

Appendices

Appendix 1:

**Behaviour of captive kiwi and the corresponding noise data (db), collected
over a one-hour period**

A1.1 Behavioural and noise data collected from Toi (Rainbow Springs), Observation 1

Date: 14/04/2014		Kiwi: Toi		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	67.7		✓				
10	43.8					✓	
15	46.9		✓				
20	43.4		✓				
25	43.9		✓				
30	54.2		✓				
35	53.7		✓				
40	54.6		✓				
45	43.0		✓				
50	43.6						
55	41.3		✓			✓	
60			✓				

Notes:

- Datalogger (DL) still in daylight savings time, one hour forward than real time (RT)
- Start: 11.10am (DL)

A1.2 Behavioural and noise data collected from Te Kaha (Rainbow Springs), Observation 1

Date: 14/04/2014		Kiwi: Te Kaha		Time: 1.30-2.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	48.0		✓				
10	46.3					✓	
15	44.5		✓				
20	47.9					✓	
25	47.2					✓	
30	44.1		✓				
35	44.4		✓				
40	46.5		✓				
45	44.4		✓				
50	43.6					✓	
55	45.5					✓	
60	52.8					✓	

Notes:

- Start: 2.33pm (DL)

A1.3 Behavioural and noise data collected from Cobalt (Rainbow Springs), Observation 1

Date: 14/04/2014		Kiwi: Cobalt		Time: 3.00-4.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5		✓					
10		✓					
15		✓					
20		✓					
25		✓					
30		✓					
35		✓					
40		✓					
45	44.5	✓					
50							
55							
60							

Notes:

- 16.06.44 (DL time) - 80 dB was caused by researcher moving tripod
- 4.35 (DL time) - Park closed due to major water leak. No more visitors through to kiwi display and had to exit building.
- Start: 4.03.20pm (DL)

A1.4 Behavioural and noise data collected from Te Kaha (Rainbow Springs), Observation 2

Date: 15/04/2014		Kiwi: Te Kaha		Time: 9.00-10.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	48.2					✓	
10	43.6		✓				
15	63.1		✓				
20	43.9					✓	
25	47.9		✓				
30	42.7					✓	
35	60.8		✓				
40	45.2		✓				
45	47.4					✓	
50	45.4		✓				
55	45.5		✓				
60			✓				

Notes:

- Kiwi had health check in the morning and was advised that it may behave differently.
- Also reason why start time was late
- Start: 10.19 (DL), 9.15 (RT)

A1.5 Behavioural and noise data collected from Cobalt (Rainbow Springs), Observation 2

Date: 15/04/2014		Kiwi: Cobalt		Time: 11.00-12.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	49.7	✓					
10	46.7	✓					
15	44.0	✓					
20	52.5	✓					
25	46.4	✓					
30	46.1	✓					
35	49.2	✓					
40	48.3	✓					
45	46.6	✓					
50	45.3	✓					
55	61.0	✓					
60		✓					

Notes:

- Kiwi had health check in the morning and was advised that it may behave differently.
- 12.39.10 (DL) - knocked DL with pen (75+ dB)
- Start: 12.04 (DL), 11.00 RT

A1.6 Behavioural and noise data collected from Toi (Rainbow Springs), Observation 2

Date: 15/04/2014		Kiwi: Toi		Time: 3.00-4.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	49.3		✓				
10	42.7		✓				
15	44.8		✓				
20	43.7		✓				
25	43.1		✓				
30	47.0		✓				
35	42.6		✓				
40	48.4		✓				
45	46.3		✓				
50	46.9		✓				
55	43.2		✓				
60			✓				

Notes:

- Kiwi had health check in the morning and was advised that it may behave differently.
- Start: 16.04 (DL), 3.00 (RT)

A1.7 Behavioural and noise data collected from Cobalt (Rainbow Springs), Observation 3

Date: 16/04/2014		Kiwi: Cobalt		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	43.7	✓					
10	45.0	✓					
15	54.0	✓					
20	48.1	✓					
25	48.8	✓					
30	55.1	✓					
35	44.0	✓					
40	44.1	✓					
45	44.4	✓					
50	51.2	✓					
55	60.2	✓					
60		✓					

Notes:

- Start 11.03.25 (DL)

A1.8 Behavioural and noise data collected from Toi (Rainbow Springs), Observation 3

Date: 16/04/2014		Kiwi: Toi		Time: 11.30-12.30			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	49.5					✓	
10	58.1					✓	
15	43.6		✓				
20	43.8					✓	
25	61.4		✓				
30	47.1		✓				
35	41.7		✓				
40	52.4		✓				
45	49.8		✓				
50	50.8		✓				
55	50.9		✓				
60			✓				

Notes:

- Start 12.33.25 (DL), 11.30 (RT)

A1.9 Behavioural and noise data collected from Te Kaha (Rainbow Springs), Observation 3

Date: 16/04/2014		Kiwi: Te Kaha		Time: 1.00-2.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	50.5		✓				
10	46.8					✓	
15	42.4					✓	
20	59.9		✓				
25	43.0		✓				
30	42.9		✓				
35	61.8					✓	
40	44.9		✓				
45	42.8		✓				
50	42.2					✓	
55	44.6		✓				
60						✓	

Notes:

- Kiwi has damaged beak. 33+ years (true age is unknown)
- Miscellaneous is digging burrow for the first two and then listening (startle response?) for the rest
- Starts 14.03.24 (DL), 1.00 (RT)

A1.10 Behavioural and noise data collected from Te Kaha (Rainbow Springs), Observation 4

Date:		Kiwi: Te Kaha		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding	Startle response	Pacing	Miscellaneous	No-view
5	76.9		✓				
10	65.8		✓				
15	49.0		✓				
20	45.2					✓	
25	49.5		✓				
30	56.7				✓		
35	47.3		✓				
40	47		✓				
45	55.1					✓	
50	48.2					✓	
55	49.4		✓				
60						✓	

Notes:

- 1st and 4th miscellaneous = listening. 2nd and 3rd = Preening.
- Startle response was pacing. School group. Not very loud but they were lining the window.
- Noticed that the kiwi investigates the piping along the outskirts of the viewing area of the enclosure
- Raining on and off. Did not increase noise level in visitor area.
- Start 11.03 (DL), 10.00 (RT)

A1.11 Behavioural and noise data collected from Toi (Rainbow Springs), Observation 4

Date: 17/04/2014		Kiwi: Toi		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	67.0		✓				
10	49.7		✓				
15	52.8		✓				
20	45.9		✓				
25	52.1		✓				
30	52.4		✓				
35	57.3		✓				
40	49.1		✓				
45	48.2		✓				
50	49.3		✓				
55	49.2		✓				
60			✓				

Notes:

- Raining steadily. Does increase noise level in viewing area, but not loud (47-54 dB).
- Feeding in same area throughout the whole area
- 1.50...70+ dB - Big kiwi calling (also did it earlier)
- Very steady rain (50.2 dB in viewing area)
- Kiwi is 3 months old
- Start 13.03.28 (DL), 12.00 (RT)

A1.12 Behavioural and noise data collected from Cobalt (Rainbow Springs), Observation 4

Date: 17/04/2014		Kiwi: Cobalt		Time: 3.00-4.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	71.0	✓					
10	53.2	✓					
15	51.2	✓					
20	52.1	✓					
25	58.8	✓					
30	62.9	✓					
35	51.2	✓					
40	56.6	✓					
45	50.0	✓					
50	48.2	✓					
55	45.6	✓					
60		✓					

Notes:

- Heavy rain (53dB)
- 4.16...Kiwi calling, 70+ dB
- Big kiwi pacing - because of rain??
- Sneeze (80+dB)
- Kiwi is 4 months old
- Start = 16.03.27 (DL), 3.00 (RT)

A1.13 Behavioural and noise data collected from Toi (Rainbow Springs), Observation 5

Date: 18/04/2014		Kiwi: Toi		Time: 11.00-12.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	60.8		✓				
10	54.8		✓				
15	64.6			✓			
20	52.6		✓				
25	43.3		✓				
30	46.6		✓				
35	57.5		✓				
40	56.9		✓				
45	58.4		✓				
50	44.7		✓				
55	55.2		✓				
60			✓				

Notes:

- Raining-moderate (46dB)
- Heavy rain @ 12.06.20
- Startle response was a group of loud kids that were very close to window (3 or 4).
- Kiwi was also up close by the window and pacing along the ground by window barrier.
- Start 12:03:54 (DL), 11.00 (RT)

A1.14 Behavioural and noise data collected from Te Kaha (Rainbow Springs), Observation 5

Date: 18/04/2014		Kiwi: Te Kaha		Time: 2.00-3.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	53.8		✓				
10	44.1	✓					
15	43.4					✓	
20	47.4	✓					
25	46.1	✓					
30	45.3	✓					
35	44.5	✓					
40	43.1	✓					
45	44.3	✓					
50	45.5	✓					
55	45.1	✓					
60		✓					

Notes:

- The kiwi had logs full of grubs
- Light-moderate rain (44.6dB)
- Start 15.03.42 (DL), 2.00 (RT)
- Sleeping - in burrow
- Misc 1 = shaking

A1.15 Behavioural and noise data collected from Cobalt (Rainbow Springs), Observation 5

