

**23 Conisboro Avenue
Caversham
Reading
RG4 7JB**

Bat Emergence Survey

Report prepared by Vicky Potts; reviewed by John Wenman
Ref: R3262/a

October 2022



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1	EXECUTIVE SUMMARY	3
2	INTRODUCTION	4
2.1	Background.....	4
2.2	Legislative Background.....	4
2.3	Site Location and Context.....	6
3	SURVEY METHODOLOGY.....	7
3.1	Evening Emergence Survey	7
3.2	Background Data Search.....	7
3.3	Survey Constraints.....	7
4	SURVEY FINDINGS	9
4.2	Evening Emergence Survey Records – 20 th July 2022.....	9
4.3	Evening Emergence Survey Records – 4 th August 2022	9
4.4	Evening Emergence Survey Records – 25 th August 2022	10
4.5	Emergence Survey Summary – 20 th July 2022.....	11
4.6	Emergence Survey Summary – 8 th August 2022	11
4.7	Emergence Survey Summary – 25 th August 2022	11
4.8	Background Data Search Findings	12
5	DISCUSSION AND RECOMMENDATIONS	13
5.1	Assessment of Bat Roost Status.....	13
5.2	Impact of Proposals and Recommendations	13
6	MITIGATION AND COMPENSATION PROPOSALS.....	15
7	REFERENCES	17
	APPENDIX 1 - BAT EMERGENCE SURVEY FINDINGS	18
	APPENDIX 2 – BAT EMERGENCE SURVEY RAW DATA TABLES	19
	APPENDIX 3 – BAT ROOST PROVISION	29
	APPENDIX 4 – RIDGE ACCESS.....	30

1 EXECUTIVE SUMMARY

- 1.1.1** John Wenman Ecological Consultancy LLP was commissioned by Mr McDowell to undertake a bat emergence survey at 23 Conisboro Avenue in Caversham, Berkshire (OS grid reference: SU 70294 76159). The survey was commissioned to accompany a planning application to be submitted to Reading Borough Council seeking consent for a loft conversion within the central part of the property's roof.
- 1.1.2** The survey followed a preliminary bat roost assessment undertaken by John Wenman Ecological Consultancy LLP on 18th March 2022 (Reference: R3057/a). The survey found approximately 150 medium-sized bat droppings, of a size, shape and distribution most typical of those deposited by a long-eared bat species (*Plecotus* sp.) scattered throughout the roof void. The bungalow had external features suitable for crevice-dwelling bat species, in the form of gaps between roof and hip tiles, missing hip mortar, uneven lead flashing and lifted roof tiles. Further survey was recommended to determine the presence or the likely absence of roosting bats and establish the status of any roosts.
- 1.1.3** Emergence surveys were carried out on the 20th July, 8th August and 25th August 2022. No bats were observed emerging from the property during the three surveys. The findings from the emergence surveys, in combination with the findings of the preliminary roost inspection, are consistent with the bungalow being used as an transitional/occasional roost by small numbers or individual long-eared (*Plecotus* sp.) bats (likely to be the widespread brown long eared bat - to be confirmed by DNA analysis of droppings) i.e. a roost of low conservation importance.
- 1.1.4** The proposals to convert the roof space would result in the permanent damage to a long-eared bat (*Plecotus* sp.) transitional/occasional roost. Furthermore, in the absence of mitigation, the construction work would result in any bats present at the time being disturbed and could lead to bats being injured or killed. Thus, a European Protected Species (EPS) licence will be required to allow the work to proceed lawfully.

2 INTRODUCTION

2.1 Background

2.1.1 John Wenman Ecological Consultancy LLP was commissioned by Mr McDowell to undertake a survey for the presence of bats at 23 Conisboro Avenue in Caversham, Berkshire (OS grid reference: SU 70294 76159). The survey was commissioned to accompany a planning application to be submitted to Reading Borough Council seeking consent for a loft conversion within the central part of the property's roof.

2.1.2 The survey followed a preliminary bat roost assessment undertaken by John Wenman Ecological Consultancy LLP on 18th March 2022 (Reference: R3057/a). The survey found approximately 150 medium-sized bat droppings, of a size, shape and distribution most typical of those deposited by a long-eared bat species (*Plecotus* sp.), were scattered throughout the roof void. The bungalow had external features suitable for crevice-dwelling bat species, in the form of gaps between roof and hip tiles, missing hip mortar, uneven lead flashing and lifted roof tiles. Further survey was recommended to determine the presence or the likely absence of roosting bats and establish the status of any roosts.

2.1.3 In order to determine if roosting bats are present or are likely absent, and if present, to confirm the status and location of bat roosts and the mitigation strategy required, emergence were recommended; this report presents the findings and recommendations of the survey.

2.2 Legislative Background

2.2.1 All British bat species are fully protected by the Wildlife & Countryside Act 1981 (as amended) and by the Conservation of Habitats and Species Regulations 2017 ('Habitat Regulations') (as amended). In summary, the legislation combined makes it an offence to:

- Damage or destroy a breeding site or resting place or intentionally or recklessly obstruct access to a structure or place used for shelter by a bat;
- Deliberately, intentionally or recklessly disturb bats; in particular any disturbance which is likely to impair the ability of bats to survive, breed or reproduce or nurture their young; or in the case of hibernating or

migrating bats, to hibernate or migrate; or to affect significantly the local distribution or abundance of the species;

- Deliberately kill, injure or take any bat.

2.2.2 The government's statutory conservation advisory organisation, Natural England, is responsible for issuing European Protected Species licences that would permit activities that would otherwise lead to an infringement of the Habitat Regulations. A licence can be issued if the following three tests have been met:

- **Regulation 55(9)(a)** - there is "no satisfactory alternative" to the derogation, and;
- **Regulation 55(9)(b)** - the derogation "will not be detrimental to the maintenance of the population of the species concerned at a favourable conservation status in their natural range" and;
- **Regulation 55(2)(e)** - the derogation is for the purposes of "preserving public health or public safety or other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment".

2.2.3 Local authorities have a statutory duty under Regulation 7(3e) of the Habitat Regulations to have regard to requirements of the Habitats Directive in the exercise of their functions. The Council must therefore consider and determine whether these three tests are likely to be satisfied by applications where survey findings show that European Protected Species licensing is necessary before granting planning permission.

2.2.4 European Protected Species licence applications can be submitted once all necessary planning consents have been granted and Natural England aim to issue a licence decision within 30 working days.

2.2.5 Licensable projects affecting small numbers of seven commonly occurring bat species may fall under the remit of the Bat Mitigation Class Licence (Low Impact) (WML-CL21). The Class Licence permits 'Registered Consultants' to carry out licensable operations on site on behalf of clients following the registration of sites with Natural England at least 15 working days before the work is due to start.

- 2.2.6** Survey data supporting EPS licence applications or the registration of the site under the Bat Mitigation Class Licence (WML-CL21) must be up to date i.e. have been conducted within the current or most recent optimal survey season i.e. May to August. Therefore, if surveys show bats are present and licensable work is delayed until during or after the next survey season, updated surveys will be required to support an application or site registration.

2.3 Site Location and Context

- 2.3.1** The detached bungalow is located on the western side of Conisboro Avenue in Caversham, Reading, Berkshire (OS grid reference: SU 70294 76159).
- 2.3.2** The bungalow is in an urban setting, with neighbouring residential properties and their respective gardens in the immediate surrounds. An area of woodland is present approximately 350 metres to the east, which connected to Bugs Bottom - a tree-lined, open area of grassland. Approximately 650 metres to the west of the bungalow is the extensive grounds of Caversham Heath Golf Course, with areas of woodland, shrubs and grassland.
- 2.3.3** The nearby woodland and open grassland offer high quality commuting and foraging opportunities to bats adapted to living in a sub-urban environment.

