

Appendices

Appendix 1. Weather Data October 2016 – February 2017

Field trips shaded in grey. Data from Bureau of Meteorology (2017), Hyden and Southern Cross Airport weather stations.

Date	Hyden			Southern Cross			Date	Hyden			Southern Cross		
	Temp (°C)		Rain (mm)	Temp (°C)		Rain (mm)		Temp (°C)		Rain (mm)	Temp (°C)		Rain (mm)
	Min	Max		Min	Max			Min	Max		Min	Max	
Oct							Nov						
1	10.4	16	0	9.4	20.4	0	1	7.6	26.5	0	9.1	27.1	0
2	3.6	17.8	3	3.9	18.3	0.6	2	8.2	32.7	0	11.2	32	0
3	4.1	21.8	0.1	1.4	21.8	0	3	8.8	34.3	0	10.5	36.3	0
4	5.7	22.4	0	5.2	25	0	4	13.1		0	14.4	33.5	0
5	4.2	23	0	4.1	30.6	0	5			0	15.3	37.9	0
6	6.4	25.5	0	3.3	28.1	0	6		34.5	0	20.3	38.1	0
7	7.6	29.8	0	9.4	31.3	0	7	7.2	25.2	0	11.8	25.9	0
8	12		0.3	18.3	24.2	0	8	8.3	29.7	0	9.8	30	0
9		19.3	5.8	7.5	19.9	4.4	9	10.8	26.7	0	9.9	27.8	0
10	1.5	21	0.2	2	21.4	0	10	8.3	27	0	7.2	25.9	0
11		25.3	0	4.6	24.9	0	11	8.8	24	0	9.4	24.3	0
12	6.8	30.2	0	8.7	29.9	0	12	7.6	26.3	0	6.7	25.7	0
13	14	35.2	0	11.7	35.7	0	13	6.1	30.7	0	9.7	29.2	0
14	13.4	26.4	0	14	27.9	0	14	11.6	35.3	0	11	34	0
15	7.9	17.8	1	9.3	18	0.2	15	17.8	39.6	0	19.6	38.6	0
16	4.5	21.9	0	4.4	21	0.2	16	17.4	28.1	1.4	18.1	30	2
17	4.4	22	0	3.1	23.5	0	17	9.5	25.7	2.4	13.1	25.5	0
18	4.3	22.2	0	6.3	22.9	0.2	18	8.5	31.5	0	10.9	30.1	0
19	3.5	24.7	0	4.4	27.2	0	19	12.2	37.1	0	13.8	36.3	0
20	9.3	18.9	0	7.9	19.7	0	20	14	27.3	0	14	28.5	0
21	0	21.7	0	2.6	21.2	0	21	5.6	25.5	0	7.6	25.4	0
22	6		0	8.3	26.2	0	22	8	29.4	0	12	29.3	0
23		35.6	0	10	35	0	23	11.6	32.8	0	15.2	31.5	0
24	11.5	29	0	15.7	30.7	0	24	13	33	0	14.8	32.1	0
25	8.2	24.3	0	10.8	24.8	0.4	25	11.9	33.5	0	15.8	31.9	0
26	8.5	27.8	0	7.2	28.3	0	26	13.5	37.2	0	18.5	34.9	0
27	6.9	28.5	0	6.6	30.6	0	27	17.4	40.2	0	20	39.7	0
28	8.2	31.1	0	11.4	33.4	0	28	12.4	34.9	0	16.5	37.7	0
29	7.8	24	0	9.7	25.2	0	29	12.3	29.2	0	16.6	33.3	0
30	3.5	22.6	0	7.6	22.7	0	30	10.6	32.1	0	13.3	34	0
31	5	25	0	8.5	26.6	0							

Appendix 1. (cont.)

Date	Hyden			Southern Cross			Date	Hyden			Southern Cross		
	Temp (°C)		Rain (mm)	Temp (°C)		Rain (mm)		Temp (°C)		Rain (mm)	Temp (°C)		Rain (mm)
	Min	Max		Min	Max			Min	Max		Min	Max	
Dec							Jan						
1	10	28.1	0	13.6	29.4	0	1	12.3	32.7	0	12.9	31.5	0
2	9.9	32.9	0	13	32.6	0	2	14	35.4	0	17.6	33.7	0
3	14.1	32.1	0	15.9	33.6	0	3	16.2	38.5	0	19.2	36.7	0
4	12	28.1	0	15.7	28	0	4	18.5	42.1	0	22.5	39.8	0
5	10.4	29	0	12.9	30.3	0	5	22.8	44.2	0	25.2	44.6	0
6	10	32.6	0	13.4	33	0	6	11.5	29.3	0	14	27.9	0
7	12.3	27.9	0	14.7	29.3	0	7	12.1	32.8	0	14.3	34.2	0
8	7.9	31.2	0	9.9	29.8	0	8	13.3	34.6	0	15.2	35.7	0
9	11	36.2	0	15.6	34.6	0	9	13.9	36.2	0	17.3	36.3	0
10	15.7	41.6	0	16.8	40.4	0	10	15.7	40.2	0	19.8	38.7	0
11	20.7	40.6	0	19.9	41.5	0	11	15.7	42.2	0	22.7	40.7	0
12	15.4		9	17.8	20.3	1	12	17.9	30	0	20.1	30.6	0
13	12.5	26	7.2	13.9	24.2	15.8	13	9.5	31.7	0	13.6	32.2	0
14	13.4	28.4	0	12	27.7	0	14	12.6	37.5	0	15.9	35.3	0
15	11.8	33.8	0	14.4	32.7	0	15	13.3	41	0	17	37.8	0
16	15.3	27.6	0	18	30.8	0	16	14.3	32.2	0	20.6	30.6	0
17	11.7	33.5	0	13.2	30.2	1.4	17	13.7	29.6	0	13.8	26	2.2
18	16.1	35.1	0	18.1	36.1	0	18	12.1	34.1	0	14.9	32.9	0
19	13.6	30.8	0	14.6	31.7	0	19	17.3	25.6	0.2	20.7	30.7	0
20	11.3	33.4	0	13.2	33	0	20	10.1	33	0	13.3	33.1	0
21	13.9	40.1	0	18.3	38.1	0	21	13.9	38	0	18.3	37.7	0
22	25.2	36	0	25.7	39.5	0	22	16.9	34.8	0	21.7	37.3	0
23	13.1	39.2	0	16.4	38.9	0	23	8.9	29	0	15	30.5	0
24	15.7	39.3	0	25.2	40.4	0	24	11.3	33.5	0	14.2	33.7	0
25	14.7	29.9	0	17.6	33.1	1.2	25	13.6	38	0	17.9	37.3	0
26	10.9	35.6	0	13	35.8	0	26	18.7		0	18.6	38.4	0
27	13.9	23.8	0	15.5	24.3	0	27		41.5	0	20.4	42.8	0
28	13	25.5	0	13.6	26.1	0	28	15.6	43.5	0	17	41.5	0
29	12.5	30.1	0	9.1	30.1	0	29	23.6	29.1	4.8	23.1	32.2	30.6
30	10.4	33.8	0	12.8	34.1	0	30	15.7	17.2	16	17.2	18.9	9
31	11.5	27.6	0	12.4	30	0	31	13.6	18.7	56.2	16.9	26	31

Appendix 1. (cont.)

Date	Hyden			Southern Cross		
	Temp (°C)		Rain (mm)	Temp (°C)		Rain (mm)
	Min	Max		Min	Max	
Feb						
1	14.4	27.8	14.8	18.8	26.4	12.4
2	15.9	30.6	0.1	18	29.9	0
3	17.6	36.5	0	19.8	36.1	0
4	17.9	32.8	0	20.2	34.3	0
5	15.3	26	0	16.7	29.2	0
6	13.3	31.2	0	15.2	30.2	0
7	19.4	32.7	0	19.5	37	0
8	13.9	21.2	8.2	13.9	16.6	20.2
9	11	16.6	29	12.4	21.5	27.8
10	11.7	25.1	15.8	13.3	34	0
11	15.6	19.6	42.3	20.4	28	1.2
12	15.9	23.9	2.6	17.4	25.9	1.2
13	16.8	32.6	0.2	18	31.7	0
14	21.7	34.9	0	20	34.9	0
15	17.9	26.1	0	20.3	33.1	0
16	14.9	29.4	0	17.7	32.1	0
17	13.4	28.3	0	14.1	31	0
18	12.7	30.7	0	14.7	31.5	0
19	15	35.4	0	16.9	33.1	0
20	20.4	33	0	20.2	36.4	0
21	14.9	23.8	0.1	14.3	24.6	0
22	9	24.2	0	7.5	26.1	0
23	11.2	30.2	0	13.5	31.4	0
24	15	33.2	0	17.1	32.8	0
25	15.5	35.5	0	17.6	35.9	0
26	18	39	0	19.4	39.6	0
27	17.1	35	0	21.6	38.5	0
28	16.2	34.5	0	18.4	37	0

Appendix 2. Camera Trap Locations

Appendix 2A. Location and Habitat For All Camera Traps

Camera	Zone	Easting	Northing	Burnt or unburnt	Habitat	Date deployed	Date retrieved	Location	Trap-nights
N01-0	50	759916	6446523	Unburnt	Shrubland	10/10/2016	15/10/2016	Earl Grey	5
N02-0	50	759372	6445879	Unburnt	Mallee woodland	10/10/2016	15/10/2016	Earl Grey	5
N03-0	50	759561	6446710	Unburnt	Shrubland	10/10/2016	15/10/2016	Earl Grey	5
N04-0	50	759906	6446062	Unburnt	Mallee woodland	10/10/2016	15/10/2016	Earl Grey	5
W02-0	50	759063	6446760	Unburnt	Shrubland	10/10/2016	15/10/2016	Earl Grey	5
W03-0	50	759006	6446455	Unburnt	Shrubland	10/10/2016	15/10/2016	Earl Grey	5
W04-0	50	758856	6445164	Unburnt	Shrubland	10/10/2016	15/10/2016	Earl Grey	5
W05-0	50	759677	6445674	Unburnt	Mallee woodland	10/10/2016	15/10/2016	Earl Grey	5
W06-0	50	758836	6445766	Unburnt	Mallee woodland	10/10/2016	15/10/2016	Earl Grey	5
W07-0	50	759475	6446260	Unburnt	Mallee woodland	10/10/2016	15/10/2016	Earl Grey	5
W08-0	50	759268	6445519	Unburnt	Shrubland	10/10/2016	15/10/2016	Earl Grey	5
W09-0	50	759274	6446155	Unburnt	Shrubland	10/10/2016	15/10/2016	Earl Grey	5
N03-1	50	758986	6447610	Unburnt	Mallee woodland	22/11/2016	26/11/2016	Irish Breakfast	4
N04-1	50	759268	6447365	Unburnt	Mallee woodland	22/11/2016	26/11/2016	Irish Breakfast	4
W03-1	50	759967	6447772	Unburnt	Shrubland	22/11/2016	26/11/2016	Irish Breakfast	4
W05-1	50	759505	6447687	Unburnt	Mallee woodland	22/11/2016	26/11/2016	Irish Breakfast	4
W06-1	50	759845	6447174	Unburnt	Shrubland	22/11/2016	26/11/2016	Irish Breakfast	4
W07-1	50	759483	6447368	Unburnt	Mallee woodland	22/11/2016	26/11/2016	Irish Breakfast	4
N01-1	50	759522	6449665	Burnt	Mallee woodland	22/11/2016	26/11/2016	Prince of Wales	4
N02-1	50	759224	6449993	Burnt	Mallee woodland	22/11/2016	26/11/2016	Prince of Wales	4

Appendix 2A. (cont.)

Camera	Zone	Easting	Northing	Burnt or unburnt	Habitat	Date deployed	Date retrieved	Location	Trap-nights
W02-1	50	759955	6450865	Burnt	Mallee woodland	22/11/2016	26/11/2016	Prince of Wales	4
W04-1	50	759402	6450464	Unburnt	Mallee woodland	22/11/2016	26/11/2016	Prince of Wales	4
W08-1	50	759903	6450455	Burnt	Mallee woodland	22/11/2016	26/11/2016	Prince of Wales	4
W09-1	50	759236	6450923	Unburnt	Mallee woodland	22/11/2016	26/11/2016	Prince of Wales	4
N01-2	50	762417	6438295	Unburnt	Mallee woodland	26/11/2016	30/11/2016	Regional	4
N01-3	50	758080	6440960	Unburnt	Shrubland	30/11/2016	4/12/2016	Regional	4
N02-2	50	762342	6441296	Unburnt	Mallee woodland	26/11/2016	30/11/2016	Regional	4
N02-3	50	761656	6443600	Unburnt	Mallee woodland	30/11/2016	4/12/2016	Regional	4
N03-2	50	762742	6443096	Unburnt	Mallee woodland	26/11/2016	30/11/2016	Regional	4
N03-3	50	763595	6439595	Unburnt	Mallee woodland	30/11/2016	4/12/2016	Regional	4
N04-2	50	759352	6440369	Unburnt	Mallee woodland	26/11/2016	30/11/2016	Regional	4
N04-3	50	759352	6439366	Unburnt	Mallee woodland	30/11/2016	4/12/2016	Regional	4
W01-1	50	762358	6446368	Unburnt	Mallee woodland	29/11/2016	4/12/2016	Regional	5
W02-2	50	759318	6444356	Unburnt	Mallee woodland	26/11/2016	30/11/2016	Regional	4
W02-3	50	761366	6445468	Unburnt	Mallee woodland	30/11/2016	4/12/2016	Regional	4
W03-3	50	747943	6441491	Unburnt	Mallee woodland	30/11/2016	4/12/2016	Regional	4
W04-3	50	748038	6442244	Unburnt	Shrubland	30/11/2016	4/12/2016	Regional	4
W05-3	50	749667	6439356	Unburnt	Mallee woodland	30/11/2016	4/12/2016	Regional	4
W06-3	50	748717	6440909	Unburnt	Shrubland	30/11/2016	4/12/2016	Regional	4
W07-3	50	747801	6442892	Unburnt	Mallee woodland	30/11/2016	4/12/2016	Regional	4
W08-3	50	749529	6440319	Unburnt	Shrubland	30/11/2016	4/12/2016	Regional	4
W09-2	50	759328	6443180	Unburnt	Mallee woodland	26/11/2016	30/11/2016	Regional	4

Appendix 2A. (cont.)

Camera	Zone	Easting	Northing	Burnt or unburnt	Habitat	Date deployed	Date retrieved	Location	Trap-nights
W09-3	50	760898	6443050	Unburnt	Shrubland	30/11/2016	4/12/2016	Regional	4
W10-1	50	761608	6451983	Unburnt	Mallee woodland	29/11/2016	4/12/2016	Regional	5
W11-1	50	762187	6448791	Unburnt (next to burnt)	Mallee woodland	29/11/2016	4/12/2016	Regional	5
W12-1	50	762862	6442728	Unburnt	Mallee woodland	29/11/2016	4/12/2016	Regional	5
W13-1	50	762609	6444198	Unburnt	Mallee woodland	29/11/2016	4/12/2016	Regional	5
W14-1	50	761624	6450581	Unburnt	Mallee woodland	29/11/2016	4/12/2016	Regional	5
W15-1	50	762198	6448189	Unburnt	Mallee woodland	29/11/2016	4/12/2016	Regional	5
W16-1	50	762288	6446789	Unburnt	Mallee woodland	29/11/2016	4/12/2016	Regional	5
W17-1	50	760427	6446171	Unburnt	Mallee woodland	29/11/2016	4/12/2016	Regional	5
W03-2	50	750256	6438504	Unburnt	Open woodland (Merrit & Salmon Gum)	26/11/2016	30/11/2016	Van Uden	4
W04-2	50	750230	6438902	Unburnt	Open woodland (Merrit & Salmon Gum)	26/11/2016	30/11/2016	Van Uden	4
W05-2	50	750431	6439438	Unburnt	Mallee woodland	26/11/2016	30/11/2016	Van Uden	4
W06-2	50	749997	6439367	Unburnt	Mallee woodland	26/11/2016	30/11/2016	Van Uden	4
W07-2	50	750833	6438387	Unburnt	Mallee woodland	26/11/2016	30/11/2016	Van Uden	4
W08-2	50	750687	6438785	Unburnt	Open woodland (Merrit & Salmon Gum)	26/11/2016	30/11/2016	Van Uden	4
W01-4	50	757634	6456613	Unburnt (next to burnt)	Mallee woodland	18/01/2017	9/02/2017	Regional	22
W01-5	50	758783	6451858	Unburnt	Open woodland (gimlet)	10/02/2017	24/02/2017	Regional	14
W02-4	50	758074	6455755	Unburnt (next to burnt)	Shrubland	18/01/2017	9/02/2017	Regional	22
W02-5	50	756879	6460002	Unburnt	Shrubland	11/02/2017	24/02/2017	Regional	13
W03-4	50	760986	6451174	Unburnt (next to burnt)	Mallee woodland	18/01/2017	11/02/2017	Regional	24
W03-5	50	761747	6460364	Burnt	Shrubland	11/02/2017	24/02/2017	Regional	13
W04-4	50	760087	6452380	Burnt	Shrubland	18/01/2017	9/02/2017	Regional	22





Appendix 2A. (cont.)