Date: 18/04/2014		Kiwi: Cobalt		Time: 4.00-5.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	59.5	✓					
10	45.1	✓					
15	43.6	✓					
20	52.6	✓					
25	61.0	✓					
30	58.5	✓					
35	51.1	✓					
40	45	✓					
45	48.9	✓					
50	46.3	✓					
55	42.9	✓					
60		✓					

Notes:

- Sleeping - in shelter
- Start 17.04.10 (DL), 4.00 (RT)

A1.16 Behavioural and noise data collected from Te Kaha (Rainbow Springs), Observation 6

Date: 22/04/2014		Kiwi: Te Kaha		Time: 11.00-12.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5						✓	
10		✓					
15		✓				✓	
20							
25		✓					
30						✓	
35		✓					
40		✓					
45		✓					
50	48.0	✓					
55	51.0	✓					
60	47.8	✓					

Notes:

- Forgot to 'clear' DL at 46...
- Start 12.03 (DL), 11.00 (RT)
- Misc 1 - walking
- Misc 2 and 3 = running

A1.17 Behavioural and noise data collected from Toi (Rainbow Springs), Observation 6

Date: 22/04/2014		Kiwi: Toi		Time: 1.00-2.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	73.3		✓				
10	59.8		✓				
15	48.2		✓				
20	47.3		✓				
25	49.9		✓				
30	57.6					✓	
35	44.4		✓				
40	70.5		✓				
45	62.9		✓				
50	48.7		✓				
55	51.2		✓				
60			✓				

Notes:

- Very busy observation (car park was full)
- Start 14.04.00 (DL), 2.00 (RT)
- Between 14.44 14.49 - many people, noise grew louder. Little kiwi started pacing for approx. 5 sec.
- Feeding in same run for whole hour
- Misc 1 = preening

A1.18 Behavioural and noise data collected from Cobalt (Rainbow Springs), Observation 6

Date: 22/04/2014		Kiwi: Cobalt		Time: 4.00-5.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5		✓					
10	51.9	✓					
15	57.2	✓					
20	67.7	✓					
25	46.3	✓					
30	44.9	✓					
35	55.6	✓					
40	53.2	✓					
45	44.2	✓					
50	44.4	✓					
55	42.8	✓					
60	70.3	✓					

Notes:

- Big kiwi pacing for second half of this time. Was informed by keeper that is was distressed due to noisy visitors.
- Start 17.04.00(DL), 4.00 (RT)

A1.19 Behavioural and noise data collected from Toi (Rainbow Springs), Observation 7

Date: 23/04/2014		Kiwi: Toi		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	63.6		✓				
10	59.9		✓				
15	50.7		✓				
20	47.4		✓				
25	65.1		✓				
30	59.6					✓	
35	43.6		✓				
40	60.6		✓				
45	63.5		✓				
50	59.7		✓				
55	46.1		✓				
60			✓				

Notes:

- Start 11.05 (DL), 10.00 (RT)
- Misc 1 = listening

A1.20 Behavioural and noise data collected from Te Kaha (Rainbow Springs), Observation 7

Date: 23/04/2014		Kiwi: Te Kaha		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	70.8		✓				
10	49.6		✓				
15	50.0		✓				
20	57.9	✓					
25	56.2	✓					
30	49.5	✓					
35	56.2	✓					
40	58.6	✓					
45	44.6	✓					
50	54.5			✓			
55	47.5			✓			
60			✓				

Notes:

- 18.30ish - Kiwi got into closed burrow and went to sleep
- 13.37 - kiwi got woken up by keeper
- 13.49.55 - kiwi got fed live bugs (crickets)
- Kiwi got startled when fed it live bugs
- Start 13.04.08 (DL), 12.00 (RT)
- 40 and 45 - kiwi was sleeping outside burrow

A1.21 Behavioural and noise data collected from Cobalt (Rainbow Springs), Observation 7

Date: 23/04/2014		Kiwi: Cobalt		Time: 3.00-4.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	55.3	✓					
10	55.5	✓					
15	66.3	✓					
20	46.4	✓					
25	64.6	✓					
30	47.0	✓					
35	59.1	✓					
40	63.1	✓					
45	57.8	✓					
50	69.5	✓					
55	49.7	✓					
60		✓					

Notes:

- Very busy observation. School holidays
- Start: 16.04.09

A1.22 Behavioural and noise data collected from Cobalt (Rainbow Springs), Observation 8

Date: 24/04/2014		Kiwi: Cobalt		Time: 9.00-10.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	68.6	✓					
10	45.5	✓					
15	43.9	✓					
20	45.7	✓					
25	42.8	✓					
30	45.1	✓					
35	43.9	✓					
40	46.0	✓					
45	43.5	✓					
50	61.7	✓					
55	49.1	✓					
60	53	✓					

Notes:

- Just after Easter weekend. School holidays.
- Haven't seen Cobalt for almost a week. Keepers said the same
- Start 10:04:15 (DL), 9.00 (RT)

A1.23 Behavioural and noise data collected from Toi (Rainbow Springs), Observation 8

Date: 24/04/2014		Kiwi: Toi		Time: 10.30-11.30am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	74.2		✓				
10	60.6		✓				
15	53.2		✓				
20	48.9		✓				
25	49.6					✓	
30	48.7		✓				
35	59.7		✓				
40	49.0		✓				
45	57.5		✓				
50	44.2		✓				
55	49.2		✓				
60	56.2		✓				

Notes:

- Start 11:34:16 (DL), 10:30 (RT)
- Misc 1 - preening

A1.24 Behavioural and noise data collected from Te Kaha (Rainbow Springs), Observation 8

Date: 24/04/2014		Kiwi: Te Kaha		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	60.3				✓		
10	66.4				✓		
15	59.8				✓		
20	90.2		✓				
25	55.4				✓		
30	50.1				✓		
35	45.1				✓		
40	51.2				✓		
45	55.0				✓		
50	42.6				✓		
55	46.5				✓		
60	64.4				✓		

Notes:

A1.25 Behavioural and noise data collected from Cobalt (Rainbow Springs), Observation 9

Date: 29/04/2014		Kiwi: Cobalt		Time: 11.00-12.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	46.0	✓					
10	42.5	✓					
15	42.9	✓					
20	44.2	✓					
25	54.9	✓					
30	52.1	✓					
35	47.6	✓					
40	42.3	✓					
45	60.9	✓					
50	45.7	✓					
55	50.9	✓					
60		✓					

Notes:

- Not as busy
- When the datalogger is in the 40db and 50db, likely no visitors in nocturnal display
- Start 12:05:00 (DL), 11.00 (RT)

A1.26 Behavioural and noise data collected from Te Kaha (Rainbow Springs), Observation 9

Date: 29/04/2014		Kiwi: Te Kaha		Time: 12.30-1.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	64.3		✓				
10	56.9		✓				
15	44.4					✓	
20	48.9						
25	46.3					✓	
30	45		✓				
35	46.5					✓	
40	47.6	✓					
45	41.7	✓					
50	50.3	✓					
55	43.2	✓					
60	49.6	✓					

Notes:

- "outside" = sleeping outside burrow
- Start 13.35.00 (DL), 12.30 (RT)
- Misc 1, 2, 3, = motionless
- Misc 4 = preening

A1.27 Behavioural and noise data collected from Toi (Rainbow Springs), Observation 9

Date: 29/04/2014		Kiwi: Toi		Time: 2.00-3.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	59.2		✓				
10	44.6		✓				
15	47.7		✓				
20	42.7		✓				
25	43.5		✓				
30	54.7		✓				
35	54.2		✓				
40	53.7		✓				
45	42.8		✓				
50	61.9				✓		
55	62.2		✓				
60	46.7		✓				

Notes:

- Pacing- three small children being very noisy
- Start 15.05.57 (DL), 10.00 (RT)

A1.28 Behavioural and noise data collected from Kevin (Otorohanga Kiwi House), Observation 1

Date: 26/06/2014		Kiwi: Kevin		Time: 11.45-12.45pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	48.2		✓				
10	50		✓				
15	47.1		✓				
20	46.5		✓				
25	47.1		✓				
30	49.3		✓				
35	47.3		✓				
40	47.0		✓				
45	45.7		✓				
50	48.3		✓				
55	46.6		✓				
60	45.8		✓				

Notes:

- Start : 12:55:27

A1.29 Behavioural and noise data collected from Aroha (Otorohanga Kiwi House), Observation 1

Date: 26/06/2014		Kiwi: Aroha		Time: 1.30-2.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	50					✓	
10	50.4					✓	
15	39.5					✓	
20	44.8					✓	
25	39.2					✓	
30	59.8					✓	
35	60.7					✓	
40	58.0					✓	
45	63.4					✓	
50	39.5					✓	
55	40.9					✓	
60	44.8					✓	

Notes:

- Start: 14:44:02
- Misc all -stationary

A1.30 Behavioural and noise data collected from Kahurangi and Koru (Otorohanga Kiwi House), Observation 1

Date: 26/06/2014		Kiwi: Kahurangi and Koru		Time: 2.40-3.40pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	42.6	✓	✓				
10	71.3	✓	✓				
15	44.6	✓	✓				
20	40.7	✓	✓				
25	38.7	✓	✓				
30	39.0	✓	✓				
35	40.4	✓	✓				
40	47.2	✓	✓				
45	41.0	✓	✓				
50	57.8	✓				✓	
55	41.6	✓	✓				
60	65	✓	✓				

