

Species	Latin Name	EPBC Act Legal Status	Records Since 1988			
			Easting	Northing	Date	Location
			37°17'45"	142°58'21"	11-Apr-01	Green Hill Lake, Ararat 3 km E of Ararat
			37°32'42"	143°55'41"	13-Aug-01	Hillview Road, Nerrina
			37°32'53"	143°49'24"	28-Aug-01	Lake Wendouree, Ballarat
			37°23'47"	143°54'04"	1-Sep-01	Creswick Road, Broomfield
			37°58'54"	143°16'11"	27-Feb-02	Lake Tooliorook
			37°30'10"	143°38'43"	28-Feb-02	Lake Burumbeet
			37°23'22"	143°44'54"	1-Mar-02	Lake Burumbeet
			37°33'06"	143°50'07"	2-Mar-03	Lake Wendouree
			37°33'06"	143°50'07"	23-Feb-04	Lake Wendouree
			37°32'51"	143°50'25"	26-Feb-06	Lake Wendouree
Latham's Snipe	<i>Gallinago hardwickii</i>	Migratory Species	37°26'54"	143°37'22"	13-Feb-88	Cockpit Lag
			37°35'43"	142°56'16"	14-Feb-88	2 km NW of Minerna
			37°36'06"	143°02'39"	15-Sep-88	Runway Swamp Road
			37°45'06"	143°07'12"	15-Sep-88	Lake Oundell
			37°14'43"	143°47'14"	28-Jan-89	N of Clunes
			37°32'26"	143°48'26"	5-Feb-89	4 km NE of Ballarat
			37°26'54"	143°37'22"	11-Feb-89	Cockpit Lag
			37°52'28"	143°10'00"	5-Nov-89	Vite Vite Railway Siding
			37°32'51"	143°21'42"	26-Sep-90	2 km S of Lake Goldsmith
			37°51'33"	143°29'02"	29-Nov-91	8 km S of Skipton
			37°17'03"	143°47'07"	19-Nov-92	Clunes Tip
			37°25'05"	143°54'27"	19-Nov-92	Creswick
			37°33'11"	143°27'30"	10-Dec-92	Mena Park
			37°44'16"	143°02'07"	11-Jan-93	Lake Jollicum
			37°44'34"	143°01'50"	11-Jan-93	Nerrin Deep Swamp
37°14'43"	143°47'14"	15-Oct-97	North of Clunes			
37°32'18"	143°47'00"	24-Oct-99	Winter Swamp, Ballarat - Burrumbeet Road			

Species	Latin Name	EPBC Act Legal Status	Records Since 1988			
			Easting	Northing	Date	Location
						5 km W
			37°47'05"	143°27'45"	25-Oct-99	Parker and Lismore Pittong Road
			37°26'30"	143°23'00"	20-Jan-00	Beaufort Caravan Park 3 km S of Beaufort
			37°32'53"	143°49'24"	26-Jan-00	Lake Wendouree, NW shore
			37°23'47"	143°54'04"	1-Sep-00	Creswick Road, Broomfield
			37°32'50"	143°49'20"	17-Nov-00	Lake Wendouree, Ballarat 2 km W of Ballarat
			37°23'47"	143°54'04"	1-Dec-00	Creswick Road, Broomfield
			37°32'42"	143°55'41"	13-Dec-00	Hillview Road, Nerrina
			37°32'42"	143°55'41"	13-Jan-01	Hillview Road, Nerrina
			37°44'09"	142°52'47"	16-Nov-01	Lake Bolac & Fiery Creek Junction
			37°33'06"	143°50'07"	23-Feb-04	Lake Wendouree
			37°38'41"	143°15'25"	14-Dec-05	Mooramong, Sipton
			37°32'51"	143°50'25"	26-Feb-06	Lake Wendouree