Camera	Zone	Easting	Northing	Burnt or unburnt	Habitat	Date deployed	Date retrieved	Location	Trap-nights
W04-5	50	760201	6453532	Unburnt	Mallee woodland	9/02/2017	24/02/2017	Regional	15
W05-4	50	756968	6451204	Unburnt (next to burnt)	Shrubland	19/01/2017	10/02/2017	Regional	22
W05-5	50	755589	6452055	Unburnt (next to burnt)	Shrubland	10/02/2017	24/02/2017	Regional	14
W06-4	50	763828	6440809	Unburnt	Open woodland (gimlet)	19/01/2017	8/02/2017	Regional	20
W06-5	50	763803	6442406	Unburnt (next to burnt)	Mallee woodland	8/02/2017	23/02/2017	Regional	15
W07-4	50	758432	6453158	Unburnt	Open woodland (gimlet)	18/01/2017	9/02/2017	Regional	22
W07-5	50	761546	6457583	Burnt	Mallee woodland	11/02/2017	24/02/2017	Regional	13
W08-4	50	755862	6447328	Unburnt	Shrubland	20/01/2017	8/02/2017	Regional	19
W08-5	50	758652	6448854	Unburnt	Shrubland	8/02/2017	24/02/2017	Regional	16
W09-4	50	754725	6451569	Unburnt (next to burnt)	Mallee woodland	19/01/2017	10/02/2017	Regional	22
W09-5	50	753973	6452106	Unburnt	Mallee woodland	10/02/2017	24/02/2017	Regional	14
W10-4	50	754136	6443064	Unburnt	Shrubland	17/01/2017	8/02/2017	Regional	22
W10-5	50	757483	6447340	Unburnt	Shrubland	8/02/2017	23/02/2017	Regional	15
W11-4	50	758031	6444548	Unburnt	Mallee woodland	17/01/2017	7/02/2017	Regional	21
W11-5	50	764472	6445019	Burnt	Open woodland (Merri)	7/02/2017	23/02/2017	Regional	16
W12-4	50	754313	6445816	Unburnt	Shrubland	17/01/2017	8/02/2017	Regional	22
W12-5	50	753870	6444571	Unburnt	Shrubland	8/02/2017	23/02/2017	Regional	15
W13-4	50	756721	6442154	Unburnt	Mallee woodland	19/01/2017	7/02/2017	Regional	19
W13-5	50	763288	6447100	Burnt	Mallee woodland	7/02/2017	23/02/2017	Regional	16
W14-4	50	760188	6441343	Burnt	Open woodland	17/01/2017	7/02/2017	Regional	21
W14-5	50	760391	6439382	Unburnt	Open woodland (gimlet)	7/02/2017	23/02/2017	Regional	16
W15-4	50	753838	6439082	Unburnt	Shrubland	16/01/2017	8/02/2017	Regional	23




Appendix 2A. (cont.)

Camera	Zone	Easting	Northing	Burnt or unburnt	Habitat	Date deployed	Date retrieved	Location	Trap-nights
W15-5	50	762361	6439787	Burnt	Open woodland	8/02/2017	23/02/2017	Regional	15
W16-4	50	764353	6446345	Burnt	Mallee woodland	17/01/2017	7/02/2017	Regional	21
W16-5	50	756254	6439127	Burnt	Mallee woodland	8/02/2017	23/02/2017	Regional	15
W17-4	50	763261	6447987	Burnt	Shrubland	17/01/2017	7/02/2017	Regional	21
W17-5	50	754893	6440726	Unburnt	Mallee woodland	10/02/2017	24/02/2017	Regional	14
W18-4	50	761633	6454862	Burnt	Open woodland (Salmon Gum)	18/01/2017	11/02/2017	Regional	24
W18-5	50	761463	6456159	Burnt	Mallee woodland	11/02/2017	24/02/2017	Regional	13
W19-4	50	759122	6454666	Unburnt (next to burnt)	Shrubland	18/01/2017	9/02/2017	Regional	22
W19-5	50	760239	6455577	Unburnt	Shrubland	9/02/2017	24/02/2017	Regional	15
W20-4	50	757757	6451482	Unburnt	Shrubland	19/01/2017	10/02/2017	Regional	22
W20-5	50	762849	6461372	Burnt	Open woodland (Salmon Gum)	11/02/2017	24/02/2017	Regional	13
W21-4	50	760955	6452774	Unburnt	Shrubland	18/01/2017	11/02/2017	Regional	24
W21-5	50	761672	6459185	Burnt	Shrubland	11/02/2017	24/02/2017	Regional	13
W22-4	50	760511	6448976	Unburnt (next to burnt)	Mallee woodland	19/01/2017	8/02/2017	Regional	20
W22-5	50	758312	6450709	Unburnt (next to burnt)	Mallee woodland	10/02/2017	24/02/2017	Regional	14

Appendix 2B. Additional Vegetation Data Collected by Mattiske Consulting for Camera Traps Set in January - February 2017

Vegetation Description	Photograph
<p>Site: W01.4</p> <p>Location: 757632 mE, 6456612 mN</p> <p>Soil and Topography: Orange sandy clay with surface ironstone pebbles and some crusting on flats</p> <p>Structural: <i>Eucalyptus flocktoniae</i> subsp. <i>flocktoniae</i>, <i>Eucalyptus cylindriflora</i> mid open mallee woodland over <i>Melaleuca ?condylosa</i>, <i>Melaleuca ?lateriflora</i>, <i>Daviesia benthamii</i> subsp. <i>acanthoclona</i> mid open shrubland over <i>Microcybe multiflora</i> subsp. <i>multiflora</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W02.4</p> <p>Location: 758074 mE, 6455755 mN</p> <p>Soil and Topography: Cream-orange sandy clay with ironstone and laterite surface pebbles on flats</p> <p>Structural: <i>Eucalyptus burracoppinensis</i>, <i>Eucalyptus ?oleosa</i> mid open mallee woodland over <i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>, <i>Allocasuarina acutivalvis</i> mid open shrubland over <i>Drummondita hassellii</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W03.4</p> <p>Location: 760986 mE, 6451174mN</p> <p>Soil and Topography: Light orange sandy clay on flats</p> <p>Structural: <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i> mid open mallee woodland over <i>Melaleuca hamata</i>, <i>Melaleuca</i> sp., <i>Hakea erecta</i> tall open shrubland over <i>Baeckea elderiana</i>, <i>Hibbertia exasperata</i> low sparse heathland.</p> <p>Associated species: <i>Lepidosperma sanguinolentum</i></p> <p>Condition: Excellent</p>	
<p>Site: W04.4</p> <p>Location: 760087 mE, 6452380 mN</p> <p>Soil and Topography: Light orange sandy clay with ironstone surface pebbles, flat</p> <p>Structural: <i>Eucalyptus burracoppinensis</i>, <i>Codonocarpus cotinifolius</i>, <i>Hakea</i> sp., low sparse mallee shrubland over <i>Grevillea ?ptosperma</i>, <i>Acacia</i> sp., <i>Melaleuca</i> spp. mid open shrubland over <i>Gastrobium spinosum</i> low sparse heathland.</p> <p>Associated species: <i>Santalum</i> sp.</p> <p>Condition: Excellent</p>	



Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W05.4</p> <p>Location: 756968 mE, 6451204mN</p> <p>Soil and Topography: Light orange sandy clay, flay</p> <p>Structural: <i>Eucalyptus burracoppinensis</i>, <i>Eucalyptus ?aequioperta</i> mid open mallee woodland over <i>Allocasuarina acutivalvis</i>, <i>Acacia yorkrakinensis</i> subsp. <i>acrita</i>, <i>Hakea francisiana</i> low open shrubland over <i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>, <i>Baeckea elderiana</i>, <i>Drummondita hassellii</i> mid sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W06.4</p> <p>Location: 763828 mE, 6440809 mN</p> <p>Soil and Topography: Orange sandy clay with some surface ironstone pebbles</p> <p>Structural: <i>Eucalyptus salubris</i>, <i>Eucalyptus ?polita</i>, <i>Eucalyptus</i> sp. mid woodland over <i>Melaleuca quadrifaria</i>, <i>Melaleuca pauperiflora</i> subsp. <i>fastigiata</i>, <i>Exocarpos aphyllus</i> tall open shrubland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W07.4</p> <p>Location: 758432 mE, 6453158 mN</p> <p>Soil and Topography: Orange-brown sandy clay with some surface crusting, flat</p> <p>Structural: <i>Eucalyptus salubris</i>, <i>Eucalyptus capillosa</i> subsp. <i>polyclada</i> mid open mallee woodland over <i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>, <i>Exocarpos aphyllus</i>, <i>Dodonaea stenozyga</i> mid open shrubland over <i>Microcybe multiflora</i> subsp. <i>multiflora</i> low sparse shrubland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	





Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W08.4</p> <p>Location: 755862 mE, 6447328 mN</p> <p>Soil and Topography: Light cream-orange sandy clay with some small ironstone and quartz surface pebbles, flat</p> <p>Structural: <i>Allocasuarina spinosissima</i> and <i>Acacia fragilis</i> mid open shrubland over <i>Melaleuca</i> sp., <i>Baeckea elderiana</i>, <i>Beaufortia schaueri</i> low sparse heathland.</p> <p>Associated species: <i>Melaleuca hamata</i>, <i>Hakea erecta</i>, <i>Lepidosperma sanguinolentum</i></p> <p>Condition: Excellent</p>	
<p>Site: W09.4</p> <p>Location: 754725 mE, 6451569 mN</p> <p>Soil and Topography: Light orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus eremophila</i> and <i>Eucalyptus</i> sp. mid mallee woodland over <i>Melaleuca acuminata</i> subsp. <i>acuminata</i>, <i>Melaleuca eleuterostachya</i>, <i>Melaleuca</i> sp. low open shrubland over <i>Acacia merrallii</i> low sparse shrubland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W10.4</p> <p>Location: 754136 mE, 6443064 mN</p> <p>Soil and Topography: Orange-cream sandy clay with some laterite pebbles, flat</p> <p>Structural: <i>Eucalyptus ?rigidula</i> low open mallee woodland over <i>Melaleuca hamata</i>, <i>Hakea erecta</i>, <i>Allocasuarina spinosissima</i> mid open shrubland over <i>Melaleuca johnsonii</i>, <i>Beaufortia schaueri</i>, <i>Verticordia plumosa</i> var. <i>brachyphylla</i> low sparse heathland.</p> <p>Associated species: <i>Leucopogon</i> sp.</p> <p>Condition: Excellent</p>	
<p>Site: W11.4</p> <p>Location: 758031 mE, 6444548 mN</p> <p>Soil and Topography: Orange-brown sandy clay, flat</p> <p>Structural: <i>Eucalyptus salubris</i>, <i>Eucalyptus capillosa</i> subsp. <i>polyclada</i>, <i>Eucalyptus incrassata</i> mid mallee woodland over <i>Melaleuca acuminata</i> subsp. <i>acuminata</i>, <i>Melaleuca ?hamata</i>, <i>Melaleuca</i> sp. mid open shrubland over <i>Dodonaea bursariifolia</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	





Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W12.4</p> <p>Location: 754313 mE, 6445816 mN</p> <p>Soil and Topography: Orange sandy clay with some lateritic pebbles, flat</p> <p>Structural: <i>Eucalyptus ceratocorys</i>, <i>Eucalyptus burracoppinensis</i>, <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i> mid open mallee woodland over <i>Allocasuarina spinosissima</i>, <i>Petrophile stricta</i>, <i>Hakea erecta</i> mid open shrubland over <i>Petrophile merrallii</i>, <i>Beaufortia schaueri</i>, <i>Verticordia pritzelii</i> low open heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W13.4</p> <p>Location: 756721 mE, 6442154 mN</p> <p>Soil and Topography: Pale orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus eremophila</i>, <i>Eucalyptus</i> sp. mid open mallee woodland over <i>Melaleuca thyoides</i>, <i>Melaleuca sapientes</i>, <i>Melaleuca ?sheathiana</i> mid shrubland.</p> <p>Associated species: <i>Exocarpos aphyllus</i></p> <p>Condition: Excellent</p>	
<p>Site: W14.4</p> <p>Location: 760188 mE, 6441343 mN</p> <p>Soil and Topography: Orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus ?polita</i>, <i>Eucalyptus ?longicornis</i>, <i>Eucalyptus prolixa</i> low woodland over <i>Melaleuca cliffortioides</i>, <i>Melaleuca lanceolata</i>, <i>Beyeria sulcata</i> var. <i>brevipes</i> tall open shrubland over <i>Dodonaea stenozyga</i>, <i>Olearia muelleri</i>, <i>Senna artemisioides</i> subsp. <i>filifolia</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W15.4</p> <p>Location: 753838 mE, 6439082 mN</p> <p>Soil and Topography: Sandy gravel with laterite, slope</p> <p>Structural: <i>Eucalyptus ?rigidula</i>, <i>Eucalyptus incrassata</i> mid open mallee woodland over <i>Santalum acuminatum</i>, <i>Acacia ?fragilis</i>, <i>Melaleuca hamata</i> mid shrubland over <i>Melaleuca johnsonii</i>, <i>Hakea erecta</i>, <i>Hibbertia exasperata</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	




Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W16.4</p> <p>Location: 764353 mE, 6446345 mN</p> <p>Soil and Topography: Orange sandy clay with some ironstone pebbles, flat</p> <p>Structural: <i>Eucalyptus</i> spp. mid isolated mallee trees over <i>Melaleuca</i> spp., <i>Acacia</i> sp. mid sparse shrubland over <i>Daviesia argillacea</i>, <i>Dodonaea stenozygia</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W17.4</p> <p>Location: 763261 mE, 6447987 mN</p> <p>Soil and Topography: Orange sandy clay with surface ironstone pebbles, flat</p> <p>Structural: <i>Eucalyptus</i> sp. mid open mallee woodland over <i>Hakea</i> sp., <i>Acacia</i> spp., <i>Allocasuarina</i> sp. mid sparse shrubland over <i>Grevillea</i> sp., <i>Dampiera eriocephala</i>, <i>Gastrolobium spinosum</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W18.4</p> <p>Location: 761633 mE, 6454862 mN</p> <p>Soil and Topography: Orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus salmonophloia</i>, <i>Eucalyptus</i> sp. mid woodland over <i>Acacia merrallii</i>, <i>Acacia erinacea</i> low open shrubland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W19.4</p> <p>Location: 759122 mE, 6454666 mN</p> <p>Soil and Topography: Orange-cream sandy clay with laterite and ironstone surface pebbles, flat</p> <p>Structural: <i>Eucalyptus burracoppinensis</i>, <i>Eucalyptus</i> sp., <i>Santalum acuminatum</i> low open mallee woodland over <i>Acacia fragilis</i>, <i>Acacia yorkrakinensis</i> subsp. <i>acrita</i>, <i>Allocasuarina acutivalvis</i> mid open shrubland over <i>Leucopogon</i> sp., <i>Baeckea elderiana</i>, <i>Hibbertia exasperata</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	





Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W20.4</p> <p>Location: 757757 mE, 6451482 mN</p> <p>Soil and Topography: Pale orange-yellow sandy clay, flat</p> <p>Structural: <i>Eucalyptus burracoppinensis</i>, <i>Eucalyptus ?oleosa</i>, <i>Santalum acuminatum</i> low mallee woodland over <i>Allocasuarina acutivalvis</i>, <i>Melaleuca pungens</i>, <i>Hakea erecta</i> mid open shrubland over <i>Baeckea elderiana</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W21.4</p> <p>Location: 760955 mE, 6452774 mN</p> <p>Soil and Topography: Orange sandy clay with surface ironstone pebbles, flat</p> <p>Structural: <i>Acacia fragilis</i> and <i>Allocasuarina spinosissima</i> tall open shrubland over <i>Grevillea didymobotrya</i> subsp. <i>didymobotrya</i>, <i>Hakea erecta</i>, <i>Baeckea elderiana</i> mid heathland.</p> <p>Associated species: <i>Melaleuca ?condylosa</i>, <i>Hibbertia exasperata</i></p> <p>Condition: Excellent</p>	
<p>Site: W22.4</p> <p>Location: 760511 mE, 6448976 mN</p> <p>Soil and Topography: Orange sandy clay with ironstone surface pebbles, slope</p> <p>Structural: <i>Eucalyptus eremophila</i> and <i>Eucalyptus prolixa</i> mid open mallee woodland over <i>Melaleuca eleuterostachya</i>, <i>Melaleuca lateriflora</i>, <i>Daviesia scoparia</i> mid heathland.</p> <p>Associated species: <i>Melaleuca ?condylosa</i></p> <p>Condition: Excellent</p>	
<p>Site: W16.5 (CAM01)</p> <p>Location: 756254 mE, 6439127 mN</p> <p>Soil and Topography: Orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus ?oleosa</i>, <i>Eucalyptus ?griffithsii</i>, <i>Eucalyptus ?calycogona</i> low open mallee woodland over <i>Melaleuca</i> sp. mid sparse shrubland over <i>Austrostipa hemipogon</i>, <i>Podolepis capillaris</i>, <i>Lobelia</i> sp. low sparse forbland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	

Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W12.5 (CAM02)</p> <p>Location: 753870 mE, 6444571 mN</p> <p>Soil and Topography: Orange sandy clay with laterite surface pebbles, slight slope</p> <p>Structural: <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>, <i>Eucalyptus burracoppinensis</i> low open mallee woodland over <i>Allocasuarina spinosissima</i>, <i>Hakea erecta</i>, <i>Petrophile stricta</i> mid shrubland over <i>Beaufortia schaueri</i>, <i>Verticordia plumosa</i> var. <i>brachyphylla</i>, <i>Melaleuca cordata</i> low open heathland.</p> <p>Associated species: <i>Leucopogon</i> sp., <i>Lepidosperma sanguinolentum</i></p> <p>Condition: Excellent</p>	
<p>Site: W17.5 (CAM03)</p> <p>Location: 754893 mE, 6440726 mN</p> <p>Soil and Topography: Orange sandy clay with some surface crusting, flat</p> <p>Structural: <i>Eucalyptus ?calycogona</i>, <i>Eucalyptus cylindriflora</i>, <i>Eucalyptus ?tenuis</i> mid mallee woodland over <i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>, <i>Daviesia argillacea</i>, <i>Melaleuca eleuterostachya</i> mid open shrubland over <i>Boronia inornata</i> subsp. <i>leptophylla</i>, <i>Acacia merrallii</i> low sparse heathland.</p> <p>Associated species: <i>Callitris</i> sp.</p> <p>Condition: Excellent</p>	
<p>Site: W14.5 (CAM04)</p> <p>Location: 760391 mE, 6439382 mN</p> <p>Soil and Topography: Orange-red sandy clay, flat</p> <p>Structural: <i>Eucalyptus ?tenuis</i>, <i>Eucalyptus prolixa</i> mid open mallee forest over <i>Santalum acuminatum</i>, <i>Dodonaea stenozyga</i>, <i>Daviesia scoparia</i> mid open shrubland over <i>Acacia camptoclada</i>, <i>Acacia erinacea</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	

Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W11.5 (CAM05)</p> <p>Location: 764472 mE, 6445019 mN</p> <p>Soil and Topography: Orange sandy clay with ironstone pebbles, flat</p> <p>Structural: <i>Eucalyptus flocktoniae</i> subsp. <i>flocktoniae</i> low open woodland over <i>Melaleuca pauperiflora</i> subsp. <i>fastigiata</i>, <i>Eremophila ionantha</i>, <i>Eremophila dempsteri</i> mid open shrubland over <i>Acacia erinacea</i>, <i>Asteraceae</i> sp. low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W13.5 (CAM06)</p> <p>Location: 763288 mE, 6447100 mN</p> <p>Soil and Topography: Orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus</i> spp. mid open mallee woodland over <i>Melaleuca</i> spp., <i>Acacia</i> sp. mid open shrubland over <i>Poaceae</i> sp. low sparse grassland and <i>Lepidosperma sanguinolentum</i> low sparse sedgeland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W04.5 (CAM07)</p> <p>Location: 760201 mE, 6453532 mN</p> <p>Soil and Topography: Orange sandy clay with laterite pebbles, flat</p> <p>Structural: <i>Eucalyptus eremophila</i> mid mallee woodland over <i>Melaleuca eleuterostachya</i>, <i>Melaleuca lateriflora</i>, <i>Daviesia scoparia</i> mid shrubland over <i>Melaleuca ?condylosa</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W19.5 (CAM08)</p> <p>Location: 760239 mE, 6455577 mN</p> <p>Soil and Topography: Orange-cream sandy clay, flat</p> <p>Structural: <i>Eucalyptus ?oleosa</i>, <i>Eucalyptus</i> sp. low open mallee woodland over <i>Santalum</i> sp., <i>Allocasuarina acutivalvis</i>, <i>Melaleuca hamata</i> mid open shrubland over <i>Melaleuca ?condylosa</i>, <i>Baeckea elderiana</i>, <i>Thryptomene kochii</i> mid open heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	





Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W05.5 (CAM09)</p> <p>Location: 761546 mE, 6457583 mN</p> <p>Soil and Topography: Orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus</i> spp. low open mallee woodland over <i>Santalum</i> sp., <i>Melaleuca ?condylosa</i>, <i>Melaleuca eleuterostachya</i> mid open shrubland over <i>Acacia merrallii</i> low isolated heath shrubs.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W21.5 (CAM10)</p> <p>Location: 761672 mE, 6459185 mN</p> <p>Soil and Topography: Orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus</i> spp. low open mallee woodland over <i>Melaleuca</i> spp. low open shrubland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W03.5 (CAM11)</p> <p>Location: 761747 mE, 6460364 mN</p> <p>Soil and Topography: Light orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus</i> sp. low mallee woodland over <i>Allocasuarina acutivalvis</i>, <i>Acacia yorkkrakensis</i> subsp. <i>acrita</i>, <i>Acacia</i> sp. mid open shrubland over <i>Melaleuca</i> sp., <i>Baeckea elderiana</i> low sparse heathland.</p> <p>Associated species: <i>Hakea</i> sp.</p> <p>Condition: Excellent</p>	
<p>Site: W20.5 (CAM12)</p> <p>Location: 762849 mE, 6461372 mN</p> <p>Soil and Topography: Orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus salmonophloia</i>, <i>Eucalyptus</i> sp. mid open woodland over <i>Acacia merrallii</i>, <i>Acacia erinacea</i> low open shrubland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	



Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W18.5 (CAM13)</p> <p>Location: 761463 mE, 6456159 mN</p> <p>Soil and Topography: Orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus</i> spp. low open mallee woodland over <i>Melaleuca</i> spp., <i>Santalum</i> sp., <i>Acacia</i> sp. mid open shrubland over <i>Dodonaea stenozyga</i> low sparse heathland.</p> <p>Associated species: <i>Exocarpos aphyllus</i></p> <p>Condition: Excellent</p>	
<p>Site: W15.5 (CAM14)</p> <p>Location: 762361 mE, 6439787 mN</p> <p>Soil and Topography: Orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus salubris</i>, <i>Eucalyptus</i> sp. low woodland over <i>Melaleuca</i> spp., <i>Exocarpos aphyllus</i> mid open shrubland over <i>Dodonaea stenozyga</i>, <i>Acacia merrallii</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W06.5 (CAM15)</p> <p>Location: 763803 mE, 6442406 mN</p> <p>Soil and Topography: Orange sandy clay with ironstone pebbles, flat</p> <p>Structural: <i>Eucalyptus</i> spp. mid open mallee woodland over <i>Allocasuarina acutivalvis</i>, <i>Acacia fragilis</i>, <i>Santalum</i> sp. tall shrubland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W01.5 (CAM16)</p> <p>Location: 758783 mE, 6451858 mN</p> <p>Soil and Topography: Orange-brown sandy clay with ironstone pebbles, flat</p> <p>Structural: <i>Eucalyptus salubris</i>, <i>Eucalyptus</i> sp. low woodland over <i>Melaleuca quadrifaria</i>, <i>Melaleuca</i> sp., <i>Exocarpos aphyllus</i> open shrubland over <i>Microcybe multiflora</i> subsp. <i>multiflora</i>, <i>Dodonaea bursariifolia</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	

Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W05.5 (CAM17)</p> <p>Location: 755589 mE, 6452055 mN</p> <p>Soil and Topography: Light orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus</i> sp., <i>Santalum acuminatum</i> low open mallee woodland over <i>Melaleuca hamata</i>, <i>Acacia ?beauverdiana</i>, <i>Melaleuca acuminata</i> subsp. <i>acuminata</i> mid open shrubland over <i>Baeckea elderiana</i> low sparse heathland.</p> <p>Associated species: <i>Lepidosperma sanguinolentum</i></p> <p>Condition: Excellent</p>	
<p>Site: W09.5 (CAM18)</p> <p>Location: 753973 mE, 6452106 mN</p> <p>Soil and Topography: Pale orange sandy clay, flat</p> <p>Structural: <i>Eucalyptus griffithsii</i>, <i>Eucalyptus</i> sp. low open mallee woodland over <i>Melaleuca eleuterostachya</i>, <i>Melaleuca</i> spp. mid open shrubland over <i>Acacia merrallii</i> low sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	
<p>Site: W22.5 (CAM19)</p> <p>Location: 758312 mE, 6450709 mN</p> <p>Soil and Topography: Orange-brown sandy clay with ironstone pebbles, flat</p> <p>Structural: <i>Eucalyptus eremophila</i>, <i>Eucalyptus</i> spp. mid open mallee woodland over <i>Melaleuca lateriflora</i>, <i>Melaleuca eleuterostachya</i>, <i>Melaleuca halmaturorum</i> mid shrubland over <i>Dodonaea stenozyga</i> low sparse heathland.</p> <p>Associated species: <i>Exocarpos aphyllus</i></p> <p>Condition: Excellent</p>	
<p>Site: W08.5 (CAM20)</p> <p>Location: 758652 mE, 6448854 mN</p> <p>Soil and Topography: Light orange sandy clay with surface pebbles, flat</p> <p>Structural: <i>Eucalyptus</i> spp. low open mallee woodland over <i>Acacia ?beauverdiana</i>, <i>Allocasuarina acutivalvis</i>, <i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i> tall shrubland over <i>Melaleuca cordata</i>, <i>Baeckea elderiana</i>, <i>Drummondita hassellii</i> mid sparse heathland.</p> <p>Associated species: N/A</p> <p>Condition: Excellent</p>	

Appendix 2B (cont.)

Vegetation Description	Photograph
<p>Site: W10.5 (CAM21)</p> <p>Location: 757483 mE, 6447340 mN</p> <p>Soil and Topography: Pale orange sandy clay with some small laterite pebbles, flat</p> <p>Structural: <i>Eucalyptus ?polita</i> low open mallee woodland over <i>Allocasuarina acutivalvis</i>, <i>Hakea francisiana</i>, <i>Acacia ?beauverdiana</i> tall shrubland over <i>Darwinia</i> sp. Karonie (K. Newbey 8503), <i>Baeckea elderiana</i>, <i>Hibbertia exasperata</i> low sparse heathland.</p> <p>Associated species: <i>Melaleuca eleuterostachya</i>, <i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>, <i>Melaleuca hamata</i></p> <p>Condition: Excellent</p>	
<p>Site: W02.5 (CAM22)</p> <p>Location: 756879 mE, 6460002 mN</p> <p>Soil and Topography: Light orange-yellow sandy clay with laterite pebbles, flat</p> <p>Structural: <i>Eucalyptus burracoppinensis</i> low open mallee woodland over <i>Allocasuarina spinosissima</i>, <i>Acacia yorkrakinensis</i> subsp. <i>acrita</i>, <i>Melaleuca</i> sp. mid shrubland over <i>Drummondita hassellii</i>, <i>Verticordia plumosa</i> var. <i>brachyphylla</i>, <i>Melaleuca cordata</i> low open heathland.</p> <p>Associated species: <i>Petrophile stricta</i>, <i>Hakea erecta</i>, <i>Baeckea elderiana</i></p> <p>Condition: Excellent</p>	

Appendix 3. Frog Species Recorded or Potentially Occurring in the Study Areas

Key to records:

2016 / 2017 = species recorded in the study areas between October 2016 – February 2017 by Western Wildlife.

WAM = species records from the Western Australian Museum Database (see Table 1).

FSDB = species records from the Fauna Survey Database (see Table 1).

Jilbadji = species recorded in 1980 - 1981 in Jilbadji Nature Reserve (Keighery *et al.* 1995).

Flying Fox = species recorded at Flying Fox Mine in 2005 (Biota 2006).

Spotted Quoll + species recorded on the Spotted Quoll haul road in 2009 (Biota 2010).

DPAW = species records from the DPAW Threatened and Priority Species Database (see Table 1).

EPBC = species & species habitat from the EPBC Protected Matters Search Tool (see Table 1).

Species	Conservation status	Records						
		2016 / 2017	WAM	FSDB	Jilbadji	Flying Fox	Spotted Quoll	DPAW
Limnodynastidae (ground frogs)								
Western Spotted Frog <i>Heleioporus albopunctatus</i>								
Banjo Frog <i>Limnodynastes dorsalis</i>								
White-footed Trilling Frog <i>Neobatrachus albipes</i>				+				
Kunapalari Frog <i>Neobatrachus kunapalari</i>				+	+			
Humming Frog <i>Neobatrachus pelobatoides</i>			+					
Shoemaker Frog <i>Neobatrachus sutor</i>			+					
Myobatrachidae (ground frogs)								
Bleating Froglet <i>Crinia pseudinsignifera</i>			+	+				
Gunter's Toadlet <i>Pseudophryne guentheri</i>								
Western Toadlet <i>Pseudophryne occidentalis</i>		+	+		+			
Number of frog species expected:		9 (1 recorded)						

Appendix 4. Reptile Species Recorded or Potentially Occurring in the Study Areas

Key to records:

2016 / 2017 = species recorded in the study areas between October 2016 – February 2017 by Western Wildlife.

WAM = species records from the Western Australian Museum Database (see Table 1).

FSDB = species records from the Fauna Survey Database (see Table 1).

Jilbadji = species recorded in 1980 - 1981 in Jilbadji Nature Reserve (Keighery *et al.* 1995).

Flying Fox = species recorded at Flying Fox Mine in 2005 (Biota 2006).

Spotted Quoll + species recorded on the Spotted Quoll haul road in 2009 (Biota 2010).

DPAW = species records from the DPAW Threatened and Priority Species Database (see Table 1).

EPBC = species & species habitat from the EPBC Protected Matters Search Tool (see Table 1).

Species	Conservation status	Records							
		2016 / 2017	WAM	FSDB	Jilbadji	Flying Fox	Spotted Quoll	DPAW	EPBC
Carphodactylidae (knob-tailed geckoes)									
Spotted Knob-tail <i>Nephrurus stellatus</i>	CS3	+	+		+				
Southern Barking Gecko <i>Underwoodisaurus milii</i>		+	+		+		+		
Diplodactylidae (ground geckos)									
Clawless Gecko <i>Crenadactylus ocellatus</i>		+	+		+	+	+		
South Coast Gecko <i>Diplodactylus calcicolus</i>		+							
Wheatbelt Ground Gecko <i>Diplodactylus granariensis</i>		+	+		+	+	+		
					+	+			
Reticulated Velvet Gecko <i>Hesperoedura reticulata</i>		+	+		+	+			
Main's Gecko <i>Lucasium maini</i>		+	+		+	+	+		
Goldfield's Spiny-tailed Gecko <i>Strophurus assimilis</i>					+				
Western Spiny-tailed Gecko <i>Strophurus spinigerus</i>		+	+						
Gekkonidae (geckoes)									
Tree Dtella <i>Gehyra variegata</i>		+	+		+	+	+		
Bynoe's Gecko <i>Heteronotia binoei</i>					+				
Pygopodidae (legless-lizards)									
		+			+	+			
Fraser's Legless Lizard <i>Delma fraseri</i>		+	+			+	+		
Burton's Legless-Lizard <i>Lialis burtonis</i>						+	+		
Common Scaly-foot <i>Pygopus lepidopodus</i>		+				+			
Agamidae (dragon lizards)									
Eastern Heath Dragon <i>Ctenophorus chapmani</i>			+						
Crested Dragon <i>Ctenophorus cristatus</i>		+	+		+	+	+		
Ornate Crevice Dragon <i>Ctenophorus ornatus</i>			+						
Spotted Military Dragon <i>Ctenophorus maculatus</i>		+	+		+	+	+		
Salt Pan Dragon <i>Ctenophorus salinarum</i>		+	+		+				
Thorny Devil <i>Moloch horridus</i>		+			+	+			
Bearded Dragon <i>Pogona minor</i>		+	+		+	+	+		
Scincidae (skinks)									
Fence Skink <i>Cryptoblepharus buchananii</i>		+	+		+	+	+		
		+	+		+				
Odd-striped Ctenotus <i>Ctenotus impar</i>		+	+			+			
		+							
		+			+	+	+		
		+			+				

Appendix 4. (cont.)

Species	Conservation status	Records							
		2016 / 2017	WA Museum	FSDB	Jilbadji	Flying Fox	Spotted Quoll	DPAW	EPBC
Scincidae (cont.)									
Slender Blue-tongue	<i>Cyclodomorphus melanops</i>		+		+				
	<i>Egernia richardi</i>	+	+		+	+			
	<i>Hemiernis initialis</i>	+			+	+	+		
	<i>Lerista distinguenda</i>	+					+		
	<i>Lerista kingi</i>	+			?				
	<i>Lerista picturata</i>				+	+	+		
	<i>Lerista timida</i>				?				
Desert Skink	<i>Liopholis inornata</i>		+						
	<i>Liopholis multiscutata</i>	+							
Dwarf Skink	<i>Menetia greyii</i>	+			+				
	<i>Morethia butleri</i>	+			+				
Dusky Morethia	<i>Morethia obscura</i>	+	+		+	+	+		
Western Blue-tongue	<i>Tiliqua occipitalis</i>	+			+				
Bobtail	<i>Tiliqua rugosa</i>	+				+	+		
Varanidae (monitor-lizards)									
Gould's Monitor	<i>Varanus gouldii</i>	+	+		+		+		
Southern Heath Monitor	<i>Varanus rosenbergi</i>	+							
Black-tailed Tree Monitor	<i>Varanus tristis</i>								
Pythonidae (Australian pythons)									
Stimson's Python	<i>Antaresia stimsoni</i>								
Woma	<i>Aspidites ramsayi</i>	CS2	+					+	
Carpet Python	<i>Morelia spilota</i>								
Typhlopidae (blind-snakes)									
Southern Blind Snake	<i>Anilius australis</i>	+				+	+		
Dark-spined Blind Snake	<i>Anilius bicolor</i>								
Prong-snouted Blind Snake	<i>Anilius bituberculatus</i>								
	<i>Anilius hamatus</i>								
	<i>Anilius waitii</i>								
Elapidae (front-fanged snakes)									
Southern Shovel-nosed Snake	<i>Brachyuropsis semifasciatus</i>				+				
Bardick	<i>Echiopsis curta</i>								
Black-naped Snake	<i>Neelaps bimaculatus</i>								
Lake Cronin Snake	<i>Paroplocephalus atriceps</i>	CS2	+					+	
Gould's Hooded Snake	<i>Parasuta gouldii</i>		+			+			
Black-backed Snake	<i>Parasuta nigriceps</i>					+			
Mulga Snake	<i>Pseudechis australis</i>								
Dugite	<i>Pseudonaja affinis</i>	+				+	+		
Ringed Brown Snake	<i>Pseudonaja modesta</i>								
Gwardar / Western Brown Snake	<i>Pseudonaja mengdeni</i>		+						
Jan's Banded Snake	<i>Simoselaps bertholdi</i>	+				+	+		
Rosen's Snake	<i>Suta fasciata</i>				+				
Number of reptile species (recorded on site 2016/2017):		67 (38 recorded)							

Appendix 5. Bird Species Recorded or Potentially Occurring in the Study Areas

Key to records:

2016 / 2017 = species recorded in the study areas between October 2016 – February 2017 by Western Wildlife.

