

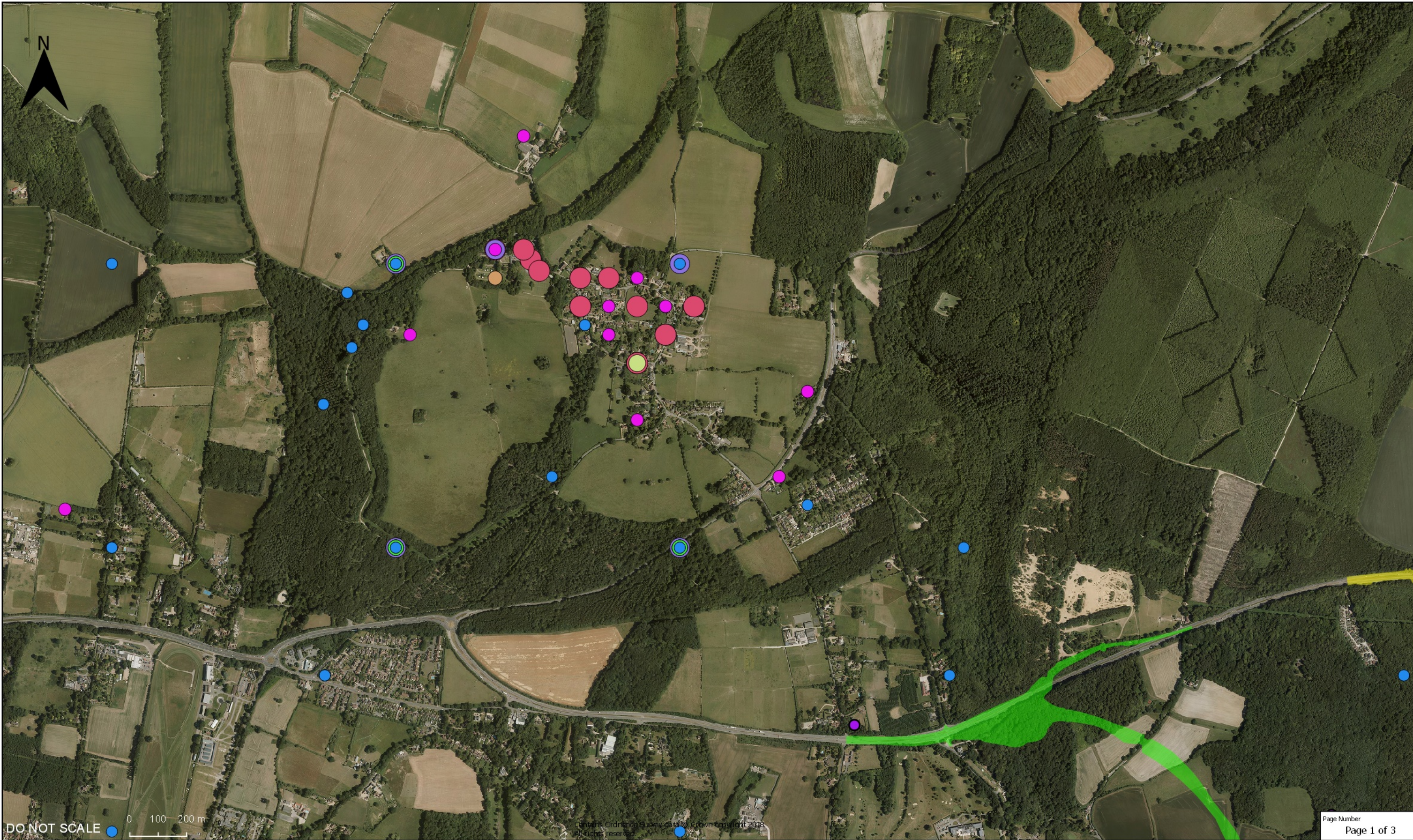
KEY:

Options	DEFRA Transects	DEFRA Stopping Points
Option 1	Option 1	Option 1
Option 3	Option 3	Option 3
Option 5A	Option 5A	Option 5A



Rev	Date	Description	By	Chk'd	App'd

Drawing Status	WORK IN PROGRESS	Suitability	SO	Project Title	REGIONAL INVESTMENT PROGRAMME A27 ARUNDEL				
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Scale	1:17,000	Drawn	JR	Checked	KJ	Approved		Authorised	
Original Size	A3	Date	06/04/18	Date		Date		Date	
Drawing Number	HE551523	Originator	WSP	Volume	-GEN	Project Ref. No.		351134A	
A27 AR		-FI	-GIS	01		Revision		P01	
Location		Type	Role	Number					



KEY:

Sussex Biodiversity Record Centre Data Records	● Maternity Roost	● Unspecified Roost; Droppings
● Unspecified Record	● Maternity Roost; Droppings	Radio Tracking Results 2016-17
● Droppings	● Maternity Roost; Feeding Roost	● Unspecified roost
● Hibemacula Roost	● Unspecified Roost	● Maternity roost



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Drawing Status WORK IN PROGRESS	Suitability S0	Project Title REGIONAL INVESTMENT PROGRAMME A27 ARUNDEL
Drawing Title Data Records Map		
Scale 1:12,500	Drawn JR	Checked KJ
Original Size A3	Date 04/04/18	Approved Date
Drawing Number Project HE551523	Originator WSP	Volume -GEN
A27AR Location	-FI Type	-GIS 11 Number
Project Ref. No. 35111 34A	Revision P01	Authorised -



DO NOT SCALE 0 100 200 m

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KEY:

Sussex Biodiversity Record Centre Data Records

- Maternity Roost
- Maternity Roost; Droppings
- Unspecified Record
- Droppings
- Hibernacula Roost