## Appendix 12: Bird Activity at Lake Goldsmith

Species	Number of Times Recorded	Minimum	Maximum	Average	Migrant Species	Protected Species
Eurasian Coot	32	94	5650	1914		
Grey Teal	41	4	12400	1405		
Black Swan	44	6	3155	1240		
Australian Shelduck	46	2	5532	467		
Pink-eared Duck	25	2	2235	403		
Pacific Black Duck	30	2	5836	357		
Banded Stilt	1	N/a	300	300		
Red-capped Plover	4	N/a	218	218		
Australasian Shoveler	34	1	1920	154		DSE (v)
Chestnut Teal	5	1	580	140		
Black-winged Stilt	11	1	158	89		
Silver Gull	17	4	226	67		
Masked Lapwing	15	4	230	58		
White-fronted Chat	2	28	76	52		
Freckled Duck	2	47	50	49		FFG, DSE (e)
Hardhead	11	1	270	41		DSE (v)
Hoary-headed Grebe	12	8	107	40		
Gull-billed Tern	3	15	80	37	Partial summer migrant	FFG, DSE (e)

Species	Number of Times Recorded	Minimum	Maximum	Average	Migrant Species	Protected Species
Red-necked Avocet	1	N/a	36	36	Yes	
Australian Spotted Crake	2	N/a	25	25		
Sharp-tailed Sandpiper	4	5	25	15	Yes	FFG
Australasian Grebe	11	1	25	13		
Swamp Harrier	4	1	35	13		
Curlew Sandpiper	1	N/a	10	10	Yes	
White-faced Heron	8	1	20	8		
Australian Pelican	4	1	9	5		
Domestic duck	1	N/a	5	5		
Brolga	5	2	4	3		FFG, DSE (v)
Domestic Goose	5	1	5	3		
Straw-necked Ibis	3	N/a	3	3		
Australian Wood Duck	1	N/a	2	2		
Greenshank	2	1	3	2	Yes	
Great Crested Grebe	1	N/a	1	1		
Australian White Ibis	2	N/a	+	+		
Red-necked Stint	2	N/a	+	+	Yes	
Whiskered Tern	3	N/a	+	+		DSE (nt)

**Notes:** X = migrant species, FFG = Listed under the FFG Act, DSE = Department of Sustainability and Environment Threatened Species Advisory List, v = Vulnerable, nt = Near Threatened, e = Endangered, + = Species recorded as present though no exact count available, N/a = Not applicable

## Appendix 13: Bird Activity at Black Lake

Species	Number of Times Recorded	Minimum	Maximum	Average	Migrant Species	Protected Species
Pink-eared Duck	1	N/a	127	127		
Grey Teal	3	14	30	24		
Australian Shelduck	3	2	44	23		
Pacific Black Duck	1	N/a	16	16		
Hoary-headed Grebe	2	9	14	12		
Australasian Grebe	1	N/a	8	8		
Australasian Shoveler	1	N/a	7	7		DSE (V)
Black Swan	3	2	2	2		
Masked Lapwing	1	N/a	2	2		
White-faced Heron	1	N/a	1	1		

**Notes:** X = migrant species, FFG = Listed under the FFG Act, DSE = Department of Sustainability and Environment Threatened Species Advisory List, V = Vulnerable, NT = Near Threatened, E = Endangered, + = Species recorded as present though no exact count available, N/a = Not applicable

**Appendix 14: Bird Activity at Buln Gherin Meadow**

Species	Number of Times Recorded	Minimum	Maximum	Average	Protected Species
Whiskered Tern	1	N/a	50	50	DSE (nt)
Gull-billed Tern	1	N/a	3	3	FFG, DSE (e)
Yellow-billed Spoonbill	2	N/a	2	2	
Brolga	8	N/a	1	1	FFG, DSE (v)
Swamp Harrier	1	N/a	1	1	
Australian Shelduck	1	N/a	+	+	
Black Swan	2	N/a	+	+	
Black-winged Stilt	1	N/a	+	+	
Masked Lapwing	1	N/a	+	+	
Purple Swamphen	1	N/a	+	+	
Silver Gull	1	N/a	+	+	
Straw-necked Ibis	2	N/a	+	+	
White-faced Heron	2	N/a	+	+	

**Notes:** X = migrant species, FFG = Listed under the FFG Act, DSE = Department of Sustainability and Environment Threatened Species Advisory List, v = Vulnerable, nt = Near Threatened, e = Endangered, + = Species recorded as present though no exact count available, N/a = Not applicable