Notes:

- Start: 15:48:06
- Kahurangi is dominant
- Misc = investigating perimeters (back wall)
- Fed at 6:49:00

A1.31 Behavioural and noise data collected from Kevin (Otorohanga Kiwi House), Observation 2

Date: 27/06/2014		Kiwi: Kevin		Time: 10.00-11.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	58.9		✓				
10	47.4		✓				
15	47.6		✓				
20	51.3		✓				
25	47.8		✓				
30	48.7		✓				
35	47.9		✓				
40	52.1		✓				
45	47.1		✓				
50	46.1		✓				
55	48.0		✓				
60	46.3		✓				

Notes:

- Start 11:17:23
- Light rain

A1.32 Behavioural and noise data collected from Aroha (Otorohanga Kiwi House), Observation 2

Date: 27/06/2014		Kiwi: Aroha		Time: 1.30-2.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	53.3				✓		
10	56.9				✓		
15	46.0				✓		
20	47.9				✓		
25	50.1		✓				
30	41.8					✓	
35	53.4					✓	
40	53.2		✓				
45	41.3		✓				
50	41.6		✓				
55	41.2		✓				
60			✓				

Notes:

- Start 14:54:13
- Heavy rain
- Misc all - investigating back wall
- Start 15:37:28 (ran out of battery)

A1.33 Behavioural and noise data collected from Kahurangi and Koru (Otorohanga Kiwi House), Observation 2

Date: 27/06/2014		Kiwi: Kahurangi and Koru		Time: 2.30-3.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	46.0					✓ ✓	
10	54.0	✓				✓	
15	56.3	✓ ✓					
20	43.0		✓			✓	
25	50.8		✓			✓	
30	46.0					✓ ✓	
35	44.0		✓			✓	
40	47.7		✓			✓	
45	77.6		✓			✓	
50	39.9		✓			✓	
55	49.7	✓ ✓					
60	45.1	✓ ✓					

Notes:

- Start 15:59:51
- Kiwis dug themselves into the burrow, keeper got kiwis out after a while
- Fed at 16:48:40

A1.34 Behavioural and noise data collected from Kevin (Otorohanga Kiwi House), Observation 3

Date: 30/06/2014		Kiwi: Kevin		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	58.1		✓				
10	48.9		✓				
15	48.5		✓				
20	46.8		✓				
25	46.9		✓				
30	47.8		✓				
35	48.7		✓				
40	48.0		✓				
45	55.9		✓				
50	47.9		✓				
55	47.8		✓				
60	47.7					✓	

Notes:

- Start 13:17:09
- Light rain
- Misc = preening

A1.35 Behavioural and noise data collected from Kahurangi and Koru (Otorohanga Kiwi House), Observation 3

Date: 30/06/2014		Kiwi: Kahurangi and Koru		Time: 1.30-2.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	68.6					✓	✓
10	51.7		✓			✓	
15	60.9					✓	✓
20	50.5					✓	✓
25	63.7					✓	✓
30	53.5					✓	✓
35	47.1		✓			✓	
40	54.0					✓	✓
45	54.4		✓			✓	
50	43.2					✓	✓
55	50.7					✓	✓
60	46.3		✓			✓	

Notes:

- Start 14:42:46 (Guide was talking). Kiwi just got woken up.
- Misc 1, 5 Koru = investigating perimeters (back wall)
- Misc 2, 3, 4, 6, 7, 8, 9,10, 11, 12, 13 (heavier rain) Koru = stationary
- Misc 1, 3, 4, 5, 9 (heavier rain) Kahurangi = stationary
- Misc 2, 7, 8 Kahurangi = investigating perimeters (back wall, kiwis being fed on other side)
- Misc 6 Kahurangi = running
- Light rain

A1.36 Behavioural and noise data collected from Aroha (Otorohanga Kiwi House), Observation 3

Date: 30/06/2014		Kiwi: Aroha		Time: 2.35-3.35pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	69.4				✓		
10	43.3				✓		
15	45.7				✓		
20	52.1				✓		
25	48.1				✓		
30	58.2		✓				
35	48.6		✓				
40	49.6		✓				
45	48.7					✓	
50	47.6		✓				
55	50.7		✓				
60	48.2		✓				

Notes:

- Start 15:48:15
- Noise level of light rain in enclosure = 53.0, 53.9, 54.0
- Misc 1 = investigating perimeters

A1.37 Behavioural and noise data collected from Kevin (Otorohanga Kiwi House), Observation 4

Date: 1/07/2014		Kiwi: Kevin		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	50.2		✓				
10	48.9		✓				
15	72.0			✓			
20	50.6		✓				
25	46.9		✓				
30	49.5		✓				
35	49.6					✓	
40	48.1		✓				
45	47.3		✓				
50	46.7		✓				
55	47.1		✓				
60	63.2		✓				

Notes:

- Start 13:15:30
- Startle = running (loud in viewing area)
- Misc 2 = Preening

A1.38 Behavioural and noise data collected from Kahurangi and Koru (Otorohanga Kiwi House), Observation 4

Date: 1/07/2014		Kiwi: Kahurangi and Koru		Time: 1.35-2.35pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	68.6					✓	✓
10	51.7		✓			✓	
15	60.9					✓	✓
20	50.5					✓	✓
25	63.7		✓			✓	
30	53.5		✓			✓	
35	47.1					✓	✓
40	54.0		✓			✓	
45	54.4		✓			✓	
50	43.2		✓			✓	
55	50.7		✓			✓	
60	46.3		✓			✓	

Notes:

- Start 14:46:11
- Started a little later as they were late getting the kiwi up
- Misc Koru (all)= stationary (just woken up)
- Misc 1, 2 Kahurangi = stationary (just woken up)
- Misc 3, 4 Kahurangi = investigating perimeters (back wall) (AM feeding)
- Light rain

A1.39 Behavioural and noise data collected from Aroha (Otorohanga Kiwi House), Observation 4

Date: 1/07/2014		Kiwi: Aroha		Time: 2.40-3.40			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	46.6				✓		
10	46.6					✓	
15	44.2		✓				
20	44.2		✓				
25	40.8					✓	
30	42.7					✓	
35	40		✓				
40	44.8					✓	
45	38.9		✓				
50	40.7		✓				
55	41.9		✓				
60	62.1	✓					

Notes:

- Start 15:52:15
- Misc 1, 2, 3, 4 = investigating perimeters (back wall)
- Fed at 16:45:13
- Pacing – light rain

A1.40 Behavioural and noise data collected from Kevin (Otorohanga Kiwi House), Observation 5

Date: 407/2014		Kiwi: Kevin		Time: 9.00-10.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	56.4		✓				
10	50.3		✓				
15	60.3		✓				
20	46.2		✓				
25	48.4		✓				
30	54.9		✓				
35	48.2		✓				
40	51.1		✓				
45	46.6		✓				
50	73.9		✓				
55	72.0		✓				
60	58.4		✓				

Notes:

- Start 10:17:13

A1.41 Behavioural and noise data collected from Aroha (Otorohanga Kiwi House), Observation 5

Date: 4/07/2014		Kiwi: Aroha		Time: 2.15-3.15			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	58.6	✓					
10	44.1	✓					
15	39.4	✓					
20	39.3	✓					
25	39.4	✓					
30	38.3	✓					
35	38.6	✓					
40	39.4	✓					
45	45.7	✓					
50	41.0	✓					
55	43.9	✓					
60	42.3	✓					

Notes:

- Start 15:33:49
- First observation without rain. Last observation of school. Not busy

A1.42 Behavioural and noise data collected from Kahurangi and Koru (Otorohanga Kiwi House), Observation 5

Date: 4/07/2014		Kiwi: Kahurangi and Koru		Time: 3.30-4.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	77.0	✓	✓				
10	58.7	✓	✓				
15	49.6		✓	✓			
20	44.2		✓			✓	
25	62.6		✓	✓			
30	46.5	✓	✓				
35	45.3	✓	✓				
40	72.2	✓	✓				
45	53.8	✓	✓				
50	42.2		✓			✓	
55						✓	✓
60							

Notes:

- Start 16:41:25
- Fed at 16:49:00
- Misc 1 Kahurangi = digging (into burrow)
- Misc 2 Kahurangi = investigating perimeters (back wall)
- Misc 3 Kahurangi = stationary
- Misc 1 koru = investigating perimeters (back wall)
- Kiwi hutches were opened early
- Hutches open 17:33:06

A1.43 Behavioural and noise data collected from Kevin (Otorohanga Kiwi House), Observation 6

Date: 5/07/2014		Kiwi: Kevin		Time: 11.00-12.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	61.6		✓				
10	48.2		✓				
15	49.1		✓				
20	47.8		✓				
25	73.1		✓				
30	64.2		✓				
35	51.1		✓				
40	51.7		✓				
45	66.1		✓				
50	64.9		✓				
55	49.1		✓				
60	47.2		✓				

Notes:

- Start: 12:12:35
- Light rain

A1.44 Behavioural and noise data collected from Kahurangi and Koru (Otorohanga Kiwi House), Day 6

Date: 5/07/2014		Kiwi: Kahurangi and Koru		Time: 3.30-4.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	53.3					✓	✓
10	43.1					✓	✓
15	41.9	✓	✓				
20	55.8	✓	✓				
25	39.1	✓	✓				
30	52.4	✓	✓				
35	58.5	✓	✓				
40	50.2		✓				
45	54.8		✓				
50	39.0		✓			✓	
55	47.8		✓				
60	30.6		✓				