3 SURVEY METHODOLOGY

3.1 Evening Emergence Survey

- 3.1.1** Evening emergence surveys were undertaken on the July 20th, August 4th and August 25th 2022. The emergence surveys were carried out by three surveyors: Natasha Lawson-Hale – an assistant ecologist; Martin Hunt – an assistant ecologist; and Mary Barnard – an ecologist registered under the Natural England Bat Survey Class Licence CL17 (registration: CL17 2016-24544-CLS-CLS)
- 3.1.2** For the emergence surveys one surveyor was situated at the front (north-eastern) corner of the property (Survey Location 1), a second surveyor was situated at the side (south-western) corner of the property (Survey Location 2) and a third surveyor was situated in the rear western corner of the property. The surveys were used in conjunction with Sony FDR AX100 video cameras and LED lamp illuminators.
- 3.1.3** The emergence surveys were undertaken with the use of three Elekon Batlogger M detectors. The Batlogger recordings were analysed using the BatExplorer software package.
- 3.1.4** The evening emergence surveys started 15 minutes before sunset and continued until 1.5 hours after sunset.
- 3.2 Background Data Search**
- 3.2.1** The Berkshire and South Bucks Bat Group was commissioned to carry out a search of data held by the Group for the site and land within a 2 km radius.
- 3.3 Survey Constraints**
- 3.3.1** The northern side of the bungalow is tight to the fence line and a tall line of Leylandii so it was not possible to survey that side of the building completely, however the surveyors in survey locations 1 and 3 were able to see if bats had come from that section of the property.
- 3.3.2** The surveys were undertaken at a suitable time of year for undertaking emergence surveys i.e. May to August (Collins 2016), and in conditions suitable for bat activity i.e. dry with air temperatures 10°C or above at sunset/sunrise (Collins 2016). There were light rain showers during the first

emergence survey on the 20th July, however bats were still recorded and it was not seen as a significant constraint to the survey.

4 SURVEY FINDINGS

4.1.1 Bat activity is summarised in the tables below, described in Paragraphs 4.5, 4.6 and 4.7, detailed in a survey plan in Appendix 1 and the raw detector data is in Appendix 2:

4.2 Evening Emergence Survey Records – 20th July 2022

4.2.1 No bats were observed emerging from the property.

Table 1a. Weather conditions and survey timings

	Wind (BF0-12)	Cloud cover (%)	Rain	Temp start (°C)	Temp end (°C)
Weather	1	100	Light rain showers	24	21
Start time	20:54	Sunset time	21:09	Finish time	22:39

Table 1b. Surveyor recordings at Location 1

Species	Recordings*	Emergences	Time of first call after sunset
<i>Myotis spec.</i>	1	None	22:02 (53 mins)
<i>Nyctalus noctula</i>	5	None	21:26 (27 mins)
<i>Pipistrellus pygmaeus</i>	8	None	21:37 (18 mins)
<i>Pipistrellus pipistrellus</i>	28	None	21:21 (12 mins)

Table 1c Surveyor recordings at Location 2

Species	Recordings*	Emergences	Time of first call after sunset
<i>Myotis spec.</i>	1	None	22:02 (53 mins)
<i>Nyctalus noctula</i>	5	None	21:42 (33 mins)
<i>Pipistrellus pygmaeus</i>	6	None	21:35 (26 mins)
<i>Pipistrellus pipistrellus</i>	17	None	21:18 (9 mins)

Table 1d Surveyor recordings at Location 3

Species	Recordings*	Emergences	Time of first call after sunset
<i>Myotis spec.</i>	1	None	22:09 (1 hour)
<i>Nyctalus noctula</i>	2	None	22:19 (1 hour 10 mins)
<i>Pipistrellus pygmaeus</i>	27	None	21:22 (13 mins)
<i>Pipistrellus pipistrellus</i>	56	None	21:08 (-1 mins)

(* The number of recordings is the number of times that the detectors were triggered when bat activity was detected).

4.3 Evening Emergence Survey Records – 4th August 2022

4.3.1 No bats were observed emerging from the property.

Table 2a. Weather conditions and survey timings

	Wind (BF0-12)	Cloud cover (%)	Rain	Temp start (°C)	Temp end (°C)
Weather	0	30	None	19	19
Start time	20:27	Sunset time	20:47	Finish time	22:17

Table 2b. Surveyor recordings at Location 1

Species	Recordings*	Emergences	Time of first call after sunset
<i>Plecotus auritus</i>	2	None	22:01 (1 hour 14 mins)
<i>Nyctalus noctula</i>	1	None	21:12 (25 mins)
<i>Pipistrellus pygmaeus</i>	9	None	21:10 (23 mins)
<i>Pipistrellus pipistrellus</i>	16	None	21:07 (20 mins)

Table 2c. Surveyor recordings at Location 2

Species	Recordings*	Emergences	Time of first call after sunset
<i>Plecotus auritus</i>	2	None	22:10 (1 hour 23 mins)
<i>Nyctalus noctula</i>	1	None	21:12 (25 mins)
<i>Pipistrellus pygmaeus</i>	8	None	21:10 (23 mins)
<i>Pipistrellus pipistrellus</i>	14	None	21:07 (20 mins)

Table 2d. Surveyor recordings at Location 3

Species	Recordings*	Emergences	Time of first call after sunset
<i>Nyctalus noctula</i>	1	None	21:12 (25 mins)
<i>Pipistrellus pygmaeus</i>	3	None	21:09 (22 mins)
<i>Pipistrellus pipistrellus</i>	45	None	21:06 (19 mins)

(* The number of recordings is the number of times that the detectors were triggered when bat activity was detected).

4.4 Evening Emergence Survey Records – 25th August 2022

4.4.1 No bats were observed emerging from the property.

Table 3a. Weather conditions and survey timings

	Wind (BF0-12)	Cloud cover (%)	Rain	Temp start (°C)	Temp end (°C)
Weather	0-1	0	None	17	13.5
Start time	19:46	Sunset time	20:06	Finish time	21:36

Table 3b. Surveyor recordings at Location 1

Species	Recordings*	Emergences	Time of last call after sunset
<i>Myotis spec.</i>	2	None	20:53 (47 mins)
<i>Nyctalus noctule</i>	8	None	20:22 (16 mins)
<i>Pipistrellus pygmaeus</i>	6	None	20:33 (27 mins)
<i>Pipistrellus pipistrellus</i>	17	None	20:25 (19 mins)

Table 3c. Surveyor recordings at Location 2

Species	Recordings*	Emergences	Time of first call after sunset
<i>Myotis spec.</i>	2	None	20:53 (47 mins)
<i>Nyctalus noctule</i>	6	None	20:23 (17 mins)
<i>Pipistrellus pygmaeus</i>	5	None	20:53 (47 mins)
<i>Pipistrellus pipistrellus</i>	15	None	20:25 (19 mins)

Table 3d. Surveyor recordings at Location 3

Species	Recordings*	Emergences	Time of first call after sunset
<i>Plecotus auritus</i>	1	None	21:35 (1 hour 29 mins)
<i>Myotis spec.</i>	2	None	20:52 (46 mins)
<i>Nyctalus noctula</i>	6	None	20:22 (16 mins)
<i>Pipistrellus pygmaeus</i>	1	None	20:38 (32 mins)
<i>Pipistrellus pipistrellus</i>	54	None	20:22 (16 mins)
<i>Social</i>	2	None	20:25 (19 mins)

(* The number of recordings is the number of times that the detectors were triggered when bat activity was detected).

4.5 Emergence Survey Summary – 20th July 2022

4.5.1 No bats were observed emerging from the property during the survey.

4.5.2 Common pipistrelle (*Pipistrellus pipistrellus*) bats were regularly recorded foraging over the garden, towards the rear (western side) and occasionally along the southern side. Soprano pipistrelle (*Pipistrellus pygmaeus*) bats were occasionally recorded and seen flying along the southern side of the bungalow and foraging over the rear garden. Noctule (*Nyctalus noctula*) were recorded on a few occasions and a *Myotis* species was recorded also.