**Appendix 15: Bird Activity at Slater Lake**

Species	Number of Times Recorded	Minimum	Maximum	Average	Protected Species
Australian Shelduck	4	5	450	124	
Masked Lapwing	2	30	200	115	
Australian Wood Duck	3	26	70	46	
White-faced Heron	1		27	27	
Eurasian Coot	2	3	40	22	
Pacific Black Duck	1		22	22	
Grey Teal	3	2	42	16	
Australasian Shoveler	1		4	4	DSE (v)
Black Swan	1		3	3	
Brolga	1		3	3	FFG, DSE (v)
Hoary-headed Grebe	1		3	3	
Little Pied Cormorant	1		1	1	
Great Cormorant	1		+	+	

**Notes:** X = migrant species, **FFG** = Listed under the *FFG Act*, **DSE** = Department of Sustainability and Environment Threatened Species Advisory List, **v**= Vulnerable.

**Appendix 16: Times of Day When Points Were Counted During Each Survey Day**

Time Reference	Start Time	Day						
		1	2	3	4	5	6	7
T1	8:00	P1	P7	P2	P8	P3	P9	P4
T2	8:35	P2	P8	P3	P9	P4	P10	P5
T3	9:10	P3	P9	P4	P10	P5	R1	P6
T4	9:45	P4	P10	P5	R1	P6	R2	P7
T5	10:20	P5	R1	P6	R2	P7	P1	P8
T6	10:55	P6	R2	P7	P1	P8	P2	P9
T7	11:30	P7	P1	P8	P2	P9	P3	P10
T8	12:05	P8	P2	P9	P3	P10	P4	R1
T9	12:40	P9	P3	P10	P4	R1	P5	R2
T10	13:15	P10	P4	R1	P5	R2	P6	P1
T11	13:45	R1	P5	R2	P6	P1	P7	P2
T12	14:20	R2	P6	P1	P7	P2	P8	P3
T13	14:55	P1	P7	P2	P8	P3	P9	
T14	15:30	P2	P8	P3	P9	P4	P10	
T15	16:05	P3	P9	P4	P10	P5	R1	
T16	16:40	P4	P10	P5	R1	P6	R2	
T17	17:15	P5	R1	P6	R2	P7	P1	
T18	17:50	P6	R2	P7	P1	P8	P2	

**Appendix 17: Number of Birds and their Height Distribution**

**A. Impact Sites**

Species	P1			P2			P3			P4			P5			P6			P7			P8			P9			P10			Total			P. Tot.	P. %
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C					
Australian Magpie	71	0	0	73	0	0	85	4	0	85	2	0	60	0	0	112	0	0	62	0	0	61	0	0	98	0	0	102	0	0	809	6	0	815	18.5
Yellow-rumped Thornbill	58	0	0	69	0	0	38	0	0	45	0	0	32	0	0	59	0	0	63	0	0	84	0	0	96	0	0	55	0	0	599	0	0	599	13.6
Raven spp.	25	0	0	34	4	0	88	6	0	38	4	0	50	5	0	72	10	0	16	0	0	20	8	0	54	9	0	27	6	0	424	52	0	476	10.8
European Goldfinch	0	0	0	21	0	0	6	0	0	33	0	0	69	0	0	61	0	0	116	0	0	36	0	0	30	0	0	28	0	0	400	0	0	400	9.1
Superb Fairywren	42	0	0	73	0	0	0	0	0	43	0	0	3	0	0	0	0	0	7	0	0	23	0	0	26	0	0	29	0	0	246	0	0	246	5.6
Common Starling	0	0	0	2	0	0	36	0	0	0	0	0	0	0	0	48	8	0	0	0	0	20	0	0	10	0	0	56	10	0	172	18	0	190	4.3
Magpie-lark	2	0	0	0	0	0	23	0	0	4	0	0	17	0	0	25	0	0	3	0	0	22	0	0	14	0	0	24	0	0	134	0	0	134	3.0
Galah	38	7	0	0	0	0	0	0	0	0	0	0	0	0	0	57	6	0	8	0	0	2	0	0	2	0	0	10	0	0	117	13	0	130	2.9
Red-rumped Parrot	0	0	0	0	0	0	8	0	0	0	0	0	2	0	0	112	6	0	0	0	0	0	0	0	0	0	2	0	0	124	6	0	130	2.9	