Notes:

- Start 14:45:10
- Misc 1, 2 Koru = investigating perimeters (back wall)
- Misc 1, 2 Kahurangi = stationary
- Misc 3, 4 Kahurangi = investigating perimeters (back wall)

A1.45 Behavioural and noise data collected from Aroha (Otorohanga Kiwi House), Observation 6

Date: 5/07/2014		Kiwi: Aroha		Time: 2.35-3.35pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-
5	50.3					✓	
10	51.6	✓					
15	42.1	✓					
20	45.6	✓					
25	40.5	✓					
30	39.9	✓					
35	39.4	✓					
40	61.6	✓					
45	56.7	✓					
50	56	✓					
55	54.7	✓					
60	41.1	✓					

Notes:

- Start 15:50:38
- Misc 1 = probing beak through fence where other Koru is sleeping
- Fed at 16:46:00

A1.46 Behavioural and noise data collected from Kevin (Otorohanga Kiwi House), Observation 7

Date: 8/07/2014		Kiwi: Kevin		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	51.4		✓				
10	45.6		✓				
15	49.6		✓				
20	45.5		✓				
25	45.9		✓				
30	46.1		✓				
35	46.4		✓				
40	58.8					✓	
45	69.6		✓				
50	46.5		✓				
55	46.9		✓				
60	46.8		✓				

Notes:

- Start 11:14:42
- School holidays - but not busy
- Misc 1 = investigating wall

A1.47 Behavioural and noise data collected from Kahurangi and Koru (Otorohanga Kiwi House), Observation 7

Date: 8/07/2014		Kiwi: Kahurangi and Koru		Time: 2.35-3.35pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	61.6	✓	✓				
10	54.4	✓	✓				
15	45.4	✓	✓				
20	47.8	✓	✓				
25	48.1	✓	✓				
30	39.6	✓	✓				
35	47.4	✓	✓				
40	45.2	✓	✓				
45	41.4	✓	✓				
50	39.3	✓	✓				
55	65.4	✓	✓				
60	42.0	✓	✓				

Notes:

- Start 15:52:10
- Fed at 16:47:30

A1.48 Behavioural and noise data collected from Aroha (Otorohanga Kiwi House), Observation 7

Date: 8/07/2014		Kiwi: Aroha		Time: 2.35-3.35pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	50.3	✓					
10	51.6	✓					
15	42.1	✓					
20	45.6	✓					
25	40.5	✓					
30	39.9	✓					
35	39.4	✓					
40	61.6	✓					
45	56.7	✓					
50	56.0	✓					
55	54.7	✓					
60	41.1	✓					

Notes;

- Start 14:44:08

A1.49 Behavioural and noise data collected from Kevin (Otorohanga Kiwi House), Observation 8

Date: 9/07/2014		Kiwi: Kevin		Time: 9.00-10.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	51.1					✓	
10	46.3		✓				
15	64.7		✓				
20	47.2		✓				
25	47.8		✓				
30	47.8		✓				
35	48.9		✓				
40	46.4		✓				
45	47.4		✓				
50	47.4		✓				
55	62.9		✓				
60	51.4		✓				

Notes:

- Start 10:13:30
- Misc 1 = stationary
- Fed at 10:52:55

A1.50 Behavioural and noise data collected from Kahurangi and Koru (Otorohanga Kiwi House), Observation 8

Date: 9/07/2014		Kiwi: Kahurangi and Koru		Time: 1.30-2.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	56.1	✓	✓				
10	43.5	✓	✓				
15	56.5	✓	✓				
20	69.3	✓				✓	
25	58.9	✓	✓				
30	50.6	✓				✓	
35	56.6	✓				✓	
40	53.3	✓	✓				
45	41.6	✓	✓				
50	38.5	✓				✓	
55	72.8	✓	✓				
60	41.2	✓	✓				

Notes:

- Start 14:47:06
- Misc 1, 2 Kahurangi = stationary
- Misc 3, 4, 5 Kahurangi = investigating back wall

A1.51 Behavioural and noise data collected from Aroha (Otorohanga Kiwi House), Observation 8

Date: 9/07/2014		Kiwi: Aroha		Time: 3.15-4.15pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	62.2					✓	
10	49.2					✓	
15	48.3					✓	
20	62.3					✓	
25	51.2					✓	
30	63.5					✓	
35	44.4					✓	
40	48.8					✓	
45	79.5					✓	
50	64.4					✓	
55	68.7					✓	
60						✓	

Notes:

- Start 16:28:37
- Misc 1, 2, 3 = investigating back wall
- Fed at 16:47:25
- Misc 4, 5, 6, 7 = stationary

A1.52 Behavioural and noise data collected from Kevin (Otorohanga Kiwi House), Observation 9

Date: 10/07/2014		Kiwi: Kevin		Time: 12.30-1.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	56.7		✓				
10	48.9		✓				
15	49.1		✓				
20	49.7		✓				
25	49.7		✓				
30			✓				
35			✓				
40			✓				
45			✓				
50			✓				
55			✓				
60			✓				

Notes:

- Start 13:40:50

A1.53 Behavioural and noise data collected from Aroha (Otorohanga Kiwi House), Observation 9

Date: 10/07/2014		Kiwi: Aroha		Time: 2.10-3.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	74.1	✓					
10	42.6	✓					
15	57.5		✓				
20	61.5		✓				
25	52.2					✓	
30	43.7					✓	
35	51.3					✓	
40	45.3					✓	
45	42.3		✓				
50	41.5	✓					
55	42.6	✓					
60	44.6	✓					

Notes:

- Start 15:28:27
- Misc 1, 2, 3 = investigating perimeters (back wall)
- Misc 4 = stationary

A1.54 Behavioural and noise data collected from Kahurangi and Koru (Otorohanga Kiwi House), Observation 9

Date: 10/07/2014		Kiwi: Kahurangi and Koru		Time: 3.20-4.20pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	46.7	✓	✓				
10	49.7	✓	✓				
15	61.6	✓	✓				
20	55.8	✓				✓	
25	60.2	✓	✓				
30	57.7	✓	✓				
35	47.1	✓	✓				
40	47.6		✓			✓	
45	76.0		✓			✓	
50	48.4		✓			✓	
55	76.2		✓			✓	
60	51.5					✓	✓

Notes:

- Start = 16:33:20
- Fed at 16:48:30
- Misc 1, 2 Kahurangi = stationary. Bird keeper was in enclosure for feeding
- Misc 1, 2, 3, 4, 5 koru = stationary
- Burrows open = 17:32:15

A1.55 Behavioural and noise data collected from Morehu (Auckland Zoo), Observation 1

Date: 8/05/2014		Kiwi: Morehu		Time: 2.10-3.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	63.2	✓					
10	64.1	✓					
15	63.8	✓					
20	60.9	✓					
25	62.8	✓					
30	74.2		✓				
35	66.2		✓				
40	66.4						✓
45	62.0						✓
50	63.2		✓				
55	65.8		✓				
60							✓

Notes:

- Start 11.05.50 (DL), 10.00 (RT)
- Baseline sound = 63.5dB (waterfall in viewing area)
- Baseline sound when calls are sounding (kiwi and morepork) = 70.1 dB

A1.56 Behavioural and noise data collected from Kahu (Auckland Zoo), Observation 1

Date: 8/05/2014		Kiwi: Kahu		Time: 11.30-12.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	59.8		✓				
10	59.6		✓				
15	61.0		✓				
20	59.5		✓				
25	60.0	✓					
30	58.7	✓					
35	59.8		✓				
40	68.8		✓				
45	58.3					✓	
50	69.1	✓					
55	67.2	✓					
60		✓					

Notes:

- School holidays have finished
- There is an area on the right of the enclosure which doesn't have viewing. It is very dark, the kiwi can be active in this area but not be seen by viewer.
- Sleeping resting ALSO just can't be seen
- Start 12:48:47
- First Misc = chasing female (tried to breed earlier)
- Two tubes put in enclosure in morning, two in afternoon
- Old kiwi enclosure does not have the large 'no-view area' that is in the young kiwi enclosure. However, there are a few areas where you cannot see them.

A1.57 Behavioural and noise data collected from Omeka (Auckland Zoo), Observation 1

Date: 8/05/2014		Kiwi: Omeka		Time: 2.00-3.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	61.4	✓					
10	60.1	✓					
15	61.1	✓					
20	78.7	✓					
25	70.7	✓					
30	59.6	✓					
35	66.6	✓					
40	61.3	✓					
45	64.8	✓					
50	60.4	✓					
55	63.6	✓					
60	62.5	✓					

Notes:

- Kiwi does not seem to be affected by noise
- Young kiwi fed at 2.40pm. Old kiwis fed at 15:48:00.