4.6 Emergence Survey Summary – 8th August 2022

4.6.1 No bats were observed emerging from the property during the survey.

4.6.2 The amount of activity was lower compared with the first survey. Common pipistrelle (*Pipistrellus pipistrellus*) bats were the most regularly recorded species, with most of the activity being recorded to the rear (western side) of the bungalow and some occasional passes over the roof and along the southern side of the bungalow. Soprano pipistrelle (*Pipistrellus pygmaeus*) bats were recorded occasionally throughout the survey. Brown long-eared (*Plecotus auritus*) bats were recorded but unseen on two occasions, by the surveyors sitting at the front and southern sides of the bungalow. They were recorded over an hour after sunset. Noctule (*Nyctalus noctula*) was recorded on one occasion by all surveyors.

4.7 Emergence Survey Summary – 25th August 2022

4.7.1 No bats were observed emerging from the property during the survey.

4.7.2 Common pipistrelle (*Pipistrellus pipistrellus*) was the most regularly recorded species, with most of the activity recorded to the rear (western side) of the

bungalow and along the southern side of the bungalow. A soprano pipistrelle (*Pipistrellus pygmaeus*) bat was observed flying north away from the front of the bungalow and they were recorded occasionally throughout the survey. *Myotis* species were recorded twice by all surveyors and was seen flying east over the drive along the southern side of the bungalow. Noctule (*Nyctalus noctula*) was recorded occasionally by all surveyors. Brown long-eared (*Plecotus auritus*) bats were recorded but unseen once towards the rear of the bungalow, just under an hour and a half after sunset.

4.8 Background Data Search Findings

- 4.8.1** The data held by the Berkshire and South Buckinghamshire Bat Group revealed 384 records, dating from 1986 to 2021, comprising records of at least 10 species within a 2 kilometre radius of the site: brown long-eared (*Plecotus auritus*), common pipistrelle (*Pipistrellus pipistrellus*), Daubenton's (*Myotis daubentonii*), Leisler's (*Nyctalus leisleri*), Nathusius' pipistrelle (*Pipistrellus nathusii*), Natterer's (*Myotis nattereri*), noctule (*Nyctalus noctula*), serotine (*Eptesicus serotinus*), soprano pipistrelle (*Pipistrellus pygmaeus*) and whiskered/Brandt's (*Myotis mystacinus/brandtii*).
- 4.8.2** Within the last 10 years, there are records of approximately 55 sites with bat records, of which at least 38 are bat roosts. The records collected within the last 10 years from sites closest to the bungalow are for: brown long-eared bats, common pipistrelle, soprano pipistrelle and noctule bats in flight in 2015 at a property in the 1km grid square approximately 300 metres to the southwest. An injured common pipistrelle bat was found at a property approximately 360 metres to the west of the bungalow. The next closest are for a couple of long-eared bat species droppings recorded approximately 410 metres to the southwest of the bungalow.

5 DISCUSSION AND RECOMMENDATIONS

5.1 Assessment of Bat Roost Status

5.1.1 During the emergence surveys no bats were observed during the surveys. The preliminary roost assessment showed that the building supports a long-eared bat (*Plecotus* sp.) roost. It is considered most likely that the long-eared bat species present is brown long-eared bat (*Plecotus auritus*), which is widespread throughout the UK and this will be confirmed by DNA analysis of a dropping sample to inform the licence application prior to the works commencing. The number of droppings within the roof space was consistent with the bungalow supporting an individual or small numbers of non-breeding adult bats occasionally as a day and/or transitional/occasional roost. No bats were observed emerging from the bungalow during the survey; however, a long-eared bat was recorded flying around the bungalow on two of the surveys, but it was after the typical emergence time for these species, indicating that they are active in the surrounding area. In the absence of observations of long eared bats emerging during summer surveys it is most likely that the roof acts as a transitional/occasional roost - a roost of low conservation importance (Mitchell-Jones 2004).

5.1.2 No observations of other species emerging were recorded and therefore it is considered unlikely that the bungalow supports other bat species.

5.2 Impact of Proposals and Recommendations

5.2.1 The proposals to convert the central section of the roof space would result in the permanent damage of the confirmed long-eared bat transitional/occasional roost in the void. Furthermore, in the absence of mitigation, the construction work would result in any bats present at the time of the work being disturbed and could lead to bats being injured or killed.

5.2.2 A European Protected Species mitigation licence will be required to allow the work to proceed lawfully. Subject to the findings of DNA analysis of a dropping sample, the survey findings show that the site would qualify for registration under the Bat Mitigation Class Licence (Low Impact) (WML-CL21). Either under the terms of a full mitigation licence (AL13) or the Mitigation Class Licence, mitigation for the impacts of the building work on bats in order to avoid harming bats and to retain the bat roost, will be

required and mitigation and compensation proposals detailing the approach to be adopted are set out in **Section 6** below.

6 MITIGATION AND COMPENSATION PROPOSALS

- 6.1.1** Before the licensable work commences to the building i.e. conversion of the roof void, a European Protected Species mitigation licence or confirmation of the site's registration under the Bat Mitigation Class Licence (Low Impact) (if applicable) will be obtained.
- 6.1.2** All licensable works to the property i.e. the careful removal of tiles and roof coverings associated with the roost and start of the loft conversion, will be undertaken outside of the winter hibernation season (mid-November to February) to minimise the risk of disturbing torpid bats. Before the work begins, a Schwegler 2F-DFP bat box (or functionally equivalent woodcrete bat box) will be fixed to a suitable mature tree or building on site and will be in place for a minimum of five years (the box can only be removed after the five years if no evidence of use has been found at this stage).
- 6.1.3** Before construction work begins, the licensed ecologist will give a toolbox talk to all contractors on site detailing that bats are present, the legislation protecting bats, the locations of roosting sites in the bungalow, good working practices, the measures that are required to protect bats during the work and what to do if bats are found. A copy of the licence will be available for inspection on site during all licensable works.
- 6.1.4** The works will be preceded by a repeat inspection of the loft space for the presence of bats by a licensed ecologist. If bats are present and it is possible to capture them safely, they will be taken by hand by the licensed ecologist and transferred to the bat box erected on site.
- 6.1.5** During the construction works, roof coverings to be removed to install dormer windows/skylights will be lifted carefully by gloved hands or with handheld tools under the direct supervision of the licensed ecologist. In the event bat(s) are discovered during the course of the work, the ecologist will capture the bat(s) and transfer it/them directly to the bat boxes erected in advance of the works. If a bat is found during work to the remainder of the property when the ecologist is not present, works will stop immediately and a licensed ecologist will be called back to site to provide further advice.
- 6.1.6** In the long-term, roosting locations dedicated to bats will be retained within the enclosed roof void to mitigate the impacts of conversion. Existing

bitumen and hessian (Type 1F) roofing felt will be retained and as necessary, bat access will be retained or created to enable bats to access the void (**Appendices 3 & 4**). Gaps will be created by leaving gaps in the mortar under a ridge of hip tiles or installing bat access tiles **Please note that breathable membranes (non-bitumen coated roofing membranes) that do not meet Natural England's test criteria for bat safe membranes, which have been shown to be harmful to bats will not be used in the section of roof bats will have access too.**