Radio Tracking Results 2016-17

- Unspecified Roost; Droppings
- Unspecified roost
- Maternity roost



Rev.	Date	Description	By	Chkd	App'd

Drawing Status: WORK IN PROGRESS

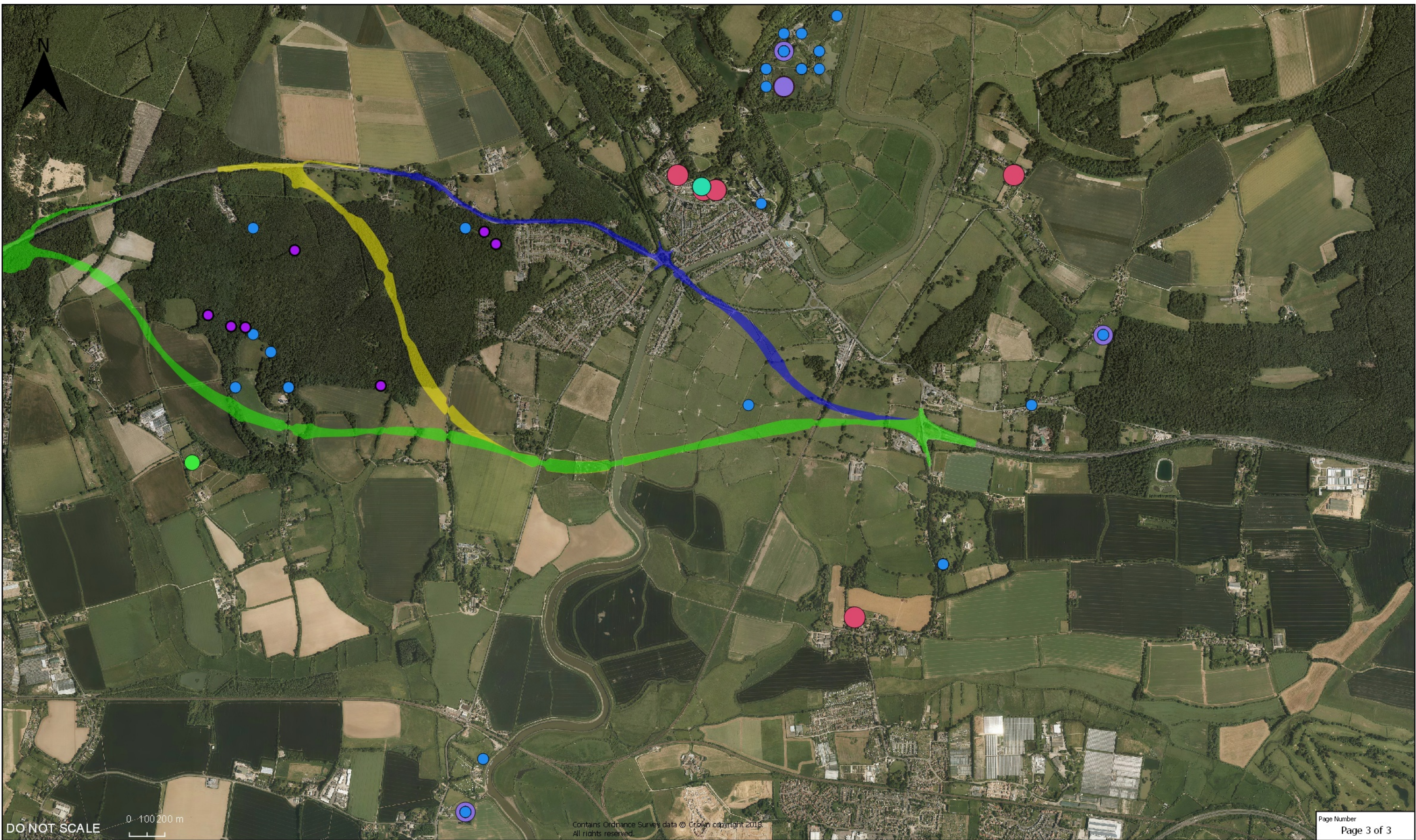
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Drawing Title: Data Records Map				
Scale: 1:12,500	Drawn: JR	Checked: KJ	Approved:	Authorised:
Original Size: A3	Date: 04/04/18	Date:	Date:	Date:
Drawing Number: HE551523	Originator: WSP	Volume: -GEN	Project Ref. No. 35111 34A	
A27AR Location	-FI Type	-GIS Role	01 Number	Revision P01



KEY:

Sussex Biodiversity Record Centre Data Records

- Unspecified Record
- Droppings
- Hibemacula Roost
- Maternity Roost
- Maternity Roost; Droppings
- Maternity Roost; Feeding Roost
- Unspecified roost
- Unspecified Roost

Radio Tracking Results 2016-17

- Unspecified Roost; Droppings
- Unspecified roost
- Maternity roost



Rev.	Date	Description	By	Chkd	App'd

Drawing Status: WORK IN PROGRESS

Suitability: S0

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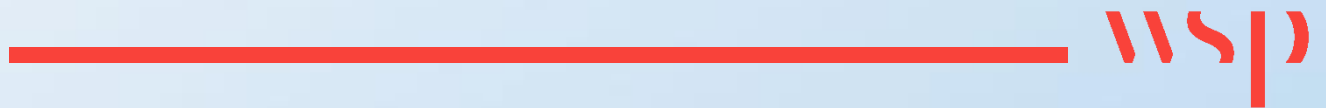
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Project Title: REGIONAL INVESTMENT PROGRAMME A27 ARUNDEL				
Drawing Title: Data Records Map				
Scale: 1:20,000	Drawn: JR	Checked: KJ	Approved:	Authorised:
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Drawing Number: HE-551523	Originator: WSP	Volume: -GEN	Project Ref. No. 35111 34A	
A27AR Location	-FI Type	-GIS Role	01 Number	Revision P01

Appendix A

SURVEY DATA AND DESK STUDY RESULTS



TRANSECT SURVEY DETAILS

The Batlogger settings were as follows;

Trigger Mode: Continuous
 Trigger Mode: Crest Adv
 Trig_Autorec: Auto
 Trig_PAR6: min.Crest = 7
 Trig_PAR7: minimum: 15 kHz
 Trig_PAR8: maximum: 155 kHz

Month	Visit	Transect Route	Date	Start time	End time	Start point	End Point	Weather Start				Weather End				Sunset / Rise	Notes / Limitations
								Temp	Rain	Cloud Cover	Wind	Temp	Rain	Cloud Cover	Wind		
May Dusk	1	1	22/05/2017	21:45	23:54	1.9	1.1	16	0	3	0	15	0	1	2	20:54	Cows in field prevented access to stopping point 1.10
		2	22/05/2017	20:54	23:05	2.1	2.10	17	0	1	0	15	0	0	0	20:54	
		3	22/05/2017	20:45	23:33	3.1	3.11	17	0	1	1	17	0	1	1	20:54	
	2	1	30/05/2017	21:05	23:45	1.1	1.9	15	0	1	1-2	16	0	8	0	21:04	Cows in field prevented access to stopping point 1.10
		2	30/05/2017	21:04	23:24	2.10	2.1	17	0	2-3	2	N/a	N/a	N/a	N/a	21:04	
		3	30/05/2017	21:04	23:14	3.11	3.1	16	0	2	1	19	0	4	0	21:04	
June Dusk	1	1	19/06/2017	21:17	23:55	1.8	1.1	22	0	2	0	18	0	0	0	21:17	Cows and farmer with gun at point 1.9 – 1.10 – Overgrown nettles at 1.1 – 1.2