A1.58 Behavioural and noise data collected from Maia (Auckland Zoo), Observation 1

Date: 8/05/2014		Kiwi: Maia		Time: 3.30-4.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	63.2	✓					
10	64.1	✓					
15	63.8	✓					
20	60.9	✓					
25	62.8	✓					
30	74.2	✓					
35	66.2	✓					
40	66.4	✓					
45	62.0	✓					
50	63.2	✓					
55	65.8	✓					
60		✓					

Notes:

- Losing approx. 20sec each minute.
- Start 16:36:18 (but skipped a second so could show 6:36:17 on computer.
- Can't download data from datalogger. Says *invalid date to encode* on computer

A1.59 Behavioural and noise data collected from Maia (Auckland Zoo), Observation 2

Date: 9/05/2014		Kiwi: Maia		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	65.1	✓					
10	67.2	✓					
15	65.2	✓					
20	65.1	✓					
25	65.6	✓					
30	65.0	✓					
35	76.2						✓
40	71.1						✓
45	73.7		✓				
50	73.9		✓				
55	83.9						✓
60	75.4						✓

Notes:

- Start 11:06:47

A1.60 Behavioural and noise data collected from Morehu (Auckland Zoo), Observation 2

Date: 9/05/2014		Kiwi: Morehu		Time: 1.00-2.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	75.1		✓				
10	65.0		✓				
15	64.1		✓				
20	68.1		✓				
25	63.7		✓				
30	64.3		✓				
35	63.6						✓
40	85.7		✓				
45	64.6		✓				
50	64.5		✓				
55	72.2		✓				
60							✓

Notes:

- Start 14:06:37

A1.61 Behavioural and noise data collected from Kahu (Auckland Zoo), Observation 2

Date: 9/05/2014		Kiwi: Kahu		Time: 2.30-3.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	67.8		✓				
10	59.9		✓				
15	61.7		✓				
20	61.0		✓				
25	62.9		✓				
30	62.6		✓				
35	60.9						✓
40	61.2		✓				
45	60.3		✓				
50	60.6		✓				
55	60.7		✓				
60							✓

Notes:

- Start 15:36:37 (DL), 2.30 (RT).
- First, second and third Misc = preening

A1.62 Behavioural and noise data collected from Omeka (Auckland Zoo), Observation 2

Date: 9/05/2014		Kiwi: Omeka		Time: 3.39-4.39pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	60.7	✓					
10	58.7	✓					
15	59.8	✓					
20	59.1	✓					
25	59.7					✓	
30	60.9	✓					
35	60.0	✓					
40	59.0	✓					
45	60.2	✓					
50	62.9	✓					
55	58.6		✓				
60	60.7		✓				

Notes:

- Start 16:45:42 (DL), 3:39 (RT)
- First Misc = fighting with male
- Old kiwis showing breeding behaviour

A1.63 Behavioural and noise data collected from Kahu (Auckland Zoo), Observation 3

Date: 13/05/2014		Kiwi: Kahu		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	64.1		✓				
10	62.5		✓				
15	61.6		✓				
20	61.2		✓				
25	60.5		✓				
30	64.6		✓				
35	66.3		✓				
40	64.8		✓				
45	64.8		✓				
50	66.1					✓	
55	63.9		✓				
60			✓				

Notes

- Start 13:07:04 (DL), 12:00 (RT)
- Misc 1 = preening

A1.64 Behavioural and noise data collected from Morehu (Auckland Zoo), Observation 3

Date: 13/05/2014		Kiwi: Morehu		Time: 1.10-2.10			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	68.6		✓				
10	63.3						✓
15	63.5		✓				
20	73.4						✓
25	63.8						✓
30	64.2						✓
35	63.6						✓
40	63.3						✓
45	62.6						✓
50	68.1		✓				
55	64.6		✓				
60			✓				

Notes:

- Start 14:17:04 (DL), 1.10 (RT)
- Young kiwis fed at 14:59:00
- Old kiwis fed just before this

A1.65 Behavioural and noise data collected from Omeka (Auckland Zoo), Observation 3

Date: 13/05/2014		Kiwi: Omeka		Time: 2.20-3.20pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	67.7	✓					
10	61.0	✓					
15	58.8	✓					
20	58.9	✓					
25	67.1	✓					
30	60.0					✓	
35	60.8	✓					
40	61.4	✓					
45	59.9	✓					
50	61.2	✓					
55	59.7		✓				
60			✓				

Notes:

- Start 15:27:07
- Misc 1 = running
- 30th minute SL/R : saw both kiwi walk into hutch
- Note: Sleeping/Resting kiwi have not been actively seen entering hutch. Just assumed because kiwi cannot be seen in any other area. Accurate for old kiwi enclosures as you can see almost everywhere. However, not accurate for young kiwi enclosure due to no view area.

A1.66 Behavioural and noise data collected from Maia (Auckland Zoo), Observation 3

Date: 13/05/2014		Kiwi: Maia		Time: 3.30-4.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	67.6		✓				
10	64.0		✓				
15	64.2		✓				
20	63.7		✓				✓
25	64.9						
30	63.1		✓				
35	65.2		✓				✓
40	65.0						
45	64.8						✓
50	66.0		✓				✓
55							
60							✓

Notes:

- Start: 16:37:05

A1.67 Behavioural and noise data collected from Morehu (Auckland Zoo), Observation 4

Date: 14/05/2014		Kiwi: Morehu		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	79.9						✓
10	65.7		✓				
15	65.4		✓				
20	65.1		✓				
25	64.2		✓				
30	66.0		✓				
35	81.0						✓
40	66.7						✓
45	66.1						✓
50							✓
55			✓				
60			✓				

Notes:

- Start 11:07:10 (DL), 10.00 (RT)

A1.68 Behavioural and noise data collected from Maia (Auckland Zoo), Observation 4

Date: 14/05/2014		Kiwi: Maia		Time: 11.10-12.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	64.4						✓
10	64.4					✓	
15	70.5		✓				
20	65.3		✓				
25	65.4		✓				
30	64.9		✓				
35	65.0		✓				
40	64.5		✓				
45	65.0		✓				
50	68.4		✓				
55			✓				
60			✓				

Notes:

- Start 12:17:07 (DL), 11.10 (RT)
- 12:19:52 - Heavy rain (70.2dB). Continued to get heavier (79.6dB). Kiwi did not seem to be effected (although did not get a particularly good view - but would have noticed if they were pacing). Although female did run at moderate speed
- Misc 1 - running - maybe in response to noise made by rain?
- 12:27:04, moderate rain, 68.4dB.

A1.69 Behavioural and noise data collected from Omeka (Auckland Zoo), Observation 4

Date: 14/05/2014		Kiwi: Omeka		Time: 1.00-2.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	60.6	✓					
10	60.1	✓					
15	59.5	✓					
20	60.5	✓					
25	60.1	✓					
30	60.0	✓					
35	62.5	✓					
40	64.4	✓					
45	65.3	✓					
50	71.3	✓					
55	61.9	✓					
60	75.4	✓					

Notes:

- Start 14:07:12 (DL), 1.00 (RT)
- Was told that glass separating visitors from kiwi was very thick.
- Old kiwi fed at 14:45:25. Young kiwi fed after

A1.70 Behavioural and noise data collected from Kahu (Auckland Zoo), Observation 4

Date: 14/05/2014		Kiwi: Kahu		Time: 2.10-3.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	75.1		✓				
10	78.4		✓				
15	63.6		✓				
20	60.8		✓				
25	62.7	✓					
30		✓					
35		✓					
40	60.5	✓					
45	60.0		✓				
50	66.8	✓					
55	60.5	✓					
60	59.9	✓					

Notes:

- Start 15:17:11 (DL), 2.10 (RT)
- At 40th min - datalogger was full. But I did 'clear' it.
- At 45th min - actively saw kiwi go into hutch.

A1.71 Behavioural and noise data collected from Morehu (Auckland Zoo), Observation 5

Date: 15/05/2014		Kiwi: Morehu		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	65.2						
10	65.0						
15	64.7					✓	
20	65.5		✓				
25	66.8		✓				
30	62.3		✓				
35	63.9		✓				
40	65.6		✓				
45	64.9		✓				
50	65.3					✓	
55		✓					
60		✓					

Notes:

- Start 11:07:19
- Misc 1 = running (after female), 2 = running

A1.72 Behavioural and noise data collected from Kahu (Auckland Zoo), Observation 5

Date: 15/05/2014		Kiwi: Kahu		Time: 11.10-12.10			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	63.8		✓				
10	61.4		✓				
15	68.1		✓				
20	62.3		✓				
25	74.4		✓				
30	62.7						✓
35	61.4		✓				
40	73.9		✓				
45	76.0		✓				
50	74.1					✓	
55	83.4					✓	
60		✓					

Notes:

- Start = 12.18.14
- Misc 1 and 2 = running

A1.73 Behavioural and noise data collected from Omeka (Auckland Zoo), Observation 5

Date: 15/05/2014		Kiwi: Omeka		Time: 12.20-1.20pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	63.1	✓					
10	72.5	✓					
15	60.6	✓					
20	61.1	✓					
25	61.9	✓					
30	61.1	✓					
35	61.2	✓					
40	71.8	✓					
45	62.8	✓					
50	73.8	✓					
55	61.4	✓					
60		✓					

Notes:

- Start 13:28:49 (DL), 12.22 (RT)

A1.74 Behavioural and noise data collected from Maia (Auckland Zoo), Observation 5

Date: 15/05/2014		Kiwi: Maia		Time: 2.00-3.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	63.5						✓
10	65.6						✓
15	64.3						✓
20	65.5		✓				
25	64.3		✓				
30	68.4		✓				
35	65.1						✓
40	65.9		✓				
45	63.8						✓
50	64.6		✓				
55			✓				
60							✓

Notes:

- Start 15:08:19 (DL), 2.00 (RT)
- All kiwi fed between 1.30-2.00pm

A1.75 Behavioural and noise data collected from Maia (Auckland Zoo), Observation 6

Date: 16/05/2014		Kiwi: Maia		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	73.5		✓				
10	64.6		✓				
15	64.9					✓	
20	65.0		✓				
25	63.9		✓				
30	64.3					✓	
35	65.1		✓				
40	64.9		✓				
45	68.1						✓
50			✓				
55			✓				
60			✓				

Notes:

- Start 11:07:25
- Misc 1 and 2 = running (chased by male)
- Very busy observation. Schools everywhere - noisy kids

A1.76 Behavioural and noise data collected from Kahu (Auckland Zoo), Observation 6

Date: 16/05/2014		Kiwi: Kahu		Time: 11.10-12.10			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	82.8		✓				
10	62.5					✓	
15	63.8		✓				
20	62.4						✓
25	60.1						✓
30	74.3						✓
35	69.2		✓				
40	60.9	✓					
45	60.6	✓					
50	67.2	✓					
55	59.6	✓					
60		✓					

Notes:

- Start 12:17:40
- Misc 1 = Motionless
- Very busy observation. Schools everywhere - noisy kids.

