

WEST BELCONNEN PROJECT ACT AND NSW LAND TARGETED BIRD SURVEYS



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Photographs on cover: Large old Yellow Box tree, with sapling regrowth; hollow-nesting birds, Sulphur-crested Cockatoo and Crimson Rosella.

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1. INTRODUCTION

This report is part of a series of ecological reports prepared for the West Belconnen project for The Riverview Group. The report contains the results of surveys and assessments of the bird fauna in the West Belconnen project area. Studies date from 2008 to 2013. Several key features were targeted in these investigations in response to matters raised by the ACT Department of Environment and Sustainability. Together, these reports form a comprehensive assessment of the biota and the conservation values associated with the project area at West Belconnen. Most reports overlap the NSW-ACT border, as part of the wider project area includes land in the Yass Valley Council area in New South Wales.

2. THE BIRD SURVEYS

Aim: To search for significant bird species, particularly the Superb Parrot and birds of prey, and to augment the bird list for the project area.

The Surveys

The project area has been specifically surveyed for birds on 31 occasions since 2008. The results provide a fairly comprehensive guide to the bird species found in the locality. During these surveys 75 native bird species and nine species of introduced bird were recorded. In all, 50.1 hours of targeted surveys was achieved, involving 3,650 individual bird observations. Most of the 31 surveys were carried out in the spring-summer seasons in 2008 and 2012/13; see **Table 1**. The total number of bird species recorded in the area during all surveys since 2008 is 104, including the nine introduced species.

The amount of survey effort is considered adequate to identify the species that are present in the locality; see species accumulation curve below. A summary of the targeted bird surveys, including date, time, survey areas, method and results are summarised in **Appendix 1**. A complete list of the animal species recorded in the project area is provided in **Appendix 2**, within which those species observed in the ACT and NSW sections of the project area are identified separately.

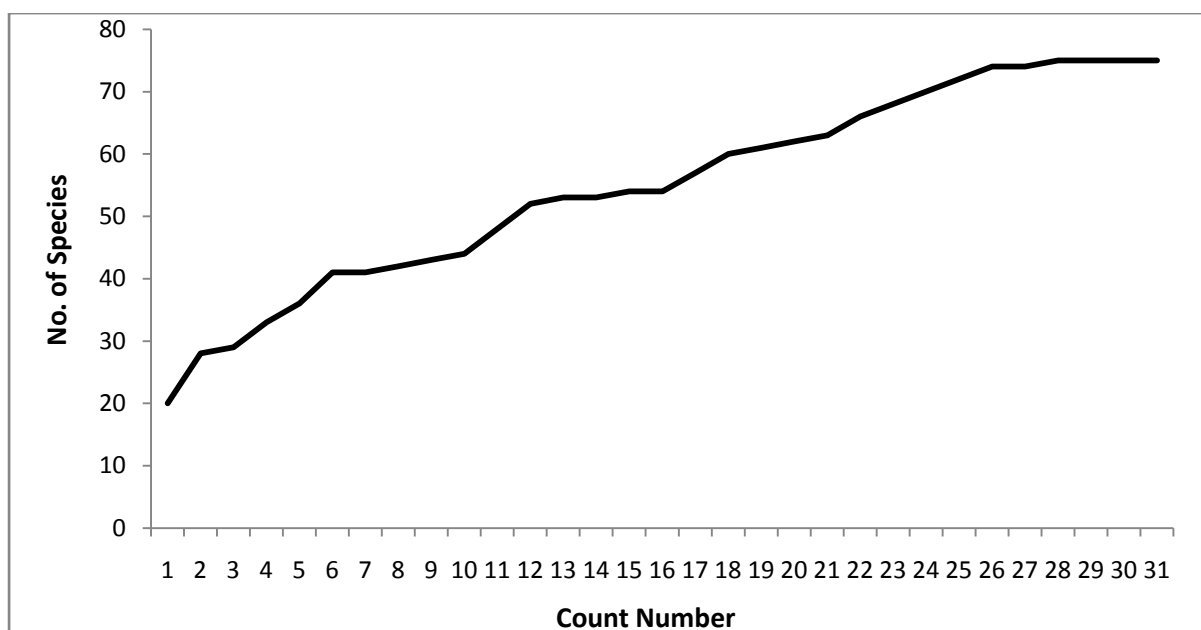


Figure 1. Bird species accumulation curve.

Number of bird surveys

Most surveys were carried out in the spring-summer period in 2008 and 2012/13. Survey sheets from 2012 and 2013 are provided at **Appendix 3**; the sheets from the 2008 surveys are contained in the earlier report by KMA (2009).

Table 1
Season of all Bird Surveys - 2008 to 2013

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008											2	8
2012									1	11	1	
2013	1	4						1	2			
All	1	4	0	0	0	0	0	1	3	11	3	8

The following figures pertain to each season for all years:

	No. of surveys	Percentage
Spring (Sep Oct Nov)	17	55%
Summer (Dec Jan Feb)	13	42%
Autumn (Mar Apr May)	0	-
Winter (Jun Jul Aug)	1	3%
Total	31	100%

3. SUPERB PARROT SURVEYS

Aim: To determine if the Superb Parrot occurs in the project area and particularly if it is breeding in that area.

The Superb Parrot was seen a few times in the project area; see **Table 2**. Out of a total of 31 bird surveys, this species was observed five times (16%); three records were in late 2012 when the species was regularly observed in the greater West Belconnen area. An observation was made early in the 2013/14 season, when three birds were observed flying over Stockdrill Dive heading south on 2 September 2013.

No evidence of breeding was found during the bird surveys or the tree hollow surveys. Birds were heading south, towards the 2011/2012 breeding area to the south of Holt (Davey 2012). The trees in the south of the area near Stockdrill Drive along with the well treed golf course seem to be a movement corridor for the parrot.

Table 2
Observations of the Superb Parrot

Date	Observation	GPS Location
02 Dec. 2008	1 bird	Overhead at golf course
15 Dec. 2008	1 bird	0681077 6099553
24 Oct. 2012	1m + 2f – heading south	0680733 6099739
24 Oct. 2012	1f – heading south	0681553 6099560
28 Nov. 2012	3 birds - heading north	0680850 6100021
2 Sept. 2013	3 birds - heading south	0680913 6098202

As explained above, the bird surveys were carried out in the most appropriate season for the Superb Parrot (spring-summer), when the species is present in the north-western part of the ACT.

4. SWIFT PARROT ASSESSMENT

Aim: To assess the likelihood of the Swift Parrot occurring in the project area.

The Swift Parrot is a non-breeding winter visitor to the ACT region. Birds only breed in Tasmania in the warmer months and are unpredictable in their occurrence from year to year on the mainland. On the tablelands occurrences are dependent upon flowering eucalypts in the cooler months. The parrot is listed as vulnerable in the ACT under the *Nature Conservation Act 1980*.

In the early 1990s in the ACT it was reported that a few birds turn up every two or three years between April and September (Taylor 1992). Records up to 1992 came from the central Canberra area (COG 1990; Taylor 1992). The sporadic records from the ACT are typical of the species on the mainland, where their presence in any particular area is inconsistent and unpredictable.

The Swift Parrot could turn up anywhere in the ACT where there are flowering trees, particularly Yellow Box *Eucalyptus melliodora* and Blakely's Red Gum *E. blakelyi*. The trees in the West Belconnen project area could attract the Swift Parrot in some years, but this is not regular and birds are just as likely to turn up in the nearby suburbs. Breeding obviously would not occur in the area. The most important features in the project area for this species are the old eucalypts.

5. OTHER SIGNIFICANT BIRDS

Aim: To identify significant bird species in the project area, particularly those listed under the ACT Nature Conservation Act 1980 and NSW Threatened Species Conservation Act 1995.

In addition to the Superb Parrot, several other bird species of conservation interest were located in the project area over the 2008-2013 survey periods; see **Table 3**. These records were associated with treed areas, including the exotic trees around the homestead west of the waste disposal area. One species, the White-winged Triller, is listed as threatened in the ACT, while six other species are listed in NSW and two species is of conservation concern in both jurisdictions but are not listed in either.

6. BIRDS OF PREY

Aim: To identify the birds of prey occurring in the project area and to determine if breeding is occurring there.

Diurnal birds of prey were specifically targeted during all bird surveys and at other times while on site; to date 11 species have been recorded; see **Table 4**. The following records were made in the project area from 2008 to 2013. All records with observation dates are provided at **Appendix 5**. The only breeding species found is the Nankeen Kestrel, which is by far the most common bird of prey in the area. The Kestrel is also probably the only resident species within the upper, eastern part of the project area, although some species may be resident within the river gorge. There is a known Peregrine Falcon nesting area on cliffs in the river gorge, outside the main project area.

Table 3***Significant bird species recorded during the Surveys***

Species/Date	Status/Notes	GPS Location
Dusky Woodswallow	species of concern	
30.10.12	1 bird	0680632 6100091
31.10.12	2 birds	0680959 6099089
20.02.13	8 birds	0681064 6099833
02.09.13	1 bird	0680930 6099848
Flame Robin	vulnerable in NSW	
25.06.09	several birds	in southwest of area
03.07.13	1 male	0679950 6102778 (NSW)
08.08.13	3 birds	0680853 6100149
Gang-gang Cockatoo	vulnerable in NSW	
06.05.13	1 bird	0678629 6101833 (NSW)
Peregrine Falcon	species of concern	
11.12.08	1 bird	not recorded
25.10.12	1 bird	0681047 6098989
Scarlet Robin	vulnerable in NSW	
2009	1 male	NSW land
17.10.12	1 male	0679885 6101211
29.04.13	1 male	0680859 6098158
03.07.13	1 male	0679100 6101346
09.09.13	1 male	0677720 6102572
Specked Warbler	vulnerable in NSW	
28.11.08	1 bird	0680592 6098557
Spotted Harrier	vulnerable in NSW	
12.02.13	1 bird	0680591 6100315 (ACT)
20.02.13	1 bird	0678976 6102483 (NSW)
29.04.13	1 bird	0679740 6101063 (ACT)
White-winged triller	vulnerable in ACT	
31.10.12	pair	0679836 6101174
Large Bent-wing Bat	vulnerable in NSW	
10.12.08	ANABAT	0680608 6100082
10.12.08	ANABAT	0681067 6099765
14.12.08	ANABAT	0680961 6099434

Table 4
Summary of records of diurnal birds of prey

Species	Year/No. of observations				Total
	2008	2009	2012	2013	
Australian Hobby		1	1		2
Black Kite	1				1
Black-shouldered Kite			1	1	2
Brown Falcon				2	2
Variable Goshawk				4	4
Collared Sparrowhawk	1				1
Nankeen Kestrel	8	3	9	7	27
Peregrine Falcon	1		1		2
Spotted Harrier				3	3
Wedge-tailed Eagle	2		1	2	5
White-bellied Sea-Eagle				1	1

7. TREE HOLLOW SURVEY

The surveys, carried out in October-November 2012, involved visiting almost all of the trees on the gentler topography in the project area; in all 246 trees were surveyed. Each tree, dead or alive, was inspected for obvious hollows. If hollows were present, the following information was recorded.

- a unique number and tree species;
- dch, trunk diameter at chest height, a measure of tree size;
- location as given by GPS instrument;
- the number of obvious hollows present;
- observed use by animals, native and exotic;
- the tree number was written against the tree on a colour aerial photograph.

A summary of all hollow-bearing trees recorded in the project area is provided in **Table 5**; the hollow-bearing trees recorded are listed individually in **Appendix 4**.

Sixty-nine observations of thirteen animal species were made of individuals utilising tree hollows in the project area; this involved 10 native species and three introduced species (see **Table 6**). No rare or threatened species were amongst the species recorded using tree hollows.