Birds Aust. = species records from the Birds Australia Atlas Database (see Table 1).

WAM = species records from the Western Australian Museum Database (see Table 1).

FSDB = species records from the Fauna Survey Database (see Table 1).

Jilbadji = species recorded in 1980 - 1981 in Jilbadji Nature Reserve (Keighery *et al.* 1995).

Flying Fox = species recorded at Flying Fox Mine in 2005 (Biota 2006).

Spotted Quoll + species recorded on the Spotted Quoll haul road in 2009 (Biota 2010).

DPAW = species records from the DPAW Threatened and Priority Species Database (see Table 1).

EPBC = species & species habitat from the EPBC Protected Matters Search Tool (see Table 1).

Species	Conservation status	Records								
		2016 / 2017	Birds Aust.	WA Museum	FSDB	Jilbadji	Flying Fox	Spotted Quoll	DPAW	EPBC
Dromaiidae (emus) Emu <i>Dromaius novaehollandiae</i>		+	+		+	+	+	+		
Anatidae (ducks, pygmy-geese & swan) Grey Teal <i>Anas gracilis</i>		+								
Megapodiidae (mound-builders) Malleefowl <i>Leipoa ocellata</i>	CS1	+	+		+	+		+	+	+
Phasianidae (pheasants and quails) Stubble Quail <i>Coturnix pectoralis</i>										
Accipitridae (kites, hawks and eagles) Black-shouldered Kite <i>Elanus caeruleus</i> Square-tailed Kite <i>Hamiostra isura</i> Whistling Kite <i>Haliastur sphenurus</i> Spotted Harrier <i>Circus assimilis</i> Brown Goshawk <i>Accipiter fasciatus</i> Collared Sparrowhawk <i>Accipiter cirrocephalus</i> Wedge-tailed Eagle <i>Aquila audax</i> Little Eagle <i>Hieraaetus morphnoides</i>										
Turnicidae (button-quails) Painted Button-quail <i>Turnix varia</i> Little Button-quail <i>Turnix velox</i>		+							+	
Charadriidae (lapwings and plovers) Banded Lapwing <i>Vanellus tricolor</i>										
Columbidae (pigeons and doves) Common Bronzewing <i>Phaps chalcoptera</i> Brush Bronzewing <i>Phaps elegans</i> Crested Pigeon <i>Ocyphaps lophotes</i>		+	+		+			+	+	
Cuculidae (cuckoos) Pallid Cuckoo <i>Cacomantis pallidus</i> Fan-tailed Cuckoo <i>Cacomantis flabelliformis</i> Black-eared Cuckoo <i>Chrysococcyx osculans</i> Horsfield's Bronze-Cuckoo <i>Chrysococcyx basalis</i>										
Tytonidae (barn owls) Eastern Barn Owl <i>Tyto alba</i>										
Strigidae (hawk-owls) Southern Boobook Owl <i>Ninox boobook</i>										

Appendix 5. (cont.)

Species	Conservation status	Records								
		2016 / 2017	Birds Aust.	WA Museum	FSDB	Jilbadji	Flying Fox	Spotted Quoll	DPAW	EPBC
Podargidae (frogmouths)										
Tawny Frogmouth <i>Podargus strigoides</i>		+					+			
Caprimulgidae (nightjars)										
Spotted Nightjar <i>Eurostopodus argus</i>		+	+			+				
Aegothelidae (owlet-nightjars)										
Australian Owlet-Nightjar <i>Aegotheles cristatus</i>			+			+	+			
Apodidae (swifts)										
Fork-tailed Swift <i>Apus pacificus</i>	CS1								+	+
Alcedinidae (forest kingfishers)										
Red-backed Kingfisher <i>Todiramphus pyrrhopygius</i>						+				
Sacred Kingfisher <i>Todiramphus sanctus</i>			+							
Meropidae (bee-eaters)										
Rainbow Bee-eater <i>Merops ornatus</i>	CS1	+	+			+	+		+	+
Falconidae (falcons)										
Peregrine Falcon <i>Falco peregrinus</i>	CS1	+	+			+			+	
Australian Hobby <i>Falco longipennis</i>										
Brown Falcon <i>Falco berigora</i>		+					+			
Australian Kestrel <i>Falco cenchroides</i>			+				+			
Cacatuidae (cockatoos)										
Carnaby's Black-Cockatoo <i>Calyptorhynchus latirostris</i>	CS1						+	+	+	
Galah <i>Cacatua roseicapilla</i>			+				+			
Psittacidae (lorikeets & parrots)										
Purple-crowned Lorikeet <i>Parvipsitta porphyrocephala</i>		+			+	+	+			
Regent Parrot <i>Polytelis anthopeplus</i>		+	+			+	+	+		
Australian Ringneck <i>Platycercus zonarius</i>		+	+			+	+	+		
Western Rosella <i>Platycercus icterotis</i>	CS2	+	+			+	+		+	
Mulga Parrot <i>Platycercus varius</i>		+	+					+		
Elegant Parrot <i>Neophema elegans</i>		+	+				+	+		
Climacteridae (treecreepers)										
Rufous Treecreeper <i>Climacteris rufus</i>		+				+	+			
Maluridae (fairy-wrens)										
Splendid Fairy-wren <i>Malurus splendens</i>										
Blue-breasted Fairy-wren <i>Malurus pulcherrimus</i>		+	+		+	+	+	+		
White-winged Fairy-wren <i>Malurus leucopterus</i>										
Meliphagidae (honeyeaters)										
Red Wattlebird <i>Anthochaera carunculata</i>		+	+		+	+	+	+		
Spiny-cheeked Honeyeater <i>Acanthagenys rufogularis</i>		+	+		+	+	+			
Yellow-throated Miner <i>Manorina flavigula</i>		+	+				+			
Purple-gaped Honeyeater <i>Lichenostomus cratitius</i>		+		+	+		+			
Singing Honeyeater <i>Gavicalis virescens</i>		+			+		+	+		
White-eared Honeyeater <i>Lichenostomus leucotis</i>		+			+	+	+	+		
Yellow-plumed Honeyeater <i>Ptilotula ornata</i>		+				+	+	+		
Brown-headed Honeyeater <i>Melithreptus brevirostris</i>		+	+		+	+	+	+		
Brown Honeyeater <i>Lichmera indistincta</i>		+	+		+		+	+		
New Holland Honeyeater <i>Phylidonyris novaehollandiae</i>			+							

Appendix 5. (cont.)

Species	Conservation status	Records								
		2016 / 2017	Birds Aust.	WA Museum	FSDB	Jilbadji	Flying Fox	Spotted Quoll	DPAW	EPBC
Meliphagidae (honeyeaters)										
White-fronted Honeyeater <i>Purnella albifrons</i>		+	+		+	+	+	+		
Tawny-crowned Honeyeater <i>Glyciphila melanops</i>		+			+	+	+			
Pied Honeyeater <i>Certhionyx variegatus</i>						+				
White-fronted Chat <i>Epthianura albifrons</i>						+				
Pardalotidae (pardalotes)										
Spotted Pardalote <i>Pardalotus punctatus</i>		+	+					+	+	
Striated Pardalote <i>Pardalotus striatus</i>		+	+				+	+		
Acanthizidae (thornbills, gerygones & allies)										
White-browed Scrubwren <i>Sericornis frontalis</i>		+								
Shy Heathwren <i>Calamanthus cautus</i>		+						+	+	
Redthroat <i>Pyrholaemus brunneus</i>		+	+			+	+	+		
Weebill <i>Smicromis brevirostris</i>		+	+		+	+	+	+		
Western Gerygone <i>Gerygone fusca</i>										
Inland Thornbill <i>Acanthiza apicalis</i>		+	+		+	+	+	+		
Chestnut-rumped Thornbill <i>Acanthiza uropygialis</i>			+			+				
Yellow-rumped Thornbill <i>Acanthiza chrysorrhoa</i>		+				+	+			
Pomatostomidae (Australian babblers)										
White-browed Babbler <i>Pomatostomus superciliosus</i>		+	+				+	+	+	
Psophodidae (whipbirds, wedgebills and quail-thrush)										
Chestnut (Copper-back) Quail-Thrush <i>Cinlosoma clarum</i>		+			+	+	+			
Artamidae (woodswallows)										
Masked Woodswallow <i>Artamus personatus</i>							+			
Black-faced Woodswallow <i>Artamus cinereus</i>					+	+	+			
Dusky Woodswallow <i>Artamus cyanopterus</i>		+	+				+	+		
Cracticidae (butcherbirds, currawongs & magpie)										
Grey Butcherbird <i>Cracticus torquatus</i>		+	+				+	+	+	
Pied Butcherbird <i>Cracticus nigrogularis</i>							+	+		
Australian Magpie <i>Cracticus tibicen</i>								+		
Grey Currawong <i>Strepera versicolor</i>		+	+		+	+	+	+	+	
Campephagidae (cuckoo-shrikes and trillers)										
Ground Cuckoo-shrike <i>Coracina maxima</i>										
Black-faced Cuckoo-shrike <i>Coracina novaehollandiae</i>		+	+		+	+	+	+		
White-winged Triller <i>Lalage tricolor</i>		+						+		
Neosittidae (sittellas)										
Varied Sittella <i>Daphoenositta chrysoptera</i>		+	+				+			
Oreoicidae (bellbird)										
Crested Bellbird <i>Oreoica gutturalis</i>		+			+	+	+	+		
Pachycephalidae (whistlers)										
Crested Shrike-tit <i>Falcunculus frontatus</i>										
Gilbert's Whistler <i>Pachycephala inornata</i>		+					+			
Western Golden Whistler <i>Pachycephala occidentalis</i>		+					+	+	+	
Rufous Whistler <i>Pachycephala rufiventris</i>		+	+				+	+	+	
Grey Shrike-thrush <i>Colluricincla harmonica</i>		+	+		+	+	+	+	+	

Appendix 5. (cont.)

Species	Conservation status	Records								
		2016 / 2017	Birds Aust.	WA Museum	FSDB	Jilbadji	Flying Fox	Spotted Quoll	DPAW	EPBC
Rhipiduridae (wagtails and fantails)										
Grey Fantail <i>Rhipidura albiscapa</i>			+			+	+			
Willie Wagtail <i>Rhipidura leucophrys</i>		+	+			+	+			
Monarchidae (monarchs and flycatchers)										
Magpie-lark <i>Grallina cyanoleuca</i>								+		
Restless Flycatcher <i>Myiagra inquieta</i>		+								
Corvidae (ravens and crows)										
Australian Raven <i>Corvus coronoides</i>		+	+					+	+	
Little Crow <i>Corvus bennetti</i>										
Petroicidae (Australian robins)										
Jacky Winter <i>Microeca fascians</i>		+	+			+	+	+		
Hooded Robin <i>Melanodryas cucullata</i>		+	+							
Red-capped Robin <i>Petroica goodenovii</i>		+	+			+		+		
Western Yellow Robin <i>Eopsaltria australis griseogularis</i>		+			+	+	+	+		
Southern Scrub-robin <i>Drymodes brunneopygia</i>		+	+		+	+	+	+		
Hirundinidae (swallows)										
White-backed Swallow <i>Cheramoeca leucosterna</i>		+	+							
Welcome Swallow <i>Hirundo neoxena</i>		+								
Tree Martin <i>Petrochelidon nigricans</i>		+	+		+	+	+			
Locustellidae (Old World warblers, songlarks & grassbirds)										
Rufous Songlark <i>Megalurus mathewsi</i>										
Zosteropidae (white-eyes)										
Silvereeye <i>Zosterops lateralis</i>			+					+		
Dicaeidae (flower-peckers)										
Mistletoebird <i>Dicaeum hirundinaceum</i>		+				+				
Motacillidae (pipits and true wagtails)										
Australian Pipit <i>Anthus australis</i>		+				+		+		
Number of bird species (recorded on site in 2016/2017):		108 (70 recorded)								

Appendix 6. Mammal Species Recorded or Potentially Occurring in the Study Areas

Key to records:

2016 / 2017 = species recorded in the study areas between October 2016 – February 2017 by Western Wildlife.

WAM = species records from the Western Australian Museum Database (see Table 1).

FSDB = species records from the Fauna Survey Database (see Table 1).

Jilbadji = species recorded in 1980 - 1981 in Jilbadji Nature Reserve (Keighery *et al.* 1995).

Flying Fox = species recorded at Flying Fox Mine in 2005 (Biota 2006).

Spotted Quoll + species recorded on the Spotted Quoll haul road in 2009 (Biota 2010).

DPAW = species records from the DPAW Threatened and Priority Species Database (see Table 1).

EPBC = species & species habitat from the EPBC Protected Matters Search Tool (see Table 1).

Int. = introduced species.

Species	Conservation status	Records							
		2016 surveys	WAM	FSDB	Jilbadji	Flying Fox	Spotted Quoll	DPAW	EPBC
Tachyglossidae (echidnas)									
Echidna <i>Tachyglossus aculeatus</i>		+			+				
Dasyuridae (carnivorous marsupials)									
Chuditch <i>Dasyurus geoffroii</i>	CS1	+				+	+	+	
Southern Ningau <i>Ningau yvonneae</i>		+			+				
Red-tailed Phascogale <i>Phascogale calura</i>	CS1							+	
Fat-tailed Dunnart <i>Sminthopsis crassicaudata</i>									
Little Long-tailed Dunnart <i>Sminthopsis dolichura</i>		+			+				
Gilbert's Dunnart <i>Sminthopsis gilberti</i>		+				+	+		
White-tailed Dunnart <i>Sminthopsis granulipes</i>		+			+	+	+		
Ooldea Dunnart <i>Sminopsis ooldea</i>		+							
Burramyidae (pygmy possums)									
Western Pygmy Possum <i>Cercartetus concinnus</i>		+			+	+	+		
Macropodidae (kangaroos and wallabies)									
Euro <i>Macropus robustus</i>									
Western Brush Wallaby <i>Macropus irma</i>	CS2	+				+		+	
Western Grey Kangaroo <i>Macropus fuliginosus</i>		+	+		+	+	+		
Muridae (rodents)									
House Mouse <i>Mus musculus</i>	Int.	+			+	+	+		
Mitchell's Hopping-Mouse <i>Notomys mitchellii</i>		+			+	+	+		
Bolam's Mouse <i>Pseudomys bolami</i>					+				
Ash-grey Mouse <i>Pseudomys albocinereus</i>		+				+	+		
Sandy Inland Mouse <i>Pseudomys hermannsburgensis</i>					+				
Molossidae (free-tailed bats)									
White-striped Free-tailed Bat <i>Austronomus australis</i>		+			+	+			
Western Free-tailed Bat <i>Ozimops kitcheneri</i>		+			+				
Inland Free-tailed Bat <i>Ozimops petersi</i>									
Vespertilionidae (evening bats)									
Gould's Wattled Bat <i>Chalinolobus gouldii</i>		+			+	+			
Chocolate Wattled Bat <i>Chalinolobus morio</i>					+	+			
Lesser Long-eared Bat <i>Nyctophilus geoffroyi</i>					+				
Central Long-eared Bat <i>Nyctophilus major tor</i>	CS2				+				
Inland Broad-nosed Bat <i>Scotorepens balstoni</i>		+							
Inland Forest Bat <i>Vespadelus baverstocki</i>		+							
Southern Forest Bat <i>Vespadelus regulus</i>		+	+		+				

Appendix 6. (cont.)

Species	Conservation status	Records							
		2016 surveys	WAM	FSDB	Jilbadji	Flying Fox	Spotted Quoll	DPAW	EPBC
Canidae (dogs and foxes)									
Dingo / Dog	<i>Canis dingo/lupus</i>	Int.	+						
Fox	<i>Vulpes vulpes</i>	Int.	+	+			+		
Felidae (cats)									
Feral Cat	<i>Felis catus</i>	Int.	+	+		+	+		
Leporidae (rabbits)									
European Rabbit	<i>Oryctolagus cuniculus</i>	Int.	+		+	+	+		
Number of mammal species (recorded on site in 2016):		32 (23 recorded)							

Appendix 7. EPBC Act Protected Matters Search Tool Results

Species listed for the area within a 30km radius of 32°05'37"S, 119°44'53"E.

Species	Status	Author's Comment
Curlew Sandpiper <i>Calidris ferruginea</i>	Critically Endangered & Migratory	Unlikely to occur on site - lack of suitable habitat.
Carnaby's Black-Cockatoo <i>Calyptorhynchus latirostris</i>	Endangered	Low likelihood of occurrence - study area on or beyond eastern edge of the range of this species.
Malleefowl <i>Leipoa ocellata</i>	Vulnerable & Migratory	Known to occur in the study area.
Night Parrot <i>Pezoporus occidentalis</i>	Endangered	Unlikely to occur on site - lack of suitable habitat.
Chuditch <i>Dasyurus geoffroii</i>	Vulnerable	Known to occur in the study area.
Red-tailed Phascogale <i>Phascogale calura</i>	Vulnerable	Low likelihood of occurrence - lack of favoured habitat types.
Fork-tailed Swift <i>Apus pacificus</i>	Migratory (marine)	May overfly site.
Grey Wagtail <i>Motacilla cinerea</i>	Migratory (terrestrial)	Unlikely to occur on site - lack of suitable habitat.