A1.77 Behavioural and noise data collected from Morehu (Auckland Zoo), Observation 6

Date: 16/05/2014		Kiwi: Morehu		Time: 2.00-3.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	72.8						✓
10	65.6						✓
15	65.9						✓
20	65.9						✓
25	82.7		✓				
30	65.7						✓
35	65.3						✓
40	63.9						✓
45	67						✓
50	64						✓
55							✓
60							✓

Notes:

- Start 15:07:26
- Very busy observation. Schools everywhere - noisy kids

A1.78 Behavioural and noise data collected from Omeka (Auckland Zoo), Observation 6

Date: 16/05/2014		Kiwi: Omeka		Time: 3.10-4.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	71.5	✓					
10	60.3	✓					
15	59.4		✓				
20	70.7	✓					
25	62.6		✓				
30	60.9		✓				
35	59.6		✓				
40	66.5		✓				
45	60.0		✓				
50	69.6		✓				
55	60.5		✓				
60							✓

Notes:

- Start 16:18:24
- SI/R 1 and 2 = saw kiwi go into burrow
- Very busy observation. Schools everywhere - noisy kids.
- Both kiwi seem to be much more active (no schools later afternoon)

A1.79 Behavioural and noise data collected from Kahu (Auckland Zoo), Observation 7

Date: 17/05/2014		Kiwi: Kahu		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	61.8		✓				
10	62.7		✓				
15	60.2					✓	
20	61.4	✓					
25	69.1	✓					
30	61.3	✓					
35	61.8		✓				
40	60.1		✓				
45	59.1						✓
50	60					✓	
55	62.4					✓	
60	61.5		✓				

Notes:

- Start 10:53:37
- Misc 1, 4 = fighting with female
- Misc 2, 3 = walking, male following female
- Sleeping/resting (all) - saw kiwi go into hutch

A1.80 Behavioural and noise data collected from Omeka (Auckland Zoo), Observation 7

Date: 17/05/2014		Kiwi: Omeka		Time: 11.00-12.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	60.7	✓					
10	61.7	✓					
15	73.1	✓					
20	62.6	✓					
25	68.0	✓					
30	62.4	✓					
35	65.5	✓					
40	71.1	✓					
45	60.3	✓					
50	67.8	✓					
55	73.8	✓					
60	67.5	✓					

Notes:

- Start 11:53:37
- When watching the young kiwi, the visitor area was incredibly busy. The noisiest it has ever been. Apparently it is like this every Saturday.

A1.81 Behavioural and noise data collected from Maia (Auckland Zoo), Observation 7

Date: 17/05/2014		Kiwi: Maia		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	65.7		✓				
10	71.3		✓				
15	67.9		✓				
20	65.3		✓				
25	65.0		✓				
30	64.8		✓				
35	65.5						✓
40	68.4						✓
45	65.3						✓
50	65.6						✓
55	69.2						✓
60	71.1						✓

Notes:

- Start 12:53:37
- Very busy observation. Extremely noisy

A1.82 Behavioural and noise data collected from Morehu (Auckland Zoo), Observation 7

Date: 17/05/2014		Kiwi: Morehu		Time: 1.00-2.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	65.5		✓				
10	66.0		✓				
15	65.4		✓				
20	64.9		✓				
25	68.6						✓
30	65.9						✓
35	79.8						✓
40	70.5						✓
45	74.9						✓
50	80.1						✓
55	68.1						✓
60	65.5						✓

Notes:

- Start 13:53:37
- Busiest observation yet. Young fed at 14:45:15

A1.83 Behavioural and noise data collected from Omeka (Auckland Zoo), Observation 8

Date: 19/05/2014		Kiwi: Omeka		Time: 11.00-12.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	63.1		✓				
10	61.6	✓					
15	70.1	✓					
20	66.4	✓					
25	60.9		✓				
30	63.6		✓				
35	61.5					✓	
40	64.3		✓				
45	63.0		✓				
50	60.9		✓				
55	60.8		✓				
60			✓				

Notes:

- Start 12:02:20
- Sleeping/resting - saw kiwi go into hutch
- In the past few observations, the old kiwi have been going in and out of their burrows often, suggesting that they are not actually sleeping. Female laid an egg a couple of observations ago
- Misc 1 = running (chased by male)

A1.84 Behavioural and noise data collected from Morehu (Auckland Zoo), Observation 8

Date: 19/05/2014		Kiwi: Morehu		Time: 1.00-2.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5							✓
10							✓
15							✓
20							✓
25			✓				
30							✓
35			✓				
40			✓				
45			✓				
50							✓
55							✓
60							✓

Notes:

- Start 13:17:49 (DL), 12:10pm (RT)
- Bat feeding station has been moved in line of sight with 'no view area'

A1.85 Behavioural and noise data collected from Maia (Auckland Zoo), Observation 8

Date: 19/05/2014		Kiwi: Maia		Time: 3.00-4.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	60.1		✓				
10	65.9						✓
15	65.6						✓
20	70.4						✓
25	64.9						✓
30	65.6						✓
35	66.2						✓
40	66.4						✓
45	65.8						✓
50	72.7						✓
55	67.1						✓
60	70.7						✓

Notes:

- Start 16:08:00
- When kiwi are in 'no-view area', they are seen feeding even when they cannot be seen in this area, almost certain they are feeding

A1.86 Behavioural and noise data collected from Kahu (Auckland Zoo), Observation 8

Date: 19/05/2014		Kiwi: Kahu		Time: 4.00-5.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	65.6		✓				
10	81.1		✓				
15	60.7		✓				
20	61.2		✓				
25	60.2		✓				
30	61.3	✓					
35	61.2	✓					
40	62.5		✓				
45	58.3		✓				
50			✓				
55			✓				
60			✓				

Notes:

- Start 17:17:31 (DL), 4:10 (RT)

A1.87 Behavioural and noise data collected from Maia (Auckland Zoo), Observation 9

Date: 20/05/2014		Kiwi: Maia		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	67.8						✓
10	65.3						✓
15	67.5		✓				
20	68.1						✓
25	62.8						✓
30	64.7						✓
35	68.7						✓
40	67.2						✓
45	63.0						✓
50	63.8						✓
55			✓				
60			✓				

Notes:

- Start 11:07:53

A1.88 Behavioural and noise data collected from Omeka (Auckland Zoo), Observation 9

Date: 20/05/2014		Kiwi: Omeka		Time: 1.00-2.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	73.2	✓					
10	59.6	✓					
15	63.8	✓					
20	59.3	✓					
25	63.9	✓					
30	69.6	✓					
35	69.0	✓					
40	60.2	✓					
45	72.3	✓					
50	59.4	✓					
55	71.0	✓					
60		✓					

Notes:

- Start 4:07:52
- Fed at 14:33:38

A1.89 Behavioural and noise data collected from Kahu (Auckland Zoo), Observation 9

Date: 20/05/2014		Kiwi: Kahu		Time: 2.45-3.45pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	52.9		✓				
10	60.1		✓				
15	60.7		✓				
20	68.1		✓				
25	67.0		✓				
30	61.2		✓				
35	60.2		✓				
40	59.7		✓				
45	60.0		✓				
50			✓				
55							✓
60							✓

Notes:

Start 15:53:59 (DL), 2:45 (RT)

A1.90 Behavioural and noise data collected from Morehu (Auckland Zoo), Observation 9

Date: 20/05/2014		Kiwi: Morehu		Time: 3.55-4.55pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	68.2						✓
10	66.1		✓				
15	66.6		✓				
20	67.1						✓
25	60.1		✓				
30	65.7		✓				
35	66.0		✓				
40	65.9						✓
45	66.0						✓
50	64.9						✓
55							✓
60							✓

Notes:

- Start 17:02:37 (DL), 3:54 (RT)

A1.91 Behavioural and noise data collected from Tawahi (Kiwi Birdlife Park), Observation 1

Date: 6/06/2014		Kiwi: Tawahi		Time: 11.00-12.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	36.7		✓				
10	38.8					✓	
15	39.7		✓				
20	37.5		✓				
25	36.8	✓					
30	37.3	✓					
35	39.8	✓					
40	42.1	✓					
45	36.6	✓					
50	38.8	✓					
55	37.4	✓					
60	37.1	✓					