Table 5
Summary of results of tree hollow surveys

Species	No. Trees	No. Hollows	Hollows/tree	dch ¹ range	dch average
<i>Eucalyptus blakelyi</i>	154	619	4.0	70-196 cm	110 cm
<i>Eucalyptus bridgesiana</i>	2	8	4.0	142-160 cm	151 cm
<i>Eucalyptus melliodora</i>	24	90	3.8	84-198 cm	127 cm
<i>Eucalyptus dives</i>	9	32	3.6	41-90 cm	69 cm
<i>Eucalyptus pauciflora</i>	1	2	2.0	62 cm	62 cm
<i>Eucalyptus macrorhyncha</i>	19	60	3.2	59-127 cm	91 cm
<i>Eucalyptus rossii</i>	8	28	3.5	71-153 cm	112 cm
Dead tree	29	135	4.7	45-129 cm	76 cm
Totals	246	974	4.0	41-198 cm	100 cm

1. dch – trunk diameter at chest height.

Table 6
Animal species observed using tree hollows

Species	No. of Trees	Percent ¹
Indigenous Species (total observations - 36)		
Australian Wood Duck	1	0.4%
Common Brush-tailed Possum	3	1.2%
Crimson Rosella	8	3.3%
Eastern Rosella	2	0.8%
Galah	8	3.3%
Nankeen Kestrel	2	0.8%
Red-rumped Parrot	1	0.4%
Striated Pardalote	2	1.1%
Sulphur-crested Cockatoo	5	2.0%
Tree Martin	4	1.6%
Introduced Species (total observations - 33)		
Common Starling*	9	3.7%
European Honey Bee*	22	8.9%
Little Corella*	2	0.8%

1. Percentage of all 246 trees surveyed.

8. OTHER MATTERS

The opportunity is taken here to provide a complete plant species list for the project area; this is not comprehensive for the river valley as most of that area was not searched intensively. The list at **Appendix 6** combines lists from all previous relevant studies as listed earlier in this report.

9. REFERENCES

ACT Government (1980). *Nature Conservation Act 1980*. ACT Government, Canberra.

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Davey, C. (2012). Distribution, abundance and breeding status of the Superb Parrot (*Polytelis swainsonii*) during the 2011-12 breeding season, central and lower Molonglo Valley, ACT. Prepared the Canberra Ornithologists Group, April.

Kevin Mills & Associates (2009a). Preliminary Assessment, Land at West Molonglo and Ginninderra Creek, New South Wales, Australian Capital Territory. Prepared for CB Richard Ellis Pty Limited, January.

Kevin Mills & Associates (2009b). Further Flora and Fauna Studies, Land at West Molonglo and Ginninderra Creek, New South Wales, Australian Capital Territory. Prepared for The Riverview Group, Manuka, Act, July.

Taylor, M. (1992). *Birds of the Australian Capital Territory. An Atlas*. Canberra Ornithologists Group/National Capital Planning Authority, Canberra, 227 pp.

APPENDIX 1**SUMMARY OF TARGETED BIRD SURVEYS**

No.	Date	Time (mins)	No. Species (No. Birds)	Area Surveyed¹
1	28.11.08	07.30 – 08.00 (30 mins)	22 (66)	north of Strathnairn
2	28.11.08	08.00 – 08.30 (30 mins)	17 (36)	south of Strathnairn
3	02.12.08	07.40 – 08.10 (30 mins)	10 (56)	planted treed area
4	02.12.08	07.05 – 07.35 (30 mins)	19 (45)	red gum regrowth area
5	02.12.08	06.30 – 07.00 (30 mins)	16 (40)	woodland gully area
6	11.12.08	07.09 -07.53 (44 mins)	22 (93)	woodland gully area
7	11.12.08	08.00 – 08.21 (21 mins)	21 (47)	southeast woodland
8	11.12.08	08.22 – 08.44 (22 mins)	21 (60)	southeast woodland
9	15.12.08	07.28 – 07.48 (20 mins)	17 (49)	woodland gully
10	15.12.08	07.52 – 08.27 (35 mins)	25 (67)	woodland gully
11	10.09.12	10.00 – 12.30 (50 mins)	26 (-)	property, incidental
12	17.10.12	16.20 – 17.30 (70 mins)	28 (140)	land south of farm buildings
13	18.10.12	08.00 – 09.45 (105 mins)	28 (141)	land south of farm buildings
14	18.10.12	11.30 – 15.30 (240 mins)	26 (142)	land south of farm buildings
15	23.10.12	11.30 – 15.30 (240 mins)	22 (98)	land south of farm buildings
16	24.10.12	07.30 – 08.40 (70 mins)	30 (126)	land south of farm buildings
17	24.10.12	14.30 – 15.30 (60 mins)	19 (117)	NSW land, incidental
18	24.10.12	15.30 – 16.45 (75 mins)	25 (210)	southern woodland
19	25.10.12	10.20 – 11.20 (60 mins)	25 (113)	southern woodland
20	25.10.12	12.30 – 13.30 (60 mins)	21 (47)	northern land
21	30.10.12	06.40 – 07.45 (75 mins)	28 (123)	southern woodland
22	31.10.12	15.45 – 17.45 (120 mins)	39 (244)	land south of farm buildings
23	28.11.12	06.50 -07.50 (60 mins)	30 (199)	land south of farm buildings
24	22.01.13	12.15 – 14.00 (105 mins)	32 (226)	whole site, particularly NSW
25	02.02.13	15.30 – 17.30 (120 mins)	29 (192)	ACT land
26	20.02.13	14.30 – 15.30 (60 mins)	23 (182)	NSW land
27	20.02.13	15.45 – 17.00 (75 mins)	32 (255)	ACT land
28	21.02.13	07.40 – 11.00 (200 mins)	32 (128)	NSW land
29	11.08.13	15.45-17.15 (90 mins)	30 (215)	ACT and NSW land
30	02.09.13	08.30 – 14.30 (360 mins)	25 (127)	ACT land
31	09.09.13	08.00 – 15.00 (420 mins)	31(66)	NSW land
Totals		50.1 hours	75(3650)	-

1. Area or transect searches unless otherwise stated.

APPENDIX 2

LIST OF ANIMAL SPECIES FOR THE PROJECT AREA

1. Recorded in the NSW Wildlife Atlas within 5 km of the subject land (W).
 2. Recorded in the subject land in 2008-2013: A - ACT; N - NSW.
 3. ANABAT: DE - definite identification; PR - probable identification, PO - possible identification.
- Introduced species are indicated by an asterisk (*).

MAMMAL SPECIES

FAMILY		NSW Wildlife Atlas ¹	This Study ²
Species			
ORNITHORHYNCHIDAE			
Platypus	<i>Ornithorhynchus anatinus</i>	W	
TACHYGLOSSIDAE			
Short-beaked Echidna	<i>Tachyglossus aculeatus</i>	W	A,N
DASYURIDAE			
Spotted-tailed Quoll	<i>Dasyurus maculatus</i>	W	
PHASCOLARCTIDAE			
Koala	<i>Phascolarctos cinereus</i>	W	
VOMBATIDAE			
Common Wombat	<i>Vombatus ursinus</i>	W	A,N
PHALANGERIDAE			
Common Brushtail Possum	<i>Trichosurus vulpecula</i>		A,N
MACROPODIDAE			
Eastern Grey Kangaroo	<i>Macropus giganteus</i>	W	A,N
Common Wallaroo	<i>Macropus robustus</i>	W	A,N
Red-necked Wallaby	<i>Macropus rufogriseus</i>	W	
Swamp Wallaby	<i>Wallabia bicolor</i>	W	
MOLOSSIDAE			
Eastern Freetail Bat	<i>Mormopterus species</i>		(PR) ³
White-striped Freetail Bat	<i>Nyctinomus australis</i>		(DE)
VESPERTILIONIDAE			
Eastern Bentwing Bat	<i>Miniopterus schreibersii</i>		(DE)
Long-eared Bat species	<i>Nyctophilus sp.</i>		(PR)
Gould's Wattled Bat	<i>Chalinolobus gouldii</i>		(DE)
Chocolate Wattled Bat	<i>Chalinolobus morio</i>		(DE)
Large Forest Bat	<i>Vespadelus darlingtoni</i>		(PR)
Southern Forest Bat	<i>Vespadelus regulus</i>		(PR)
Little Forest Bat	<i>Vespadelus vulturnus</i>		(DE)

CANIDAE			
Fox*	<i>Vulpes vulpes</i>	W	A,N
LEPORIDAE			
Rabbit*	<i>Oryctolagus cuniculus</i>		A,N
Brown Hare*	<i>Lepus capensis</i>		A,N
MURIDAE			
Water Rat	<i>Hydromys chrysogaster</i>		N
BOVIDAE			
Cattle*	<i>Bos taurus</i>		A,N
CERVIDAE			
Fallow Deer*	<i>Dama dama</i>	W	A,N

BIRD SPECIES

FAMILY		COG	This
Species		(1990) ¹	Study ²

PHASIANIDAE

Stubble Quail	<i>Coturnix pectoralis</i>	W	A
Brown Quail	<i>Coturnix ypsilophora</i>	W	

ANATIDAE

Musk Duck	<i>Biziura lobata</i>	W	
Australian Wood Duck	<i>Chenonetta jubata</i>	W	A,N
Pacific Black Duck	<i>Anas superciliosa</i>	W	A,N
Grey Teal	<i>Anas gracilis</i>	W	A,N
Chestnut Teal	<i>Anas castanea</i>		N
Hardhead	<i>Aythya australis</i>	W	A,N

PODICIPEDIDAE

Australasian Grebe	<i>Tachybaptus novaehollandiae</i>	W	A,N
Hoary-headed Grebe	<i>Poliocephalus poliocephalus</i>	W	N

PHALACROCORACIDAE

Little Pied Cormorant	<i>Microcarbo melanoleucos</i>	W	A,N
Great Cormorant	<i>Phalacrocorax carbo</i>	W	A,N

PELECANIDAE

Australian Pelican	<i>Pelecanus conspicillatus</i>	W	
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ARDEIDAE

White-faced Heron	<i>Egretta novaehollandiae</i>	W	A
White-necked Heron	<i>Ardea pacifica</i>	W	N

Eastern Great Egret	<i>Ardea modesta</i>	W	
Cattle Egret	<i>Ardea ibis</i>	W	
Nankeen Night Heron	<i>Nycticorax caledonicus</i>	W	
THRESKIORNITHIDAE			
Australian White Ibis	<i>Threskiornis molucca</i>	W	A
Straw-necked Ibis	<i>Threskiornis spinicollis</i>	W	A
ACCIPITRIDAE			
Black Kite	<i>Milvus migrans</i>		A,N
Black-shouldered Kite	<i>Elanus axillaris</i>	W	A
Whistling Kite	<i>Haliastur sphenurus</i>	W	
Spotted Harrier	<i>Circus assimilis</i>		A,N
White-bellied Sea-Eagle	<i>Haliaeetus leucogaster</i>	W	A
Variable Goshawk	<i>Accipiter hiogaster</i>	W	A
Grey Goshawk	<i>Accipiter novaehollandiae</i>	W	
Collared Sparrowhawk	<i>Accipiter cirrhocephalus</i>		A
Wedge-tailed Eagle	<i>Aquila audax</i>	W	A,N
Little Eagle	<i>Hieraaetus morphnoides</i>	W	
FALCONIDAE			
Brown Falcon	<i>Falco berigora</i>	W	A
Australian Hobby	<i>Falco longipennis</i>	W	A
Peregrine Falcon	<i>Falco peregrinus</i>	W	A
Nankeen Kestrel	<i>Falco cenchroides</i>	W	A,N
RALLIDAE			
Purple Swamphen	<i>Porphyrio porphyrio</i>		A
Dusky Moorhen	<i>Gallinula tenebrosa</i>	W	A
Eurasian Coot	<i>Fulica atra</i>	W	A,N
SCOLOPACIDAE			
Red-necked Avocet	<i>Recurvirostra novaehollandiae</i>	W	
CHARADRIIDAE			
Black-fronted Dotterel	<i>Elseyaornis melanops</i>	W	A,N
Red-kneed Dotterel	<i>Erythrogonys cinctus</i>	W	N
Banded Lapwing	<i>Vanellus tricolor</i>	W	
Masked Lapwing	<i>Vanellus miles</i>	W	A,N
COLUMBIDAE			
Rock Dove*	<i>Columba livia</i>		A
Common Bronzewing	<i>Phaps chalcoptera</i>	W	
Crested Pigeon	<i>Ocyphaps lophotes</i>	W	A,N
Diamond Dove	<i>Geopelia cuneata</i>	W	
Peaceful Dove	<i>Geopelia striata</i>	W	