7 REFERENCES

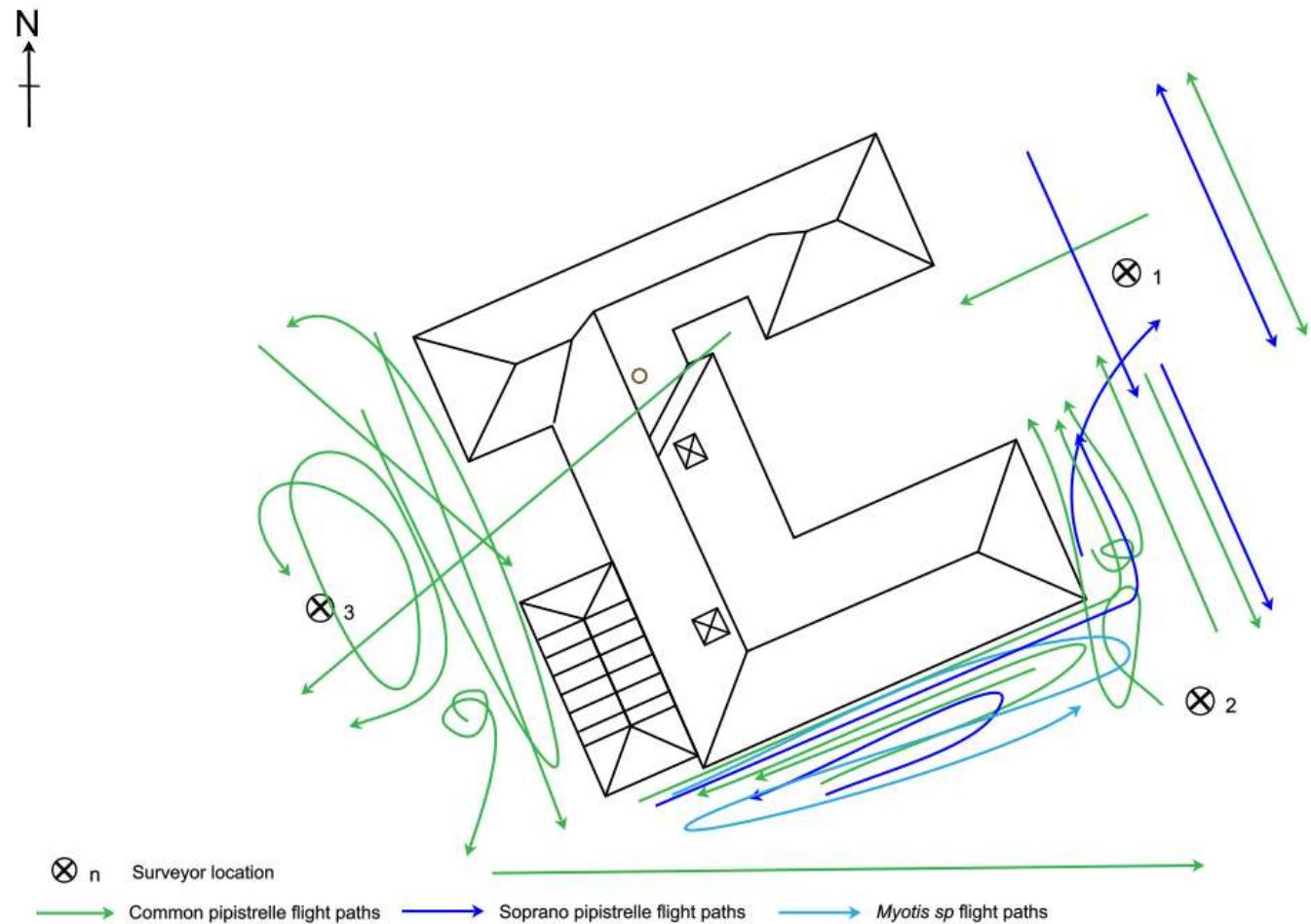
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APPENDIX 1 - BAT EMERGENCE SURVEY FINDINGS



Drawn by:	Date	Scale:	23 Conisboro Avenue, Caversham, Berkshire, RG4 7JB	
MP/VP	October 2022	Not to scale	Emergence Survey Findings	

John Wenman Ecological Consultancy
14/11/2022

APPENDIX 2 – BAT EMERGENCE SURVEY RAW DATA TABLES

20th July 2022 - Location 1 (Batlogger) (NJH)

Time	Species Text	Calls
21:21:56	<i>Pipistrellus pipistrellus</i>	4
21:21:58	<i>Pipistrellus pipistrellus</i>	22
21:22:04	<i>Pipistrellus pipistrellus</i>	27
21:22:12	<i>Pipistrellus pipistrellus</i>	17
21:22:21	<i>Pipistrellus pipistrellus</i>	7
21:22:26	<i>Pipistrellus pipistrellus</i>	15
21:22:31	<i>Pipistrellus pipistrellus</i>	21
21:22:38	<i>Pipistrellus pipistrellus</i>	1
21:22:40	<i>Pipistrellus pipistrellus</i>	29
21:23:19	<i>Pipistrellus pipistrellus</i>	16
21:23:25	<i>Pipistrellus pipistrellus</i>	18
21:23:25	<i>Pipistrellus pipistrellus</i>	1
21:24:11	<i>Pipistrellus pipistrellus</i>	6
21:26:34	<i>Nyctalus noctula</i>	2
21:31:25	<i>Pipistrellus pipistrellus</i>	15
21:32:50	<i>Pipistrellus pipistrellus</i>	8
21:33:51	<i>Pipistrellus pipistrellus</i>	21
21:34:21	<i>Pipistrellus pipistrellus</i>	36
21:37:15	<i>Pipistrellus pipistrellus</i>	1
21:37:46	<i>Pipistrellus pygmaeus</i>	10
21:37:57	<i>Pipistrellus pygmaeus</i>	0
21:37:59	<i>Pipistrellus pygmaeus</i>	21
21:38:54	<i>Pipistrellus pygmaeus</i>	19
21:39:30	<i>Pipistrellus pygmaeus</i>	13
21:42:43	<i>Nyctalus noctula</i>	5
21:42:51	<i>Pipistrellus pygmaeus</i>	7
21:44:35	<i>Pipistrellus pygmaeus</i>	23
21:50:12	<i>Pipistrellus pipistrellus</i>	13
21:54:04	<i>Pipistrellus pipistrellus</i>	2
22:02:29	<i>Myotis spec.</i>	3
22:04:12	<i>Pipistrellus pygmaeus</i>	2
22:08:03	<i>Pipistrellus pipistrellus</i>	14
22:08:03	<i>Pipistrellus pipistrellus</i>	2
22:08:15	<i>Pipistrellus pipistrellus</i>	8
22:18:37	<i>Pipistrellus pipistrellus</i>	5
22:18:40	<i>Pipistrellus pipistrellus</i>	8
22:19:54	<i>Nyctalus noctula</i>	4
22:20:00	<i>Nyctalus noctula</i>	1
22:21:49	<i>Nyctalus noctula</i>	3
22:26:38	<i>Pipistrellus pipistrellus</i>	36
22:29:57	<i>Pipistrellus pipistrellus</i>	2

22:30:01	<i>Pipistrellus pipistrellus</i>	22
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20th July 2022 - Location 2 (Batlogger) (MJH)