Appendix 8. DPAW Threatened and Priority Fauna Database Results

Species listed for the area within a 90km radius of 759300 E, 6448700 N (Zone 50).

Key to Method: Sight. = sighting, DS = day sighting, NS = night sighting, DuS = Dusk sighting, DaS = Dawn sighting, Hist. = historical record, Spec. = specimen, Obs. = observational, C/T = caught or trapped, ? = unknown.

Certainty	Method	Count	Locality	Site	Year
Aganippe castellum - Tree-stem Trapdoor Spider					Priority 4
WAM	Spec.	1	Marvel Loch		2007
Certain	DS	6	Skeleton Rock	Skeleton Rocks access road east, between Dunbar Rd and King Ingrahm Rd.	2009
Certain	DS	2	Skeleton Rock	Skeleton Rocks east access track, between Dunbar Rd and King Ingrahm Rd.	2009
Apus pacificus - Fork-tailed Swift					Schedule 5 (Migratory Birds listed under International Agreement)
Certain	Hist.	1	Forrestania	Site details not provided, unable to verify coordinates.	1976
Certain	Hist.	50	Forrestania	Site details not provided, unable to verify coordinates.	1996
Certain	Hist.	30	Forrestania	Site details not provided, unable to verify coordinates.	1996
Certain	Hist.	30	Forrestania	Site details not provided, unable to verify coordinates.	1996
Certain	Hist.	30	Forrestania	Site details not provided, unable to verify coordinates.	1996
Aspidites ramsayi (southwest subpop.) – Woma					Priority 1
WAM	Spec.	1	Ghooli	YELLOWDINE	0
WAM	Spec.	1	Ghooli	YELLOWDINE	0
WAM	Spec.	1	Marvel Loch	MARVEL LOCH	0
WAM	Spec.	1	Yellowdine	KARALEE	0
Calidris acuminata - Sharp-tailed Sandpiper					Schedule 5 (Birds listed under International Agreement)
WAM	Spec.	1	Forrestania	Lake Cronin, 2 km N of; Saltlake	1978
Moderately	Obs	1	Forrestania		1978
Calyptorhynchus baudinii - Baudin's Black-Cockatoo					Schedule 2 (Endangered)
Moderately	Obs	1	Forrestania		1977
Moderately	Obs	1	Forrestania		1978
Moderately	Obs	1	Forrestania		1979
Moderately	Obs	1	Forrestania		1979
Moderately	Obs	1	Forrestania		1981
Moderately	Obs	1	Forrestania		1981
Moderately	Obs	1	Hyden		1980
Moderately	Obs	1	West Holleton		1978
Calyptorhynchus latirostris - Carnaby's Black-Cockatoo					Schedule 2 (Endangered)
Certain	?	0	Forrestania	Lake Cronin	1979
Certain	?	0	Forrestania	Emu Rock	1981
Certain	DS	2	Forrestania	25 km W Forrestania Cross Roads	1983
Moderately	Obs	1	Forrestania	Forrestania Mine	2000
Certain	DS	6	Forrestania	Flying Fox nickel sulphide box cut mine East Hyden. FR12	2005
Moderately	Obs.	1	Forrestania	Forrestiana Plot	2006
Certain	C/T	20	Forrestania	DR06 - Diggers South nickel sulphide mine, east of Hyden	2006
Certain	C/T	3	Forrestania	DR10 - Diggers South nickel sulphide mine, east of Hyden	2006
Certain	survey	3	Forrestania	Forrestania, SQH04	2009
Certain	survey	2	Forrestania	Forrestiana, FNO/17 - sighting	2015
Certain	survey	4	Forrestania	Forrestiana, FNO/21 - sighting	2015
Certain	survey	0	Forrestania	Forrestiana, FNO/18 - heard calls	2015
Certain	survey	1	Forrestania	Forrestiana, FNO/16 - sighting	2015
Certain	survey	2	Forrestania	Forrestiana, FNO/20 - sighting	2015

Appendix 8. (cont.)

Certainty	Method	Count	Locality	Site	Year
			<i>Calyptorhynchus latirostris</i> - Carnaby's Black-Cockatoo		
			Schedule 2 (Endangered)		
Certain	survey	1	Forrestania	Forrestiana, FNO/14 - sighting	2015
Certain	survey	2	Forrestania	Forrestiana, FNO/22 - sighting	2015
Certain	survey	0	Forrestania	Forrestiana, FNO/23 - heard calls	2015
Certain	survey	6	Forrestania	Forrestiana, FNO/24 - sighting	2015
Certain	survey	4	Forrestania	Forrestiana, FNO/25 - sighting	2015
Certain	survey	2	Forrestania	Forrestiana, FNO/26 - sighting	2015
Certain	survey	10	Forrestania	Forrestiana, FNO/15 - sighting	2015
Certain	survey	4	Forrestania	Forrestiana, FNO/19 - sighting	2015
Certain	Sight.	2	Forrestania	Flying Fox	2016
Certain	survey	6	Forrestania	Forrestiana, FNO/30 - sighting	2016
Certain	Sight.	6	Forrestania	Internal Haul Road	2016
Certain	Sight.	2	Forrestania	Cosmic Boy	2016
Certain	Signs	2	Forrestania	Cosmic Boy	2016
Certain	Sight.	10	Forrestania	Cosmic Boy	2016
Certain	Sight.	1	Forrestania	Cosmic Boy	2016
Certain	survey	2	Forrestania	Forrestiana, FNO/28 - heard calls	2016
Certain	survey	10	Forrestania	Forrestiana, FNO/29 - sighting	2016
Certain	Sight.	2	Forrestania	South Ironcap	2016
Certain	survey	2	Forrestania	Forrestiana, FNO/27 - sighting	2016
Certain	DS	0	Hatter Hill	Hatters Hill	1938
Certain	DS	2	Hatter Hill	Road verge within UCL, Hatter Hill	2015
Certain	DS	0	Hyden	Lake O'Connor Road, East Hyden Road	2007
Certain	C/T	4	Varley	DR07 - Diggers South nickel sulphide mine, east of Hyden	2006
Certain	DS	12	West Holleton	S of Gibb Rock	1969
			<i>Charadrius rubricollis</i> - Hooded Plover		
			Priority 4		
Moderately	survey	1	Holt Rock	SPS019	1998
			<i>Daphnia jollyi</i> – a waterflea		
			Priority 1		
Moderately	survey	1	Dulyalbin		1997
Certain	?	0	Dulyalbin	Frog Rock	1997
Certain	survey	1	Hyden	Wheatbelt, King_rocks	2010
Certain	survey	1	Hyden	Wheatbelt, Wheeler_Rock	2010
Certain	C/T	0	Marvel Loch	Granite rock pool on Strawberry Rocks	1992
Certain	C/T	0	Moorine Rock	Jilbadgie Rocks	1990
Certain	C/T	0	Mount Hampton	Mt Hampton	1990
Certain	survey	1	Woolocutty	Wheatbelt, Twine_Rock	2010
			<i>Dasyurus geoffroi</i> – Chuditch		
			Schedule 3 (Vulnerable)		
Certain	C/T	1	Forrestania	Flying Fox nickel sulphide box cut mine East Hyden.FR13	2005
Certain	Dead	1	Forrestania	on the Hyden - Norseman track near the State barrier fence	2009
Certain	C/T	1	Forrestania	On the Hyden-Norseman track near State barrier fence	2009
Certain	Dead	1	Forrestania	Hyden-Norseman track near the state barrier fence (vermin proof fence)	2009
Certain	survey	1	Forrestania	Forrestania, SQH10C	2009
Certain	survey	1	Forrestania	Forrestania, SQH10C	2009
Certain	Dead	1	Forrestania	Cosmic Boy between the Village and Concentrator	2010
Certain	Dead	1	Forrestania		2011
Certain	DS	1	Forrestania	Outside habitation block K18	2011
Certain	Dead	1	Forrestania		2011

Appendix 8. (cont.)

Certainty	Method	Count	Locality	Site	Year
<i>Dasyurus geoffroi</i> – Chuditch			Schedule 3 (Vulnerable)		
Certain	survey	1	Forrestania	Forrestiana, FNO/39 - sighting	2016
Certain	Sight.	1	Forrestania	Lounge Lizard	2016
Certain	DS	1	Forrestania	U Row	2016
Certain	Sight.	1	Forrestania	Cosmic Boy	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/33 - sighting	2016
Certain	DS	1	Forrestania	T Row	2016
Certain	Sight.	1	Forrestania	Cosmic Boy	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/32 - sighting	2016
Certain	DS	1	Forrestania	outside Recreation Room in Camp	2016
Certain	Sight.	1	Forrestania	Cosmic Boy	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/34 - sighting	2016
Certain	DuS	1	Forrestania	Action Office	2016
Certain	Sight.	1	Forrestania	Cosmic Boy	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/35 - sighting	2016
Certain	DS	1	Forrestania	Cosmic Boy Carpark near Training Room	2016
Certain	Sight.	1	Forrestania	Cosmic Boy	2016
Certain	Sight.	1	Forrestania	Cosmic Boy	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/37 - sighting	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/38 - sighting	2016
Certain	DaS	1	Forrestania	Camp Road	2016
Certain	Sight.	1	Forrestania	Cosmic Boy	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/36 - sighting	2016
Certain	DS	1	Forrestania	Camp - Mill Road	2016
Certain	Sight.	1	Forrestania	Cosmic Boy	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/31 - sighting	2016
Certain	Dead	2	Hyden	East of Hyden, near Kings Rock.	1985
WAM	Spec.	1	West Holleton		1976
Moderately	NS	1	Yellowdine	Site of former Karalee Tavern.	1994
<i>Falco peregrinus</i> - Peregrine Falcon			Schedule 7 (Other Specially Protected Fauna)		
Moderately	Obs.	1	Forrestania		1981
Certain	DS	1	Forrestania	Lake Cronin	1991
Moderately	Obs.	1	Forrestania	Salmon Gums	1998
Moderately	Obs.	1	Forrestania	Vermin proof fence, Carstairs Road	1999
Moderately	Obs.	1	Holleton	Holleton track	2004
Moderately	Obs.	1	Hyden		1981
Moderately	Obs.	1	Hyden	Emu Rocks	2002
Moderately	Obs.	1	Norseman	Windy Hill camp	2004
<i>Leipoa ocellata</i> – Malleefowl			Schedule 3 (Vulnerable)		
Moderately	Obs.	1	Dulyalbin	Southern Cross Sth Road	2003
Moderately	Obs.	1	Dulyalbin	Frog Rock	2007
Moderately	Obs.	1	Forrestania		1978
Moderately	Obs.	1	Forrestania		1978
Moderately	Obs.	1	Forrestania		1978
Moderately	Obs.	1	Forrestania		1979
Moderately	Obs.	1	Forrestania	Holland Track	2000
Certain	Signs	0	Forrestania	200m from proposed pipeline	2006
Certain	DS	1	Forrestania	Marvel Loch Forrestania Road, N of South Ironcap Hill.	2006
Certain	C/T	1	Forrestania	DR02 - Diggers South nickel sulphide mine, E of Hyden	2006
Certain	survey	1	Forrestania	Forrestiana, FNO/4 - sighting	2015

Appendix 8. (cont.)

Certainty	Method	Count	Locality	Site	Year
			Schedule 3 (Vulnerable)		
<i>Leipoa ocellata</i> – Malleefowl					
Certain	survey	1	Forrestania	Forrestiana, FNO/3 - sighting	2015
Certain	survey	1	Forrestania	Forrestiana, FNO/5 - sighting	2015
Certain	survey	1	Forrestania	Forrestiana, FNO/0 - sighting	2015
Certain	survey	1	Forrestania	Forrestiana, FNO/1 - sighting	2015
Certain	survey	1	Forrestania	Forrestiana, FNO/2 - sighting	2015
Certain	survey	0	Forrestania	Forrestiana, FNO-708 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-682 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-669 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-692 - inactive mound	2016
Moderately	Sight.	1	Forrestania	Flying fox-Spotted quoll Haul Road, near Loung Lizard Waste Dump	2016
Not sure	Sight.	1	Forrestania	Flying Fox	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/6 - sighting	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-662 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-689 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-641 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-696 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-688 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-671 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-626 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-672 - inactive mound	2016
Certain	DS	1	Forrestania	Station 16 Pipeline Rd	2016
Certain	Sight.	1	Forrestania	Sibeliuss	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/7 - sighting	2016
Certain	DS	1	Forrestania	Corner of SB25 on Pipeline Rd	2016
Certain	Sight.	1	Forrestania	Sibeliuss	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/8 - sighting	2016
Certain	survey	1	Forrestania	Forrestiana, SB-25 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-663 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-638 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-683 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-620 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-621 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-618 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-617 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-631 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-687 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-636 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-697 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-694 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-632 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-675 - inactive mound	2016
Certain	DS	1	Forrestania	Corner of 14 Pipeline Rd	2016
Certain	Sight.	1	Forrestania	Sibeliuss	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/9 - sighting	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-674 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-664 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-693 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-695 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-665 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-634 - inactive mound	2016

Appendix 8. (cont.)

Certainty	Method	Count	Locality	Site	Year
Leipoa ocellata – Malleefowl			Schedule 3 (Vulnerable)		
Certain	survey	0	Forrestania	Forrestiana, FNO-703 - inactive mound	2016
Certain	DS	1	Forrestania	Internal Haul Rd	2016
Certain	Sight.	1	Forrestania	Internal Haul Road	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/11 - sighting	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-635 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-676 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-681 - inactive mound	2016
Certain	Sighti.	1	Forrestania	Cosmic Boy	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-622 - active mound	2016
Certain	survey	1	Forrestania	Forrestiana, FNO-625 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-627 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-600 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-667 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-680 - inactive mound	2016
Certain	DS	2	Forrestania	CB Haul Rd	2016
Certain	Sight.	2	Forrestania	Cosmic Boy	2016
Certain	survey	2	Forrestania	Forrestiana, FNO/10 - sighting	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-670 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-623 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-608 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-686 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-684 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-624 - inactive mound	2016
Certain	Sight.	1	Forrestania	Cosmic Boy	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/13 - sighting	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-619 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-602 - active mound	2016
Certain	survey	1	Forrestania	Forrestiana, FNO/12 - sighting	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-614 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-610 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-637 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-677 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-678 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-673 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-628 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-700 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-710 - active mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-630 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-629 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-707 - inactive mound	2016
Certain	survey	0	Forrestania	Forrestiana, FNO-690 - inactive mound	2016
Certain	survey	0	Hatter Hill	Forrestiana, FNO-691 - inactive mound	2016
Moderately	Obs.	1	Holleton	track	2004
Moderately	Obs.	1	Holleton	Holleton	2004
Moderately	Obs.	1	Holleton	Old Holleton Townsite	2004
Moderately	Obs.	1	Holleton	Holleton Block	2009
Moderately	Obs.	1	Holleton	Old Holleton Townsite	2009
Moderately	Obs.	1	Holleton	Holleton Block Dam	2010
Moderately	Obs.	1	Holleton	Old Holleton Townsite	2010
Moderately	Obs.	1	Holleton	Holleton Road	2010

Appendix 8. (cont.)

Certainty	Method	Count	Locality	Site	Year
<i>Leipoa ocellata</i> – Malleefowl			Schedule 3 (Vulnerable)		
Moderately	Obs.	1	Holleton	Holleton Road	2010
Moderately	Obs.	1	Hyden		1977
Moderately	Obs.	1	Hyden		1977
Certain	DS	1	Hyden	1.2km W of Graham Rock T/O on Hyden-Norseman Rd	1993
Certain	DS	2	Hyden	Unnamed Nature Reserve 400m NE of the intersection of Sedgewick Rd and Woolocutty Rd	1994
Certain	DS	2	Hyden	Unnamed Nature Reserve at intersection of Sedgewick Rd and Woolocutty Rd	1994
Moderately	Obs.	1	Hyden	Lake King - Hyden Road	1999
Moderately	Obs.	1	Hyden	Lake King - Hyden Road	2001
Moderately	Obs.	1	Hyden	Hyden - Lake King Road	2002
Moderately	Obs.	1	Marvel Loch		1978
Moderately	Obs.	1	Marvel Loch		1980
Moderately	Obs.	1	Marvel Loch	Frog Rock Reserve	2001
Certain	DS	1	Marvel Loch	Southern Cornishman area	2007
Certain	DS	1	Marvel Loch	Parker Rd, ~5.5km NW of Marvel Loch-Forrestania Rd intersection	2008
Certain	DS	2	Mount Hampton	50km S of Moorine Rock	1995
Moderately	Obs.	1	Mount Hampton	Neendojer Rocks Nature Reserve	2002
Moderately	Obs.	1	Mount Hampton	Nr Int N Moorine and Menzie Rd	2006
Certain	survey	0	Mount Holland	Forrestiana, FNO-717 - inactive mound	2016
Certain	survey	0	Mount Holland	Forrestiana, FNO-705 - inactive mound	2016
Certain	survey	0	Mount Holland	Forrestiana, FNO-706 - inactive mound	2016
Certain	survey	0	Mount Holland	Forrestiana, FNO-704 - inactive mound	2016
Moderately	Obs.	1	Norseman		1979
Moderately	Obs.	1	Norseman	Holland Track	1998
Certain	survey	1	Parker Range	Jilbadji Nature Reserve, Cheritons Find	2016
Certain	survey	0	Parker Range	Forrestiana, FNO-713 - inactive mound	2016
Certain	survey	0	Parker Range	Forrestiana, FNO-715 - inactive mound	2016
Certain	survey	0	Parker Range	Forrestiana, FNO-716 - inactive mound	2016
Certain	survey	0	Parker Range	Forrestiana, FNO-712 - inactive mound	2016
Certain	survey	0	Parker Range	Forrestiana, FNO-711 - inactive mound	2016
Certain	survey	0	Parker Range	Forrestiana, FNO-714 - inactive mound	2016
Certain	survey	1	Parker Range	ParkerRange, Texas Tenement, Jilbadji Nature Reserve	2016
Certain	Tracks	0	Skeleton Rock	Skeleton Rock; along eastern fire access track.	2009
Certain	survey	1	Skeleton Rock	GOLDFIELDS, British Hill	2011
Moderately	Obs.	1	South Yilgarn	Hyden - Marvel Loch Road	2000
Certain	DS	0	South Yilgarn	West end of Brennand Road, South Yilgarn	2008
Certain	DS	1	West Holleton	On Soldiers Rd, 3 km E of old barrier fence	1995
Moderately	Obs.	1	West Holleton	Sloss NR	2004
Moderately	Obs.	1	West Holleton	Welsh Nature Reserve	2011
Certain	?	0	Woolocutty	PP Loc.No.2672 just S of Gibb Rock, Hyden	1966
<i>Macropus irma</i> - Western Brush Wallaby			Priority 4		
Certain	Dead	1	Forrestania		1995
Certain	DS	1	Forrestania	Hyden Norseman Road, 80kms east of Hyden near Nickel Mine	1998
Certain	DS	1	Forrestania	Flying Fox nickel sulphide box cut mine East Hyden.FR09	2005
Certain	Tracks	0	Forrestania	Flying Fox nickel sulphide box cut mine East Hyden.FR24	2006

Appendix 8. (cont.)