		2	19/06/2017	21:17	23:01	2.1	2.10	N/a	0	1	1	N/a	0	1	1	21:17	
		3	19/06/2017	21:17	N/a	3.1	3.11	20	0	1	0	N/a	N/a	N/a	N/a	21:17	
		4	19/06/2017	21:37	N/a	4.10	4.1	22	0	1	0	n/a	n/a	n/a	n/a	21:37	
	2	1	28/06/2017	21:17	23:13	1.1	1.8	19	0	8	1	17	0	8	1	21:17	Cows and farmer with gun at point 1.9 – 1.10. Firing shots.
		2	28/06/2017	21:17:	23:13	2.8	2.1	14	0	8	4	17	0	8	1	21:17	Within woodland – difficult to observe bat activity beneath canopy
		3	28/06/2017	21:21		3.11	3.1	16	0	8	1	N/a	0-1	8	1	21:21	
		4	27/06/2017	21:13	23:37	4.1	4.10	17	0	8	3	16	0	8	4	21:17	Cattle past point 4.5, shots heard at point 4.2 -4.3
July Dusk	1	1	24/07/2017	21:07	23:19	1.1	1.9	19	0	1	1	15	0	1	1	21:00	Cows prevent survey of point 1.10
		2	24/07/2017	20:58	22:00	2.10	2.1	20	0	3	0	17	0	1	0	20:58	
		3	23/07/2017	21:08	n/a	3.1	3.11	18	0	0	1	n/a	n/a	n/a	n/a	20:59	
	2	1	31/07/2017	21:05	23:40	1.9	1.1	18	0	2	2	15	0	1	1	n/a	1.10 missed due to health & safety
		2	31/07/2017	20:50	n/a	2.1	2.10	19	0	1	2	n/a	n/a	n/a	n/a	20:50	
		3	31/07/2017	20:49	n/a	3.11	3.1	18	0	1	2	n/a	n/a	n/a	n/a	n/a	
		4	31/08/2017	21:00	n/a	4.1	4.9	17	0	3	1	n/a	n/a	n/a	n/a	20:45	Cows and farmer with gun
August Dusk	1	1	24/08/2017	19:55	22:48	1.1	1.10	21	0	1	1	15	0	5	1	20:06	
		2	24/08/2017	20:04	22:22	2.1	2.10	19	0	4	1	16	0	0	1	20:04	SD card full.

		3	24/08/2017	20:04	22:55	3.1	3.11	23	0	4	0	14	0	0	0	20:04	
		4	24/08/2017	20:07	22:00	4.1	4.9	17	0	6	0	16	0	4	0	20:04	4.10 missed due to access issues
	2	1	30/08/2017	19:53	21:59	1.8	1.1	15	0	6	0	15	0	4	0	19:53	No access to 1.10 or 1.9 due to cattle
		2	30/08/2017	19:52	21:55	2.10	2.1	15	0	7	2	13	n/a	n/a	n/a	19:52	
		3	30/08/2017	20:53	22:45	3.11	3.1	13	0	8	1	14	0	5	0		Heavy rain all day preceding survey
		4	30/08/2017	19:53	20:50	4.1	4.10	11	0	5	1	10	0	6	1	19:53	Raining all day. No access past railway line due to cows. Walked wrong direction.
September Dusk	1	1	21/09/2017	19:04	21:28	1.1	1.9	16	0	3	2	14	0	5	2	19:04	1.10 missed due to health and safety
		2	21/09/2017	19:20	21:21	2.1	2.10	16	1	5	1	15	0	6	0	n/a	
		3	21/09/2017	19:32	n/a	3.1	3.11	16	0	7	2	n/a	n/a	n/a	n/a	n/a	
		4	21/09/2017	19:02	21:28	4.0	4.10	17	0	3	0	15	0	5	0	n/a	Electric fencing and ditches around field – difficult to navigate stream at exit point to reach public footpath to cross river
	2	1	28/09/2017	18:47	22:01	1.8	1.1	17	0	6	2	n/a	n/a	n/a	n/a	n/a	1.9 – 1.10 missed
		2	28/09/2017	19:07	21:03	2.10	2.1	17	0	4	0	n/a	n/a	n/a	n/a	19:07	
		3	28/09/2017	19:07	21:21	3.11	3.1	16	0	8	0	13	0	7	0	18:47	
		4	28/09/2017	18:51	n/a	4.10	4.1	20	0	4	0	n/a	n/a	n/a	n/a	18:47	
1	1	16/10/2017	18:09	20:17	1.10	1.1	16	0	7	5	16	0	2	3	18:09		

October Dusk		2	16/10/2017	18:13	n/a	2.1	2.10	16	0	9	4	n/a	0	1	5	18:00	
		3	16/10/2017	18:19	20:17	3.1	3.11	17	0	8	5	16	0	6	5	18:06	
		4	16/10/2017	18:03	19:46	4.0	4.9	17	0	9	7	16	0	7	7	18:07	4.10 missed due to access issues
	2	1	23/10/2017	17:56	19:56	1.1	1.10	17	0	10	2	18	0	10	2	17:53	
		2	23/10/2017	18:20	20:18	2.10	2.1	15	2	8	2	18	2	8	1	n/a	
		3	23/10/2017	18:00	20:30	3.11	3.1	16	1	8	4	18	1	8	n/a	17:50	
		4	30/10/2017	16:41	18:34	4.10	4.0	13	0	2	1	7	0	1	1	16:40	

Month	Visit	Transect Route	Date	Start time	End time	Start point	End Point	Issues with data collection
May Dusk	1	1	22/05/2017	21:45	23:54	1.9	1.1	Missed 1.10 stopping point due to presence of cattle
		2	22/05/2017	20:54	23:05	2.1	2.10	
		3	22/05/2017	20:45	23:33	3.1	3.11	
		4	-	-	-	-	-	No Access
	2	1	30/05/2017	21:05	23:45	1.1	1.9	Missed 1.10 stopping point due to presence of cattle
		2	30/05/2017	21:04	23:24	2.10	2.1	
		3	30/05/2017	21:04	23:14	3.11	3.1	
	4	-	-	-	-	-	No Access	