Notes:

Start 12:09:20

- Only needed one practise observation as kiwi are easily definable and very easy to spot within their enclosure
- Misc = exploring perimeter (exit)
- If dB is high 40's or in 50's = likely me walking.
- These kiwi have an egg. Although was informed that male is not good at incubating
- Not many tourists this time of year.
- Forgot to 'clear'

A1.92 Behavioural and noise data collected from Tamanui (Kiwi Birdlife Park), Observation 1

Date: 6/06/2014		Kiwi: Tamanui		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	46.7					✓	
10	35.9		✓				
15	42.7		✓				
20	36.3		✓				
25	37.4	✓					
30	36.0	✓					
35	37.7	✓					
40	37.0	✓					
45	37.8		✓				
50	40.6						✓
55	38.5	✓					
60	39.2	✓					

Notes:

- Start 13:10:01
- Misc = exploring perimeters (exit door)
- Misc 2 = drinking
- Fed at 1314:26

A1.93 Behavioural and noise data collected from Kaitiaki (Kiwi Birdlife Park), Observation 1

Date: 6/06/2014		Kiwi: Kaitiaki		Time: 3.10-4.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	59.9		✓				
10	70.7		✓				
15	36.3		✓				
20	41.6		✓				
25	37.2		✓				
30	36.2		✓				
35	36.9					✓	
40	48.1		✓				
45	51.0		✓				
50	42.1		✓				
55	39.0		✓				
60	40.1		✓				

Notes:

- Start = 15:59:02
- Misc = fighting

A1.94 Behavioural and noise data collected from Koha (Kiwi Birdlife Park), Observation 1

Date: 6/06/2014		Kiwi: Koha		Time: 4.00-5.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	60.5		✓				
10	35.7		✓				
15	51.3		✓				
20	45.4		✓				
25	37.8		✓				
30	42.6		✓				
35	55.6		✓				
40	44.8		✓				
45	53.8	✓					
50	63.6	✓					
55	35.4	✓					
60		✓					

Notes:

- Start = 17:09:41
- Fed at 17:45:05

A1.95 Behavioural and noise data collected from Kaitiaki (Kiwi Birdlife Park), Observation 2

Date: 7/06/2014		Kiwi: Kaitiaki		Time: 9.00-10.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	57.7		✓				
10	35.8	✓					
15	42.5		✓				
20	35.9		✓				
25	43.0	✓					
30	37.3	✓					
35	35.9	✓					
40	38.5	✓					
45	36.0	✓					
50	36.8	✓					
55	35.7	✓					
60	36.6	✓					

Notes:

- Start 10:09:55
- Cannot start exactly at 9.00am as the doors don't open till 9 and it takes a few minutes to put my laptop in office and walk down to kiwi enclosures

A1.96 Behavioural and noise data collected from Tamanui (Kiwi Birdlife Park), Observation 2

Date: 7/06/2014		Kiwi: Tamanui		Time: 10.10-11.10am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	59.1		✓				
10	36.1		✓				
15	37.5		✓				
20	52.3		✓				
25	36.0		✓				
30	37.2		✓				
35	36.8		✓				
40	41.3	✓					
45	36.2	✓					
50	36.1	✓					
55	38.4	✓					
60	49.3	✓					

Notes:

- Start 11:19:30
- Just been fed - 10am, 12pm
- Sleeping/resting - or incubating egg?

A1.97 Behavioural and noise data collected from Koha (Kiwi Birdlife Park), Observation 2

Date: 7/06/2014		Kiwi: Koha		Time: 11.20-12.20pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	49.2		✓				
10	36.0		✓				
15	35.7		✓				
20	36.7		✓				
25	41.3		✓				
30	35.5		✓				
35	49.7		✓				
40	35.5		✓				
45	42.5		✓				
50	36.5		✓				
55	35.6		✓				
60	35.4		✓				

Notes:

- Start 12:31:20

A1.98 Behavioural and noise data collected from Tawahi (Kiwi Birdlife Park), Observation 2

Date: 7/06/2014		Kiwi: Tawahi		Time: 12.30-1.30pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	52.2		✓				
10	46.3					✓	
15	37.3		✓				
20	37.1		✓				
25	35.8		✓				
30	40.2		✓				
35	37.7		✓				
40	36.3		✓				
45	36.7		✓				
50	35.8		✓				
55	35.5		✓				
60	36.0		✓				

Notes:

- Start 13:41:13
- Misc = fighting

A1.99 Behavioural and noise data collected from Koha (Kiwi Birdlife Park), Observation 3

Date: 8/06/2014		Kiwi: Koha		Time: 9.00-10.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	46.0		✓				
10	47.9		✓				
15	37.4		✓				
20	35.6		✓				
25	35.5		✓				
30	48.2		✓				
35	36.1		✓				
40	35.9		✓				
45	35.7		✓				
50	36.0		✓				
55	35.8		✓				
60	42.0		✓				

Notes:

- Start = 10:11:47

A1.100 Behavioural and noise data collected from Tamanui (Kiwi Birdlife Park), Observation 3

Date: 8/06/2014		Kiwi: Tamanui		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	54.6					✓	
10	62.4					✓	
15	56.9			✓			
20	36.1		✓				
25	65.8		✓				
30	50.1		✓				
35	36.2		✓				
40	36.5	✓					
45	41.4	✓					
50	36.3	✓					
55	35.7		✓				
60	36.4		✓				

Notes:

- Start 13:11:13
- Fed at 10.00 and 12.00
- Misc = interacting with female
- Fed at 2:26:00
- Startle response = sprinting (keeper was in enclosure feeding)

A1.101 Behavioural and noise data collected from Kaitiaki (Kiwi Birdlife Park), Observation 3

Date: 8/06/2014		Kiwi: Kaitiaki		Time: 1.10-2.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	43.6		✓				
10	39.0		✓				
15	56.0		✓				
20	46.3					✓	
25	53.4		✓				
30	39.1		✓				
35	52.7		✓				
40	36.3					✓	
45	35.7		✓				
50	35.7		✓				
55	36.1		✓				
60	35.8		✓				

Notes:

- Start 14:21:55
- Fed at 1.30, 4.30
- Misc 1 = sprinting
- Fed at 14:45:57
- Misc 2 = stationary
- Sleeping/resting = saw kiwi go into burrow

A1.102 Behavioural and noise data collected from Tawahi (Kiwi Birdlife Park), Observation 3

Date: 8/06/2014		Kiwi: Tawahi		Time: 4.00-5.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	43.0		✓				
10	36.4		✓				
15	36.5					✓	
20	37.9		✓				
25	47.6		✓				
30	35.4		✓				
35	35.2		✓				
40	35.8		✓				
45	36.5		✓				
50	35.3		✓				
55	35.2		✓				
60	36.4		✓				

Notes:

- Start 17:10:22
- Misc = running (not fast)

A1.103 Behavioural and noise data collected from Kaitiaki (Kiwi Birdlife Park), Observation 4

Date: 9/06/2014		Kiwi: Kaitiaki		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	58.4		✓				
10	36.3		✓				
15	37.4		✓				
20	35.8		✓				
25	36.3		✓				
30	43.6		✓				
35	43.7			✓			
40	36.8		✓				
45	37.4		✓				
50	38.4		✓				
55	44.4		✓				
60	44.5		✓				

Notes:

- Start 11:11:07
- Fed at 11:36:00
- Response = sprinting. Four people entered, talked (moderate)

A1.104 Behavioural and noise data collected from Koha (Kiwi Birdlife Park), Observation 4

Date: 9/06/2014		Kiwi: Koha		Time: 11.10-12.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	57.0		✓				
10	41.1		✓				
15	39.3		✓				
20	38.9		✓				
25	36.2		✓				
30	49.5		✓				
35	40.1	✓					
40	35.7	✓					
45	35.7	✓					
50	42.3		✓				
55	35.7		✓				
60	49.9		✓				

Notes:

- Start 12:19:41
- Sleeping/resting - they got a scare from a loud noise from outside. (Jumping/sprinting)

A1.105 Behavioural and noise data collected from Tawahi (Kiwi Birdlife Park), Observation 4

Date: 9/06/2014		Kiwi: Tawahi		Time: 2.00-3.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	61.6		✓				
10	38.0		✓				
15	37.7		✓				
20	37.8		✓				
25	39.1		✓				
30	45.6		✓				
35	37.7		✓				
40	44.7		✓				
45	39.5		✓				
50	37.1		✓				
55	40.2		✓				
60	37.3		✓				

Notes:

- Start 15:14:49
- Fed at 15:24:28
- Light rain

A1.106 Behavioural and noise data collected from Tamanui (Kiwi Birdlife Park), Observation 4

Date: 9/06/2014		Kiwi: Tamanui		Time: 3.10-4.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	59.5		✓				
10	37.6		✓				
15	36.8		✓				
20	36.6		✓				
25	38.3		✓				
30	36.5		✓				
35	36.6		✓				
40	36.8		✓				
45	45.3		✓				
50	44.7					✓	
55	49.1		✓				
60	4.05		✓				

Notes:

- Start 16:37:31
- Misc 1 = interaction with female

A1.107 Behavioural and noise data collected from Tawahi (Kiwi Birdlife Park), Observation 5