Species	P1			P2			P3			P4			P5			P6			P7			P8			P9			P10			Total			Tot. G.	P. E %
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C					
Crimson Rosella	25	0	0	42	0	0	2	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	8	0	0	91	0	0	91	2.1	
Sulphur-crested Cockatoo	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	2.0	
House Sparrow	0	0	0	0	0	0	59	0	0	0	0	0	4	0	0	6	0	0	0	0	0	0	4	6	0	0	10	0	0	89	0	0	89	2.0	
Willie Wagtail	1	0	0	4	0	0	25	0	0	0	0	0	7	0	0	14	0	0	1	0	0	8	10	10	0	0	17	0	0	87	0	0	87	2.0	
Long-billed Corella	36	0	0	12	20	0	0	0	2	0	0	2	2	2	4	2	4	0	2	0	0	0	0	0	0	0	0	0	0	56	26	0	82	1.9	
Red Wattlebird	6	2	0	2	0	0	10	4	0	2	0	12	0	0	3	0	0	13	0	0	6	12	0	12	0	0	10	0	0	76	6	0	82	1.9	
Australasian Pipit	0	0	0	0	0	0	25	0	0	0	0	10	0	0	10	0	0	0	0	0	10	0	0	0	0	6	0	0	61	0	0	61	1.4		
Yellow-faced Honeyeater	36	0	0	8	0	0	10	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	60	0	0	60	1.4		
Yellow-tailed Black-Cockatoo	0	0	0	25	15	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	15	0	48	1.1			
White-plumed Honeyeater	18	0	0	2	0	0	2	0	0	4	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	47	0	0	47	1.1		
Brown Thornbill	22	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	6	0	0	41	0	0	41	0.9	



Species	P1			P2			P3			P4			P5			P6			P7			P8			P9			P10			Total			Tot. G.	p. %
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C					
Eastern Rosella	0	0	0	0	0	0	0	0	0	2	5	0	3	0	0	2	0	0	0	0	0	0	0	0	12	0	0	16	0	0	35	5	0	40	0.9
Brown-headed Honeyeater	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	38	0.9
Crested Pigeon	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	0	0	0	2	0	0	0	0	0	9	0	0	11	0	0	35	0	0	35	0.8
Eurasian Skylark	0	0	0	0	0	0	8	0	0	0	0	0	15	1	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	33	1	0	34	0.8
Striated Thornbill	26	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	34	0	0	34	0.8
Grey Fantail	13	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	29	0.7
Welcome Swallow	0	0	0	0	0	0	16	0	0	0	0	0	3	0	0	4	0	0	0	0	0	0	0	0	6	0	0	0	0	0	29	0	0	29	0.7
Brown Falcon	0	0	0	0	0	0	7	0	0	1	0	0	1	0	0	6	1	0	2	0	0	0	0	0	1	1	0	5	1	0	25	3	0	28	0.6
Australian Wood Duck	0	0	0	0	0	0	22	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	26	0.6
White-fronted Chat	0	0	0	0	0	0	14	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	20	0.5
Grey Shrike-thrush	3	0	0	9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	15	0	0	15	0.3



Species	P1			P2			P3			P4			P5			P6			P7			P8			P9			P10			Total			Tot. G.	p. %
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C					
Singing Bushlark	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	0.3
White-eared Honeyeater	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	0.3
White-throated Treecreeper	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	0.3
Common Bronzewing	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	1	0	0	13	0	0	13	0.3
White-winged Chough	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12	0.3
Wedge-tailed eagle	0	0	0	2	2	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	3	8	0	11	0.2
Blue-winged Parrot	0	0	0	0	0	0	0	0	0	2	0	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2	0	10	0.2
Tree Martin	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0.2
Varied Sittella	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0.2
Common Blackbird	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	8	0	0	8	0.2
Nankeen Kestrel	0	0	0	0	0	0	2	1	0	2	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	6	2	0	8	0.2

Species	P1			P2			P3			P4			P5			P6			P7			P8			P9			P10			Total			G. Tot.	p. %
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C					
Pacific Black Duck	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0.2
Australian Shelduck	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	6	0	0	6	0.1
Brown Songlark	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0.1
White-browed Scrubwren	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0.1
White-faced Heron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	2	0	0	4	2	0	6	0.1
Chestnut Teal	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0.1
Laughing Kookaburra	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0.1
Musk Lorikeet	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0.1
Red-browed Finch	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0.1
Silvereye	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0.1
Golden-headed Cisticola	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0.0