Certainty	Method	Count	Locality	Site	Year
Macropus irma - Western Brush Wallaby			Priority 4		
Certain	Tracks	0	Forrestania	Flying Fox nickel sulphide box cut mine East Hyden.FR26	2006
Certain	Tracks	0	Forrestania	Flying Fox nickel sulphide box cut mine East Hyden.FR21	2006
Certain	C/T	1	Forrestania	DR01- Diggers South nickel sulphide mine, east of Hyden	2006
Certain	C/T	4	Forrestania	Diggers South nickel sulphide mine, east of Hyden	2006
Certain	Dead	1	Forrestania	Internal Haul Road	2016
Certain	DS	3	Holt Rock	Near Holt Rock Siding. Lake Varley Nature Reserve.	1969
Moderately	DS	2	Parker Range	Jilbadji Nature Reserve (C24049)	1999
Macrotis lagotis – Bilby			Schedule 3 (Vulnerable)		
WAM	Spec.	1	Marvel Loch		0
Moderately	Signs	1	Parker Range	Parker Range	1904
Merops ornatus - Rainbow Bee-eater Schedule 5 (Migratory Birds Protected under International Agreement)					
Certain	Hist.	1	Forrestania	Site details not provided, unable to verify coordinates.	1976
Moderately	Obs.	1	Forrestania		1977
Moderately	Obs.	1	Forrestania		1977
Moderately	Obs.	1	Forrestania		1977
Moderately	Obs.	1	Forrestania		1978
Moderately	Obs.	1	Forrestania		1978
Moderately	Obs.	1	Forrestania		1978
Moderately	Obs.	1	Forrestania		1979
Moderately	Obs.	1	Forrestania		1979
Moderately	Obs.	1	Forrestania		1979
Moderately	Obs.	1	Forrestania		1979
Moderately	Obs.	1	Forrestania		1979
Moderately	Obs.	1	Forrestania		1979
Moderately	Obs.	1	Forrestania		1979
Moderately	Obs.	1	Forrestania		1979
Moderately	Obs.	1	Forrestania		1980
Moderately	Obs.	1	Forrestania		1981
Moderately	Obs.	1	Forrestania		1981
Certain	Hist.	5	Forrestania	Site details not provided, unable to verify coordinates.	1987
Certain	Hist.	2	Forrestania	Site details not provided, unable to verify coordinates.	1988
Certain	Hist.	3	Forrestania	Site details not provided, unable to verify coordinates.	1989
Moderately	Obs.	1	Forrestania	Lake Cronin	1998
Moderately	Obs.	1	Forrestania	Lake Cronin	1999
Moderately	Obs.	1	Forrestania	Lake Cronin	1999
Moderately	Obs.	1	Forrestania	Lake Cronin 1	1999
Moderately	Obs.	1	Forrestania	Lake Cronin 3	1999
Moderately	Obs.	1	Forrestania	Lake Cronin 3	1999
Moderately	Obs.	1	Forrestania	Lake Cronin	2000
Moderately	Obs.	1	Forrestania	Lake Cronin 1	2000
Moderately	Obs.	1	Forrestania	Lake Cronin 1	2000
Moderately	Obs.	1	Forrestania	Lake Cronin 3	2000
Moderately	Obs.	1	Forrestania	Lake Cronin 2	2001
Moderately	Obs.	1	Forrestania	Lake Cronin	2001
Moderately	Obs.	1	Forrestania	Lake Cronin	2001
Moderately	Obs.	1	Forrestania	Lake Cronin 3	2001
Moderately	Obs.	1	Ghooli	Yellowdine - Nevorlia Road	2002
Moderately	Obs.	1	Holleton	Old Holleton Townsite	2004
Moderately	Obs.	1	Hyden		1979
Moderately	Obs.	1	Hyden		1980
Moderately	Obs.	1	Hyden		1981

Appendix 8. (cont.)

Certainty	Method	Count	Locality	Site	Year
<i>Merops ornatus</i> - Rainbow Bee-eater Schedule 5 (Migratory Birds Protected under International Agreement)					
Moderately	Obs.	1	Hyden		1981
Moderately	Obs.	1	Hyden	Emu Rock	2000
Moderately	Obs.	1	Hyden	Lake Liddelow, Holland Track	2000
Moderately	Obs.	1	Marvel Loch		1979
Moderately	Obs.	1	Mount Hampton	Mt Hampton	2007
Moderately	Obs.	1	Mount Holland	Forrestania track	2003
Certain	survey	3	Mount Holland	Bushland east of Eastern Wheatbelt , 40km NNE of Hyden	2011
Moderately	Obs.	1	Mount Palmer	Yellowdine area	2003
Moderately	Obs.	1	Norseman		1979
Moderately	Obs.	1	Norseman	The Breakaways	1998
Moderately	Obs.	1	Norseman	Breakaway, Hyden - Norseman Track	1999
Moderately	Obs.	1	Norseman	Round Top Hill	2000
Moderately	Obs.	1	Norseman	Breakaway	2004
Moderately	Obs.	1	Parker Range	Banker - Mt Dam Road	2002
Moderately	Obs.	1	South Yilgarn		1981
Moderately	Obs.	1	Victoria Rock	Centenary Rocks	1998
Moderately	Obs.	1	Victoria Rock	Holland Track	2000
Moderately	Obs.	1	Victoria Rock	Holland Track	2000
Moderately	Obs.	1	Woollocutty	Twine Nature Reserve	2000
Moderately	Obs.	1	Yellowdine	Morlining Rocks	1999
<i>Myrmecobius fasciatus</i> - Numbat Schedule 2 (Endangered)					
WAM	Spec.	1	Ghooli		0
Certain	?	1	Norseman	Halfway to Norseman from Hyden	1961
<i>Ninox connivens connivens</i> - Barking Owl (southwest pop) Priority 2					
Certain	?	2	Woollocutty	PP Loc.No.2672 just S of Gibb Rock, Hyden	1968
<i>Paroplocephalus atriceps</i> – Lake Cronin Snake Priority 3					
WAM	Spec.	1	Forrestania	MIDDLE IRONCAP	1900
WAM	Spec.	1	Forrestania	LAKE CRONIN	1967
WAM	Spec.	1	Forrestania	LAKE CRONIN	1979
WAM	Spec.	1	Forrestania	LAKE CRONIN	1998
Certain	survey	1	Forrestania	FORRESTANIA, Cosmic Boy	2009
WAM	Spec.	1	Forrestania	LAKE CRONIN	2010
Certain	survey	1	Forrestania	FORRESTANIA Cosmic Boy,	2013
Certain	C/T	1	Forrestania	Live Mining Lease M 7700399, Office and Coreyard, 500m from Cosmic Bay Camp & Forrestania Rd intersection	2014
Certain	survey	1	Forrestania	FORRESTANIA Cosmic Boy,	2014
Certain	NS	1	Forrestania	Cosmic Boy	2016
WAM	Spec.	1	Mount Holland	ESE OF MT HOLLAND	1900
WAM	Spec.	1	Norseman	MAGGIE HAYES HILL	1996
Certain	Dead	1	Skeleton Rock	32km north of Hyden-Norseman Rd, along Marvel Lock-Forrestania Rd. Just inside Jilbadgi NR	2007
WAM	Spec.	1	Varley	VARLEY	0
<i>Petrogale lateralis lateralis</i> - Black-flanked Rock-wallaby Schedule 2 (Endangered)					
Certain	DS	0	South Yilgarn	Southern Cross South Road & Cramphorne Road intersection, South Yilgarn	2007

Appendix 8. (cont.)

Certainty	Method	Count	Locality	Site	Year
<i>Phascogale calura</i> - Red-tailed Phascogale			Schedule 6 (Conservation Dependent Fauna)		
WAM	Spec.	1	Hyden	DRAGON ROCKS RESERVE	1972
Certain	Dead	1	Hyden	Community Sighting - January. 40km NE of Hyden (Douthe road). King Rock- granite outcrop with dense sheoak + Euc.	2008
Moderately	NS	1	Hyden	January. 40km NE of Hyden (Douthe road). King Rock- granite outcrop with dense sheoak + Euc.	2008
Certain	DS	1	Hyden	Pit on Hyden-Norseman Rd, approx 8km E of intersection w/ Sharps Rd	2016
Certain	Dead	1	Marvel Loch	Marvel Loch (10 km south), WA	1998
<i>Platycercus icterotis xanthogenys</i> - Western Rosella (inland ssp)			Priority 4		
Certain	DS	0	Forrestania	Rock Hole, immediately north of the Varley Gate, to the south	1983
Certain	DS	3	Forrestania	Lake Cronin	1991
Certain	DS	2	Forrestania	Lake Cronin	1991
Certain	DS	1	Forrestania	Flying Fox nickel sulphide box cut mine East Hyden. FR06	2005
Certain	DS	1	Forrestania	Flying Fox nickel sulphide box cut mine East Hyden.	2005
Certain	DS	7	Forrestania	Flying Fox nickel sulphide box cut mine East Hyden. FR05	2005
Certain	DS	4	Forrestania	Flying Fox nickel sulphide box cut mine East Hyden.FR26	2006
Certain	C/T	1	Forrestania	DR09- Diggers South nickel sulphide mine, east of Hyden	2006
Certain	C/T	2	Forrestania	DR02- Diggers South nickel sulphide mine, east of Hyden	2006
Certain	DS	2	Forrestania	Lake Cronin	2007
Certain	DS	1	Holt Rock	Near Holt Rock Siding. Lake Varley Nature Reserve.	1969
<i>Pseudomys occidentalis</i> - Western Mouse			Priority 4		
Certain	C/T	1	Forrestania	Dragon Rocks Nature Reserve. Trap I25	1995
Certain	?	0	Hatter Hill	Hatter Hill.	0
WAM	Spec.	1	Hatter Hill	HATTER HILL	0

Appendix 9. Opportunistic Records

Date	Species	Location	Notes
25/11/2016	Australian Raven	Camp	Seen
10 - 15/10/16	Australian Raven	Earl Grey	
16 - 20/1/17	Australian Raven	Regional area	
10 - 15/10/16	Australian Ringneck	Earl Grey	
10 - 15/10/16	Australian Ringneck	Earl Grey	
23/11/2016	Black-faced Cuckoo-shrike	Irish Breakfast, Site 5	
23/11/2016	Blue-breasted Fairy-wren	Prince of Wales, Site 7	Heard during set-up
10 - 15/10/16	Blue-breasted Fairy-wren	Earl Grey	
16 - 20/1/17	Blue-breasted Fairy-wren	Regional area	
25/11/2016	Brown Falcon	Van Uden, Site 11	Seen
26/11/2016	Brown Falcon	Access road between Van Uden and Camp	
2/12/2016	Brown Honeyeater	South-west Regional Area	Heard
10 - 15/10/16	Brown Honeyeater	Earl Grey	
16 - 20/1/17	Brown Honeyeater	Regional area	
23/11/2016	Brown-headed Honeyeater	Irish Breakfast, Site 5	
10 - 15/10/16	Brown-headed Honeyeater	Earl Grey	
16 - 20/1/17	Brush Bronzewing	Regional area	
28/11/2016	Cattle	Prince of Wales, Site 9	Tracks
25/11/2016	Chestnut Quail-thrush	Irish Breakfast, Site 5 (nearby)	Seen
12/10/2016	Chuditch	Earl Grey 50H 759088 6446417	Tracks
13/10/2016	Chuditch	Earl Grey 50H 759591 6446569	Tracks
26/11/2016	Chuditch	Earl Grey, Site 1 50H 759909 6446533	Tracks on drill track
2/12/2016	Collared Sparrowhawk	Irish Breakfast	
2/12/2016	Collared Sparrowhawk	Malleefowl trsect Irish Bfast	x1
10 - 15/10/16	Collared Sparrowhawk	Earl Grey	
1/12/2016	Common Bronzewing	Irish Breakfast, Site 5	Seen during site pack-up
2/12/2016	Common Bronzewing		
10 - 15/10/16	Common Bronzewing	Earl Grey	
16 - 20/1/17	Common Bronzewing	Regional area	
10 - 15/10/16	Copper-backed Quail-thrush	Earl Grey	
10 - 15/10/16	Crested Bellbird	Earl Grey	
16 - 20/1/17	Crested Bellbird	Regional area	
26/11/2016	<i>Cryptoblepharus buehananii</i>	Van Uden, Site 10	Sighted on large gum
26/11/2016	<i>Ctenophorus cristatus</i>	Prince of Wales, Site 8	
27/11/2016	<i>Ctenophorus cristatus</i>	Prince of Wales, Site 8	
3/12/2016	<i>Ctenophorus cristatus</i>	Earl Grey	Seen active x3
10 - 15/10/16	<i>Ctenophorus cristatus</i>	Earl Grey	
29/11/2016	<i>Ctenophorus maculatus</i>	Earl Grey, Site 4	
1/12/2016	<i>Ctenophorus maculatus</i>	Prince of Wales, Malleefowl transect	Seen during Malleefowl surveys
3/12/2016	<i>Ctenophorus maculatus</i>	Irish Breakfast	Seen active
10 - 15/10/16	<i>Ctenophorus maculatus</i>	Earl Grey	
1/12/2016	<i>Ctenophorus salinarum</i>	Prince of Wales, Malleefowl transect 50H 760019 6450792	Seen active
29/11/2016	<i>Ctenotus schomburgkii</i>	Van Uden, Site 9	
16 - 20/1/17	<i>Ctenotus schomburgkii</i>	Regional area	
10 - 15/10/16	<i>Delma fraseri</i>	Earl Grey	x 2
30/11/2016	Dog	Van Uden, Site 10	
29/11/2016	Dog	Prince of Wales, Site 9	

Appendix 9. (cont.)

Date	Species	Location	Notes
2/12/2016	Dusky Woodswallow	Prince of Wales, burnt area	
29/11/2016	Echidna	Van Uden, Site 11	Old diggings
16 - 20/1/17	Echidna	Regional area	Diggings
25/11/2016	<i>Egernia richardi</i>	Van Uden, Site 10	Under fallen logs
16 - 20/1/17	Elegant Parrot	Regional area	
24/11/2016	Emu	Prince of Wales, Site 9	Tracks and scats
25/11/2016	Emu	Earl Grey, Site 2	Tracks and scats
26/11/2016	Emu	Van Uden, Site 12	Tracks and scats
27/11/2016	Emu	Van Uden, Site 12	Tracks and scats
29/11/2016	Emu	Van Uden, Site 12	
3/12/2016	Emu	Prince of Wales, Site 9	6 seen along drill line
10 - 15/10/16	Emu	Earl Grey	Tracks
16 - 20/1/17	Emu	Regional area	
10 - 15/10/16	Fan-tailed Cuckoo	Earl Grey	
3/12/2016	<i>Gehyra varigata</i>	Irish Breakfast	Found under dead bark
2/12/2016	Gilberts Whistler	South-west camera 50H 758080 6440960	x1
3/12/2016	Gilberts Whistler	Regional area 50H 761994 6442952	x2
16 - 20/1/17	Golden Whistler	Regional area	
28/11/2016	Grey Butcherbird	Earl Grey, Site 4	Heard
30/11/2016	Grey Butcherbird	Van Uden	
2/12/2016	Grey Currawong	Irish Breakfast	
10 - 15/10/16	Grey Currawong	Earl Grey	
16 - 20/1/17	Grey Currawong	Regional area	
10 - 15/10/16	Grey Shrike-thrush	Earl Grey	
16 - 20/1/17	Grey Shrike-thrush	Regional area	
10 - 15/10/16	Grey Teal	Earl Grey	
27/11/2016	<i>Hesperoedura reticulata</i>	Van Uden, Site 10	Spotlighting, x2 on eucalypt.
2/12/2016	Hooded Robin	x 2, Prince of Wales, burnt area	
23/11/2016	Horsfield's Bronze-cuckoo	Irish Breakfast, Site 5	
16 - 20/1/17	Horsfield's Bronze-cuckoo	Regional area	
10 - 15/10/16	Inland Thornbill	Earl Grey	
16 - 20/1/17	Inland Thornbill	Regional area	
19/11/2016	Inland Western Rosella	Regional area 50H 756746 6442151	x2
27/11/2016	Inland Western Rosella	Van Uden 50H 750345 6439078	
27/11/2016	Inland Western Rosella	Regional area 50H 759497 6445719	
30/11/2016	Inland Western Rosella	Van Uden 50H 750578 6439016	
30/11/2016	Inland Western Rosella	Road to Van Uden 50H 752158 6445356	
1/12/2016	Inland Western Rosella	Irish Breakfast 50H 759456 6447372	
10 - 15/10/16	Inland Western Rosella	Earl Grey	
30/11/2016	Jacky Winter	southern powerline	x1
10 - 15/10/16	kangaroo/wallaby	Earl Grey	Scats and tracks
3/12/2016	<i>Lerista kingii</i>	Earl Grey	Raked from a spoil heap
26/11/2016	<i>Liopholis multiscutata</i>	Prince of Wales, Site 8	
10 - 15/10/16	<i>Liopholis multiscutata</i>	Earl Grey	
26/11/2016	Little Eagle	Van Uden, Site 10 50H 750202 6439019	Nest
27/11/2016	<i>Lucasium mainii</i>	Van Uden	Spotlighting

Appendix 9. (cont.)