Date: 10/06/2014		Kiwi: Tawahi		Time: 10.00-11.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	49.1		✓				
10	49.3		✓				
15	48.7		✓				
20	38.2		✓				
25	38.7		✓				
30	38.4		✓				
35	38.1		✓				
40	38.8		✓				
45	39.6		✓				
50	68.8		✓				
55	43.3		✓				
60	38.7		✓				

Notes:

- Start 11:12:54
- Fed at 11:18:54

A1.108 Behavioural and noise data collected from Tamanui (Kiwi Birdlife Park), Observation 5

Date: 10/06/2014		Kiwi: Tamanui		Time: 11.10-12.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	45.0		✓				
10	49.7					✓	
15	39.1					✓	
20	38.8					✓	
25	38.4					✓	
30	39.1		✓				
35	39.3		✓				
40	53.8		✓				
45	44.2					✓	
50	40.6		✓				
55	63.6		✓				
60	59.1					✓	

Notes:

- Start 12:20:56
- Misc 1, 2, 3, 5, 6 - investigating exit door
- Misc 4 - interaction with female
- Fed at 10 and 12pm
- Fed at 13:17:27

A1.109 Behavioural and noise data collected from Koha (Kiwi Birdlife Park), Observation 5

Date: 10/06/2014		Kiwi: Koha		Time: 12.20-1.20pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	49.7		✓				
10	38.3		✓				
15	43.5		✓				
20	38.4		✓				
25	40.0		✓				
30	43.4		✓				
35	43.2		✓				
40	40.7		✓				
45	43.1		✓				
50	41.0		✓				
55	48.2		✓				
60	53.9		✓				

Notes:

- Start 13:34:57

A1.110 Behavioural and noise data collected from Kaitiaki (Kiwi Birdlife Park), Observation 5

Date: 10/06/2014		Kiwi: Kaitiaki		Time: 2.00-3.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	48.8		✓				
10	36.4		✓				
15	41.7		✓				
20	49.3	✓					
25	36.6		✓				
30	38.5		✓				
35	36.4		✓				
40	49.9		✓				
45	73.4		✓				
50	38.5		✓				
55	37.0		✓				
60	39.7		✓				

Notes:

- Start 15:10:18

A1.111 Behavioural and noise data collected from Kaitiaki (Kiwi Birdlife Park), Observation 6

Date: 11/06/2014		Kiwi: Kaitiaki		Time: 9.00-10.00am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	49.6	✓					
10	37.7	✓					
15	37.2	✓					
20	36.3	✓					
25	37.0	✓					
30	36.7	✓					
35	36.7	✓					
40	36.7	✓					
45	38.8	✓					
50	37.0	✓					
55	37.4	✓					
60	36.0	✓					

Notes:

- Start 10:15:02
- The kiwi was also probing when it was in the burrow. You can see it on the TV screen (they have a camera in the burrow)

A1.112 Behavioural and noise data collected from Koha (Kiwi Birdlife Park), Observation 6

Date: 11/06/2014		Kiwi: Koha		Time: 10.10-11.10am			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	57.1		✓				
10	48.6		✓				
15	48.8		✓				
20	44.4		✓				
25	36.6		✓				
30	37.4		✓				
35	39.7		✓				
40	38.7		✓				
45	43.7		✓				
50	37.9		✓				
55	38.3		✓				
60	37.8		✓				

Notes:

- Start 11:22:10
- Fed at 11:26:20

A1.113 Behavioural and noise data collected from Tawahi (Kiwi Birdlife Park), Observation 6

Date: 11/06/2014		Kiwi: Tawahi		Time: 11.20-12.20pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	63.5		✓				
10	37.3		✓				
15	36.8		✓				
20	42.3		✓				
25	37.3		✓				
30	47.1		✓				
35	44.8		✓				
40	37.6		✓				
45	60.0		✓				
50	37.0		✓				
55	37.3		✓				
60	48.6		✓				

Notes:

- Start 12:30:20
- Fed at 13:16:42

A1.114 Behavioural and noise data collected from Tamanui (Kiwi Birdlife Park), Observation 6

Date: 11/06/2014		Kiwi: Tamanui		Time: 3.00-4.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	51.2		✓				
10	38.5		✓				
15	42.7		✓				
20	38.8		✓				
25	39.3		✓				
30	38.7		✓				
35	52.3		✓				
40	37.9		✓				
45	39.3		✓				
50	39.3		✓				
55	38.4		✓				
60	38.2		✓				

Notes:

- Start 14:13:35

A1.115 Behavioural and noise data collected from Koha (Kiwi Birdlife Park), Observation 7

Date: 12/06/2014		Kiwi: Koha		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	52.2		✓				
10	39.1		✓				
15	36.1		✓				
20	35.9		✓				
25	35.8					✓	
30	36.1		✓				
35	38.3		✓				
40	48.4		✓				
45	37.2		✓				
50	44.8		✓				
55	50.2		✓				
60	47.2		✓				

Notes:

- Start 13:13:25
- Fed at 13:30:38
- Misc = interacting with male

A1.116 Behavioural and noise data collected from Tamanui (Kiwi Birdlife Park), Observation 7

Date: 12/06/2014		Kiwi: Tamanui		Time: 1.10-2.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	61.3		✓				
10	59.0					✓	
15	39.7		✓				
20	39.0					✓	
25	36.7		✓				
30	36.9					✓	
35	37.0					✓	
40	41.0					✓	
45	36.4			✓			
50	38.3		✓				
55	35.3		✓				
60	35.4		✓				

Notes:

- Start 14:20:50
- Misc 1, 2, 5 = Walking along and investigating exit door
- Misc 4 = Listening to a sound outside
- Startle response = Sprinting - keeper was in enclosure feeding
- Fed at 15:01:00

A1.117 Behavioural and noise data collected from Tawahi (Kiwi Birdlife Park), Observation 7

Date: 12/06/2014		Kiwi: Tawahi		Time: 2.20-3.20pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	61.1		✓				
10	35.2		✓				
15	35.3		✓				
20	43.5		✓				
25	38.1		✓				
30	46.0		✓				
35	39.7		✓				
40	38.2		✓				
45	38.0		✓				
50	38.0		✓				
55	36.6		✓				
60	37.0		✓				

Notes:

- Start 15:29:17

A1.118 Behavioural and noise data collected from Kaitiaki (Kiwi Birdlife Park), Observation 7

Date: 12/06/2014		Kiwi: Kaitiaki		Time: 4.00-5.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	56.0	✓					
10	35.8	✓					
15	36.4	✓					
20	40.9	✓					
25	38.1	✓					
30	36.0	✓					
35	39.4		✓				
40	60.6					✓	
45	46.0		✓				
50	65.3		✓				
55	62.9		✓				
60	42.2					✓	

Notes:

- Start 17:02:17
- Misc 1 - sprinting
- Misc 2 - preening
- Fed at 14:06:49

A1.119 Behavioural and noise data collected from Kaitiaki (Kiwi Birdlife Park), Observation 8

Date: 15/06/2014		Kiwi: Kaitiaki		Time: 12.00-1.00pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	53.4		✓				
10	35.5		✓				
15	35.5		✓				
20	35.4		✓				
25	35.6		✓				
30	35.2		✓				
35	35.5		✓				
40	36.7		✓				
45	36.1		✓				
50	42.2		✓				
55	35.4		✓				
60	35.4		✓				

Notes:

- Start 13:15:57
- Started later today as they were cleaning out enclosure and also the datalogger ran out of battery
- Fed at 13:28:36

A1.120 Behavioural and noise data collected from Koha (Kiwi Birdlife Park), Observation 8

Date: 15/06/2014		Kiwi: Koha		Time: 1.10-2.10pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	47.6		✓				
10	35.5		✓				
15	37.1		✓				
20	43.4		✓				
25	36.5		✓				
30	58.0					✓	
35	48.8		✓				
40	35.7		✓				
45	35.6		✓				
50	35.7		✓				
55	35.8		✓				
60			✓				

Notes:

- Start 14:25:14
- Misc = stationary
- Fed at 14:46:30

A1.121 Behavioural and noise data collected from Tawahi (Kiwi Birdlife Park), Observation 8

Date: 15/06/2014		Kiwi: Tawahi		Time: 2.45-3.45			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	69.9		✓				
10	37.2		✓				
15	37.4		✓				
20	37.2		✓				
25	37.1		✓				
30	37.4		✓				
35	38.5		✓				
40	37.5		✓				
45	36.8		✓				
50	45.9		✓				
55	36.7					✓	
60	40.2		✓				

Notes:

- Start 15:53:59
- Misc 1 = interacting with female

A1.122 Behavioural and noise data collected from Tamanui (Kiwi Birdlife Park), Observation 8

Date: 15/06/2014		Kiwi: Tamanui		Time: 3.55-4.55pm			
Time	dB	Sleeping/resting	Feeding behaviour	Startle response	Pacing	Miscellaneous	No-view
5	52.6		✓				
10	37.7		✓				
15	37.0					✓	
20	37.0		✓				
25	36.7		✓				
30	41.0		✓				
35	37.0					✓	
40	48.9					✓	
45	37.1		✓				
50	38.3		✓				
55							
60							

Notes:

- Start 17:0101
- Misc 1 and 4 = chasing female
- Misc 2 = running towards female
- Fed at 17:46:40