:	
Jarra	10	Small (<120mm)	/
Marri	10		
<i>Banksia attenuata</i>	10	Large (>120mm)	/
Allocasuarina	10		

Birds		Mammals	Reptiles
Corella	Grey (backed) Butcherbird	Bandicoot diggings	
Galah	WC/NH Honeyeater	Kangaroo tracks	
Rainbow Lorikeet	Grey fantail	Kangaroo scats	
Australian Ringneck	Yellow-rumped Thornbill	Rabbit scats	
Crow			
Red Wattlebird (lots)			
Magpie			
Magpie Lark			
Butcherbird			

FAUNA HABITAT ASSESSMENT SHEET - 360 ENVIRONMENTAL

(South West)

Location: Culvier Court	Site Number Habitat Assessment #2
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Project: GWRS - Joondalup

Date: 17/05/2016	Easting: 385045	Aspect	N	NE	SW	NW
Quadrat Size: 50 x 50 m	Northing: 6488756		E	SE	W	N/A



Soil Texture	sand	sandy-loam	loam	cracking clay	clay
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VEGETATION

Vegetation Description	Other:		Average Height (M)	Cover				
	Stratum			Scattered Plants	Sparse	Moderate	Thick	
	Hummock Grassland							
Acacia Shrubland								
Riverine Woodland	Overstorey	Jarrah and Marri	14	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	
Other Grassland	Midstorey	Banksia attenuata, allocasuarina, Acacia sp.,	6	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	
Low Woodland	Ground Cover	Macrozamia, Xanthorrhoea, Hibbertia sp.	< 1	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	

CONDITION

LAST FIRE

Scale:	5 Pristine	4 Excellent	3 Very Good	2 Good	1 Degraded	0 Completely Degraded	0 <1 year	1 1 -3 Yr	2 Yr	4-5 Yr	3 >5 Yr
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(Cattle)

DISTURBANCE

(Other)

0 heavy	1 medium	2 mild	3 none	0 heavy	1 medium	2 mild	3 none
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GROUND COVER

	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%		0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%
Bare Ground					Hummock Grass				
Rock					Other Grass				
Leaf Litter					Herbs				
Logs >10cm					Other:				

MICROHABITATS

Burrowing Suitability	0 Rock	1 Stony	2 Sandy Loam	3 Sand	Peeling Bark	0 none	1 rare	2 moderate	3 common
Pebbles Stones	0 none	1 0-30%	2 30-70%	3 70-100%	Large Hollows	0 none	1 rare	2 moderate	3 common
Exfoliating Slabs	0 none	1 0-30%	2 30-70%	3 70-100%	Small Hollows	0 none	1 rare	2 moderate	3 common
Rock Crevices	0 none	1 0-30%	2 30-70%	3 70-100%	Water Presence	0 none	1 rare	2 moderate	3 common
Boulders	0 none	1 0-30%	2 30-70%	3 70-100%	Distance to Water	0 >5km	1 2-5km	2 500m - 2km	3 <500m
Suitability for Bats	YES		NO		Termite Mounds	0 none	1 rare	2 moderate	3 common
Caves	Absent	Present	Total =		Woody Debris	0 none	1 rare	2 moderate	3 common

SPECIES

Black Cockatoo Foraging Habitat

Species:	% cover	Hollows:	
Jarra	10	Small (<120mm)	/
Marri	10		
Banksia attenuata	10	Large (>120mm)	/
Allocasuarina	10		

Birds	Mammals	Reptiles
Corella	Grey-backed Butcherbird	Bandicoot diggings
Galah	White-cheeked Honeyeater	Kangaroo tracks
Rainbow Lorikeet	Grey fantail	Kangaroo scats
Australian Ringneck	Yellow-rumped Thornbill	Rabbit scats
Crow		
Red Wattlebird (lots)		
Magpie		
Magpie Lark		
Butcherbird		

FAUNA HABITAT ASSESSMENT SHEET - 360 ENVIRONMENTAL

(South West)

Location: Towards top of Survey Area	Site Number Habitat Assessment #3
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Project: GWRS - Joondalup

Date: 17/05/2016	Easting: 384800	Aspect	N	NE	SW	NW
Quadrat Size: 50 x 50 m	Northing: 6489588		E	SE	W	N/A



Soil Texture	sand	sandy-loam	loam	cracking clay	clay
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VEGETATION

Vegetation Description	Other:		Average Height (M)	Cover				
	Stratum			Scattered Plants	Sparse	Moderate	Thick	
	Hummock Grassland							
Acacia Shrubland								
Riverine Woodland	Overstorey	Jarrah and Marri	14	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	
Other Grassland	Midstorey	Banksia menz, Macrozamia	8	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	
Low Woodland	Ground Cover	Weeds	< 1	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	

CONDITION

LAST FIRE

Scale:	5 Pristine	4 Excellent	3 Very Good	2 Good	1 Degraded	0 Completely Degraded	0 <1 year	1 1-3 Yr	2 4-5 Yr	3 >5 Yr
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(Cattle)

DISTURBANCE

(Other)

0 heavy	1 medium	2 mild	3 none	0 heavy	1 medium	2 mild	3 none
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GROUND COVER

Bare Ground	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	Hummock Grass	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%
Rock	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	Other Grass	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%
Leaf Litter	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	Herbs	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%
Logs >10cm	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	Other:	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%

MICROHABITATS

FAUNA HABITAT ASSESSMENT SHEET - 360 ENVIRONMENTAL

(South West)

Location: Waneroo Road Ens of Survey Area	Site Number Habitat Assessment #4
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Project: GWRS - Joondalup

Date: 17/05/2016	Easting: 384110	Aspect	N	NE	SW	NW
Quadrat Size: 50 x 50 m	Northing: 6490902		E	SE	W	N/A



Soil Texture	sand	sandy-loam	loam	cracking clay	clay
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VEGETATION

Vegetation Description	Other:		Average Height (M)	Cover				
	Stratum			Scattered Plants	Sparse	Moderate	Thick	
	Overstorey	Jarrah		0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	
Hummock Grassland								
Acacia Shrubland								
Riverine Woodland	Overstorey	Jarrah	12	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	
Other Grassland	Midstorey	Jacksonia sp., Banksia att, Banksia menz	10	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	
Low Woodland	Ground Cover	Hibertia, Xanthorrhoea, Weeds	1	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%	

CONDITION

LAST FIRE

Scale:	5 Pristine	4 Excellent	3 Very Good	2 Good	1 Degraded	0 Completely Degraded	0 <1 year	1 1-3 Yr	2 4-5 Yr	3 >5 Yr
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(Cattle)

DISTURBANCE

(Other)

0 heavy	1 medium	2 mild	3 none	0 heavy	1 medium	2 mild	3 none
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GROUND COVER

	0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%		0 <5% COVER	1 <20% COVER	2 20-60%	3 60-100%
Bare Ground					Hummock Grass				
Rock					Other Grass				
Leaf Litter					Herbs				
Logs >10cm					Other:				

MICROHABITATS