Date	Species	Location	Notes
25/07/2016	Malleefowl	Regional area 50H 760182 6453348	One bird seen by botanist
25/11/2016	Malleefowl	Van Uden 50H 751574 6445207	One bird seen (disturbed, flying)
26/11/2016	Malleefowl	Van Uden 50H 749586 6439856	Tracks
27/11/2016	Malleefowl	Van Uden 50H 749243 6439839	Tracks
27/11/2016	Malleefowl	Earl Grey, Site 3 50H 759052 6445503	Tracks on drill track
29/11/2016	Malleefowl	Van Uden, Site 11 50H 750565 6438402	Tracks on drill track
30/11/2016	Malleefowl	Prince of Wales 50 H 759259 6450356	Tracks
2/12/2016	Mistletoebird	Irish Breakfast	
2/12/2016	Mistletoebird	Irish Breakfast	x1
10 - 15/10/16	Mitchell's Hopping Mouse	Earl Grey	Tracks
16 - 20/1/17	Mitchell's Hopping Mouse	Regional area	Tracks
1/12/2016	<i>Moloch horridus</i>	Van Uden, Site 12	Near pit 3
10 - 15/10/16	<i>Moloch horridus</i>	Earl Grey	
10 - 15/10/16	Painted Button-quail	Earl Grey	
19/11/2016	Peregrine Falcon	Regional area 50H 762093 6445732	Overflying pit
30/11/2016	Peregrine Falcon	Van Uden, Site 12 50H 749377 6439936	1 seen during bird survey
4/12/2016	Peregrine Falcon	Regional area 50H 762118 6445460	
29/11/2016	<i>Pogona minor</i>	Irish Breakfast	Seen during Malleefowl surveys.
3/12/2016	<i>Pseudophryne occidentalis</i>	Irish Breakfast	Spotlighting, near water
10 - 15/10/16	<i>Pseudophryne occidentalis</i>	Earl Grey	
2/12/2016	<i>Psuedonaja affinis</i>	Airport	Driving back from Van Uden
10 - 15/10/16	Purple-crowned Lorikeet	Earl Grey	
16 - 20/1/17	Purple-crowned Lorikeet	Regional area	
23/11/2016	Purple-gaped Honeyeater	Prince of Wales, Site 7	Heard during set-up
10 - 15/10/16	Purple-gaped Honeyeater	Earl Grey	Nesting, recently fledged chicks
16 - 20/1/17	Purple-gaped Honeyeater	Regional area	
24/11/2016	Rabbit	Prince of Wales, Site 9	Scats
27/11/2016	Rabbit	Prince of Wales, Site 8	Scats
13/10/2016	Rainbow Bee-eater	50H 759014 6446654	Oct 2016 survey
14/10/2016	Rainbow Bee-eater	Earl Grey 50H 759041 6445215	Oct 2016 survey
17/11/2016	Rainbow Bee-eater	Regional area 50H 759955 6439375	
25/11/2016	Rainbow Bee-eater	Camp 50H 761225 6445075	Seen
25/11/2016	Rainbow Bee-eater	Van Uden 50H 750981 6437973	
26/11/2016	Rainbow Bee-eater	Van Uden, Site 10 50H 750567 6439052	Heard
26/11/2016	Rainbow Bee-eater	Van Uden 50H 750538 6439160	
30/11/2016	Rainbow Bee-eater	Rubbish Dump 50H 760898 6443050	Heard
10 - 15/10/16	Rainbow Bee-eater	Earl Grey	
16 - 20/1/17	Red Wattlebird	Regional area	
30/11/2016	Red-capped Robin	southern powerline 50H 762983 6440708	x1
1/12/2016	Red-capped Robin	Prince of Wales, burnt area	Flushed during Malleefowl surveys
29/11/2016	Redthroat	Van Uden, Site 12	Heard outside of bird survey
3/12/2016	Redthroat	Regional area 50H 761994 6442952	x1

Appendix 9. (cont.)

Date	Species	Location	Notes
10 - 15/10/16	Regent Parrot	Earl Grey	
10 - 15/10/16	Restless Flycatcher	Earl Grey	
10 - 15/10/16	Rufous Whistler	Earl Grey	
23/11/2016	Shy Heathwren	Irish Breakfast, Site 6	Heard during set-up
25/11/2016	Shy Heathwren	Earl Grey, Site 1	Heard outside of bird survey
26/11/2016	Shy Heathwren	heard new Site 10	Heard
10 - 15/10/16	Shy Heathwren	Earl Grey	nesting
29/11/2016	Singing Honeyeater	Irish Breakfast	Heard during Malleefowl surveys.
16 - 20/1/17	Singing Honeyeater	Regional area	
26/11/2016	Southern Scrub-robin	Irish Breakfast, Site 6	1 bird and 1 egg in nest
26/11/2016	Southern Scrub-robin	Earl Grey, Site 1	1 bird and 1 chick in nest
10 - 15/10/16	Southern Scrub-Robin	Earl Grey	Nesting
16 - 20/1/17	Southern Scrub-robin	Regional area	
10 - 15/10/16	Spiny-cheeked Honeyeater	Earl Grey	
16 - 20/1/17	Spiny-cheeked Honeyeater	Regional area	
23/11/2016	Spotted Nightjar	Prince of Wales, Site 7	Flushed from ground during day
27/11/2016	Spotted Nightjar	main road north of Van Uden.	Spotlighting
1/12/2016	Spotted Nightjar	Prince of Wales, burnt area	
1/12/2016	Spotted Nightjar	Prince of Wales, burnt area	Flushed during Malleefowl surveys
3/12/2016	Spotted Nightjar	Airport	Spotlighting
10 - 15/10/16	Spotted Nightjar	Earl Grey	
24/11/2016	Spotted Pardalote	Prince of Wales, Site 8	
29/11/2016	Square-tailed Kite	Earl Grey, Site 3	
29/11/2016	Square-tailed Kite	Earl Grey, Site 3	
29/11/2016	Square-tailed Kite	Earl Grey, Site 3	Flew over
10 - 15/10/16	Striated Pardalote	Earl Grey	
10 - 15/10/16	<i>Tadarida australis</i>	Earl Grey	Heard at night
3/12/2016	Tawny Frogmouth	Airport area	Spotlighting
10 - 15/10/16	Tawny Frogmouth	Earl Grey	
2/12/2016	Tawny-crowned Honeyeater	Irish Breakfast	
10 - 15/10/16	<i>Tiliqua occipitalis</i>	Earl Grey	
26/11/2016	<i>Tiliqua rugosa</i>	1.5km west of Camp	
27/11/2016	<i>Tiliqua rugosa</i>	Regional area (near camp)	
28/11/2016	<i>Tiliqua rugosa</i>	Van Uden	Crossing track to Van Uden
1/12/2016	<i>Tiliqua rugosa</i>	Prince of Wales, burnt area	
3/12/2016	<i>Tiliqua rugosa</i>	On track to Van Uden	
3/12/2016	<i>Tiliqua rugosa</i>	On track to Van Uden	
16 - 20/1/17	<i>Tiliqua rugosa</i>	Regional area	
25/11/2016	Tree Martin	Van Uden, Site 11	
10 - 15/10/16	Tree Martin	Earl Grey	
16 - 20/1/17	Tree Martin	Regional area	
26/11/2016	<i>Varanus gouldii</i>	Between Forrestania Road and VU	
27/11/2016	<i>Varanus gouldii</i>	Prince of Wales, burnt area	
10 - 15/10/16	<i>Varanus gouldii</i>	Earl Grey	
16 - 20/1/17	<i>Varanus gouldii</i>	Regional area	
4/12/2016	Varied Sittella	Van Uden, small clay pan	Sighted while hand-searching
16 - 20/1/17	Varied Sittella	Regional area	
10 - 15/10/16	Weebill	Earl Grey	





Appendix 9. (cont.)

Date	Species	Location	Notes
16 - 20/1/17	Weebill	Regional area	
3/12/2016	Welcome Swallow	camp	x2
27/11/2016	Western Brush Wallaby	Road to Van Uden 50H 751051 6445100	
1/12/2016	Western Brush Wallaby	Road on way to Van Uden 50H 747707 6443436	Sighted crossing road
20/01/2017	Western Brush Wallaby	Jilbadji Nature Reserve (burnt area) 50 J 754848 6466104	x3
30/11/2016	Western Grey Kangaroo	Mount Holland access track	
4/12/2016	Western Grey Kangaroo	Regional area	x1
23/11/2016	Western Yellow Robin	Irish Breakfast, Site 6	Heard during set-up
16 - 20/1/17	Western Yellow Robin	Regional area	
10 - 15/10/16	Whistling Kite	Earl Grey	
30/11/2016	White-browed Babbler	Rubbish Dump	Seen while placing motion camera.
10 - 15/10/16	White-browed Babbler	Earl Grey	
16 - 20/1/17	White-eared Honeyeater	Regional area	
10 - 15/10/16	White-fronted Honeyeater	Earl Grey	
16 - 20/1/17	White-fronted Honeyeater	Regional area	
30/11/2016	White-winged Triller	southern powerline 50H 762983 6440708	x2
1/12/2016	White-winged Triller	Prince of Wales, burnt area	
25/11/2016	Willie Wagtail	Van Uden, Site 10	
10 - 15/10/16	Willie Wagtail	Earl Grey	
30/11/2016	Yellow-rumped Thornbill	southern powerline 50H 762983 6440708	x2
29/11/2016	Yellow-throated Miner	W10-1 camera location	2 heard in burnt area





Appendix 10. Malleefowl Mounds Recorded in the Study Areas

Mound	Photograph
<p>Waypoint: MM-01</p> <p>Location: 50H 758853 E 6445168 N</p> <p>Study area: Earl Grey</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Mallee Eucalypt woodland over tall mixed Acacia shrubland, on gravelly clay loam.</p>	
<p>Waypoint: MM-02</p> <p>Location: 50H 758816 E 6446057 N</p> <p>Study area: Earl Grey</p> <p>Status: Mound attempt, not used.</p> <p>Habitat: Mallee Eucalypt woodland over mixed Melaleuca shrubland, on gravelly loam/sand.</p>	
<p>Waypoint: MM-03</p> <p>Location: 50H 759130 E 6446065 N</p> <p>Study area: Earl Grey</p> <p>Status: Active mound</p> <p>Habitat: Mallee Eucalypt woodland over mixed Sheoak/Acacia/Melaleuca shrubland, on gravelly sand.</p>	
<p>Waypoint: MM-04</p> <p>Location: 50H 758665 E 6446259 N</p> <p>Study area: Earl Grey</p> <p>Status: Mound attempt, not used</p> <p>Habitat: Mallee Eucalypt woodland over mixed myrtaceous shrubland, on gravelly loam/sand. Old trackside spoil heap that has been excavated but not used.</p>	





Appendix 10. (cont.)

Mound	Photograph
<p>Waypoint: MM-05</p> <p>Location: 50H 759570 E 6446330 N</p> <p>Study area: Earl Grey</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Mallee Eucalypt woodland over tall <i>Allocasuarina</i> and <i>Acacia</i> shrubland, on gravelly sand.</p>	
<p>Waypoint: MM-06</p> <p>Location: 50H 759208 E 6446582 N</p> <p>Study area: Earl Grey</p> <p>Status: Mound attempt, not used</p> <p>Habitat: Mallee Eucalypt woodland over tall <i>Allocasuarina</i> and <i>Acacia</i> shrubland, on gravelly sand. Old trackside spoil heap that has been excavated but not used.</p>	
<p>Waypoint: MM-07</p> <p>Location: 50H 759306 E 6448715 N</p> <p>Study area: Regional area</p> <p>Status: Mound attempt, not used</p> <p>Habitat: Mallee Eucalypt woodland over <i>Melaleuca</i> shrubland, on gravelly loam. Old trackside spoil heap that has been excavated but not used.</p>	
<p>Waypoint: MM-08</p> <p>Location: 50H 750445 E 6438409 N</p> <p>Study area: Van Uden</p> <p>Status: Active</p> <p>Habitat: Tall Eucalypt woodland over sparse tall <i>Melaleuca</i> shrubland on red loam.</p>	


Appendix 10. (cont.)

Mound	Photograph
<p>Waypoint: MM-09</p> <p>Location: 50H 759607 E 6450697 N</p> <p>Study area: Prince of Wales</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Burnt. Tall shrubland of <i>Allocasuarina</i> and <i>Acacia</i> on gravelly sand.</p>	
<p>Waypoint: MM-10</p> <p>Location: 50H 759731 E 6451028 N</p> <p>Study area: Prince of Wales</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Burnt. Tall shrubland of <i>Allocasuarina</i> and <i>Acacia</i> on sandy gravel.</p>	
<p>Waypoint: MM-11</p> <p>Location: 50H 759611 E 6447668</p> <p>Study area: Irish Breakfast</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Sparse mallee eucalypt woodland over tall shrubland of <i>Allocasuarina</i>, and <i>Melaleuca</i> on sandy gravel.</p>	
<p>Waypoint: MM-12</p> <p>Location: 50H 758919 E 6447454 N</p> <p>Study area: Irish Breakfast</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Sparse mallee eucalypt woodland over tall shrubland of <i>Allocasuarina</i>, and <i>Melaleuca</i> on gravelly sand.</p>	


Appendix 10. (cont.)

Mound	Photograph
<p>Waypoint: MM-13</p> <p>Location: 50H 759209 E 6445955 N</p> <p>Study area: Earl Grey</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Sparse mallee eucalypt woodland over tall shrubland of <i>Allocasuarina</i>, <i>Acacia</i> and <i>Melaleuca</i> on gravelly sand.</p>	
<p>Waypoint: MM-14</p> <p>Location: 50H 755038 E 6439835 N</p> <p>Study area: Regional area</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Burnt. Mallee eucalypt woodland over tall shrubland of <i>Melaleuca</i> and <i>Hakea</i> on gravelly sand.</p>	
<p>Waypoint: MM-15</p> <p>Location: 50H 754351 E 6439415 N</p> <p>Study area: Regional area</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Burnt. Mallee eucalypt woodland over tall shrubland of <i>Melaleuca</i> and <i>Allocasuarina</i> on red gravelly loam.</p>	
<p>Waypoint: MM-16</p> <p>Location: 50H 759231 E 6454669 N</p> <p>Study area: Regional area</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Sparse mallee eucalypt woodland over tall shrubland of <i>Allocasuarina</i>, <i>Acacia</i> and <i>Hakea</i> on pale gravelly sand.</p>	

Appendix 10. (cont.)

Mound	Photograph
<p>Waypoint: MM-17</p> <p>Location: 50H 756616 E 6447341 N</p> <p>Study area: Regional area</p> <p>Status: Active mound</p> <p>Habitat: Sparse mallee eucalypt woodland over tall shrubland of <i>Allocasuarina</i>, <i>Melaleuca</i> and <i>Hakea</i> on pale yellow gravelly sand.</p>	
<p>Waypoint: MM-18</p> <p>Location: 50H 754750 E 6463151 N</p> <p>Study area: Jilbadji Nature Reserve</p> <p>Status: Active mound</p> <p>Habitat: Sparse mallee eucalypt woodland over tall shrubland of <i>Allocasuarina</i> and <i>Hakea</i> on pale yellow gravelly sand.</p>	
<p>Waypoint: MM-19</p> <p>Location: 50H 759822 E 6450197 N</p> <p>Study area: Prince of Wales</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Burnt. Tall shrubland of <i>Allocasuarina</i> on gravelly sand.</p>	
<p>Waypoint: MM-20 (recorded July 2016)</p> <p>Location: 50H 761037 E 6459357 N</p> <p>Study area: Regional area</p> <p>Status: Old mound, unused 10yrs+</p> <p>Habitat: Burnt. Tall shrubland of <i>Allocasuarina</i> and mixed shrubs on gravelly sand.</p>	

Appendix 10. (cont.)

Mound		Photograph
Waypoint:	MM-21 (recorded July 2014)	
Location:	50H 760874 E 6440544 N	
Study area:	Regional area	
Status:	Old mound, unused 10yrs+	
Habitat:	Burnt. Mallee eucalypt woodland on pale gravelly sand.	