Time	Species Text	Calls
21:18:09	<i>Pipistrellus pipistrellus</i>	3
21:21:57	<i>Pipistrellus pipistrellus</i>	1
21:21:59	<i>Pipistrellus pipistrellus</i>	70
21:22:31	<i>Pipistrellus pipistrellus</i>	35
21:22:41	<i>Pipistrellus pipistrellus</i>	36
21:23:17	<i>Pipistrellus pipistrellus</i>	33
21:23:26	<i>Pipistrellus pipistrellus</i>	38
21:31:11	<i>Pipistrellus pipistrellus</i>	6
21:31:22	<i>Pipistrellus pipistrellus</i>	24
21:33:51	<i>Pipistrellus pipistrellus</i>	18
21:34:02	<i>Pipistrellus pipistrellus</i>	3
21:34:10	<i>Pipistrellus pipistrellus</i>	2
21:34:20	<i>Pipistrellus pipistrellus</i>	25
21:35:25	<i>Pipistrellus pygmaeus</i>	25
21:37:48	<i>Pipistrellus pygmaeus</i>	34
21:37:56	<i>Pipistrellus pygmaeus</i>	28
21:39:31	<i>Pipistrellus pygmaeus</i>	14
21:39:31	<i>Pipistrellus pygmaeus</i>	1
21:42:46	<i>Nyctalus noctula</i>	4
21:44:37	<i>Pipistrellus pygmaeus</i>	19
21:50:13	<i>Pipistrellus pipistrellus</i>	11
22:02:30	<i>Myotis spec.</i>	1
22:08:04	<i>Pipistrellus pipistrellus</i>	0
22:08:18	<i>Pipistrellus pipistrellus</i>	3
22:19:54	<i>Nyctalus noctula</i>	8
22:21:52	<i>Nyctalus noctula</i>	1
22:21:54	<i>Nyctalus noctula</i>	0
22:21:57	<i>Nyctalus noctula</i>	0
22:30:04	<i>Pipistrellus pipistrellus</i>	0

20th July 2022 - Location 3 (Batlogger) (MB)

Time	Species Text	Calls
21:08:37	<i>Pipistrellus pipistrellus</i>	1
21:12:40	<i>Pipistrellus pipistrellus</i>	9
21:13:40	<i>Pipistrellus pipistrellus</i>	2
21:13:43	<i>Pipistrellus pipistrellus</i>	6
21:13:45	<i>Pipistrellus pipistrellus</i>	12
21:14:14	<i>Pipistrellus pipistrellus</i>	12
21:15:10	<i>Pipistrellus pipistrellus</i>	7
21:15:40	<i>Pipistrellus pipistrellus</i>	1
21:15:50	<i>Pipistrellus pipistrellus</i>	33
21:15:56	<i>Pipistrellus pipistrellus</i>	33
21:16:02	<i>Pipistrellus pipistrellus</i>	32

21:16:10	<i>Pipistrellus pipistrellus</i>	27
21:16:16	<i>Pipistrellus pipistrellus</i>	53
21:16:28	<i>Pipistrellus pipistrellus</i>	39
21:16:38	<i>Pipistrellus pipistrellus</i>	19
21:18:04	<i>Pipistrellus pipistrellus</i>	38
21:18:58	<i>Pipistrellus pipistrellus</i>	17
21:19:18	<i>Pipistrellus pipistrellus</i>	64
21:20:41	<i>Pipistrellus pipistrellus</i>	27
21:20:45	<i>Pipistrellus pipistrellus</i>	41
21:20:53	<i>Pipistrellus pipistrellus</i>	27
21:20:58	<i>Pipistrellus pipistrellus</i>	24
21:21:02	<i>Pipistrellus pipistrellus</i>	97
21:21:19	<i>Pipistrellus pipistrellus</i>	106
21:21:40	<i>Pipistrellus pipistrellus</i>	49
21:22:16	<i>Pipistrellus pipistrellus</i>	12
21:22:22	<i>Pipistrellus pygmaeus</i>	17
21:22:27	<i>Pipistrellus pygmaeus</i>	5
21:22:30	<i>Pipistrellus pygmaeus</i>	51
21:22:46	<i>Pipistrellus pygmaeus</i>	25
21:22:46	<i>Pipistrellus pipistrellus</i>	14
21:22:46	<i>Pipistrellus pygmaeus</i>	1
21:22:51	<i>Pipistrellus pipistrellus</i>	66
21:23:05	<i>Pipistrellus pipistrellus</i>	111
21:23:28	<i>Pipistrellus pygmaeus</i>	24
21:23:32	<i>Pipistrellus pipistrellus</i>	8
21:23:32	<i>Pipistrellus pygmaeus</i>	7
21:23:36	<i>Pipistrellus pipistrellus</i>	52
21:23:36	<i>Pipistrellus pygmaeus</i>	1
21:23:49	<i>Pipistrellus pipistrellus</i>	46
21:23:59	<i>Pipistrellus pipistrellus</i>	54
21:24:30	<i>Pipistrellus pipistrellus</i>	0
21:24:41	<i>Pipistrellus pipistrellus</i>	1
21:25:16	<i>Pipistrellus pipistrellus</i>	43
21:27:23	<i>Pipistrellus pipistrellus</i>	23
21:30:34	<i>Pipistrellus pipistrellus</i>	36
21:30:46	<i>Pipistrellus pipistrellus</i>	33
21:30:56	<i>Pipistrellus pipistrellus</i>	22
21:31:01	<i>Pipistrellus pipistrellus</i>	51
21:31:15	<i>Pipistrellus pipistrellus</i>	31
21:31:29	<i>Pipistrellus pipistrellus</i>	34
21:31:36	<i>Pipistrellus pipistrellus</i>	47
21:32:19	<i>Pipistrellus pygmaeus</i>	9
21:32:22	<i>Pipistrellus pygmaeus</i>	37
21:32:43	<i>Pipistrellus pipistrellus</i>	18
21:32:47	<i>Pipistrellus pipistrellus</i>	3
21:33:28	<i>Pipistrellus pygmaeus</i>	10

21:33:54	<i>Pipistrellus pygmaeus</i>	45
21:34:05	<i>Pipistrellus pygmaeus</i>	43
21:34:05	<i>Pipistrellus pipistrellus</i>	39
21:34:17	<i>Pipistrellus pygmaeus</i>	18
21:34:22	<i>Pipistrellus pygmaeus</i>	55
21:34:34	<i>Pipistrellus pygmaeus</i>	19
21:34:39	<i>Pipistrellus pygmaeus</i>	42
21:34:47	<i>Pipistrellus pygmaeus</i>	25
21:34:55	<i>Pipistrellus pygmaeus</i>	12
21:34:59	<i>Pipistrellus pygmaeus</i>	20
21:35:06	<i>Pipistrellus pygmaeus</i>	11
21:35:09	<i>Pipistrellus pygmaeus</i>	19
21:35:14	<i>Pipistrellus pygmaeus</i>	17
21:35:17	<i>Pipistrellus pygmaeus</i>	16
21:35:21	<i>Pipistrellus pygmaeus</i>	15
21:35:48	<i>Pipistrellus pipistrellus</i>	12
21:40:02	<i>Pipistrellus pipistrellus</i>	13
21:42:54	<i>Pipistrellus pygmaeus</i>	31
21:54:00	<i>Pipistrellus pipistrellus</i>	8
22:08:09	<i>Pipistrellus pipistrellus</i>	10
22:08:13	<i>Pipistrellus pipistrellus</i>	1
22:09:37	<i>Myotis daubentonii</i>	14
22:19:54	<i>Nyctalus noctula</i>	2
22:19:56	<i>Nyctalus noctula</i>	0
22:25:16	<i>Pipistrellus pipistrellus</i>	5
22:26:14	<i>Pipistrellus pipistrellus</i>	28
22:26:32	<i>Pipistrellus pipistrellus</i>	6
22:33:16	<i>Pipistrellus pygmaeus</i>	3
22:33:19	<i>Pipistrellus pipistrellus</i>	1

4th August 2022 - Location 1 (Batlogger) (NJH)

Time	Species	Calls
21:07:15	<i>Pipistrellus pipistrellus</i>	14
21:07:30	<i>Pipistrellus pipistrellus</i>	46
21:07:43	<i>Pipistrellus pipistrellus</i>	21
21:09:29	<i>Pipistrellus pipistrellus</i>	16
21:09:55	<i>Pipistrellus pipistrellus</i>	11
21:10:19	<i>Pipistrellus pygmaeus</i>	15
21:11:14	<i>Pipistrellus pipistrellus</i>	17
21:12:26	<i>Nyctalus noctula</i>	2
21:23:37	<i>Pipistrellus pygmaeus</i>	10
21:24:00	<i>Pipistrellus pipistrellus</i>	12
21:24:00	<i>Pipistrellus pipistrellus</i>	1
21:27:24	<i>Pipistrellus pipistrellus</i>	35
21:32:24	<i>Pipistrellus pygmaeus</i>	16