Species	P1			P2			P3			P4			P5			P6			P7			P8			P9			P10			Total			G. Tot.	% IM
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C					
Grey Currawong	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0.0
Restless Flycatcher	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0.0
Scarlet Robin	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0.0
Black-faced Cuckoo-shrike	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.0
Peregrine Falcon	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.0
Swamp Harrier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0.0
<b>Total</b>	<b>616</b>	<b>9</b>	<b>0</b>	<b>418</b>	<b>41</b>	<b>0</b>	<b>527</b>	<b>18</b>	<b>0</b>	<b>292</b>	<b>11</b>	<b>0</b>	<b>345</b>	<b>10</b>	<b>0</b>	<b>594</b>	<b>36</b>	<b>0</b>	<b>298</b>	<b>4</b>	<b>0</b>	<b>316</b>	<b>8</b>	<b>0</b>	<b>403</b>	<b>12</b>	<b>0</b>	<b>439</b>	<b>17</b>	<b>0</b>	<b>4248</b>	<b>166</b>	<b>0</b>	<b>4414</b>	<b>100.0</b>

Notes: A =below rotor swept area (RSA) height (40 m); B = at RSA height (40-120 m); C = above RSA height (>120 m).

**B. Reference Sites**

Species	R1			R2			R1			Grand Total	% Imp.
	A	B	C	A	B	C	A	B	C		
Australian Magpie	54	2	0	43	0	0	97	2	0	99	17.8
European Goldfinch	12	0	0	87	0	0	99	0	0	99	17.8
Raven spp.	30	4	0	40	18	0	70	22	0	92	16.6
Yellow-rumped Thornbill	25	0	0	45	0	0	70	0	0	70	12.6
Common Starling	0	8	0	32	0	0	32	8	0	40	7.2
Willie Wagtail	8	0	0	12	0	0	20	0	0	20	3.6
Welcome Swallow	12	2	0	4	0	0	16	2	0	18	3.2
Magpie-lark	8	0	0	8	0	0	16	0	0	16	2.9
Australasian Pipit	8	0	0	4	0	0	12	0	0	12	2.2
Red-rumped Parrot	12	0	0	0	0	0	12	0	0	12	2.2
Skylark	8	0	0	4	0	0	12	0	0	12	2.2
House Sparrow	0	0	0	10	0	0	10	0	0	10	1.8
Brown Songlark	8	0	0	0	0	0	8	0	0	8	1.4
White-plumed Honeyeater	8	0	0	0	0	0	8	0	0	8	1.4
Brown Falcon	2	0	0	3	2	0	5	2	0	7	1.3
Brown-headed Honeyeater	6	0	0	0	0	0	6	0	0	6	1.1
Striated Thornbill	0	0	0	6	0	0	6	0	0	6	1.1
Common Blackbird	5	0	0	0	0	0	5	0	0	5	0.9
Crested Pigeon	0	0	0	4	0	0	4	0	0	4	0.7
Whistling Kite	0	0	0	2	1	0	2	1	0	3	0.5
Crimson Rosella	2	0	0	0	0	0	2	0	0	2	0.4
Grey Fantail	0	0	0	2	0	0	2	0	0	2	0.4
Red Wattlebird	0	0	0	2	0	0	2	0	0	2	0.4
Nankeen Kestrel	0	0	0	1	0	0	1	0	0	1	0.2
Peregrine Falcon	0	0	0	0	1	0	0	1	0	1	0.2
<b>Total</b>	<b>208</b>	<b>16</b>	<b>0</b>	<b>309</b>	<b>22</b>	<b>0</b>	<b>517</b>	<b>38</b>	<b>0</b>	<b>555</b>	<b>100.0</b>