CACATUIDAE

Yellow-tailed Black-Cockatoo	<i>Calyptorhynchus funereus</i>	W	A
Gang-gang Cockatoo	<i>Callocephalon fimbriatum</i>	W	N
Galah	<i>Eolophus roseicapillus</i>	W	A,N
Little Corella*	<i>Cacatua sanguinea</i>		A
Long-billed Corella*	<i>Cacatua tenuirostris</i>		A
Sulphur-crested Cockatoo	<i>Cacatua galerita</i>	W	A,N

PSITTACIDAE

Australian King-Parrot	<i>Alisterus scapularis</i>	W	A,N
Superb Parrot	<i>Polytelis swainsonii</i>		A
Crimson Rosella	<i>Platycercus elegans</i>	W	A,N
Eastern Rosella	<i>Platycercus eximius</i>	W	A,N
Red-rumped Parrot	<i>Psephotus haematonotus</i>	W	A,N

CUCULIDAE

Pallid Cuckoo	<i>Cacomantis pallidus</i>	W	A
Brush Cuckoo	<i>Cacomantis variolosus</i>	W	
Fan-tailed Cuckoo	<i>Cacomantis flabelliformis</i>	W	N
Horsfield's Bronze-Cuckoo	<i>Chalcites basalis</i>	W	
Shining Bronze-Cuckoo	<i>Chalcites lucidus</i>	W	
Common Koel	<i>Eudynamys scolopacea</i>		A

STRIGIDAE

Southern Boobook	<i>Ninox novaeseelandiae</i>	W	A
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PODARGIDAE

Tawny Frogmouth	<i>Podargus strigoides</i>		A
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APODIDAE

White-throated Needletail	<i>Hirundapus caudacutus</i>	W	
Fork-tailed Swift	<i>Apus pacificus</i>	W	

HALCYONIDAE

Laughing Kookaburra	<i>Dacelo novaeguineae</i>	W	A,N
Sacred Kingfisher	<i>Todiramphus sanctus</i>	W	A

MEROPIIDAE

Rainbow Bee-eater	<i>Merops ornatus</i>	W	A
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CORACIIDAE

Dollarbird	<i>Eurystomus orientalis</i>	W	A
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MENURIDAE

Superb Lyrebird	<i>Menura novaehollandiae</i>	W	
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CLIMACTERIDAE

White-throated Treecreeper	<i>Cormobates leucophaea</i>	W	A,N
Brown Treecreeper	<i>Climacteris picumnus</i>	W	

MALURIDAE

Superb Fairy-wren	<i>Malurus cyaneus</i>	W	A,N
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PARDALOTIDAE

Spotted Pardalote	<i>Pardalotus punctatus</i>	W	
Striated Pardalote	<i>Pardalotus striatus</i>	W	A,N
White-browed Scrubwren	<i>Sericornis frontalis</i>	W	A,N
Speckled Warbler	<i>Chthonicola sagittata</i>	W	A
Weebill	<i>Smicrornis brevirostris</i>	W	A,N
Western Gerygone	<i>Gerygone fusca</i>	W	
White-throated Gerygone	<i>Gerygone albogularis</i>	W	A,N
Brown Thornbill	<i>Acanthiza pusilla</i>	W	A,N
Buff-rumped Thornbill	<i>Acanthiza reguloides</i>	W	A,N
Yellow-rumped Thornbill	<i>Acanthiza chrysorrhoa</i>	W	A,N
Yellow Thornbill	<i>Acanthiza nana</i>	W	
Striated Thornbill	<i>Acanthiza lineata</i>	W	A
Southern Whiteface	<i>Aphelocephala leucopsis</i>	W	N

MELIPHAGIDAE

Red Wattlebird	<i>Anthochaera carunculata</i>	W	A,N
Noisy Friarbird	<i>Philemon corniculatus</i>	W	A,N
Noisy Miner	<i>Manorina melanocephala</i>	W	A
Yellow-faced Honeyeater	<i>Lichenostomus chrysops</i>	W	A,N
White-eared Honeyeater	<i>Lichenostomus leucotis</i>	W	
White-plumed Honeyeater	<i>Lichenostomus penicillatus</i>	W	
Brown-headed Honeyeater	<i>Melithreptus brevirostris</i>	W	A
White-naped Honeyeater	<i>Melithreptus lunatus</i>	W	
Crescent Honeyeater	<i>Phylidonyris pyrrhoptera</i>	W	
New Holland Honeyeater	<i>Phylidonyris novaehollandiae</i>	W	
Eastern Spinebill	<i>Acanthorhynchus tenuirostris</i>	W	A
White-fronted Chat	<i>Epthianura albifrons</i>	W	
Orange Chat	<i>Epthianura aurifrons</i>		A

PETROICIDAE

Scarlet Robin	<i>Petroica boodang</i>	W	A,N
Flame Robin	<i>Petroica phoenicea</i>	W	A,N

CINCLOSOMATIDAE

Eastern Whipbird	<i>Psophodes olivaceus</i>	W	
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NEOSITTIDAE

Varied Sittella	<i>Daphoenositta chrysoptera</i>	W	
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PACHYCEPHALIDAE

Rufous Whistler	<i>Pachycephala rufiventris</i>		A,N
Grey Shrike-thrush	<i>Colluricincla harmonica</i>		A,N

DICRURIDAE

Leaden Flycatcher	<i>Myiagra rubecula</i>		N
Magpie-lark	<i>Grallina cyanoleuca</i>	W	A,N
Rufous Fantail	<i>Rhipidura rufifrons</i>	W	A
Grey Fantail	<i>Rhipidura albiscapa</i>	W	A,N
Willie Wagtail	<i>Rhipidura leucophrys</i>	W	A,N

CAMPEPHAGIDAE

Black-faced Cuckoo-shrike	<i>Coracina novaehollandiae</i>	W	A,N
White-winged Triller	<i>Lalage sueurii</i>	W	A

ORIOLOIDAE

Olive-backed Oriole	<i>Oriolus sagittatus</i>	W	
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ARTAMIDAE

White-browed Woodswallow	<i>Artamus superciliosus</i>	W	
Dusky Woodswallow	<i>Artamus cyanopterus</i>	W	A
Grey Butcherbird	<i>Cracticus torquatus</i>	W	
Australian Magpie	<i>Cracticus tibicen</i>	W	A,N
Pied Currawong	<i>Strepera graculina</i>	W	A,N
Grey Currawong	<i>Strepera versicolor</i>	W	

CORVIDAE

Australian Raven	<i>Corvus coronoides</i>	W	A,N
Little Raven	<i>Corvus mellori</i>	W	

CORCORACIDAE

White-winged Chough	<i>Corcorax melanorhamphos</i>	W	A,N
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PTILONORHYNCHIDAE

Satin Bowerbird	<i>Ptilonorhynchus violaceus</i>	W	
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ALAUDIDAE

Eurasian Skylark*	<i>Alauda arvensis</i>	W	A
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MOTACILLIDAE

Australasian Pipit	<i>Anthus novaeseelandiae</i>	W	A,N
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PASSERIDAE

House Sparrow*	<i>Passer domesticus</i>	W	A,N
Double-barred Finch	<i>Taeniopygia bichenovii</i>	W	A,N
Red-browed Finch	<i>Neochmia temporalis</i>	W	A,N
Diamond Firetail	<i>Stagonopleura guttata</i>	W	

FRINGILLIDAE

European Goldfinch*	<i>Carduelis carduelis</i>	W	A
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DICAEIDAE

Mistletoebird	<i>Dicaeum hirundinaceum</i>	W	
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HIRUNDINIDAE

Welcome Swallow	<i>Hirundo neoxena</i>	W	A,N
Tree Martin	<i>Petrochelidon nigricans</i>	W	A,N
Fairy Martin	<i>Petrochelidon ariel</i>	W	A

SYLVIIDAE

Australian Reed-Warbler	<i>Acrocephalus australis</i>	W	A
Rufous Songlark	<i>Cincloramphus mathewsi</i>	W	N
Brown Songlark	<i>Cincloramphus cruralis</i>	W	A
Golden-headed Cisticola	<i>Cisticola exilis</i>	W	

ZOSTEROPIDAE

Silvereye	<i>Zosterops lateralis</i>	W	A,N
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MUSCICAPIDAE

Common Blackbird*	<i>Turdus merula</i>	W	A,N
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STURNIDAE

Common Starling*	<i>Sturnus vulgaris</i>	W	A,N
Common Myna*	<i>Sturnus tristis</i>	W	A,N

FAMILY

Species	NSW Wildlife ¹ Atlas	This Study ²
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FROGS**MYOBATRACHIDAE**

Spotted Grass Frog	<i>Limnodynastes tasmaniensis</i>		A,N
Smooth Toadlet	<i>Uperoleia laevisgata</i>		A,N
Common Eastern Froglet	<i>Crinia signifera</i>		A,N

HYLIDAE

Green and Golden Bell Frog	<i>Litoria aurea</i>	W	
Peron's Tree Frog	<i>Litoria peronii</i>		A

REPTILES

CHELIDAE

Eastern Long-necked Tortoise	<i>Chelodina longicollis</i>	A
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SCINCIDAE

Striped Skink	<i>Ctenotus robustus</i>	A,N
Rainbow Skink	<i>Carlia tetradactyla</i>	A
Copper-tailed Skink	<i>Ctenotus taeniolatus</i>	A,N
Boulenger's Skink	<i>Morethia boulengeri</i>	A,N
Delicate Skink	<i>Lampropholis delicata</i>	N
Red-throated Skink	<i>Pseudemoia platynota</i>	A
Eastern Three-lined Skink	<i>Bassiana duperreyi</i>	N
Eastern Blue-tongued Lizard	<i>Tiliqua scincoides</i>	A

PYGOPODIDAE

Olive Legless Lizard	<i>Delma inornata</i>	A
Pink-tailed Worm Lizard	<i>Aprasia parapulchella</i>	A,N

AGAMIDAE

Eastern Water Dragon	<i>Physignathus lesueurii</i>	N
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ELAPIDAE

Red-bellied Black Snake	<i>Pseudechis porphyriacus</i>	N
Eastern Brown Snake	<i>Pseudonaja textilis</i>	A,N

FISH

CYPRINIDAE

Common Carp*	<i>Cyprinus carpio</i>	N
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POECILIIDAE

Mosquitofish/Gambusia*	<i>Gambusia holbrooki</i>	N
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APPENDIX 3**Fauna Survey Sheets for 2012-2013**

Note. Survey numbers continue from the last number in the 2009 surveys (KMA 2009).