June Dusk	1	1	19/06/2017	21:17	23:55	1.8	1.1	Missed 1.9 – 1.10. Cows in field
		2	19/06/2017	21:17	23:01	2.1	2.10	
		3	19/06/2017	21:17	23:29	3.1	3.11	
		4	19/06/2017	21:37	N/a	4.10	4.1	
	2	1	28/06/2017	21:17	23:13	1.1	1.8	Missed 1.9 and 1.10 due to shooting
		2	28/06/2017	21:17:	23:13	2.10	2.1	
		3	28/06/2017	21:21	n/a	3.11	3.1	
		4	27/06/2017	21:13	23.37	4.1	4.10	
July Dusk	1	1	24/07/2017	21:07	23:19	1.1	1.9	Missed 1.10 stopping point due to presence of cattle
		2	24/07/2017	20:58	22:00	2.10	2.1	
		3	23/07/2017	21:08	n/a	3.1	3.11	
		4	-	-	-	-	-	No Access
	2	1	31/07/2017	21:05	23:40	1.9	1.1	Missed 1.10 stopping point due to presence of cattle
		2	31/07/2017	20:50	n/a	2.1	2.10	
		3	31/07/2017	20:49	n/a	3.11	3.1	
		4	31/08/2017	21:00	n/a	4.1	4.9	Missed 4.10 stopping point due to access issues
August Dusk	1	1	24/08/2017	19:55	22:48	1.1	1.10	
		2	24/08/2017	20:04	22:22	2.1	2.10	
		3	24/08/2017	20:04	22:55	3.1	3.11	

	2	4	24/08/2017	20:07	22:00	4.1	4.9	Missed 4.10 stopping point due to access
		1	30/08/2017	19:53	21:59	1.8	1.1	Missed 1.10 stopping point due to health & safety
		2	30/08/2017	19:52	21:55	2.10	2.1	
		3	30/08/2017	20:53	22:45	3.11	3.1	
		4	30/08/2017	19:53	20:50	4.1	4.10	Walked transect the wrong direction
September Dusk	1	1	21/09/2017	19:04	21:28	1.1	1.9	Missed stopping point 1.10 due to health & safety reasons
		2	21/09/2017	19:20	21:21	2.1	2.10	
		3	21/09/2017	19:32	n/a	3.1	3.11	
		4	21/09/2017	19:02	21:28	4.0	4.10	
	2	1	28/09/2017	18:47	22:01	1.8	1.1	Missing 1.9 – 1.10 stopping points due to cows in field
		2	28/09/2017	19:07	21:03	2.10	2.1	
		3	28/09/2017	19:07	21:21	3.11	3.1	
		4	28/09/2017	18:51	n/a	4.10	4.1	
October Dusk	1	1	16/10/2017	18:09	20:17	1.10	1.1	
		2	16/10/2017	18:13	n/a	2.1	2.10	
		3	16/10/2017	18:19	20:17	3.1	3.11	
		4	16/10/2017	18:03	19:46	4.0	4.9	Missed 4.10 stopping point due to access issues
	2	1	23/10/2017	17:56	19:56	1.1	1.9	Missed 1.10 stopping point as cattle in field
		2	23/10/2017	18:20	20:18	2.10	2.1	
		3	23/10/2017	18:00	20:30	3.11	3.1	
		4	30/10/2017	16:41	18:34	4.10	4.0	

STATIC SURVEY DETAILS

The Batlogger settings were as follows;

Trigger Mode: Continuous

Trigger Mode: Crest Adv

Trig_Autorec: Auto

Trig_PAR6: min.Crest = 7

Trig_PAR7: minimum: 15 kHz

Trig_PAR8: maximum: 155 kHz

Transect	Location	X	Y	Habitat Description
1	1.1	499995	107315	Deciduous woodland located in hazel coppice
	1.2	501231	107027	Deciduous woodland with dense bramble and ivy cover
	1.3	502529	106163	Pasture with scattered mature tree's
2	2.1	499406	107007	Coppiced, deciduous woodland
	2.2	599810	106707	Deciduous woodland and grassland
	2.3	500173	105912	Arable pasture and woodland field boundary
3	3.1	497979	106896	Deciduous woodland
	3.2	499215	106187	Scrub, rhododendron and woodland
	3.3	500196	105375	Arable field margin
4	4.1	501146	106194	River Arun, neutral grassland and wooded edge
	4.2	500440	106424	Hedge adjacent to River Arun

Month	Location	X	Y	Dates deployed	Dates collected	Notes
May	2.3	500173	105912	25/05/17	30/05/17	No recordings for any of the nights the equipment was deployed. Technical issues
	4.1	Not Deployed				
	4.2	Not Deployed				
	4.3	Not Deployed				
June	2.3	500173	105912	23/06/17	30/06/17	Equipment Failure- 2 nights of data collected
	4.2	Not Deployed				
July	1.1	499995	107315	24/07/17	01/08/17	4 nights of data collected
	2.1	499406	107007	24/07/17	01/08/17	4 nights of data collected
	2.3	500173	105912	24/07/17	01/08/17	4 nights of data collected
	3.3	500196	105375	24/07/17	01/08/17	4 nights of data collected
	4.3	502627	105888	24/07/18	01/08/17	2 nights of data collected
August	2.3	500173	105912	24/08/17	31/08/17	4 nights of data collected
	4.3	502627	105888	24/08/17	31/08/17	2 nights of data collected
September	1.2	Not Deployed				

	2.3	500173	105912	21/09/17	28/09/17	3 nights of data collected
October	3.2	499214	106188	16/10/17	23/10/17	3 nights of data collected
	4.4	502624	105928	17/10/17	23/10/17	4 nights of data collected

DEFRA LOCAL SCALE EFFECTS SURVEY DETAILS

The Batlogger settings were as follows;

Trigger Mode: Continuous

Trigger Mode: Crest Adv

Trig_Autorec: Auto

Trig_PAR6: min.Crest = 7

Trig_PAR7: minimum: 15 kHz

Trig_PAR8: maximum: 155 kHz

Crossing point	Location X	Location Y	Scheme Option	Habitat Feature
1	498035	106860	5A	Woodland edge
2	498249	106727	5A	Hedgerow
3	498452	106459	5A	Hedgerow
4	498723	106172	5A	Hedgerow
5	498943	106032	5A	Woodland edge
6	499252	105924	5A	Single track lane
7	499341	105908	5A	Woodland edge
8	499626	105895	5A	Hedgerow
9	499768	105904	5A	Hedgerow
10	499978	105898	5A	Hedgerow
11	500144	105952	5A	Hedgerow-lined lane