Appendix 11. Fauna Recorded on Camera Traps

Note: see Appendix 2 and Figure 9 for camera locations and deployment dates.

Camera	Location	Species																								
		Chuditch	Echidna	Western Grey Kangaroo	Western Brush Wallaby	Mitchell's Hopping Mouse	Mouse sp.	Crested Dragon	Gould's Goanna	Southern Heath Monitor	Western Bluetongue	Bobtail	Grey Currawong	Emu	Malleefowl	Brush Bronzewing	Spotted Nightjar	Chestnut Quail-thrush	Southern Scrub-robin	Crested Bellbird	Australian Raven	Dog/Dingo	Cat	Fox	Rabbit	
N01-0	Earl Grey	x																								
N02-0	Earl Grey																									
N03-0	Earl Grey	x				x														x		x				
N04-0	Earl Grey																			x						
W02-0	Earl Grey									x												x				
W03-0	Earl Grey																									
W04-0	Earl Grey	x																								
W05-0	Earl Grey																									
W06-0	Earl Grey	x																								
W07-0	Earl Grey	x																						x		
W08-0	Earl Grey	x																								
W09-0	Earl Grey	x										x											x			
N03-1	Irish Breakfast																			x						
N04-1	Irish Breakfast	x				x		x													x					
W03-1	Irish Breakfast			x																	x					
W05-1	Irish Breakfast	x																								
W06-1	Irish Breakfast						x														x					
W07-1	Irish Breakfast	x		x																						
N01-1	Prince of Wales	x							x																	
N02-1	Prince of Wales					x																				
W02-1	Prince of Wales	x																						x		
W04-1	Prince of Wales								x																	
W08-1	Prince of Wales	x																								
W09-1	Prince of Wales	x				x		x																		

Appendix 11. (cont.)

Camera	Location	Species																							
		Chuditch	Echidna	Western Grey Kangaroo	Western Brush Wallaby	Mitchell's Hopping Mouse	Mouse sp.	Crested Dragon	Gould's Goanna	Southern Heath Monitor	Western Bluetongue	Bobtail	Grey Currawong	Emu	Malleefowl	Brush Bronzewing	Spotted Nightjar	Chestnut Quail-thrush	Southern Scrub-robin	Crested Bellbird	Australian Raven	Dog/Dingo	Cat	Fox	Rabbit
N01-2	Regional	x				x																			
N01-3	Regional	x						x			x				x										
N02-2	Regional	x																					x		
N02-3	Regional	x								x															
N03-2	Regional									x															
N03-3	Regional																								
N04-2	Regional					x	x					x													
N04-3	Regional	x																		x					
W01-1	Regional											x													
W01-4	Regional	x			x																				
W01-5	Regional	x		x											x										
W02-2	Regional	x					x																		
W02-3	Regional	x							x																
W02-4	Regional	x				x	x																	x	
W02-5	Regional	x																					x		
W03-3	Regional																								
W03-4	Regional							x																	
W03-5	Regional						x																		
W04-3	Regional							x																	
W04-4	Regional						x																		
W04-5	Regional	x																							
W05-3	Regional							x																x	
W05-4	Regional						x												x						x
W05-5	Regional	x																						x	
W06-3	Regional																x								
W06-4	Regional							x																	
W06-5	Regional	x																							
W07-3	Regional							x												x					x
W07-4	Regional	x																							
W07-5	Regional																							x	x
W08-3	Regional																								
W08-4	Regional																							x	

Appendix 11. (cont.)

Camera	Location	Species																							
		Chuditch	Echidna	Western Grey Kangaroo	Western Brush Wallaby	Mitchell's Hopping Mouse	Mouse sp.	Crested Dragon	Gould's Goanna	Southern Heath Monitor	Western Bluetongue	Bobtail	Grey Currawong	Emu	Malleefowl	Brush Bronzewing	Spotted Nightjar	Chestnut Quail-thrush	Southern Scrub-robin	Crested Bellbird	Australian Raven	Dog/Dingo	Cat	Fox	Rabbit
W08-5	Regional	x																							
W09-2	Regional	x																							
W09-3	Regional	x																							
W09-4	Regional																								
W09-5	Regional	x																							x
W10-1	Regional								x																
W10-4	Regional				x																				
W10-5	Regional																								
W11-1	Regional	x						x		x									x						
W11-4	Regional																								
W11-5	Regional																								
W12-1	Regional																								
W12-4	Regional																						x		
W12-5	Regional																								
W13-1	Regional	x							x																
W13-4	Regional	x																							
W13-5	Regional																								
W14-1	Regional																			x					
W14-4	Regional	x	x					x																	
W14-5	Regional	x																							
W15-1	Regional									x								x	x						
W15-4	Regional																								
W15-5	Regional																						x		
W16-1	Regional	x							x					x											
W16-4	Regional	x																							
W16-5	Regional								x																
W17-1	Regional																								
W17-4	Regional								x																
W17-5	Regional	x																							
W18-4	Regional																								
W18-5	Regional																							x	
W19-4	Regional	x																							

Appendix 12. Bat Report

	
Bat call identification from Mt Holland, Western Australia	
Type:	Acoustic analysis
Prepared for:	Western Wildlife
Date:	7 February 2017
Job No.:	SZ422
Prepared by:	Kyle Armstrong and Yuki Konishi Specialised Zoological ABN 92 265 437 422 Tel 0404 423 264 kyle.n.armstrong@gmail.com http://szool.com.au
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SUMMARY

Bat identifications from acoustic recordings are provided from Mt Holland, near Southern Cross, Western Australia. At least nine species of bat were identified as being present (Tables 1 and 2). Representative echolocation calls for each identification are illustrated (Figures 1 and 2), as recommended by the Australasian Bat Society (ABS 2006). Further data are available should verification be required.

COMMENTS ON IDENTIFICATIONS

The identification of bat species from full spectrum WAV format recordings of their echolocation calls was based on measurements of characteristic frequency, observation of pulse shape, and the pattern of harmonics. Some identifications are ambiguous, and are accompanied by the following comments.

There were many calls with a characteristic frequency or minimum frequency between 40 and 50 kHz that had more than one possible attribution. The calls of long-eared bats *Nyctophilus* spp. are typically difficult to identify reliably to species, and there are calls present on the recordings that may be attributable to the Lesser Long-eared Bat *Nyctophilus geoffroyi* or the Western Long-eared Bat *N. major major*. Furthermore, calls within this frequency band were derived from the Inland Forest Bat *Vespadelus baverstocki*, the Southern Forest Bat *Vespadelus regulus* and the Chocolate Wattled Bat *Chalinolobus morio*—but calls of these species were not always clearly distinguishable from each other or the calls of *Nyctophilus* spp., particularly some shorter duration calls that were made close to vegetation. If greater certainty around the identity of all five of these bat species is required, a trapping survey would be recommended.

In addition, the calls of the Western Free-tailed Bat *Ozimops kitcheneri* and the Inland Free-tailed Bat *Ozimops petersi* are similar and overlap with the call variation of Gould's Wattled Bat *Chalinolobus gouldii*. In some cases, the two genera could be distinguished, and calls with a characteristic frequency below 26 kHz were generally attributed to *O. kitcheneri*. The putative calls of *Ozimops petersi* could not be confirmed unambiguously.

METHODS

Data recorded in full spectrum lossless WAC0 format with Wildlife Acoustics SM2BAT bat detectors (sampling rate 384 kHz, trigger 6 dB above background; 48 dB gain; set to turn on automatically at sunset and off at sunrise) was converted to high quality bitstream WAV format using Kaleidoscope 3.0.0 software.

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the identifications with additional materials or resources. The capture of bats would provide greater confidence in the identifications made in the present report. While Specialised Zoological has made identifications to the best of our ability given the available materials, and reserves the right to re-examine the data and revise any identification following a query, it is the client's and / or proponent's responsibility to provide supporting evidence for any identification, which might require follow-up trapping effort. Specialised Zoological bears no liability for any follow-up work that may be required to support an identification based initially on the analysis of acoustic recordings undertaken and reported on here.

6. It should be noted that while the identification of bat echolocation call recordings is a very efficient and convenient way to produce an inventory of bat species in a study area, the reliability of identification of each species varies, for several reasons. There are also a variety of factors that affect the 'detectability' of each species, given the frequency, power and shape characteristics of their calls. Further general comment can be provided, if required.
7. The scope of this report was limited to providing information on the identification of bats. Further comment on species of conservation significance and the possible impacts of a project on bat species were not part of the scope.
8. Further information on the analysis and the various factors that impinge on the reliability of identifications can be provided upon request.

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References continued over...

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A multi-step acoustic analysis procedure developed to process large full spectrum echolocation recording datasets from insectivorous bats (Armstrong and Aplin 2014; Armstrong et al. 2016) was then applied to the recordings made on the survey. Firstly, the WAV files were scanned for bat echolocation calls using several parameter sets in the software SCAN'R version 1.7.7 (Binary Acoustic Technology), which also provides measurements (in "SonoBat™ compatible output") from each putative bat pulse. The output was then used to determine if putative bat pulses measured in SCAN'R could be identified to species. This was done using a custom [R] language script that performed three tasks: 1. undertook a Discriminant Function Analysis on training data from representative calls from Western Australia; 2. from the measurements of each putative bat pulse from SCAN'R, calculated values for the first two Discriminant Functions that could separate the echolocation call types derived from the analysis of training data, and plotted these resulting coordinates over confidence regions for the defined call types; and 3. facilitated an inspection in a spectrogram of multiple examples of each call type for each recording night by opening the original WAV files containing pulses of interest in Adobe Audition CS6 version 5.0.2.

Species were identified based on information in Fullard et al. (1991) and Churchill (2008), and nomenclature follows Pamaby (2009), Jackson and Groves (2015) and Reardon et al. (2014, 2015).

LIMITATIONS

The identifications presented in this report have been made within the following context:

1. The identifications made herein were based on the acoustic data recorded and provided by a 'third party' (the client named on the front of this report).
2. Other than the general locality of the study area, Specialised Zoological has not been provided with detailed information of the survey area, has not made a site visit to observe the habitats available for bats, nor have we visited the site on a previous occasion. Descriptions and photographs of recording sites were not provided with the acoustic recordings analysed here.
3. In the case of the present report, the recording equipment was supplied and set-up by Specialised Zoological, but the equipment was operated by the third party during the survey.
4. Specialised Zoological has had no input into the overall design of this bat survey, other than the supply of recording equipment. Specialised Zoological has had no input into the survey timing, recording site placement, nor degree of recording site replication on this survey.
5. As far as Specialised Zoological is aware, the acoustic recordings analysed here have not been made in association with trapping effort, examination of field captures or voucher collection. Thus, Specialised Zoological has had no opportunity to validate

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- Reardon, T.B., McKenzie, N.L., Cooper S.J.B., Appleton, B., Carthew, S. and Adams, M. (2014). A molecular and morphological investigation of species boundaries and phylogenetic relationships in Australian free-tailed bats *Mormopterus* (Chiroptera: Molossidae). *Australian Journal of Zoology* 62: 109–136.
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TABLE 1. Species identified in the present survey from all sites combined.

VESPERTILIONIDAE	
Gould's Wattled Bat	<i>Chalinolobus gouldii</i>
Inland Broad-nosed Bat	<i>Scotorepens balstoni</i>
Southern Forest Bat	<i>Vespadelus regulus</i>
Inland Forest Bat	<i>Vespadelus baverstocki</i>
MOLOSSIDAE	
White-striped Free-tailed Bat	<i>Austronomus (=Tadarida) australis</i>
Western Free-tailed Bat	<i>Ozimops (=Mormopterus) kitcheneri</i>
Ambiguous identifications	
Lesser Long-eared Bat / <i>and/or</i> Western Long-eared Bat	<i>Nyctophilus geoffroyi</i> / <i>Nyctophilus major major</i>
Chocolate Wattled Bat	<i>Chalinolobus morio</i>
Inland Free-tailed Bat	<i>Ozimops (=Mormopterus) petersi</i>

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TABLE 2. Species identifications, with the degree of confidence indicated by a code. Date and serial/unit number correlates with site; see Table 1 for full species names.

	<i>A. australis</i>	<i>C. gouldii</i>	<i>C. morio</i>	<i>Nyctophilus</i> sp.	<i>O. kitcheneri</i>	<i>O. petersi</i>	<i>S. balstoni</i>	<i>V. baverstocki</i>	<i>V. regulus</i>
SM2BAT 8072									
23/11/2016	◆	—	—	NC	◆	NC	—	—	◆
24/11/2016	◆	◆	—	NC	◆	NC	—	◆	◆
25/11/2016	◆	◆	—	NC	◆	NC	◆	◆	◆
26/11/2016	◆	◆	NC	NC	◆	NC	◆	◆	◆
27/11/2016	◆	◆	NC	NC	◆	—	—	—	◆
28/11/2016	◆	◆	NC	NC	◆	—	—	—	—
29/11/2016	◆	◆	—	—	—	NC	—	—	◆
SM2BAT 10890									
23/11/2016	◆	◆	—	NC	◆	NC	—	◆	—
24/11/2016	◆	◆	—	NC	◆	NC	—	—	◆
25/11/2016	◆	◆	NC	NC	◆	NC	—	—	◆
26/11/2016	◆	◆	NC	NC	◆	NC	—	◆	◆
27/11/2016	◆	◆	—	NC	◆	NC	—	◆	—
28/11/2016	◆	NC	—	NC	◆	NC	—	◆	—

Definition of confidence level codes:

— Not detected.

◆ Unambiguous identification of the species at the site based on measured call characteristics and comparison with available reference material. Greater confidence in this ID would come only after capture and supported by morphological measurements or a DNA sequence.

NC **Needs Confirmation.** Either call quality was poor, or the species cannot be distinguished reliably from another that makes similar calls. Alternative identifications are indicated in the *Comments on identifications* section of this report. If this is a species of conservation significance, further survey work might be required to confirm the record.

SZ422 Bat call identification from Mt Holland, Western Australia

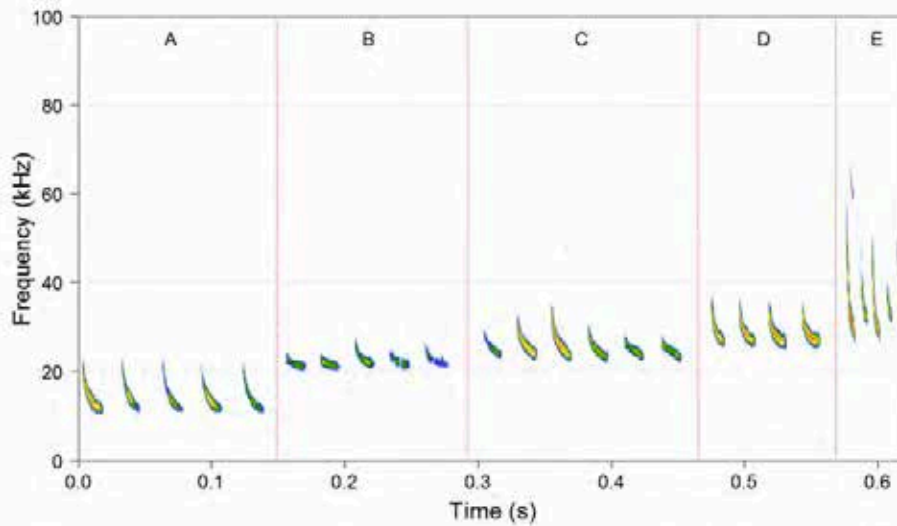


FIGURE 1. Representative call sequence portions of the species identified (A: *Austronomus australis*; B, C: *Ozimops kitcheni*; D: *Ozimops petersi*?; E: *Chalinolobus gouldi*); time between pulses has been compressed).

SZ422 Bat call identification from Mt Holland, Western Australia

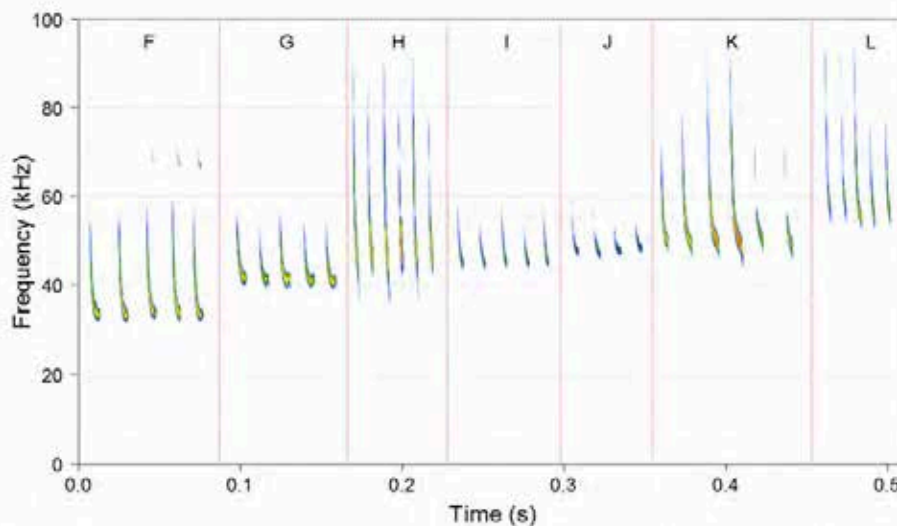


FIGURE 2. Representative call sequence portions of the species identified (F: *Scotorepens balstoni*; G: *Vespadelus regulus*; H: *Nyctophilus* sp.; I, J: *Vespadelus baverstocki*; K: *Chalinolobus morio*; L: *Chalinolobus morio* / *Nyctophilus* sp.); time between pulses has been compressed).