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 11
Date: 10 September 2012		Time: 10.00 – 12.30 EST
Location: Incidental - property.		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australasian Grebe	X	
Australian Magpie	X	
Australian Raven	X	
Australian Wood Duck	X	
Black Swan	X	
Chestnut Teal	X	
Common Blackbird*	X	
Common Starling*	X	
Crested Pigeon	X	
Crimson Rosella	X	
Eastern Rosella	X	
Galah	X	
Grey Fantail	X	
Hardhead	X	
Magpie-lark	X	
Masked Lapwing	X	
Nankeen Kestrel	X	
Pacific Black Duck	X	
Pied Currawong	X	
Richards Pipit	X	
Sulphur-crested Cockatoo	X	
Superb Fairy-wren	X	
Welcome Swallow	X	
White-faced Heron	X	
Willie Wagtail	X	
Yellow-rumped Thornbill	X	
Eastern Grey Kangaroo	X	

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 12
Date: 17 October 2012		Time: 16.20 – 17.30 EDST
Location: Whole property south of farmhouse		
GPS:		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect:
Australian Magpie	7	
Australian Raven	2	
Australian Wood Duck	43 (including 4 young)	
Black-fronted Dotterel	2	
Common Blackbird*	1	
Common Myna*	2	
Common Starling*	6	
Crested Pigeon	3	
Crimson Rosella	4 (1 in tree hollow)	
Galah	5	
Grey Fantail	5	
Hardhead	1	
Magpie-lark	2	
Nankeen Kestrel	1 (0680425 6100434)	
Orange Chat	1	
Pacific Black Duck	2	
Pallid Cuckoo	1	
Rainbow Bee-Eater	2	
Red-rumped Parrot	4	
Richards Pipit	2	
Scarlet Robin	m, 0679885 6101211	
Striated Pardalote	2	
Sulphur-crested Cockatoo	25	
Superb Fairy-wren	5	
Tree Martin	2	
Welcome Swallow	4	
White-browed Scrubwren	3	
Willie Wagtail	2	
Eastern Grey Kangaroo	several	
Brown Hare*	3	
<i>Crinia signifera</i>	calls	
<i>Limnodynastes tasmaniensis</i>	calls	

Bird Count Form		Kevin Mills & Associates	
Site Name: West Belconnen		Survey No.: 13	
Date: 18 October 2012		Time: 08.00 – 09.45 EDST	
Location: Property south of farmhouse.			
GPS: -		Soil: Sandy clay	
Land Tenure: Freehold		Geology: Silurian volcanics.	
Altitude: approx.580 m		Topography: upper ridges and flat.	
Slope: gentle		Aspect: -	
Australian King-Parrot	3		
Australian Magpie	10		
Australian Raven	2		
Australian Wood Duck	4. Pair at tree hollow		
Black-faced Cuckoo-shrike	1		
Common Starling*	10		
Crested Pigeon	2		
Crimson Rosella	11		
Eastern Rosella	10. Pair at tree hollows		
European Goldfinch*	3		
Galah	9		
Grey Fantail	3		
Grey Shrike-thrush	1		
Laughing Kookaburra	3		
Little Corella*	1		
Magpie-lark	1		
Nankeen Kestrel	3 0680426 6099882 (2); 0681258 6099490; 0681618 6099450		
Pacific Black Duck	2		
Pied Currawong	3		
Rainbow Bee-Eater	4		
Red-rumped Parrot	11. Pair at tree hollow		
Striated Pardalote	9		
Sulphur-crested Cockatoo	16 Several seen at tree hollows		
Superb Fairy-wren	8		
Tree Martin	4		
Welcome Swallow	2		
Willie Wagtail	1		
Yellow-rumped Thornbill	4		
Eastern Grey Kangaroo	observed		
Red-throated Skink	observed below rock		
<i>Crinia signifera</i>	calls		
<i>Limnodynastes tasmaniensis</i>	calls		

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 14
Date: 18 October 2012		Time: 11.30 – 15.30 EDST
Location: Incidental survey; property south of farmhouse.		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australian Magpie	6	
Australian Raven	2	
Australian Wood Duck	18	
Black-fronted Dotterel	1	
Common Starling*	12	
Crested Pigeon	7	
Crimson Rosella	15	
Eastern Rosella	7	
Galah	9	
Hardhead	1	
House Sparrow*	2	
Little Corella*	1. Seen in nest hollow	
Magpie-lark	2	
Nankeen Kestrel	1. 0680928 6099750	
Noisy Friarbird	1	
Pacific Black Duck	2	
Red-rumped Parrot	5	
Richards Pipit	4	
Striated Pardalote	9	
Sulphur-crested Cockatoo	12	
Superb Fairy-wren	4	
Tree Martin	1	
Welcome Swallow	6	
Willie Wagtail	2	
Yellow-faced Honeyeater	10	
Yellow-rumped Thornbill	2	
Eastern Grey Kangaroo	observed	
Common Brush-tailed Possum	dung	
Fox*	observed	
Delicate Skink	observed	
Eastern Long-necked Tortoise	observed in dam	
<i>Crinia signifera</i>	calls	
<i>Limnodynastes tasmaniensis</i>	calls	

Bird Count Form		Kevin Mills & Associates	
Site Name: West Belconnen		Survey No.: 15	
Date: 23 October 2012		Time: 11.30 – 15.30 EDST	
Location: Incidental survey; property south of farmhouse.			
GPS: -		Soil: Sandy clay	
Land Tenure: Freehold		Geology: Silurian volcanics.	
Altitude: approx.580 m		Topography: upper ridges and flat.	
Slope: gentle			Aspect: -
Australian Magpie	7 immatures seen		
Australian Raven	2		
Australian Wood Duck	15. including 4 young at dam. Bird coming out of tree hollow.		
Black-faced Cuckoo-shrike	1		
Black-fronted Dotterel	1		
Common Starling*	22		
Crimson Rosella	9. bird at tree hollow		
Eastern Rosella	2. bird in tree hollow		
Galah	5		
Grey Fantail	2		
Laughing Kookaburra	1		
Magpie-lark	2		
Nankeen Kestrel	1. One near tree hollow. 0680987 6100217		
Pacific Black Duck	2		
Rainbow Bee-eater	2		
Red-rumped Parrot	6		
Striated Pardalote	6		
Superb Fairy-wren	3		
Tree Martin	6. birds coming out of tree hollow		
Welcome Swallow	1		
White-faced Heron	Chick in nest on tree no. 47		
Yellow-rumped Thornbill	1		
Eastern Grey Kangaroo	observed		
Eastern Long-necked Tortoise	observed in dam		
<i>Crinia signifera</i>	calls		
<i>Limnodynastes tasmaniensis</i>	calls		

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 16
Date: 24 October 2012		Time: 07.30 – 08.40 EDST
Location: Targeted survey; southern woodland patches		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australian Magpie	12	
Australian Wood Duck	2	
Brown Thornbill	2	
Buff-rumped Thornbill	1	
Common Starling*	15	
Crested Pigeon	1	
Crimson Rosella	18	
Eastern Rosella	6	
Galah	3	
Grey Fantail	1	
Laughing Kookaburra	1	
Little Corella*	1	
Magpie-lark	1	
Nankeen Kestrel	2. 0680902 6099869; 0681283 6099375.	
Noisy Friarbird	1	
Pied Currawong	1	
Rainbow Bee-eater	2	
Red-rumped Parrot	6	
Richards Pipit	1	
Rufous Whistler	1	
Striated Pardalote	9	
Sulphur-crested Cockatoo	20	
Superb Fairy-wren	7	
Tree Martin	4	
Welcome Swallow	2	
White-browed Scrubwren	1	
White-faced Heron	1. going to nest containing young	
Willie Wagtail	1	
Yellow-faced Honeyeater	2	
Yellow-rumped Thornbill	1	

Bird Count Form		Kevin Mills & Associates	
Site Name: West Belconnen		Survey No.: 17	
Date: 24 October 2012		Time: 14.30 – 15.30 EDST	
Location: Incidental survey; NSW land in north			
GPS: -		Soil: Sandy clay	
Land Tenure: Freehold		Geology: Silurian volcanics.	
Altitude: approx.580 m		Topography: upper ridges and flat.	
Slope: gentle		Aspect: -	
Australasian Grebe	9		
Australian Magpie	7		
Australian Wood Duck	32		
Black Swan	2 plus 4 young		
Black-fronted Dotterel	1		
Common Starling*	1		
Eurasia Coot	12		
Galah	2		
Grey Fantail	1		
Grey Teal	10		
Hardhead	12		
Hoary-headed Grebe	10		
Magpie-lark	4		
Pacific Black Duck	4		
Richards Pipit	1		
Striated Pardalote	1		
Sulphur-crested Cockatoo	1		
Superb Fairy-wren	1		
Welcome Swallow	2		

Bird Count Form		Kevin Mills & Associates	
Site Name: West Belconnen		Survey No.: 18	
Date: 24 October 2012		Time: 15.30 – 16.45 EDST	
Location: Targeted survey; southern woodland patches.			
GPS: -		Soil: Sandy clay	
Land Tenure: Freehold		Geology: Silurian volcanics.	
Altitude: approx.580 m		Topography: upper ridges and flat.	
Slope: gentle		Aspect: -	
Australian Hobby	1. 0679887 6101136		
Australian Magpie	3		
Australian Raven	1		
Australian Wood Duck	32		
Black-faced Cuckoo-shrike	1		
Black-shouldered Kite	1. 0680053 6101036		
Common Starling*	72		
Crested Pigeon	1		
Crimson Rosella	4		
Eastern Rosella	1		
Galah	5		
Laughing Kookaburra	1		
Long-billed Corella*	2		
Magpie-lark	3		
Pacific Black Duck	3		
Rainbow Bee-eater	2		
Red-rumped Parrot	4		
Richards Pipit	6		
Rufous Whistler	1		
Striated Pardalote	3		
Sulphur-crested Cockatoo	56		
Superb Fairy-wren	2		
Superb Parrot	1m.2f. 0680733 6099739; 1f. 0681553 6099560		
Tree Martin	1		
Welcome Swallow	2		

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 19
Date: 25 October 2012		Time: 10.20 – 11.20 EDST
Location: Targeted survey; southern woodland patches.		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australian Magpie	4	
Australian Raven	2	
Australian Wood Duck	17	
Buff-rumped Thornbill	2	
Common Starling*	5	
Crimson Rosella	3	
Dollarbird	2	
Eastern Rosella	8	
European Goldfinch*	2	
Galah	9	
Grey Fantail	3	
Hardhead	1	
Laughing Kookaburra	1	
Magpie-lark	2	
Nankeen Kestrel	1. 0680776 6099798	
Pacific Black Duck	2	
Rainbow Bee-eater	2	
Red-browed Finch	2	
Red-rumped Parrot	7	
Rufous Whistler	1	
Striated Pardalote	6	
Sulphur-crested Cockatoo	22	
Superb Fairy-wren	4	
Tree Martin	3	
Welcome Swallow	2	
Eastern Long-necked Tortoise	observed in dam	

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 20
Date: 25 October 2012		Time: 12.30 – 13.30 EDST
Location: Incidental, northern section only		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australian Magpie	4	
Australian Raven	3	
Australian Wood Duck	5	
Brown Thornbill	1	
Common Starling*	5	
Double-barred Finch	4	
Galah	1	
Grey Fantail	1	
House Sparrow*	2	
Laughing Kookaburra	1	
Magpie-lark	1	
Red Wattlebird	2	
Rufous Whistler	3	
Striated Pardalote	2	
Sulphur-crested Cockatoo	1	
Superb Fairy-wren	4	
Welcome Swallow	3	
White-browed Scrubwren	1	
White-winged Chough	1	
Willie Wagtail	1	
Yellow-rumped Thornbill	2	

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 21
Date: 30 October 2012		Time: 06.30 – 07.45 EDST
Location: Targeted suervy; southern woodland patches		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australian Magpie	10	
Australian King-Parrot	2	
Australian Raven	2	
Australian Wood Duck	4	
Black-fronted Dotterel	1	
Common Myna*	2	
Common Starling*	15	
Crimson Rosella	12	
Dusky Woodswallow	1 - 0680632 6100091	
Eastern Rosella	3	
Galah	11	
Grey Fantail	1	
Grey Teal	1	
House Sparrow*	3	
Laughing Kookaburra	1	
Magpie-lark	1	
Nankeen Kestrel	2. 0680772 6099794. One in tree hollow nearby	
Noisy Friarbird	1	
Pied Currawong	2	
Rainbow Bee-eater	2	
Red Wattlebird	1	
Red-rumped Parrot	10	
Rufous Whistler	1	
Striated Pardalote	4	
Sulphur-crested Cockatoo	16	
Superb Fairy-wren	3	
Welcome Swallow	7	
White-browed Scrubwren	3	