Crossing point	Location X	Location Y	Scheme Option	Habitat Feature
12	500050	106158	3	Woodland edge
13	499849	106650	3	Footpath within woodland
14	499803	106807	3	Lane within woodland
15	499660	107047	3	Track within woodland
16	499511	107187	3	Woodland edge
17	499317	107357	3	Woodland edge
18	500681	105726	5A, 3	Hedgerow-lined lane
19	500866	105699	5A, 3	Hedgerow
20	501074	105716	5A, 3	Hedgerow
21	501240	105752	5A, 3	Hedgerow-lined ditch
22	501486	105805	5A, 3	Hedgerow-lined ditch
23	501568	105824	5A, 3	Hedgerow-lined ditch
24	501683	105850	5A, 3	Hedgerow-lined ditch
25	502047	105928	5A, 3	Hedgerow-lined ditch
26	502218	105951	1	Railway
27	502278	106070	5A, 3	Railway
28	502633	105945	5A, 3, 1	Hedgerow
29	501982	106340	1	Hedgerow
30	501910	106430	1	Hedgerow-lined lane
31	501760	106574	1	Hedgerow-lined lane

CP 1

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (%)	Wind (Beaufort)	Rain	
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					Start	End	Start	End	Start	End	Start	End
1	26/06/17	21:20		21:20	18	11	10	10	0	0	0	0
1 Dawn	27/06/17	02:50		04:50	16.5	14.4	50	100	0	0	0	0
2	06/07/17	21:17		21:17	26	20	10	10	0	0	0	0
2 Dawn	07/07/17	02:57		04:57	20	17	25	20	0	0	0	0
3	15/07/17	20:26		20:26	-	-	-	-	-	-	-	-
4	29/08/17	19:54		19:54	-	-	-	-	-	-	-	-
5	06/09/17	19:39		19:39	-	-	-	-	-	-	-	-
6	18/09/17	19:11		19:11	-	-	-	-	-	-	-	-

CP 2

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover	(oktas)	Wind	(Beaufort)	Rain	
					Start	End	Start	End	Start	End	Start	End
1	26/06/17	21:20		21:20	-	-	-	-	-	-	-	-
1 Dawn	27/06/17	02:49		04:49	12.3	14.4	30	90	0	0	0	1
2	06/07/17	21:17		21:17	23.8	14.4	30	25	0	0	0	0
2 Dawn	07/07/17	02:54		04:54	17	12	10	10	0	0	0	0

CP 3

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover	(oktas)	Wind	(Beaufort)	Rain	
					Start	End	Start	End	Start	End	Start	End

1	26/06/17	21:20		21:20	16.4	12.9	40	-	0	0.1	no	no
1 Dawn	27/06/17	02:50		04:50	14	12.9	80	100	0	0.1	no	light
2	06/07/17	21:17		21:17	27	17	10	5	0	0	no	no
2 Dawn	07/07/17	02:57		04:58	16	14	0	20	0	0	no	no
3	15/07/17	20:25		20:25	-	-	-	-	-	-	-	-
4	24/08/17	20:04		20:04	15	14	5	100	0	0	no	no
5	07/09/17	19:34		19:34	-	-	-	-	-	-	-	-
6	20/09/17	19:05		19:05	-	-	-	-	-	-	-	-

CP 4

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	26/06/17	21:20		21:20	18	12.9	5	5	0	0	no	no
1 Dawn	27/06/17	02:50		04:50	14.2	18	90	-	0	0	no	Light
2	06/07/17	21:17		21:17	24	15.6	10	10	0	0	no	no
2 Dawn	07/07/17	02:58		04:48	18.6	14.0	0	0	0	0	no	no

CP 5

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	28/06/17	21:19		21:19	16.5	14.8	100	100	0	0	no	no
1 Dawn	29/06/17	02:49		04:51	12.5	11.5	100	100	0	0	light	no
2	12/07/17	21:13		21:13	-	-	-	-	-	-	-	-
2 Dawn	13/07/17	03:03		05:03	-	-	-	-	-	-	-	-
3	16/08/17	20:20		20:20	18	17	95	75	0	0	0	0
4	30/08/17	19:52		19:52	-	-	-	-	-	-	-	-
5	11/09/17	19:28		19:28	-	-	-	-	-	-	-	-
6	19/09/17	19:10		19:10	-	-	-	-	-	-	-	-

CP 6

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	29/06/17	21:20		21:20	16.5	13.6	100	100	0	0	0	0
1 Dawn	30/06/17	02:52		04:52	15.9	14	95	100	0	0	0	0

5	13/09/17	19:21		19:21	-	-	-	-	-	-	-	-
6	28/09/17	18:50		18:50	-	-	-	-	-	-	-	-

CP 11

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	21/06/17	21:20		21:20	20.4	-	5	-	0	0	0	0
1 Dawn	22/06/17	02:49		04:49	18.6	-	-	-	-	-	-	-
2	04/07/17	21:18		21:18	17	14.6	25	25	0	0	0	0
2 Dawn	05/07/17	02:55		04:55	-	-	-	-	-	-	-	-
3	-	-		-	-	-	-	-	-	-	-	-
4	-	-		-	-	-	-	-	-	-	-	-
5	-	-		-	-	-	-	-	-	-	-	-
6	-	-		-	-	-	-	-	-	-	-	-

CP 12

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)	Wind (Beaufort)	Rain
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4	05/09/17	19:40		19:40	-	-	-	-	-	-	-	-
5	18/09/17	19:10		19:10	15	15	100	100	0	0	0	Light
6	25/09/17	18:55		18:55	-	-	-	-	-	-	-	-

CP 14

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	21/06/17	21:20		21:20	-	-	-	-	-	-	-	-
1 Dawn	22/06/17	02:49		04:49	21.2	15.7	90	0	0	0	0	0
2	04/07/17	21:17		21:17	-	-	-	-	-	-	-	-
2 Dawn	05/07/17	02:57		04:57	-	-	-	-	-	-	-	-
3	21/08/17	20:10		20:10	-	-	-	-	-	-	-	-
4	04/09/17	19:39		19:39	-	-	-	-	-	-	-	-
5	13/09/17	19:10		19:10	-	-	-	-	-	-	-	-
6	28/09/17	18:51		18:51	-	-	-	-	-	-	-	-