**Notes:** A =below rotor swept area (RSA) height (40 m); B = at RSA height (40-120 m); C = above RSA height (>120 m).

## Appendix 18: Birds Flying at RSA Height on the Wind Farm Site

Species	P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10	Total birds at RSA height	Birds at all heights	% RSA birds	% of total RSA birds	% RSA birds of all birds at all heights
	B	B	B	B	B	B	B	B	B	B					
Raven spp.	0	4	6	4	5	10	0	8	9	6	52	476	10.9	31.3	1.2
Long-billed Corella	0	20	0	0	2	4	0	0	0	0	26	82	31.7	15.7	0.6
Common Starling	0	0	0	0	0	8	0	0	0	10	18	190	9.5	10.8	0.4
Yellow-tailed Black-Cockatoo	0	15	0	0	0	0	0	0	0	0	15	48	31.3	9.0	0.3
Galah	7	0	0	0	0	6	0	0	0	0	13	130	10.0	7.8	0.3
Wedge-tailed eagle	0	2	2	0	0	0	2	0	2	0	8	11	72.7	4.8	0.2
Australian Magpie	0	0	4	2	0	0	0	0	0	0	6	815	0.7	3.6	0.1
Red-rumped Parrot	0	0	0	0	0	6	0	0	0	0	6	130	4.6	3.6	0.1
Red Wattlebird	2	0	4	0	0	0	0	0	0	0	6	82	7.3	3.6	0.1
Eastern Rosella	0	0	0	5	0	0	0	0	0	0	5	40	12.5	3.0	0.1
Brown Falcon	0	0	0	0	0	1	0	0	1	1	3	28	10.7	1.8	0.1
Blue-winged Parrot	0	0	0	0	2	0	0	0	0	0	2	10	20.0	1.2	0.0
Nankeen Kestrel	0	0	1	0	0	0	1	0	0	0	2	8	25.0	1.2	0.0
White-faced Heron	0	0	0	0	0	1	1	0	0	0	2	6	33.3	1.2	0.0
Eurasian Skylark	0	0	0	0	1	0	0	0	0	0	1	34	2.9	0.6	0.0
Peregrine Falcon	0	0	1	0	0	0	0	0	0	0	1	1	100.0	0.6	0.0
<b>Total RSA Birds</b>	<b>9</b>	<b>41</b>	<b>18</b>	<b>11</b>	<b>10</b>	<b>36</b>	<b>4</b>	<b>8</b>	<b>12</b>	<b>17</b>	<b>166</b>	<b>2091</b>	<b>3.9</b>	<b>100.0</b>	<b>3.9</b>

## Appendix 19: Brolga Flocking Site Survey Results 2006 – 2007

Date	Location	Birds (min.)	Birds (max.)
	Bryan Swamp	Not surveyed	
	L Wongan	Not surveyed	
02/02/07	Stavelly	13 (all ads)	97 (March)
02/02/07	“Blackwood” & Tobermorey Road Penshurst	Nil. Dry	0
02/02/07	Murdum Ck, 3 km NW Penshurst	132 all ads	140
	L Barnie Bolac	Nil. Dry	0
	Kooraweera, Deane’s fresh		0
	L Gherang	Nil	0
	Cundare Pool	Nil	0
	L Rosine	2A	2
	Lake Weering	Nil	0
18-23/12	Betw Cressy/Winchelsea	5	5
26/2/07	Kaladbro	63 all ads	63
“	Old Lindsay Road Kaladbro	33 all ads	33
	Bool Lagoon (SA)	nil	Nil
02/02/07	Lake Bolac	70	79 (1 imm)
25/1/07	Deep L 4 km S Nerrin Nerrin	2A	2
28/2/07	Carranballac(3 km S)	Nil	0
	Gerrigerrup (2 sites)	Not surveyed	
Dec 06-Feb 07	Eumerella wetlands	2A	2A
1/3/07	Ellengowan Swamp	2A	2A
31/01/07	Cobra Killuc	2A	2A
Feb 2007	Rossbridge	2A, 1 Ch	3
Feb 2007	Yalla-Y-Poora 7522 807353	2A	2
Feb 2007	Raglan 7523 057609 approx	2A	2
Late Oct 2006	15km NE Streatham (Wongan CK) 7522 915405	8	10
28/2 07	L Sheepwash	7 all ads	7
	Narracoorte	80	80
8/3/07	Edenhope sewerage works	45	45
TOTAL		465	576

(Source: Philip Du Guesclin, DSE)