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 22
Date: 31 October 2012		Time: 15.45 – 17.45 EDST
Location: Targeted suervy; southern woodland patches north to farmhouse.		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australasian Grebe	2	
Australian King-Parrot	1	
Australian Magpie	16	
Australian Raven	4	
Australian Wood Duck	22	
Black-faced Cuckoo-shrike	2	
Buff-rumped Thornbill	2	
Common Blackbird*	2	
Common Myna*	3	
Common Starling*	23.seen in tree hollow	
Crested Pigeon	2	
Crimson Rosella	7	
Dusky Moorhen	2	
Dusky Woodswallow	2. 0680959 6099089	
Eastern Rosella	7	
Galah	19. 1 sitting at tree hollow	
Grey Fantails	4	
Grey Teal	6	
Hardhead	4	
House Sparrow*	7	
Laughing Kookaburra	2	
Magpie-lark	5	
Nankeen Kestrel	1. 0679931 6101317	
Pacific Black Duck	4	
Pallid Cuckoo	1	
Red-rumped Parrot	11. pair in hollow, tree no. 92	
Richards Pipit	3	
Rufous Whistler	3	
Striated Pardalote	2	
Sulphur-crested Cockatoo	48	
Superb Fairy-wren	4	
Tree Martin	11. see in tree hollow	
Wedge-tailed Eagle	1. 0680356 6100532	
Welcome Swallow	5	
White-faced Heron	1. plus one at nest	
White-throated Treecreeper	1	
White-winged Triller	Pair.0679836 6101174	
Willie Wagtail	2	
Yellow-rumped Thornbill	3	

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 23
Date: 28 November 2012		Time: 06.50 – 07.50 EDST
Location: Targeted survey; southern woodland patches north to farmhouse.		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australasian Grebe	1	
Australian Magpie	18	
Australian Raven	3	
Australian Wood Duck	43 chicks with pair	
Black-fronted Dotterel	1	
Common Koel	1 (near southern houses)	
Common Myna*	3	
Common Starling*	18	
Crested Pigeon	5	
Crimson Rosella	10	
Eastern Rosella	5	
European Goldfinch*	2	
Galah	19	
Grey Teal	4	
Hardhead	1	
Laughing Kookaburra	1	
Magpie-lark	2	
Nankeen Kestrel	0681259 6099794 (2)	
Pacific Black Duck	2	
Rainbow Bee-eater	1	
Red-rumped Parrot	11	
Richards Pipit	3	
Rufous Songlark	1	
Rufous Whistler	1	
Striated Pardalote	6	
Sulphur-crested Cockatoo	19	
Superb Fairy-wren	5	
Superb Parrot	0680850 6100021 (3 flying north)	
Tree Martin	3	
Welcome Swallow	5	

Bird Count Form		Kevin Mills & Associates	
Site Name: West Belconnen		Survey No.: 24	
Date: 22 January 2013		Time: 12.15 – 14.00 EDST	
Location: Targeted survey; throughout site, particularly in far north.			
GPS: -		Soil: Sandy clay	
Land Tenure: Freehold		Geology: Silurian volcanics.	
Altitude: approx.580 m		Topography: upper ridges and flat.	
Slope: gentle		Aspect: -	
Australasian Grebe	6		
Australian Magpie	9		
Australian Raven	4		
Australian Wood Duck	25		
Black Swan	2		
Black-faced Cuckoo-shrike	1		
Black-fronted Dotterel	1		
Common Blackbird*	2		
Common Starling*	80		
Dollarbird	1		
Eurasian Coot	22		
Eurasian Skylark*	1		
Galah	1		
Grey Fantail	1		
Grey Shrike-thrush	1		
Grey Teal	8		
Hardhead	12		
Hoary-headed Grebe	2		
Little Pied Cormorant	1		
Magpie-lark	1		
Masked Lapwing	3		
Pacific Black Duck	4		
Red-browed Finch	7		
Red-rumped Parrot	1		
Richards Pipit	7		
Silvereye	8		
Superb Fairy-wren	8		
White-browed Scrubwren	2		
White-throated Gerygone	1		
White-throated Treecreeper	1		
Willie Wagtail	1		
Yellow-faced Honeyeater	2		

Bird Count Form		Kevin Mills & Associates	
Site Name: West Belconnen		Survey No.: 25	
Date: 2 February 2013		Time: 15.30 - 17.30 EDST	
Location: Targeted survey; ACT section only.			
GPS: -		Soil: Sandy clay	
Land Tenure: Freehold		Geology: Silurian volcanics.	
Altitude: approx.580 m		Topography: upper ridges and flat.	
Slope: gentle		Aspect: -	
Australian Magpie	20		
Australian Raven	4		
Australian Wood Duck	31		
Black-faced Cuckoo-shrike	4		
Brown Falcon	1. 0681270 6098690		
Brown Goshawk	1. 0679825 6101132		
Brown Thornbill	2		
Buff-rumped Thornbill	2		
Common Myna*	1		
Common Starling*	42		
Crimson Rosella	4		
Dusky Moorhen	2		
Eurasian Coot	12		
Eastern Rosella	2		
Galah	4		
Grey Fantail	3		
Grey Teal	11		
Hardhead	2		
Magpie-lark	3		
Nankeen Kestrel	3. 0681334 6099722; 0680307 6100768; 0681720 6099351		
Pacific Black Duck	2		
Red-rumped Parrot	15		
Richards Pipit	3		
Sacred Kingfisher	1		
Spotted Harrier	1. 0680591 6100315		
Superb Fairy-wren	21		
Welcome Swallow	2		
White-faced Heron	1		
Willie Wagtail	3		

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 26
Date: 20 February 2013		Time: 14.30 – 15.30 EDST
Location: Targeted survey; NSW section only.		
GPS: -		Soil: Clayey, some sandy section.
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australasian Grebe	8	
Australian Magpie	14	
Australian Raven	2	
Australian Wood Duck	47	
Black Swan	1	
Black-fronted Dotterel	1	
Eurasian Coot	33	
Grey Fantail	1	
Grey Teal	9	
Hardhead	21	
Hoary-headed Grebe	16	
Magpie-lark	3	
Masked Lapwing	6	
Pacific Black Duck	8	
Red-kneed Dotterel	1	
Spotted Harrier	1. 0678976 6102483	
Superb Fairy-wren	1	
Weebill	2	
White-faced Heron	1	
White-necked Heron	1	
White-throated Treecreeper	1	
Willie Wagtail	1	
Yellow-rumped Thornbill	4	

Bird Count Form		Kevin Mills & Associates	
Site Name: West Belconnen		Survey No.: 27	
Date: 20 February 2013		Time: 15.45 – 17.00 EDST	
Location: Targeted survey; ACT section only.			
GPS: -		Soil: Sandy clay	
Land Tenure: Freehold		Geology: Silurian volcanics.	
Altitude: approx.580 m		Topography: upper ridges and flat.	
Slope: gentle		Aspect: -	
Australasian Grebe	10		
Australian Magpie	15		
Australian Raven	2		
Australian Wood Duck	49		
Black-faced Cuckoo-shrike	4		
Black-fronted Dotterel	2		
Buff-rumped Thornbill	2		
Common Myna*	7		
Common Starling*	44		
Crested Pigeon	11		
Crimson Rosella	3		
Dollarbird	1		
Dusky Woodswallow	8. 0681064 6099833		
Eurasian Coot	13		
European Goldfinch*	1		
Galah	2		
Grey Fantail	5		
Grey Teal	10		
Hardhead	1		
House Sparrow*	6		
Magpie-lark	9		
Nankeen Kestrel	1. 0679942 6101389. 2. 0680853 6099122		
Noisy Friarbird	1		
Pacific Black Duck	3		
Pied Currawong	2		
Red-rumped Parrot	19		
Superb Fairy-wren	9		
Red-browed Finch	2		
Weebill	2		
White-throated Treecreeper	1		
Willie Wagtail	5		
Yellow-rumped Thornbill	5		

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 28
Date: 21 February 2013		Time: 07.40 – 11.00 EDST
Location: Targeted survey; NSW section only.		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australasian Grebe	2	
Australian Magpie	17	
Australian Raven	2	
Australian Wood Duck	2	
Black-faced Cuckoo-shrike	1	
Brown Thornbill	1	
Buff-rumped Thornbill	3	
Crimson Rosella	4	
Eastern Rosella	4	
Galah	4	
Grey Fantail	2	
Grey Shrike-thrush	1	
House Sparrow*	2	
House Sparrow*	2	
Leaden Flycatcher	2	
Magpie-lark	3	
Nankeen Kestrel	1. 0678635 6102401; 1. 0679063 6102582	
Pacific Black Duck	5	
Pied Currawong	2	
Rufous Whistler	2	
Striate Pardalote	1	
Sulphur-crested Cockatoo	1	
Superb Fairy-wren	2	
Red-browed Finch	10	
Wedge-tailed eagle	2. 0678635 6102401	
Welcome Swallow	35	
White-browed Scrubwren	2	
White-throated Gerygone	1	
White-throated Treecreeper	2	
White-winged Chough	3	
Yellow-faced Honeyeater	1	
Yellow-rumped Thornbill	6	

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 29
Date: 11 August 2013		Time: 15.45 – 17.15
Location: Transect through ACT and NSW land.		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australasian Grebe	2	
Australian Magpie	8	
Australian Raven	3	
Australian Wood Duck	42	
Buff-rumped Thornbill	5	
Common Myna*	11	
Common Starling*	24	
Crested Pigeon	6	
Crimson Rosella	4	
Double-barred Finch	2	
Eurasian coot	1	
Galah	4	
Grey Shrike-thrush	3	
Grey Teal	11	
Hardhead	7	
House Sparrow*	2	
Laughing Kookaburra	1	
Magpie-lark	5	
Masked Lapwing	1	
Nankeen Kestrel	1. 0680473 6100407	
Pacific Black Duck	8	
Red Wattlebird	3	
Red-browed Finch	18	
Red-rumped Parrot	23	
Sulphur-crested Cockatoo	8	
Superb Fairy-wren	2	
Welcome Swallow	2	
White-throated Treecreeper	1	
Willie Wagtail	3	
Yellow-rumped Thornbill	4	

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 30
Date: 02 Sept. 2013		Time: 08.30 – 14.30
Location: Walked transect through ACT land.		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx.580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australian Magpie	11	
Australian Raven	3	
Australian Wood Duck	6	
Brown Falcon	1 – 0680321 6099849	
Common Skylark*	2	
Common Starling*	6	
Crimson Rosella	7	
Dusky Woodswallow	1 – 680930 6099848	
Galah	9	
Grey Teal	3	
Laughing Kookaburra	3	
Magpie-lark	2	
Nankeen Kestrel	1 – 0681189 6098926	
Pacific Black Duck	2	
Red-rumped Parrot	5	
Striated Pardalote	4	
Stubble Quail	1	
Sulphur-crested Cockatoo	47	
Superb Fairy-wren	2	
Superb Parrot	3 - 0680913 6098202	
Tree Martin	2	
Variable Goshawk	1 –	
Welcome Swallow	2	
Yellow-face Honeyeater	3	
Yellow-rumped Thornbill	1	

Bird Count Form		Kevin Mills & Associates
Site Name: West Belconnen		Survey No.: 31
Date: 09 Sept. 2013		Time: 08.00 – 15.00
Location: Walked transect through NSW land.		
GPS: -		Soil: Sandy clay
Land Tenure: Freehold		Geology: Silurian volcanics.
Altitude: approx. 580 m		Topography: upper ridges and flat.
Slope: gentle		Aspect: -
Australasian Grebe	3	
Australian Magpie	4	
Australian Raven	2	
Australian Wood Duck	8	
Black-fronted Dotterel	3	
Black Swan	1	
Common Starling*	1	
Crimson Rosella	2	
Fan-tailed Cuckoo	1	
Galah	4	
Grey Fantail	1	
Grey Teal	2	
Grey Shrike-thrush	1	
Hardhead	1	
Magpie-lark	2	
Nankeen Kestrel	1 - 0677615 6103177	
Noisy Friarbird	1	
Pacific Black Duck	5	
Pied Currawong	1	
Red-rumped Parrot	2	
Red Wattlebird	1	
Scarlet robin	m – 0677720 6102572	
Striated Pardalote	2	
Sulphur-crested Cockatoo	1	
Superb Fairy-wren	2	
Tree Martin	2	
Welcome Swallow	3	
White-throated Treecreeper	1	
White-winged Chough	1	
Willie Wagtail	1	
Yellow-face Honeyeater	5	