CP 15

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	22/06/17	21:20		21:20	20.6	16	75	75	0	0	0	0
1 Dawn	23/06/17	04:49		04:49	17.3	16.2	60	90	0	0	0	0
2	05/07/17	21:18		21:18	-	-	-	-	-	-	-	-
2 Dawn	06/07/17	02:55		04:54	19.8	17.2	75	80	0	0	0	0
3	24/08/17	20:04		20:04	-	-	-	-	-	-	-	-
4	06/09/17	19:38		19:38	16	13	100	70	0	0	0	0
5	14/09/17	19:19		19:19	-	-	-	-	-	-	-	-
6	29/09/17	18:44		18:44	-	-	-	-	-	-	-	-

CP 16

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
No Access												

CP 17

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	22/06/17	21:20		21:20	17.4	15	30	20	0	0	0	0
1 Dawn	23/06/17	02:49		04:49	-	-	-	-	-	-	-	-
2	05/07/17	21:18		21:18	23	19	20	75	0	0	0	0
2 Dawn	06/07/17	02:55		04:55	-	-	-	-	-	-	-	-
3	-	-		-	-	-	-	-	-	-	-	-
4	-	-		-	-	-	-	-	-	-	-	-
5	-	-		-	-	-	-	-	-	-	-	-
6	-	-		-	-	-	-	-	-	-	-	-

CP 18

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	29/06/17	21:20		21:20	18.5	15	100	100	0	0	0	0
1 Dawn	30/06/17	02:50		04:50	17.5	15.4	100	100	0	0	0	0
2	13/07/17	21:12		21:12	21.5	17	80	-	0	0	0	0
2 Dawn	14/07/17	03:05		05:05	16	12	20	20	0	0	0	0

CP 20

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	29/06/17	21:19		21:19	17.2	17.9	90	90	0	0	0	0
1 Dawn	30/06/17	02:45		04:49	14.6	14.6	90	90	0	0	0	0
2	13/07/17	21:12		21:12	-	-	-	-	-	-	-	-
2 Dawn	14/07/17	21:12		21:12	-	-	-	-	-	-	-	-
3	-	-		-	-	-	-	-	-	-	-	-
4	-	-		-	-	-	-	-	-	-	-	-
5	-	-		-	-	-	-	-	-	-	-	-
6	-	-		-	-	-	-	-	-	-	-	-

CP 21

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
No Access												

CP 22

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover	(oktas)	Wind	(Beaufort)	Rain	
					Start	End	Start	End	Start	End	Start	End

No Access

CP 23

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover	(oktas)	Wind	(Beaufort)	Rain	
					Start	End	Start	End	Start	End	Start	End

No Access

CP 24

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover	(oktas)	Wind	(Beaufort)	Rain	
					Start	End	Start	End	Start	End	Start	End

No Access

CP 25

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
No Access												

CP 26

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	03/07/17	21:18		21:18	-	-	-	-	-	-	-	-
1 Dawn	04/07/17	02:54		04:54	15.4	10.3	5	5	0	0	0	0

CP 27

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover (oktas)		Wind (Beaufort)		Rain	
					Start	End	Start	End	Start	End	Start	End
1	03/07/17	21:18		21:18	-	-	-	-	-	-	-	-
1 Dawn	04/07/17	02:55		04:55	-	-	-	-	-	-	-	-

CP 28

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover	(oktas)	Wind	(Beaufort)	Rain	
					Start	End	Start	End	Start	End	Start	End
No Access												

CP 29

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover	(oktas)	Wind	(Beaufort)	Rain	
					Start	End	Start	End	Start	End	Start	End
1	03/07/17	21:18		21:18	17.1	15.1	10	10	0.3	0.3	0	0
1 Dawn	04/07/17	02:55		04:55	17	10.7	0	0	0	0	0	0

CP 30

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover	(oktas)	Wind	(Beaufort)	Rain	
					Start	End	Start	End	Start	End	Start	End
No Access												

CP 31

Visit Number	Date	Start time	End time	Sunset/Sunrise time	Temperature		Cloud cover	(oktas)	Wind	(Beaufort)	Rain	
					Start	End	Start	End	Start	End	Start	End

1	03/07/17	21:18		21:18	18.4	12.6	5	0	0	0	0	0
Dawn 1	04/07/17	02:55		04:55	-	-	-	-	-	-	-	-
2	13/07/17	21:11		21:11	-	-	-	-	-	-	-	-
Dawn 2	14/07/17	03:00		05:04	-	-	-	-	-	-	-	-

DEFRA LANDSCAPE SCALE EFFECTS SURVEY DETAILS

The Batlogger settings were as follows;

Trigger Mode: Continuous
Trigger Mode: Crest Adv
Trig_Autorec: Auto
Trig_PAR6: min.Crest = 7
Trig_PAR7: minimum: 15 kHz
Trig_PAR8: maximum: 155 kHz

Transect Route	Repetition Number	Route option	Direction	Date	Sunset	Time Start	Time End (Min)	Total Hours
T1	1	Option 5A	Towards	17/07/17	21:09	21:30	23:27	1.57
T2	1	Option 5A	Away	17/07/17	21:08	21:38	23:42	02:04
T3	1	Option 5A	Towards	17/07/17	21:10	21:30	23:30	02:00
T4	1	Option 5A	Away	17/07/17	21:10	21:30	23:28	01:58

Transect Route	Repetition Number	Route option	Direction	Date	Sunset	Time Start	Time End (Min)	Total Hours
T5	1	Option 5A	Away	17/07/17	21:09	21:35	23:36	02:01
T6	1	Option 3, 5A	Towards	17/07/17	21:07	21:27	23:27	02:00
T7	1	Option 3, 5A	Away	17/07/17	21:10	21:30	23:36	02:06
T8	-	Option 1, 3, 5A	-	-	-	-	-	-
T9	1	Option 1, 3, 5A	Towards	17/07/17	21:10	21:30	23:07	01:37
T10	1	Option 3, 5A	Away	17/07/17	21:10	21:30	23:30	02:00
T11	1	Option 3	Towards	24/07/17	21:00	21:30	23:39	02:09
T12	1	Option 3	Away	24/07/17	20:59	21:29	23:31	02:02
T13	1	Option 3	Away	24/07/17	20:59	21:29	23:54	02:25
T14	1	Option 3	Towards	24/07/17	20:59	21:29	23:52	02:23
T15	1	Option 3	Away	24/07/17	21:00	21:30	23:46	02:16
T16	1	Option 1	Towards	24/07/17	20:59	21:29	23:39	02:10
T17	1	Option 1	Away	31/07/17	20:50	21:20	23:33	02:13