## Appendix 20: Brolga Nesting Site Survey Results 2006

Location	Grid ref	Date	Nest	Egg	Chick	Notes
Tyrendarra North	7221 681769		FW marsh			Dry no breeding
Minhamite	7322 950136					No breeding
Lake Tooliorook	7522 984945 approx	10 Sept 2006	In the lake? "swan" nest seen by JS "out from the bank"		2	Just hatched Not seen 22/9
Ardno	7122 975202	Sept 2006	shallow FW Marsh		2	1 survivor, 30 cm high 22/9/06
Darlington	7421 748901					No breeding
Darlington	7522 783935					No breeding
Chepstowe, Neville Oddie's	7522 205370	2006			2	1 fledged?
Rossbridge	7423 650519	2006	billabong		1	Fledged late Dec. still with adults on site mid-Feb. 2007

(Source: Philip Du Guesclin, DSE)

## Appendix 21: Brolga Sightings by Local Residents in the Stockyard Hill District

Date	No. Brolga	Location	Habitat	Comments
22/02/2008	2	Black Lake	In flight	
Mid-Jan. 08	2	Lake Goldsmith	Dam on roadside	
Mid-Nov .07	2	Skipton Road, south Lake Goldsmith Hall	Marsh	sighted here over past 6 yrs
Nov.06	3	Lake Goldsmith	Wetland	Nesting, 1 chick, observed over period of weeks
every year	2-150	Beaufort - Nerrin Nerrin	Paddocks, swamps and waterways	from Dec./Jan. to May/June (flocking/migration season)
Mar. 08	2	Nth Old Geelong Road to East Streatham Road	Field	
May 07	2	Nth Old Geelong Road to East Streatham Road	Swamp	
10/08/2007-1/11/2007	4	Mawallok property, Old Geelong Road	Lake	sighted over 12 weeks, 2 juvenile
10/10/2007	2	Mawallok property, Old Geelong Road	Lake in paddock	sighted over 8 weeks, nesting
most years	2-6	Nerrin Nerrin, adjacent to Nerrin Lakes	Paddocks, grasslands, wetlands	sighted from few days to one week
most years	4	Mawallok and Stoneleigh - Beaufort-Carranballac Road	Paddock	sighted over few weeks
07 - 08	4	Lake Goldsmith	Swamp/field	sighted from Oct. - April
06-08	4	St Marnocks Swamp	Swamp/field	sighted from Oct. - April
06-08	4	Moallaak Springs, Nywanda Lane	Swamp/field	sighted from Oct. - April
06-08	2	Stoneleigh, Meadows Lane	Swamp/field	sighted from Oct. - April
some years	2	Buln Gherin	Paddock	usually sighted in autumn
past 5 yrs	<30	Stoneleigh District	Field	
previous yrs	2	Mt Emu Settlement Road, western end	Swamp	sighted most yrs (except dry) during May-Dec.
previous yrs	2	swamp S of Slater Lake	Swamp	sighted most yrs (except dry) during May-Dec.
2007	2	south along Mt Emu Settlement Road	Paddock	occasional sightings
2007-2008	2	S Streatham-Carngham Road & Stockyard Hill Road near dam	Paddock	

Date	No. Brolga	Location	Habitat	Comments
18/05/2007	1	between Beaufort-Carranballac Road and Stockyard Hill Road	Paddock	sighted once
22/05/2007	2	Mawallok property, Old Geelong Road	Lake	sighted twice
5/06/2007	2	Mawallok property, Old Geelong Road	Lake	sighted twice
May-June	4	Mawallok property, Old Geelong Road	Lake	sighted 4 to 5 times
80s	>130	Lake Wongan	shallow water	summer/autumn (flocking season)
90s	30	Lake Wongan	shallow water	summer/autumn (flocking season)
2000s	<20	Lake Wongan	shallow water	less water = less large flocking numbers
2007	<10	Lake Wongan and surrounds	shallow water	5 pairs nested; 4 abandoned nests (no water); 2 chicks eaten by foxes
21/04/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road		
23/04/2008	1	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	Dam	
1/08/2008	2	Area south and east of Intersection of Mt William Road & Carranballac-Beaufort Road	Stubble	
4/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	Stubble/Dam	
6/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	Stubble	
8/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	Plains	
12/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	Dry Dam	
13/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-	In Flight	

Date	No. Brolga	Location	Habitat	Comments
		Beaufort Road		
15/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	Dam/Stubble	
16/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	Stubble	
18/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	Plains	
19/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	In Flight	
19/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	Plains	
19/05/2008	2	Area south and east of intersection of Mt William Road & Carranballac-Beaufort Road	In Flight	