APPENDIX 4

HOLLOW-BEARING TREES RECORDED IN THE PROJECT AREA

No.	Tree Species	Hollows	GPS ¹	Hollow use	dch (cm)
01	<i>Eucalyptus blakelyi</i>	7	0681570 6099574	-	127
02	<i>Eucalyptus blakelyi</i>	4	0681490 6099656	-	135
03	<i>Eucalyptus blakelyi</i>	7	0681352 6099706	-	125
04	<i>Eucalyptus blakelyi</i>	3	0681308 6099499	Sulphur-crested Cockatoo	110
05	<i>Eucalyptus blakelyi</i>	1	0681356 6099492	-	113
06	<i>Eucalyptus blakelyi</i>	1	0681356 6099492	-	92
07	<i>Eucalyptus blakelyi</i>	6	0681247 6099501	Crimson Rosella	108
08	<i>Eucalyptus blakelyi</i>	6	0681216 6099536	Little Corella*	132
09	<i>Eucalyptus blakelyi</i>	2	0681204 6099522	Crimson Rosella (?)	122
10	<i>Eucalyptus blakelyi</i>	2	0681119 6099545	-	102
11	<i>Eucalyptus blakelyi</i>	7	0681041 6099525	-	114
12	<i>Eucalyptus melliodora</i>	2	0681015 6099533	-	110
13	<i>Eucalyptus melliodora</i>	1	0681000 6099546	-	164
14	<i>Eucalyptus blakelyi</i>	4	0680838 6099541	Common Starling* (?)	89,106
15	<i>Eucalyptus blakelyi</i>	2	0680804 6099558	-	113
16	<i>Eucalyptus blakelyi</i>	4	0680597 6099767	-	142
17	<i>Eucalyptus melliodora</i>	3	0680496 6099731	-	95
18	<i>Eucalyptus melliodora</i>	6	0680439 6099726	Galah, Striated Pardalote	123
19	<i>Eucalyptus melliodora</i>	6	0680341 6099858	Galah	138
20	dead tree	5	0680410 6099874	Crimson Rosella	91
21	<i>Eucalyptus melliodora</i>	3	0680529 6099847	-	198
22	<i>Eucalyptus blakelyi</i>	5	0680540 6099841	-	85
23	<i>Eucalyptus blakelyi</i>	4	0680519 6099827	stick nest	95
24	<i>Eucalyptus blakelyi</i>	4	0680765 6099774	-	103
25	<i>Eucalyptus blakelyi</i>	4	0680784 6099763	-	128
26	<i>Eucalyptus blakelyi</i>	1	0680768 6099743	-	60
27	<i>Eucalyptus blakelyi</i>	2	0680811 6099788	-	94
28	<i>Eucalyptus blakelyi</i>	3	0680859 6099764	-	103
29	<i>Eucalyptus melliodora</i>	7	0680856 6099753	Brush-tailed Possum (dung)	176
30	<i>Eucalyptus blakelyi</i>	6	0680952 6099745	stick nest	152
31	<i>Eucalyptus blakelyi</i>	3	0680930 6099715	-	133
32	<i>Eucalyptus blakelyi</i>	6	0680952 6099700	-	107
33	<i>Eucalyptus blakelyi</i>	4	0680970 6099715	-	196
34	<i>Eucalyptus blakelyi</i>	6	0681024 6099688	-	112
35	<i>Eucalyptus blakelyi</i>	3	0681041 6099704	-	92
36	<i>Eucalyptus blakelyi</i>	2	0681125 6099680	European Honey Bee*	173
37	<i>Eucalyptus blakelyi</i>	6	0681065 6099673	-	107
38	<i>Eucalyptus blakelyi</i>	3	0681086 6099596	Galah	117
39	<i>Eucalyptus blakelyi</i>	7	0681058 6099625	European Honey Bee*	139
40	<i>Eucalyptus blakelyi</i>	2	0680981 6099611	-	95
41	<i>Eucalyptus blakelyi</i>	5	0680939 6099601	-	100
42	<i>Eucalyptus blakelyi</i>	2	0680947 6099645	-	81
43	<i>Eucalyptus blakelyi</i>	1	0680957 6099645	tree nearly dead	92

No.	Tree Species	Hollows	GPS ¹	Hollow use	dch (cm)
44	<i>Eucalyptus blakelyi</i>	2	0680885 6099635	stick nest	116
45	<i>Eucalyptus blakelyi</i>	4	0680888 6099659	Galah	146
46	<i>Eucalyptus blakelyi</i>	2	0680841 6099692	-	136
47	<i>Eucalyptus blakelyi</i>	1	0680847 6099702	stick nest: White-faced heron	102
48	<i>Eucalyptus blakelyi</i>	3	0680823 6099717	-	105
49	dead tree	6	0680720 6099700	-	129
50	dead tree	3	0680733 6099739	-	55
51	<i>Eucalyptus blakelyi</i>	5	0680678 6099657	-	93
52	<i>Eucalyptus blakelyi</i>	6	0680805 6100250	Common Starling*	122
53	<i>Eucalyptus blakelyi</i>	3	0680480 6100385	Galah, stick nest	122
54	<i>Eucalyptus melliodora</i>	3	0680369 6100254	stick nest	150
55	<i>Eucalyptus blakelyi</i>	5	0680426 6100320	-	102
56	<i>Eucalyptus blakelyi</i>	3	0680428 6100349	-	102
57	<i>Eucalyptus blakelyi</i>	4	0680390 6100405	Crimson Rosella (?), Honey Bee*	130
58	<i>Eucalyptus melliodora</i>	1	0680390 6100473	-	111
59	dead tree	4	0680337 6100456	-	76
60	<i>Eucalyptus blakelyi</i>	8	0680368 6100535	Galah	106
61	<i>Eucalyptus blakelyi</i>	5	0680370 6100548	Little Corella*, Common Starling*,	120
62	<i>Eucalyptus blakelyi</i>	3	068 0225 6100774	-	152
63	<i>Eucalyptus blakelyi</i>	4	0681293 6099699	-	106
64	<i>Eucalyptus blakelyi</i>	3	0681307 6099640	-	96
65	<i>Eucalyptus blakelyi</i>	2	0681359 6099598	-	68
66	<i>Eucalyptus blakelyi</i>	3	0681387 6099589	-	147
67	<i>Eucalyptus blakelyi</i>	1	0681358 6099544	-	101
68	<i>Eucalyptus dives</i>	4	0681219 6099784	-	70
69	<i>Eucalyptus dives</i>	2	0681229 6099786	-	56
70	<i>Eucalyptus dives</i>	2	0681239 6099786	-	41
71	dead tree	5	0680971 6099856	Common Starling*	107
72	<i>Eucalyptus blakelyi</i>	2	0680939 6099899	-	138
73	<i>Eucalyptus blakelyi</i>	2	0680878 6099906	-	128
74	<i>Eucalyptus pauciflora</i>	2	0680862 6099860	-	62
75	dead tree	4	0680733 6100009	Crimson Rosella	63
76	dead tree	7	0680796 6100078	-	80
77	<i>Eucalyptus blakelyi</i>	1	0680764 6100067	stick nest	100
78	dead tree	5	0680778 6100056	Crimson Rosella	55
79	<i>Eucalyptus dives</i>	6	0680792 6100131	-	90
80	dead tree	6	0680739 6100097	-	48
81	dead tree	3	0680721 6100099	-	45
82	<i>Eucalyptus melliodora</i>	2	0680673 6100021	-	100
83	<i>Eucalyptus melliodora</i>	2	0680673 6100006	-	87
84	<i>Eucalyptus dives</i>	1	0680645 6100020	-	74
85	<i>Eucalyptus dives</i>	3	0680608 6100082	-	76
86	<i>Eucalyptus dives</i>	4	0680620 6100016	European Honey Bee*	68
87	<i>Eucalyptus dives</i>	4	0680614 6100005	-	73
88	<i>Eucalyptus blakelyi</i>	8	0680594 6100025	Crimson Rosella	160

No.	Tree Species	Hollows	GPS ¹	Hollow use	dch (cm)
89	dead tree	4	0680585 6100064	-	84
90	<i>Eucalyptus blakelyi</i>	4	0680594 6099953	-	106
91	<i>Eucalyptus blakelyi</i>	5	0680617 6099930	European Honey Bee*	98
92	<i>Eucalyptus blakelyi</i>	5	0680630 6099952	-	126
93	<i>Eucalyptus blakelyi</i>	6	0680640 6099939	Tree Martin	79
94	<i>Eucalyptus blakelyi</i>	2	0680638 6099916	-	100
95	<i>Eucalyptus blakelyi</i>	5	0680823 6099826	-	86
96	<i>Eucalyptus blakelyi</i>	4	0680906 6099814	-	122
97	<i>Eucalyptus blakelyi</i>	5	0681062 6099937	-	94
98	<i>Eucalyptus blakelyi</i>	5	0681028 6099778	European Honey Bee*	138
99	<i>Eucalyptus blakelyi</i>	7	0681094 6099938	-	96
100	<i>Eucalyptus melliodora</i>	5	0681042 6099950	Eastern Rosella	100
101	<i>Eucalyptus blakelyi</i>	8	0681043 6100034	Sulphur-crested Cockatoo, Starling*	153
102	<i>Eucalyptus dives</i>	6	0680964 6100081	-	77
103	dead tree	6	0680939 6100121	-	58
104	<i>Eucalyptus blakelyi</i>	7	0680985 6100229	Common Starling*	58
105	<i>Eucalyptus blakelyi</i>	4	0680987 6100217	Nankeen Kestrel ?	91
106	<i>Eucalyptus blakelyi</i>	2	0681032 6100277	-	86
107	<i>Eucalyptus melliodora</i>	3	0681075 6100286	-	120
108	dead tree	6	0680809 6100425	-	84
109	<i>Eucalyptus blakelyi</i>	8	0680636 6100194	-	112
110	dead tree	5	0680611 6100135	-	97
111	dead tree	6	0680575 6100125	-	87
112	dead tree	5	0680512 6100134	-	62,64
113	<i>Eucalyptus macrorhyncha</i>	3	0680471 6100068	-	94
114	<i>Eucalyptus macrorhyncha</i>	6	0680437 6100066	-	108
115	<i>Eucalyptus macrorhyncha</i>	5	0680431 6100083	-	100
116	<i>Eucalyptus macrorhyncha</i>	4	0680392 6100032	European Honey Bee*	92
117	<i>Eucalyptus melliodora</i>	7	0680317 6100042	Common Starling*	113
118	<i>Eucalyptus macrorhyncha</i>	4	0680456 6100124	-	121
119	<i>Eucalyptus macrorhyncha</i>	2	0680506 6100192	-	97
120	dead tree	7	0680573 6100199	-	78
121	dead tree	5	0681045 6100543	Australian Wood Duck	100
122	<i>Eucalyptus blakelyi</i>	6	0681163 6100603	Sulph.-crest. Cockatoo, Honey Bee*	129
123	<i>Eucalyptus blakelyi</i>	8	0681192 6100388	Tree Martin	113
124	<i>Eucalyptus blakelyi</i>	5	0681234 6100216	Honey Bee*, Common Starling*	80
125	<i>Eucalyptus blakelyi</i>	4	0681272 6100186	-	86
126	<i>Eucalyptus blakelyi</i>	3	0681305 6100167	-	88
127	<i>Eucalyptus blakelyi</i>	7	0681371 6100254	Honey Bee*, Common Starling*	90
128	<i>Eucalyptus blakelyi</i>	6	0681685 6100333	European Honey Bee*	108
129	<i>Eucalyptus blakelyi</i>	4	0681724 6100328	European Honey Bee* (swarm)	134
130	<i>Eucalyptus blakelyi</i>	1	0681434 6100165	-	103
131	<i>Eucalyptus blakelyi</i>	7	0681410 6100125	-	70
132	<i>Eucalyptus blakelyi</i>	2	0681343 6100133	Sulphur-crested Cockatoo	132
133	<i>Eucalyptus blakelyi</i>	1	0681351 6100122	stick nest	72
134	<i>Eucalyptus melliodora</i>	4	0681364 6100059	-	168