Transect Route	Repetition Number	Route option	Direction	Date	Sunset	Time Start	Time End (Min)	Total Hours
T18	1	Option 1	Towards	31/07/17	20:50	21:20	23:23	02:03
T19	1	Option 1	Towards	31/07/17	20:50	21:20	23:28	02:08
T20	1	Option 1	Away	31/07/17	20:50	21:20	00:23	03:03
T21	1	Option 1	Away	31/07/17	20:50	21:20	23:24	02:04
T22	1	Option 1	Towards	31/07/17	20:50	21:20	23:27	02:07
T23	1	Option 1	Towards	3107/17	20:50	21:20	23:44	02:24
T1	2	Option 5A	Away	03/08/17	20:44	21:14	23:19	02:05
T2	2	Option 5A	Towards	07/08/17	20:38	21:08	23:23	02:15
T3	2	Option 5A	Away	07/08/17	20:48	21:08	23:23	02:15
T4	2	Option 5A	Towards	07/08/17	20:38	21:08	23:12	02:04
T5	2	Option 5A	Towards	01/08/17	20:50	21:20	23:23	02:03
T6	2	Option 3, 5A	Away	01/8/17	20:48	21:18	23:26	02:08
T7	2	Option 3, 5A	Towards	07/08/17	20:38	21:08	23:16	02:08
T8	-	Option 1, 3, 5A	-	-	-	-	-	-

Transect Route	Repetition Number	Route option	Direction	Date	Sunset	Time Start	Time End (Min)	Total Hours
T9	2	Option 1, 3, 5A	Away	07/08/17	20:38	21:08	23:21	02:13
T10	2	Option 3, 5A	Towards	07/08/17	20:38	21:08	23:20	02:12
T11	2	Option 3	Away	08/08/17	20:38	21:08	23:17	02:09
T12	2	Option 3	Towards	10/08/17	20:32	21:02	23:09	02:07
T13	2	Option 3	Towards	14/08/17	20:25	20:55	23:06	02:11
T14	2	Option 3	Towards	14/08/17	20:25	20:55	22:57	02:02
T15	2	Option 3	Towards	14/08/17	20:25	20:55	23:04	02:09
T16	2	Option 1	Towards	07/08/18	20:38	21:08	23:10	02:02
T17	2	Option 1	Towards	10/08/27	20:31	21:01	23:06	02:05
T18	2	Option 1	Away	14/08/17	20:25	20:55	22:57	02:02
T19	2	Option 1	Away	14/08/17	20:26	20:56	23:01	02:05
T20	2	Option 1	Towards	14/08/17	20:28	20:55	23:34	02:39
T21	2	Option 1	Towards	21/08/17	20:11	20:41	22:42	02:01
T22	2	Option 1	Away	21/08/17	20:11	20:41	22:47	02:06

Transect Route	Repetition Number	Route option	Direction	Date	Sunset	Time Start	Time End (Min)	Total Hours
T23	2	Option 1	Towards	21/08/17	20:11	20:44	22:41	01:57

DESK STUDY: - BAT RECORDS WITHIN 6 KM

Scientific name	Vernacular name	Grid Reference		Year	Type
		X	Y		
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Bat Survey
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Bat Survey
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Bat Survey
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Bat Survey
Barbastella barbastellus	Western Barbastelle	██████████	██████████	2015	Radio-Tracked

Barbastella barbastellus	Western Barbastelle	[REDACTED]	2015	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2014	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2014	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2014	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2014	Unknown
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2014	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2014	Unknown
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2014	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2014	Unknown
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2014	Radio-Tracked
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2013	Unknown
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2013	Unknown
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2013	Unknown
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2013	Bat Trap
Barbastella barbastellus	Western Barbastelle	[REDACTED]	2016	Radio-Tracked
Chiroptera	Bat sp.	[REDACTED]	2015	Droppings
Chiroptera	Bat sp.	[REDACTED]	2014	Roost Exit Count
Chiroptera	Bat sp.	[REDACTED]	2013	Building Inspection
Chiroptera	Bat sp.	[REDACTED]	2013	Building Inspection

Chiroptera	Bat sp.			2010	Building Inspection
Chiroptera	Bat sp.			2010	Building Inspection
Chiroptera	Bat sp.			2008	Waterway transect
Chiroptera	Bat sp.			2008	Waterway transect
Chiroptera	Bat sp.			2007	Sunrise Survey
Eptesicus serotinus	Serotine			2016	Aural bat detector
Eptesicus serotinus	Serotine			2015	Aural bat detector
Eptesicus serotinus	Serotine			2014	Droppings
Eptesicus serotinus	Serotine			2014	Aural bat detector
Eptesicus serotinus	Serotine			2014	Droppings
Eptesicus serotinus	Serotine			2014	Aural bat detector
Eptesicus serotinus	Serotine			2013	Bat Trap
Eptesicus serotinus	Serotine			2010	Field Observation
Eptesicus serotinus	Serotine			2010	Building Inspection
Eptesicus serotinus	Serotine			2009	Field Observation
Eptesicus serotinus	Serotine			2016	Radio-Tracked
Eptesicus serotinus	Serotine			2016	Radio-Tracked
Eptesicus serotinus	Serotine			2016	Radio-Tracked
Eptesicus serotinus	Serotine			2016	Radio-Tracked

Myotis	Myotis Bat			2015	Aural bat detector
Myotis alcaethoe	Alcaethoe Bat			2016	Radio-tracking
Myotis alcaethoe	Alcaethoe Bat			2016	Radio-tracking
Myotis alcaethoe	Alcaethoe Bat			2014	Aural bat detector
Myotis alcaethoe	Alcaethoe Bat			2013	Bat Trap
Myotis bechsteinii	Bechstein's Bat			2012	Visual
Myotis bechsteinii	Bechstein's Bat			2017	Radio-Tracked
Myotis bechsteinii	Bechstein's Bat			2017	Radio-Tracked
Myotis bechsteinii	Bechstein's Bat			2016	Radio-Tracked
Myotis brandtii	Brandt's Bat			2013	Bat Trap
Myotis brandtii	Brandt's Bat			2013	Bat Trap
Myotis daubentonii	Daubenton's Bat			2015	Aural bat detector
Myotis daubentonii	Daubenton's Bat			2015	Aural bat detector
Myotis daubentonii	Daubenton's Bat			2014	Aural bat detector
Myotis daubentonii	Daubenton's Bat			2013	Visual
Myotis daubentonii	Daubenton's Bat			2010	Unknown
Myotis daubentonii	Daubenton's Bat			2010	Unknown
Myotis daubentonii	Daubenton's Bat			2010	Unknown
Myotis daubentonii	Daubenton's Bat			2009	Field Observation