21:35:45	<i>Pipistrellus pygmaeus</i>	6
21:35:50	<i>Pipistrellus pygmaeus</i>	17
21:37:38	<i>Pipistrellus pygmaeus</i>	9
21:37:38	<i>Pipistrellus pipistrellus</i>	5
21:39:43	<i>Pipistrellus pipistrellus</i>	6
21:40:09	<i>Pipistrellus pygmaeus</i>	17
21:43:16	<i>Pipistrellus pygmaeus</i>	7
21:44:16	<i>Pipistrellus pipistrellus</i>	12
21:44:27	<i>Pipistrellus pipistrellus</i>	4
21:49:22	<i>Pipistrellus pygmaeus</i>	5
21:52:35	<i>Pipistrellus pipistrellus</i>	12
21:59:18	<i>Pipistrellus pipistrellus</i>	0
21:59:20	<i>Pipistrellus pipistrellus</i>	15
22:01:34	<i>Plecotus auritus</i>	3
22:10:07	<i>Plecotus auritus</i>	9

4th August 2022 - Location 2 (Batlogger) (FO)

Time	Species	Calls
21:07:29	<i>Pipistrellus pipistrellus</i>	24
21:07:35	<i>Pipistrellus pipistrellus</i>	71
21:09:30	<i>Pipistrellus pipistrellus</i>	8
21:09:53	<i>Pipistrellus pipistrellus</i>	24
21:10:18	<i>Pipistrellus pygmaeus</i>	13
21:11:13	<i>Pipistrellus pipistrellus</i>	11
21:12:25	<i>Nyctalus noctula</i>	4
21:23:38	<i>Pipistrellus pygmaeus</i>	10
21:23:59	<i>Pipistrellus pipistrellus</i>	11
21:25:16	<i>Pipistrellus pipistrellus</i>	3
21:27:23	<i>Pipistrellus pipistrellus</i>	18
21:32:25	<i>Pipistrellus pygmaeus</i>	28
21:35:51	<i>Pipistrellus pygmaeus</i>	20
21:37:39	<i>Pipistrellus pipistrellus</i>	19
21:37:39	<i>Pipistrellus pygmaeus</i>	2
21:39:40	<i>Pipistrellus pipistrellus</i>	27
21:40:10	<i>Pipistrellus pygmaeus</i>	15
21:43:16	<i>Pipistrellus pygmaeus</i>	19
21:44:17	<i>Pipistrellus pipistrellus</i>	23
21:44:24	<i>Pipistrellus pipistrellus</i>	31
21:49:21	<i>Pipistrellus pygmaeus</i>	6
21:52:36	<i>Pipistrellus pipistrellus</i>	4
21:59:20	<i>Pipistrellus pipistrellus</i>	5
22:10:06	<i>Plecotus auritus</i>	15
22:10:06	<i>Plecotus auritus</i>	2

4th August 2022 - Location 3 (Batlogger) (MJH)

Time	Species	Calls
21:06:44	<i>Pipistrellus pipistrellus</i>	1
21:06:59	<i>Pipistrellus pipistrellus</i>	17
21:07:07	<i>Pipistrellus pipistrellus</i>	17
21:07:13	<i>Pipistrellus pipistrellus</i>	3
21:07:15	<i>Pipistrellus pipistrellus</i>	4
21:07:18	<i>Pipistrellus pipistrellus</i>	18
21:07:25	<i>Pipistrellus pipistrellus</i>	18
21:09:24	<i>Pipistrellus pipistrellus</i>	1
21:09:31	<i>Pipistrellus pipistrellus</i>	23
21:09:39	<i>Pipistrellus pipistrellus</i>	1
21:09:44	<i>Pipistrellus pipistrellus</i>	0
21:09:50	<i>Pipistrellus pygmaeus</i>	3
21:09:50	<i>Pipistrellus pipistrellus</i>	1
21:10:11	<i>Pipistrellus pipistrellus</i>	16
21:10:25	<i>Pipistrellus pipistrellus</i>	2
21:12:24	<i>Nyctalus noctula</i>	7
21:13:29	<i>Pipistrellus pipistrellus</i>	0
21:13:35	<i>Pipistrellus pipistrellus</i>	1
21:14:03	<i>Pipistrellus pipistrellus</i>	0
21:15:01	<i>Pipistrellus pipistrellus</i>	5
21:15:16	<i>Pipistrellus pipistrellus</i>	0
21:15:22	<i>Pipistrellus pipistrellus</i>	0
21:15:42	<i>Pipistrellus pipistrellus</i>	2
21:16:17	<i>Pipistrellus pipistrellus</i>	0
21:20:44	<i>Pipistrellus pygmaeus</i>	1
21:21:29	<i>Pipistrellus pipistrellus</i>	1
21:21:39	<i>Pipistrellus pipistrellus</i>	0
21:21:46	<i>Pipistrellus pipistrellus</i>	1
21:22:03	<i>Pipistrellus pipistrellus</i>	0
21:24:11	<i>Pipistrellus pipistrellus</i>	0
21:24:22	<i>Pipistrellus pipistrellus</i>	1
21:24:27	<i>Pipistrellus pipistrellus</i>	0
21:24:35	<i>Pipistrellus pipistrellus</i>	26
21:25:19	<i>Pipistrellus pipistrellus</i>	76
21:26:15	<i>Pipistrellus pipistrellus</i>	1
21:26:37	<i>Pipistrellus pipistrellus</i>	0
21:31:53	<i>Pipistrellus pipistrellus</i>	28
21:34:14	<i>Pipistrellus pipistrellus</i>	0
21:37:44	<i>Pipistrellus pipistrellus</i>	31
21:37:53	<i>Pipistrellus pipistrellus</i>	12
21:39:28	<i>Pipistrellus pipistrellus</i>	0
21:39:35	<i>Pipistrellus pipistrellus</i>	18

21:41:58	<i>Pipistrellus pygmaeus</i>	20
21:42:50	<i>Pipistrellus pipistrellus</i>	1
21:45:19	<i>Pipistrellus pipistrellus</i>	21
21:46:23	<i>Pipistrellus pipistrellus</i>	45
21:53:19	<i>Pipistrellus pipistrellus</i>	23
21:54:13	<i>Pipistrellus pipistrellus</i>	8
21:59:24	<i>Pipistrellus pipistrellus</i>	18

25th August 2022 - Location 1 (Batlogger) (NJH)

Time	Species	Calls
20:22:48	<i>Nyctalus noctula</i>	7
20:22:52	<i>Nyctalus noctula</i>	4
20:22:56	<i>Nyctalus noctula</i>	5
20:22:59	<i>Nyctalus noctula</i>	8
20:23:05	<i>Nyctalus noctula</i>	21
20:25:45	<i>Pipistrellus pipistrellus</i>	8
20:25:49	<i>Pipistrellus pipistrellus</i>	0
20:25:51	<i>Pipistrellus pipistrellus</i>	3
20:26:02	<i>Nyctalus noctula</i>	32
20:28:32	<i>Pipistrellus pipistrellus</i>	0
20:28:53	<i>Pipistrellus pipistrellus</i>	10
20:29:04	<i>Nyctalus noctula</i>	4
20:29:10	<i>Nyctalus noctula</i>	6
20:33:07	<i>Pipistrellus pygmaeus</i>	11
20:53:04	<i>Myotis spec.</i>	22
20:53:42	<i>Pipistrellus pygmaeus</i>	18
20:55:13	<i>Pipistrellus pygmaeus</i>	17
20:57:37	<i>Pipistrellus pygmaeus</i>	13
21:00:29	<i>Pipistrellus pipistrellus</i>	12
21:01:44	<i>Pipistrellus pygmaeus</i>	6
21:02:45	<i>Pipistrellus pipistrellus</i>	10
21:03:43	<i>Pipistrellus pipistrellus</i>	11
21:04:51	<i>Myotis spec.</i>	6
21:05:59	<i>Pipistrellus pipistrellus</i>	1
21:08:06	<i>Pipistrellus pipistrellus</i>	1
21:08:09	<i>Pipistrellus pipistrellus</i>	8
21:10:14	<i>Pipistrellus pipistrellus</i>	0
21:13:00	<i>Pipistrellus pipistrellus</i>	12
21:13:15	<i>Pipistrellus pipistrellus</i>	0
21:13:58	<i>Pipistrellus pipistrellus</i>	7
21:14:52	<i>Pipistrellus pygmaeus</i>	1
21:17:23	<i>Pipistrellus pipistrellus</i>	0
21:19:13	<i>Pipistrellus pipistrellus</i>	1