No.	Tree Species	Hollows	GPS ¹	Hollow use	dch (cm)
135	<i>Eucalyptus blakelyi</i>	7	0681311 6099996	-	135
136	<i>Eucalyptus blakelyi</i>	1	0681553 6100018	-	115
137	<i>Eucalyptus blakelyi</i>	6	0681496 6099987	-	127
138	<i>Eucalyptus blakelyi</i>	12	06816056099854	-	134
139	<i>Eucalyptus blakelyi</i>	4	0681604 6099750	-	150
140	<i>Eucalyptus blakelyi</i>	4	0681576 6099723	-	147
141	<i>Eucalyptus blakelyi</i>	4	0681585 6099677	-	152
142	<i>Eucalyptus blakelyi</i>	1	0681549 6099625	-	92
143	<i>Eucalyptus blakelyi</i>	6	0680256 6100586	-	85
144	<i>Eucalyptus blakelyi</i>	7	0680194 6100523	-	124
145	<i>Eucalyptus blakelyi</i>	6	0681183 6099361	-	99
146	<i>Eucalyptus blakelyi</i>	10	0681189 6099344	-	135
147	<i>Eucalyptus blakelyi</i>	6	0681178 6099302	European Honey Bee*	96
148	<i>Eucalyptus blakelyi</i>	4	0681158 6099318	European Honey Bee*	94
149	<i>Eucalyptus blakelyi</i>	7	0681129 6099301	-	106
150	<i>Eucalyptus blakelyi</i>	7	0681098 6099233	Brushtail Possum (dung)	103
151	<i>Eucalyptus blakelyi</i>	4	0681129 6099193	-	138
152	<i>Eucalyptus blakelyi</i>	4	0681007 6099161	European Honey Bee*	105
153	<i>Eucalyptus melliodora</i>	5	0680944 6099159	-	87
154	<i>Eucalyptus blakelyi</i>	6	0680937 6099201	Eastern Rosella, Honey Bee*	119
155	<i>Eucalyptus blakelyi</i>	2	0680942 6099204	-	77
156	<i>Eucalyptus melliodora</i>	7	0680953 6099225	Tree Martin	160
157	<i>Eucalyptus blakelyi</i>	4	0680914 6099293	Red-rumped Parrot	162
158	<i>Eucalyptus melliodora</i>	5	0680897 6099290	-	121
159	<i>Eucalyptus blakelyi</i>	2	0680984 6099316	European Honey Bee*	120
160	<i>Eucalyptus blakelyi</i>	2	0681012 6099288	-	110
161	<i>Eucalyptus blakelyi</i>	7	0681053 6099314	-	134
162	<i>Eucalyptus blakelyi</i>	1	0681104 6099346	-	117
163	<i>Eucalyptus blakelyi</i>	11	0681112 6099355	Striated Pardalote, Honey Bee*	141
164	<i>Eucalyptus blakelyi</i>	3	0681051 6099040	European Honey Bee*	134
165	<i>Eucalyptus blakelyi</i>	2	0681047 6098989	Tree Martin	110
166	<i>Eucalyptus blakelyi</i>	1	0681003 6099007	-	87
167	<i>Eucalyptus blakelyi</i>	6	0681007 6099016	-	96
168	<i>Eucalyptus blakelyi</i>	1	0681000 6099050	-	115
169	<i>Eucalyptus macrorhyncha</i>	7	0678913 6102566	-	97
170	<i>Eucalyptus melliodora</i>	4	0678485 6102704	-	166
171	<i>Eucalyptus macrorhyncha</i>	3	0678452 6102644	-	82
172	<i>Eucalyptus bridgesiana</i>	4	0678311 6102323	Sulphur-crested cockatoo	160
173	<i>Eucalyptus macrorhyncha</i>	4	0678350 6102300	-	72
174	<i>Eucalyptus macrorhyncha</i>	1	0678306 6102307	-	88
175	<i>Eucalyptus blakelyi</i>	4	0677662 6103051	-	157
176	<i>Eucalyptus macrorhyncha</i>	4	0677539 6102833	-	84
177	<i>Eucalyptus blakelyi</i>	2	0677517 6102925	-	130
178	dead tree	5	0677372 6102927	-	51
179	dead tree	4	0677371 6102922	-	71
180	<i>Eucalyptus blakelyi</i>	2	0678371 6102818	-	84

No.	Tree Species	Hollows	GPS ¹	Hollow use	dch (cm)
181	<i>Eucalyptus rossii</i>	1	0678395 6102749	-	110
182	<i>Eucalyptus blakelyi</i>	1	0678368 6102733	-	58
183	<i>Eucalyptus bridgesiana</i>	4	0678218 6102704	-	142
184	<i>Eucalyptus blakelyi</i>	1	0682104 6099595	-	93.62
185	<i>Eucalyptus blakelyi</i>	2	0682106 6099555	-	80,66,49
186	<i>Eucalyptus blakelyi</i>	1	0682102 6099540	-	120
187	<i>Eucalyptus blakelyi</i>	1	0681946 6099462	-	168
188	<i>Eucalyptus blakelyi</i>	3	0681917 6099303	-	110
189	<i>Eucalyptus blakelyi</i>	1	0681756 6099394	-	115
190	<i>Eucalyptus blakelyi</i>	4	0681860 6099520	-	73
191	<i>Eucalyptus blakelyi</i>	4	0681676 6099521	Galah	90
192	<i>Eucalyptus blakelyi</i>	1	0681708 6099632	-	116
193	<i>Eucalyptus blakelyi</i>	2	0681226 6099095	-	84
194	<i>Eucalyptus blakelyi</i>	5	0681200 6099178	tree nearly dead	80
195	<i>Eucalyptus blakelyi</i>	6	0681245 6099249	-	92
196	<i>Eucalyptus blakelyi</i>	3	0681246 6099235	-	104
197	<i>Eucalyptus blakelyi</i>	4	0681256 6099207	Galah; tree nearly dead	110
198	<i>Eucalyptus rossii</i>	3	0681423 6099033	-	100
199	dead tree	6	0681481 6099148	-	92
200	<i>Eucalyptus blakelyi</i>	1	0681482 6099160		123
201	<i>Eucalyptus blakelyi</i>	2	0681469 6099117	-	80
202	<i>Eucalyptus blakelyi</i>	4	0681551 6099288	Galah, Brush-tailed possum	180
203	<i>Eucalyptus blakelyi</i>	8	0681731 6099223	-	125
204	<i>Eucalyptus rossii</i>	2	0681693 6098933	-	135
205	<i>Eucalyptus macrorhyncha</i>	3	0681701 6098821	-	127
206	dead tree	5	0681430 6098834	-	50,78
207	<i>Eucalyptus blakelyi</i>	5	0681262 6099045	Honey bees	133
208	<i>Eucalyptus macrorhyncha</i>	1	0681180 6099077	-	81
209	<i>Eucalyptus blakelyi</i>	3	0681175 6099098	-	93
210	<i>Eucalyptus blakelyi</i>	3	0681236 6099027	roosting frogmouth (2)	125
211	<i>Eucalyptus blakelyi</i>	4	0681254 6098977	-	105
212	<i>Eucalyptus macrorhyncha</i>	2	0681344 6098909	-	97
213	<i>Eucalyptus rossii</i>	4	0681347 6098726	-	12
214	<i>Eucalyptus melliodora</i>	5	0681313 6098636	-	146
215	<i>Eucalyptus rossii</i>	6	0681415 6098646	-	91
216	dead tree	3	0681423 6098672	Nankeen Kestrel (2)	58,55,96
217	dead tree	7	0681430 6098678	-	110
218	dead tree	2	0681427 6098690	-	74
219	<i>Eucalyptus blakelyi</i>	1	0681233 6098548	Honey bees	82,127
220	<i>Eucalyptus rossii</i>	5	0681057 6098434	-	115
221	dead tree	2	0681058 6098434	-	67
222	<i>Eucalyptus rossii</i>	3	0681062 6098422	-	153
223	dead tree	4	0680978 6098633	-	101
224	<i>Eucalyptus rossii</i>	4	0681032 6098651	-	71
225	<i>Eucalyptus blakelyi</i>	3	0680994 6098746	-	90
226	<i>Eucalyptus blakelyi</i>	4	0681011 6098736	-	105

No.	Tree Species	Hollows	GPS ¹	Hollow use	dch (cm)
227	dead tree	4	0681036 6098725	-	70
228	<i>Eucalyptus blakelyi</i>	4	0681040 6098734	-	20
229	<i>Eucalyptus blakelyi</i>	5	0681060 6098743	Honey bees	12
230	<i>Eucalyptus blakelyi</i>	2	0681057 6098739	-	80
231	dead tree	1	0681078 6098734	-	96
232	<i>Eucalyptus blakelyi</i>	4	0681148 6098721	-	91
233	<i>Eucalyptus blakelyi</i>	3	0681164 6098724	-	73
234	<i>Eucalyptus blakelyi</i>	6	0681186 6098722	-	142
235	<i>Eucalyptus macrorhyncha</i>	2	0681197 6098740	-	80
236	<i>Eucalyptus blakelyi</i>	4	0681190 6098789	-	97
237	<i>Eucalyptus melliodora</i>	4	0681133 6098806	-	105
238	<i>Eucalyptus melliodora</i>	3	0681096 6098888	-	84
239	<i>Eucalyptus blakelyi</i>	3	0681057 6098897	-	82
240	<i>Eucalyptus melliodora</i>	2	0681011 6098899	-	107
241	<i>Eucalyptus macrorhyncha</i>	2	0680998 6098947	tree nearly dead	102
242	<i>Eucalyptus blakelyi</i>	2	0680970 6098823	-	108
243	<i>Eucalyptus blakelyi</i>	3	0680949 6098805	-	118
244	<i>Eucalyptus macrorhyncha</i>	4	0681195 6098819	-	76
245	<i>Eucalyptus macrorhyncha</i>	2	0681200 6098821	-	72
246	<i>Eucalyptus macrorhyncha</i>	1	0681355 6098619	-	59

1. Grid system used is WGS84.

APPENDIX 5**BIRDS OF PREY RECORDED IN THE PROJECT AREA**

Species	Date	GPS Location
Australian Hobby	24.10.12	0679887 6101136
Black Kite	27.11.08	ACT land
Black-shouldered Kite	24.10.12 03.07.13	0680057 6101036 - (NSW)
Brown Falcon	12.02.13 02.09.13	0681270 6098690 0680321 6099849
Variable Goshawk	12.02.13 06.05.13 08.08.13 02.09.13	0679825 6101132 0678706 6101287 0678706 6101287 0680606 6100035
Collared Sparrowhawk	02.12.08	ACT land
Nankeen Kestrel	30.10.08 05.11.08 28.11.08 01.12.08 02.12.08 11.12.08 15.12.08 10.09.12 17.10.12 17.10.12 18.10.12 18.10.12 18.10.12 23.10.12 24.10.12 24.10.12 25.10.12 30.10.12 31.10.12 12.02.13 12.02.13 12.02.13 20.02.13 20.02.13 21.02.13 21.02.13 20.03.13	- - 0681259 6099794 (2) - - - - - 0680425 6100434 0680928 6099750 0680426 6099882 (2) 0681258 6099490 0681618 6099450 0680987 6100121 0680902 6099869 0681283 6099375 0680776 6099798 0680772 6099794 (2) 0679931 6101317 0681334 6099722 0680307 6100768 0681720 6099351 0679942 6101389 0680853 6099122 0678635 6102401 0679063 6102582 0681423 6098672 (2)