Myotis mystacinus	Whiskered Bat			2013	Bat Trap
Myotis mystacinus	Whiskered Bat			2013	Bat Trap
Myotis mystacinus/brandtii	Whiskered/Brandt's			2015	Aural bat detector
Myotis mystacinus/brandtii	Whiskered/Brandt's			2015	Aural bat detector
Myotis mystacinus/brandtii	Whiskered/Brandt's			2015	Aural bat detector
Myotis mystacinus/brandtii	Whiskered/Brandt's			2014	Aural bat detector
Myotis mystacinus/brandtii	Whiskered/Brandt's			2013	Building Inspection
Myotis nattereri	Natterer's Bat			2015	Aural bat detector
Myotis nattereri	Natterer's Bat			2014	Aural bat detector
Myotis nattereri	Natterer's Bat			2013	Bat Trap
Myotis nattereri	Natterer's Bat			2010	Hibernacula Survey
Myotis nattereri	Natterer's Bat			2010	Hibernacula Survey
Nyctalus noctula	Noctule Bat			2016	Aural bat detector
Nyctalus noctula	Noctule Bat			2015	Bat Survey
Nyctalus noctula	Noctule Bat			2014	Aural bat detector
Nyctalus noctula	Noctule Bat			2010	Unknown
Pipistrellus	Pipistrelle sp.			2015	Roost Exit Count
Pipistrellus	Pipistrelle sp.			2014	Droppings
Pipistrellus	Pipistrelle sp.			2014	Droppings

Pipistrellus	Pipistrelle sp.			2013	Droppings
Pipistrellus	Pipistrelle sp.			2013	Building Inspection
Pipistrellus	Pipistrelle sp.			2010	Unknown
Pipistrellus	Pipistrelle sp.			2010	Building Inspection
Pipistrellus	Pipistrelle sp.			2009	Field Observation
Pipistrellus	Pipistrelle sp.			2009	Field Observation
Pipistrellus nathusii	Nathusius's Pipistrelle			2015	Aural bat detector
Pipistrellus nathusii	Nathusius's Pipistrelle			2015	Aural bat detector
Pipistrellus nathusii	Nathusius's Pipistrelle			2014	Aural bat detector
Pipistrellus pipistrellus	Common Pipistrelle			2016	Aural bat detector
Pipistrellus pipistrellus	Common Pipistrelle			2015	Aural bat detector
Pipistrellus pipistrellus	Common Pipistrelle			2015	Aural bat detector
Pipistrellus pipistrellus	Common Pipistrelle			2015	Aural bat detector
Pipistrellus pipistrellus	Common Pipistrelle			2015	Aural bat detector
Pipistrellus pipistrellus	Common Pipistrelle			2015	Re-entry survey
Pipistrellus pipistrellus	Common Pipistrelle			2015	Re-entry survey
Pipistrellus pipistrellus	Common Pipistrelle			2015	Roost Exit Count
Pipistrellus pipistrellus	Common Pipistrelle			2015	Roost Exit Count
Pipistrellus pipistrellus	Common Pipistrelle			2015	Roost Exit Count

Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2015	Bat Survey
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2014	Visual
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2014	Aural bat detector
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2014	Aural bat detector
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2014	Aural bat detector
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2014	Field Observation
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2013	Bat Trap
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2013	Bat Trap
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2013	Bat Trap
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2013	Bat Trap
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2013	heard
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2012	Building Inspection
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2011	Field Observation
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2011	Field Observation
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2010	Unknown
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2010	Unknown
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2010	Unknown
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2010	Aural bat detector
Pipistrellus pipistrellus	Common Pipistrelle	[REDACTED]	2010	Unknown

Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2016	Aural bat detector
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2016	Aural bat detector
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2015	Aural bat detector
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2015	Aural bat detector
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2015	Unkown
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2015	Aural bat detector
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2015	Unspecified
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2014	Aural bat detector
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2014	Aural bat detector
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2014	Aural bat detector
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2014	Unspecified
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2013	Bat Trap
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2013	Visual

Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2013	Bat Trap
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2013	Bat Trap
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2013	Unspecified
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2010	Unknown
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2010	Unknown
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2010	Unknown
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2010	Unknown
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2010	Unknown
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2010	Unknown
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2010	Unknown
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2010	Unknown
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2009	Field Observation
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2009	Field Observation
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2009	Field Observation

Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2009	Field Observation
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2009	Field Observation
Pipistrellus pygmaeus	Soprano Pipstrelle (55 kHz)			2008	Field Observation
Plecotus	Long-eared sp.			2015	Droppings
Plecotus	Long-eared sp.			2015	Building Inspection
Plecotus	Long-eared sp.			2014	Droppings
Plecotus	Long-eared sp.			2014	Field Observation
Plecotus	Long-eared sp.			2013	Droppings
Plecotus	Long-eared sp.			2008	Building Inspection
Plecotus	Long-eared sp.			2007	Building Inspection
Plecotus auritus	Brown Long-eared Bat			2014	Unknown
Plecotus auritus	Brown Long-eared Bat			2014	Unknown
Plecotus auritus	Brown Long-eared Bat			2014	Droppings
Plecotus auritus	Brown Long-eared Bat			2014	Bat Survey
Plecotus auritus	Brown Long-eared Bat			2013	Unknown
Plecotus auritus	Brown Long-eared Bat			2013	Unknown
Plecotus auritus	Brown Long-eared Bat			2013	Bat Trap
Plecotus auritus	Brown Long-eared Bat			2013	Droppings

Plecotus auritus	Brown Long-eared Bat			2013	Bat Trap
Plecotus auritus	Brown Long-eared Bat			2013	Bat Trap
Plecotus auritus	Brown Long-eared Bat			2013	Bat Trap
Plecotus auritus	Brown Long-eared Bat			2013	Building Inspection
Plecotus auritus	Brown Long-eared Bat			2012	Building Inspection
Plecotus auritus	Brown Long-eared Bat			2012	Building Inspection
Plecotus auritus	Brown Long-eared Bat			2010	Building Inspection



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