25th August 2022 - Location 2 (Batlogger) (MB)

Time	Species	Calls
20:23:03	<i>Nyctalus noctula</i>	3
20:23:06	<i>Nyctalus noctula</i>	5
20:23:09	<i>Nyctalus noctula</i>	4
20:23:09	<i>Nyctalus noctula</i>	1
20:23:14	<i>Nyctalus noctula</i>	1
20:25:43	<i>Pipistrellus pipistrellus</i>	44
20:26:11	<i>Nyctalus noctula</i>	2
20:28:32	<i>Pipistrellus pipistrellus</i>	21
20:28:50	<i>Pipistrellus pipistrellus</i>	19
20:53:01	<i>Myotis spec.</i>	18
20:53:42	<i>Pipistrellus pygmaeus</i>	11
20:55:13	<i>Pipistrellus pygmaeus</i>	17
20:57:37	<i>Pipistrellus pygmaeus</i>	19
21:00:30	<i>Pipistrellus pipistrellus</i>	18
21:01:43	<i>Pipistrellus pygmaeus</i>	2
21:01:46	<i>Pipistrellus pygmaeus</i>	9
21:03:44	<i>Pipistrellus pipistrellus</i>	9
21:04:52	<i>Myotis spec.</i>	9
21:10:07	<i>Pipistrellus pipistrellus</i>	1
21:10:20	<i>Pipistrellus pipistrellus</i>	0
21:13:00	<i>Pipistrellus pipistrellus</i>	19
21:13:55	<i>Pipistrellus pipistrellus</i>	13
21:15:34	<i>Pipistrellus pipistrellus</i>	3
21:18:11	<i>Pipistrellus pipistrellus</i>	3
21:19:20	<i>Pipistrellus pipistrellus</i>	2
21:19:45	<i>Pipistrellus pipistrellus</i>	0
21:21:13	<i>Pipistrellus pipistrellus</i>	1
21:21:49	<i>Pipistrellus pipistrellus</i>	1
21:01:43	<i>Pipistrellus pygmaeus</i>	2

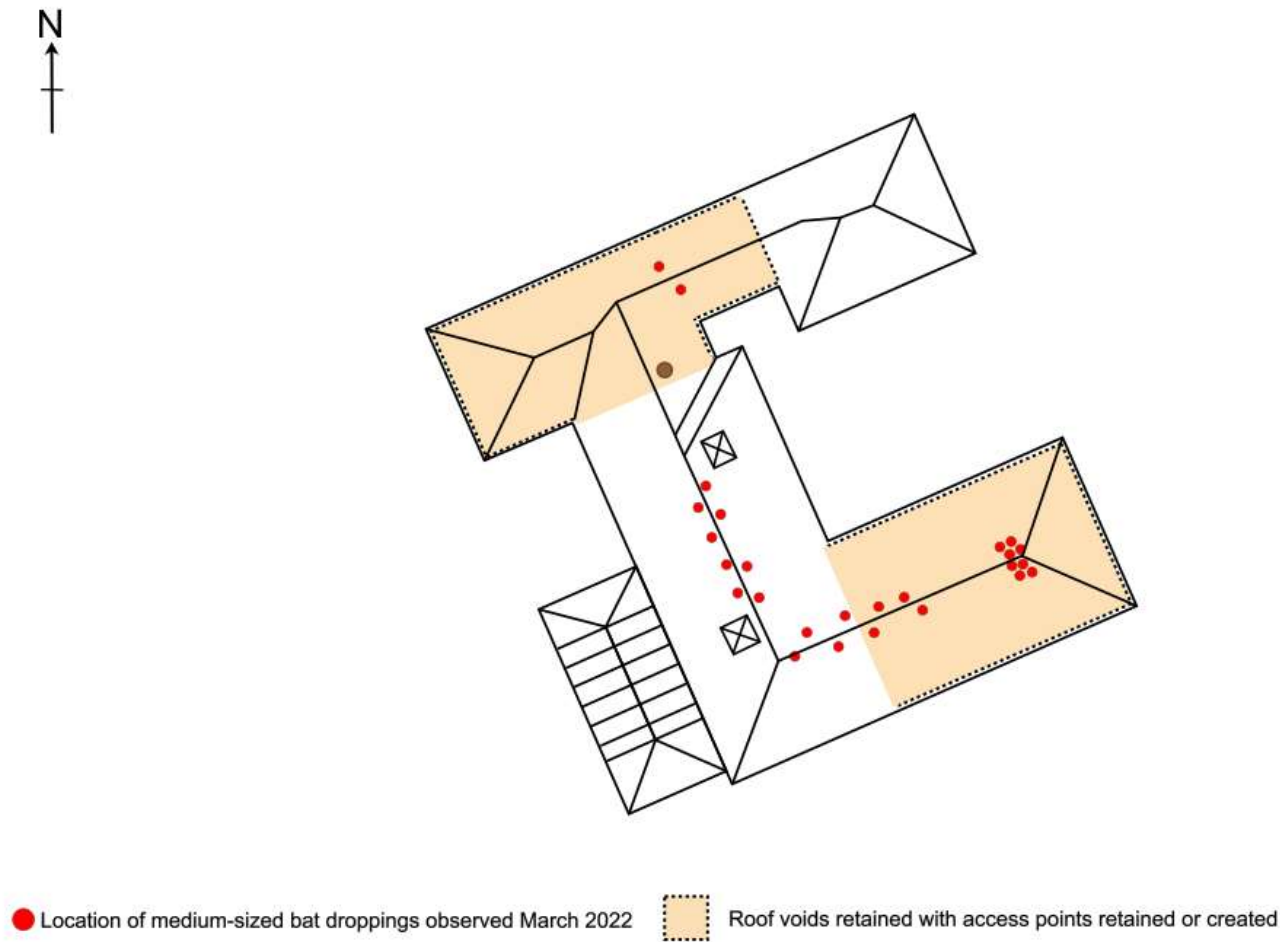
25th August 2022 - Location 3 (Batlogger) (MJH)

Time	Species	Calls
20:22:37	<i>Pipistrellus pipistrellus</i>	1
20:22:40	<i>Pipistrellus pipistrellus</i>	1
20:22:46	<i>Nyctalus noctula</i>	12
20:22:46	<i>Pipistrellus pipistrellus</i>	1
20:22:54	<i>Nyctalus noctula</i>	9
20:22:54	<i>Pipistrellus pipistrellus</i>	1
20:24:39	<i>Pipistrellus pipistrellus</i>	5
20:24:44	<i>Pipistrellus pipistrellus</i>	2
20:24:50	<i>Pipistrellus pipistrellus</i>	3
20:24:53	<i>Pipistrellus pipistrellus</i>	2
20:24:57	<i>Pipistrellus pipistrellus</i>	1