Species	Date	GPS Location
Nankeen Kestrel cont...	02.09.13	0681189 6098926
	09.09.13	0677615 6103177
Peregrine Falcon	11.12.08	-
	25.10.12	0681047 6098989
Spotted Harrier	12.02.13	0680591 6100315
	20.02.13	0678976 6102483
	29.04.13	0679740 6101063
Wedge-tailed Eagle	31.10.08	0680356 6100532
	01.12.08	-
	15.12.08	-
	21.02.13	0678635 6102401 (2)
	03.07.13	0677311 6102344
White-bellied Sea-Eagle	08.08.13	0678397 6101187

APPENDIX 6

LIST OF PLANT SPECIES FOR THE PROJECT AREA

Sinopteridaceae

Cheilanthes austrotenuifolia

Rock Fern

Gymnospermae (Conifers)

Cupressaceae

Callitris endlicheri

Black Cypress Pine

Pinaceae

**Pinus radiata*

Radiata Pine

Angiospermae (Flowering Plants)

Aceraceae

**Acer negundo*

Box Elder

Amaranthaceae

Alternanthera sp. A

Joyweed

**Amaranthus sp.*

Amaranth

Anthericaceae

Arthropodium fimbriatum

Nodding Chocolate Lily

Arthropodium milleflorum

Vanilla Lily

Tricoryne elatior

Yellow Rush-lily

Apiaceae

Daucus glochidiatus

Native Carrot

Hydrocotyle laxiflora

Stinking Pennywort

**Conium maculatum*

Hemlock

**Foeniculum vulgare*

Fennell

Asphodelaceae

Bulbine bulbosa

Bulbine Lily

Asteraceae

Calotis lappulacea

Yellow Burr-daisy

Calotis scabiosifolia

Rough Burr-daisy

Cassinia longifolia

Shiny Cassinia

Centipeda minima

Spreading Sneezeweed

Chrysocephalum apiculatum

Common Everlasting

Chrysocephalum semipapposum

Clustered Everlasting

Cotula australis
Cymbonotus preissianus
Euchiton gymnocephalus
Euchiton sphaericus
Helichrysum luteoalbum
Leptorhynchus squamatus
Senecio quadridentatus
Solenogyne dominii
Triptilodiscus pygmaeus
Vittadinia cuneata
Vittadinia gracilis
Vittadinia muelleri
**Arctotheca calendula*
**Aster subulatus*
**Carthamus lanatus*
**Chondrilla juncea*
**Cirsium vulgare*
**Conyza sp.*
**Gamochaeta americana*
**Gamochaeta calviceps*
**Hypochaeris glabra*
**Hypochaeris radicata*
**Lactuca serriola*
**Onopordium acanthium*
**Silybum marianum*
**Sonchus sp.*
**Taraxacum officinale*
**Tolpis umbellata*
**Tragopogon dubius*

Boraginaceae

**Echium plantagineum*
**Echium vulgare*
**Myosotis discolor*

Brassicaceae

Cynoglossum australe
**Capsella bursa-pastoris*
**Hirschfeldia incana*
**Lepidium sp.*
**Rorippa nasturtium-aquaticum*

Common Cotula
 Cymbonotus
 Creeping Cudweed
 Star Cudweed
 Jersey Cudweed
 Scaly Buttons
 Cotton Fireweed
 Smooth Solenogyne
 Austral Sunray
 Fuzzweed
 Woolly New Holland Daisy
 Narrow-leaf New Holland Daisy
 Capeweed
 Bushy Starwort
 Saffron Thistle
 Skeleton Weed
 Spear Thistle
 Fleabane
 American Cudweed
 Cudweed
 Smooth Flatweed
 Flatweed
 Prickly Lettuce
 Scotch Thistle
 Variegated Thistle
 Sow-thistle
 Dandelion
 Yellow Hawkweed
 Goat's Beard

Paterson's Curse
 Viper's Bugliss
 Forget-me-not

Austral Hound's Tongue
 Shepherd's Purse
 Hairy Brassica
 Peppergrass
 Watercress

Campanulaceae*Wahlenbergia communis**Wahlenbergia gracilis**Wahlenbergia luteola*

Tufted Bluebell

Australian Bluebell

Yellowish Bluebell

Caryophyllaceae*Cerastium glomeratum***Paronychia brasiliensis***Petrorhagia nanteuillii*

Mouse-ear Chickweed

Chilean Whitlow Wort

Proliferous Pink

Casuarinaceae*Casuarina cunninghamiana*

River Oak

Chenopodiaceae*Chenopodium pumilio**Einadia nutans***Chenopodium album*

Clammy Goosefoot

Nodding Saltbush

Fat Hen

Colchicaceae*Wurmbea dioica*

Early Nancy

Convolvulaceae*Convolvulus erubescens*

Australian Bindweed

Crassulaceae*Crassula sieberiana*

Stonecrop

Cyperaceae*Carex appressa**Carex inversa**Luzula densiflora**Schoenus apogon**Schoenoplectus validus***Cyperus eragrostis*

Tall Sedge

Knob Sedge

Woodrush

Common Bog-rush

River Club-rush

Umbrella Sedge

Dilleniaceae*Hibbertia obtusifolia*

Grey Guinea Flower

Droseraceae*Drosera peltata*

Pale Sundew

Ericaceae*Astroloma humifusum*

Cranberry Heath

Brachyloma daphnoides
Leucopogon attenuatus
Melichrus urceolatus

Daphne Heath
Grey Beard-heath
Urn Heath

Fabaceae

Faboideae (subfamily)

Desmodium varians
Dillwynia sericea
Glycine clandestina
Glycine tabacina
Indigofera australis
Pultenaea cunninghamii
**Trifolium arvense*
**Trifolium angustifolium*
**Trifolium campestre*
**Trifolium glomeratum*
**Trifolium repens*
**Trifolium subterraneum*

Slender Tick-trefoil
Showy Parrot Pea
Twining Glycine
Vanilla Glycine
Austral Indigo
Bush Pea
Haresfoot Clover
Narrow-leaf Clover
Hop Clover
Clustered Clover
White Clover
Subterranean Clover

Mimosoideae (subfamily)

Acacia dealbata
Acacia implexa
Acacia rubida
**Acacia baileyana*

Silver Wattle
Hickory Wattle
Red-leaved Wattle
Cootamundra Wattle

Gentianaceae

**Centaurium erythraea*

Common Centaury

Geraniaceae

Geranium solanderi
**Erodium cicutarium*

Native Geranium
Common Stork's-bill

Goodeniaceae

Goodenia hederacea

Ivy Goodenia

Haloragaceae

Gonocarpus tetragynus
Haloragis heterophylla

Poverty Raspwort
Swamp Raspwort

Hypericaceae

Hypericum gramineum
**Hypericum perforatum*

Small St John's Wort
St John's Wort

Iridaceae

**Romulea rosea*

Onion Grass

Juncaceae

Juncus australis

Austral Rush

Juncus usitatus

Common Rush

**Juncus effusus*

Soft Rush

Lamiaceae

Scutellaria humilis

Dwarf Skullcap

**Marrubium vulgare*

Horehound

**Salvia verbenaca*

Wild Sage

Lauraceae

Cassytha pubescens

Downy Dodder-laurel

Lomandraceae

Lomandra filiformis

Wattle Mat-rush

Lomandra longifolia

Spiny-headed Mat-rush

Lomandra multiflora

Many-flowered Mat-rush

Loranthaceae

Amyema cambagei

Mistletoe

Lythraceae

Lythrum hyssopifolia

Hyssop Loosestrife

Malvaceae

**Malva neglecta*

Dwarf Mallow

**Modiola caroliniana*

Red-flowered Mallow

Myrtaceae

Eucalyptus blakelyi

Blakely's Red Gum

Eucalyptus dives

Broad-leaved Peppermint

Eucalyptus macrorhyncha

Red Stringybark

Eucalyptus melliodora

Yellow Box

Eucalyptus pauciflora

Snow Gum

Eucalyptus rossii

Inland Scribbly Gum

Kunzea ericoides

Burgan

Leptospermum multicaule

Tea Teee

Onagraceae

Epilobium billardierianum

Willowherb

Orchidaceae*Microtus* sp.

Onion Orchid

Orobanchaceae**Orobanche minor*

Lesser Broomrape

Oxalidaceae*Oxalis perennans*

Grassland Wood Sorrel

Oxalis radicata

Wood Sorrel

Papaveraceae**Eschscholzia californica*

Californian Poppy

Phormiaceae*Stypandra glauca*

Nodding Blue Lily

Pittosporaceae*Bursaria lasiophylla*

Blackthorn

Plantaginaceae*Plantago varia*

Variable Plantain

**Plantago lanceolata*

Ribbed Plantain

Poaceae*Agrostis avenacea*

Blown Grass

Aristida ramosa

Three-awned Speargrass

Austrodanthonia racemosa

Wallaby Grass

Austrodanthonia carphoides

Short Wallaby Grass

Austrostipa bigeniculata

Tall Speargrass

Austrostipa densiflora

Brushtail Speargrass

Austrostipa scabra

Corkscrew

Bothriochloa macra

Red-leg Grass

Cynodon dactylon

Couch Grass

Dichelachne micrantha

Short-hair Plume-grass

Elymus scaber

Wheatgrass

Enneapogon nigricans

Nineawn Grass

Eragrostis sp.

Love-grass

Microlaena stipoides

Weeping Grass

Panicum effusum

Hairy Panic

Poa labillardieri

River Tussock

Poa sieberiana

Poa Tussock

Sporobolus creber

Slender Rats-tail Grass

Themeda australis

Kangaroo Grass

* <i>Aira elegantissima</i>	Delicate Hairgrass
* <i>Avena</i> sp.	Oats
* <i>Briza maxima</i>	Large Quaking Grass
* <i>Briza minor</i>	Lesser Quaking Grass
* <i>Bromus cartharticus</i>	Prairie Grass
* <i>Bromus diandrus</i>	Great Brome
* <i>Bromus hordeaceus</i>	Soft Brome
* <i>Dactylis glomerata</i>	Cocksfoot
* <i>Eleusine tristachya</i>	Goose Grass
* <i>Eragrostis curvula</i>	African Lovegrass
* <i>Festuca arundinacea</i>	Tall Fescue
* <i>Holcus lanatus</i>	Yorkshire Fog
* <i>Hordeum</i> sp.	Barley Grasses
* <i>Lolium</i> sp.	Ryegrass
* <i>Nassella trichotoma</i>	Serrated Tussock
* <i>Paspalum dilatatum</i>	Paspalum
* <i>Phalaris aquatica</i>	Phalaris
* <i>Vulpia</i> sp.	Fescue

Polygonaceae

<i>Persicaria decipiens</i>	Slender Knotweed
<i>Rumex brownii</i>	Swamp Dock
* <i>Acetosella vulgaris</i>	Sheep Sorrel
* <i>Polygonum aviculare</i>	Wireweed
* <i>Rumex crispis</i>	Curled Dock

Portulacaceae

<i>Portulaca oleracea</i>	Purslane
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Primulaceae

* <i>Anagallis arvensis</i>	Blue Pimpernel
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Ranunculaceae

<i>Clematis microphylla</i>	Small-leaved Clematis
<i>Ranunculus lappaceus</i>	Common Buttercup

Rosaceae

<i>Acaena ovina</i>	Sheep's Burr
<i>Rubus parvifolius</i>	Native Raspberry
* <i>Crataegus monogyna</i>	Hawthorn
* <i>Pyracantha</i> sp.	Fire Thorn
* <i>Rosa rubiginosa</i>	Sweet Briar
* <i>Rubus fruticosus</i> sp. agg.	Black berry

Rubiaceae*Asperula conferta***Galium aparine***Sherardia arvensis*

Common Woodruff

Cleavers

Field Madder

Salicaceae**Salix babylonica***Salix sp.*

Weeping Willow

Willow

Scrophulariaceae**Linaria pelisserana***Verbascum thapsus***Veronica anagallis-aquatica*

Pelisser's Toadflax

Great Mullein

Blue Speedwell

Stackhousiaceae*Stackhousia monogyna*

Creamy Stackhousia

Sterculiaceae*Brachychiton populneus*

Kurrajong

Thymelaeaceae*Pimelea curviflora*

Curved Rice-flower

Typhaceae*Typha orientalis*

Cumbungi