20:25:01	<i>Pipistrellus pipistrellus</i>	13
20:25:05	<i>Pipistrellus pipistrellus</i>	1
20:25:14	<i>Pipistrellus pipistrellus</i>	3
20:25:19	<i>Pipistrellus pipistrellus</i>	1
20:25:25	<i>Pipistrellus pipistrellus</i>	3
20:25:28	<i>Pipistrellus pipistrellus</i>	1
20:25:31	Social call	1
20:25:31	<i>Pipistrellus pipistrellus</i>	1
20:25:35	<i>Pipistrellus pipistrellus</i>	4
20:25:37	<i>Pipistrellus pipistrellus</i>	23
20:25:48	<i>Pipistrellus pipistrellus</i>	1
20:25:53	<i>Pipistrellus pipistrellus</i>	2
20:25:57	<i>Pipistrellus pipistrellus</i>	1
20:26:00	<i>Nyctalus noctula</i>	34
20:26:28	<i>Pipistrellus pipistrellus</i>	1
20:26:34	<i>Pipistrellus pipistrellus</i>	1
20:26:59	<i>Pipistrellus pipistrellus</i>	3
20:27:03	<i>Pipistrellus pipistrellus</i>	2
20:27:10	<i>Pipistrellus pipistrellus</i>	1
20:27:14	<i>Pipistrellus pipistrellus</i>	5
20:27:17	<i>Pipistrellus pipistrellus</i>	3
20:27:20	<i>Pipistrellus pipistrellus</i>	0
20:27:23	<i>Pipistrellus pipistrellus</i>	2
20:27:30	<i>Pipistrellus pipistrellus</i>	2
20:27:36	<i>Pipistrellus pipistrellus</i>	1
20:27:40	<i>Pipistrellus pipistrellus</i>	2
20:28:04	<i>Pipistrellus pipistrellus</i>	2
20:28:12	<i>Pipistrellus pipistrellus</i>	4
20:28:17	<i>Pipistrellus pipistrellus</i>	0
20:28:23	<i>Pipistrellus pipistrellus</i>	1
20:28:29	<i>Pipistrellus pipistrellus</i>	2
20:28:34	<i>Pipistrellus pipistrellus</i>	1
20:28:37	<i>Pipistrellus pipistrellus</i>	90
20:28:37	Social call	2
20:29:10	<i>Nyctalus noctula</i>	7
20:30:44	<i>Pipistrellus pipistrellus</i>	0
20:30:59	<i>Pipistrellus pipistrellus</i>	0
20:31:07	<i>Pipistrellus pipistrellus</i>	2
20:31:17	<i>Pipistrellus pipistrellus</i>	0
20:31:25	<i>Pipistrellus pipistrellus</i>	2
20:31:29	<i>Pipistrellus pipistrellus</i>	69
20:31:43	<i>Pipistrellus pipistrellus</i>	35
20:31:49	<i>Pipistrellus pipistrellus</i>	12
20:33:01	<i>Pipistrellus pipistrellus</i>	1
20:33:04	<i>Pipistrellus pipistrellus</i>	9
20:35:03	<i>Pipistrellus pipistrellus</i>	4

20:38:45	<i>Pipistrellus pygmaeus</i>	5
20:52:56	<i>Myotis spec.</i>	1
20:55:50	<i>Pipistrellus pipistrellus</i>	2
20:57:18	<i>Nyctalus noctula</i>	2
20:57:23	<i>Nyctalus noctula</i>	1
21:13:14	<i>Pipistrellus pipistrellus</i>	14
21:24:46	<i>Pipistrellus pipistrellus</i>	8
21:35:08	<i>Plecotus auritus</i>	13

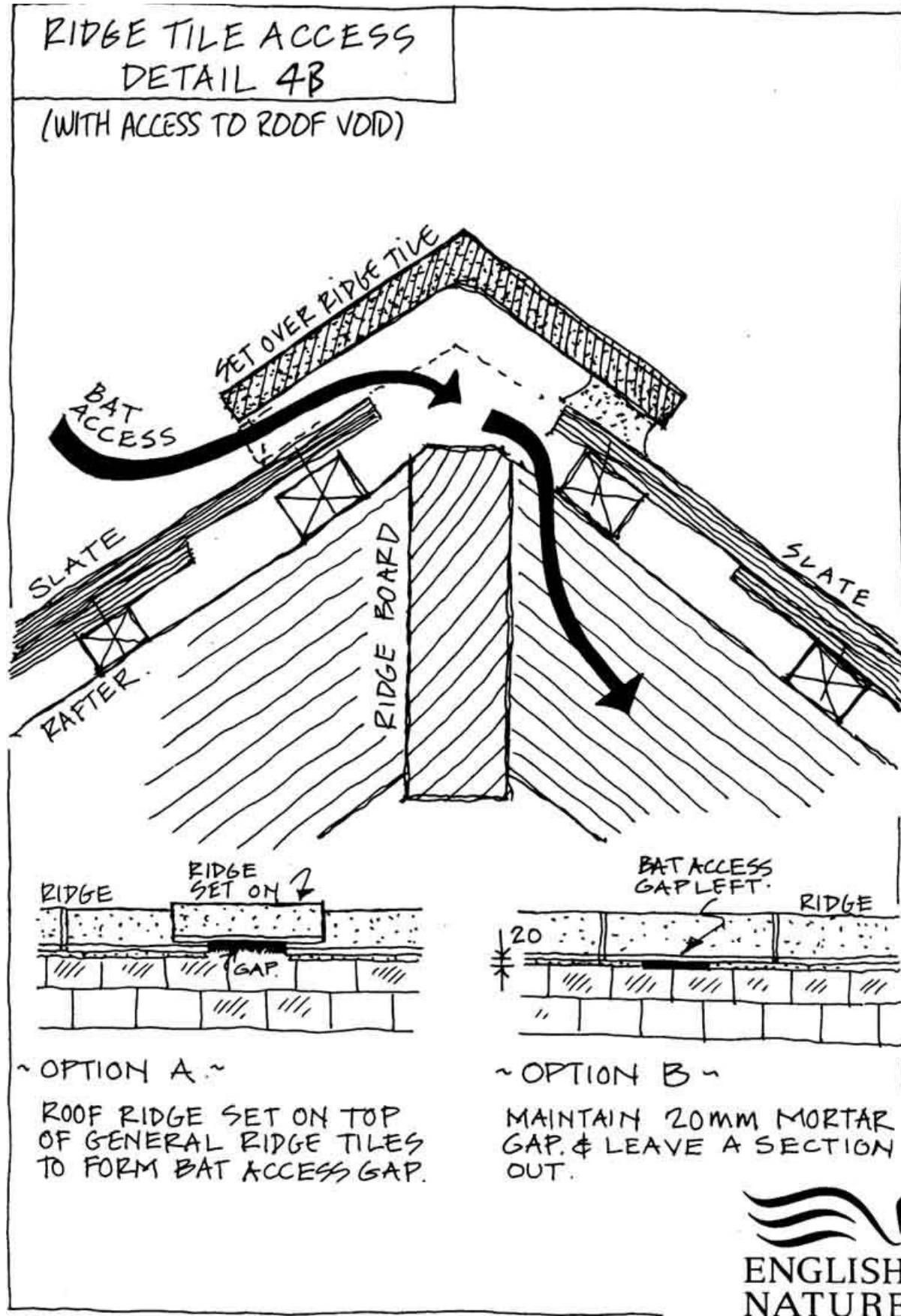
APPENDIX 3 – BAT ROOST PROVISION



Drawn by:	Date	Scale:	23 Conisboro Avenue, Caversham, Berkshire, RG4 7JB	
MP/VP	October 2022	Not to scale	Bat Roost Provision	

John Wenman Ecological Consultancy
14/11/2022

APPENDIX 4 – RIDGE ACCESS



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The above information is for guidance only and may not be appropriate in all circumstances, if in doubt seek professional advice.
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14/11/2022