

Bat Emergence and Re-Entry Survey

Survey Site

**Chapel Cottage, 91 Chittoe,
Chippenham
SN15 2EL**

Client

Joe Worrell

Report Date

24/07/2026

Project

**This report is prepared to inform a
planning application for the proposal
described as a re-configuration of
existing internal space, two storey
extension, landscaping and garage.**

This report is supplementary to the Preliminary Roost Assessment
report completed by Arbtech Consulting Ltd (2026).

BERS survey methodology and legislation can be found in the
Appendices of this report.

Joelle Cattermole, BSc

Assistant Ecologist

joellecattermole@arbtech.co.uk

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Survey Author & Designer

Survey design and oversight were provided by Consultant Ecologist Bethany Swain BSc (Hons) (Accredited on Natalie's Natural England Bat License No. Details Available Upon Request) at BCT Level 2 competence.

Executive Summary

This report is an addendum to and must be read in conjunction with the Preliminary Roost Assessment completed by Arbtech Consulting Limited (2026) for the same site address. This table may include further work you will need to commission (if any) to obtain planning permission or comply with legislation for other consent. All clients are expected to read and understand this section, or to contact the consultant for advice.

One night roost was identified during the course of this survey belonging to a lesser-horseshoe species. The requirements arising from the findings can be found in Table 1.

Table 1: Requirements arising as a result of this survey.

Requirement	Details
Bat Licence	A Bat Licence is required to legally permit the works. This requirement exists independently of the planning system, and is required whether planning permission is needed or not, and whether this is listed as a condition of planning or not. If the licence is not submitted by 07/10/2026 a material changes check will be required. If the licence is not submitted by 01/05/2027 updated dusk surveys may be required. The licence can be applied for once planning permission has been granted (where required), and within 3 months of the start of works. Any pre-commencement wildlife related planning conditions that require sign off from the council will need to be discharged prior to licence submission.
BRD	Due to the presence of bat roosts on site, local bat records will need to be obtained to inform the licence application.
Wildlife Sensitive Lighting Strategy	A low impact lighting strategy will be adopted for the site during and post-development.

Report Validity

This report is valid for up to 18 months for the purposes of planning/LBC applications. For the purposes of bat licensing, the report is considered ‘up to date’ and suitable for licence application until the start of the following bat activity season. After those timeframes, some level of updated surveys will be required. The level of survey effort will depend on the specific circumstances of the site.

Site Context and Background

Background

The site is located at National Grid Reference ST 95676 66560 and has an area of approximately 0.13ha. The site comprises a detached dwelling (B1), three detached outbuildings (B2–B4), four scattered trees, areas of lowland mixed deciduous woodland, vegetated gardens, and hardstanding associated with the existing residential property. The surrounding landscape is predominantly rural, characterised by arable farmland interspersed with mature woodland blocks, hedgerows, and small watercourses. The site lies immediately adjacent to deciduous woodland, with the wider landscape providing a well-connected network of semi-natural habitats suitable for wildlife movement and dispersal. Spye Park Site of Special Scientific Interest (SSSI) is located approximately 560m northwest of the site, although no direct impacts are anticipated as a result of the proposed development. The proximity of the site to woodland, hedgerows and agricultural habitats increases its suitability for a range of protected and notable species, including bats and birds.

A Preliminary Roost Assessment (PRA) was completed by Arbtech in February 2026, during which four buildings (B1–B4) were assessed for their potential to support roosting bats. Building B1 was assessed as having high suitability for roosting bats due to its traditional construction, extensive gaps beneath roof tiles, displaced ridge tiles, open eaves, chimney access points, and accessible loft voids, despite no direct evidence of bats being recorded during the inspection. Consequently, three bat emergence and re-entry surveys are required to establish the presence or likely absence of roosting bats prior to any works affecting the building. Building B3 was assessed as having low suitability owing to limited crevice features associated with its corrugated metal construction and dense ivy cover, while Buildings B2 and B4 were assessed as having negligible suitability due to their well-sealed, lightweight construction and absence of suitable access points or internal voids. As these outbuildings are not proposed to be altered as part of the development, no further bat surveys are required in relation to them.

Context

Number of buildings on site

4

Number of buildings surveyed

1

Reason for omitting buildings

Buildings B2, B3 and B4 were omitted from emergence and re-entry surveys as they are not proposed to be impacted by the development. Furthermore, B2 and B4 were assessed as having negligible suitability for roosting bats due to their well-sealed, lightweight construction and absence of suitable access points or internal voids. Although B3 was assessed as having low suitability, the structure is to be retained and no works are proposed that would affect its potential roosting features. Consequently, no further bat surveys were considered necessary for these buildings.

Site Inspection

An updated loft inspection was undertaken by Assistant Ecologist Joelle Cattermole BSc, at BCT Level 2 competence on Monday 26th May 2026 as part of the BERS survey. The inspection identified no evidence of bats. The loft voids were assessed for any material changes since the previous inspection, with no alterations to the structure, access points, or suitability for roosting bats identified. The conclusions of the original Preliminary Roost Assessment (Arbtech, 11/02/2025) are therefore considered to remain valid.

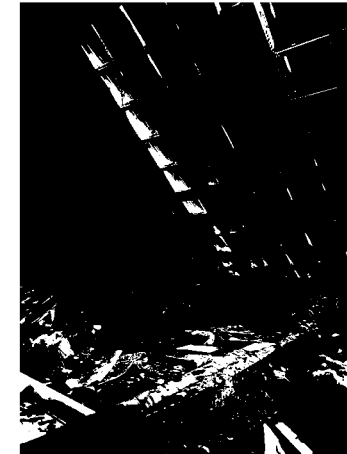


Figure 1a: Internal of loft space 1



Figure 1b: Internal of loft space 2

Proposed Works

Proposed Development

Current use of building(s)

B1 is currently used as a residential dwelling.

Proposed use of building(s)

B1: Extended and refurbished residential dwelling.

Structural changes to building(s)

The proposals include the demolition of the single storey element, reconfiguration of the existing internal layout of the dwelling (B1), the construction of a two-storey extension, and the erection of a new detached garage. No alterations are proposed to the existing outbuildings (B2-B4), which will remain unaffected by the development.

Cosmetic/repair work

In addition to the proposed demolition and reconstruction of the existing single-storey element, which will include the installation of a new roof, external repair and maintenance works will be carried out to the retained two-storey dwelling. These works will include repointing of the existing brickwork, replacement of rainwater goods including gutters and downpipes where required, replacement of fascias and soffits, and any associated roofline repairs.

Type of permission required

Full planning permission

Proposed Plan

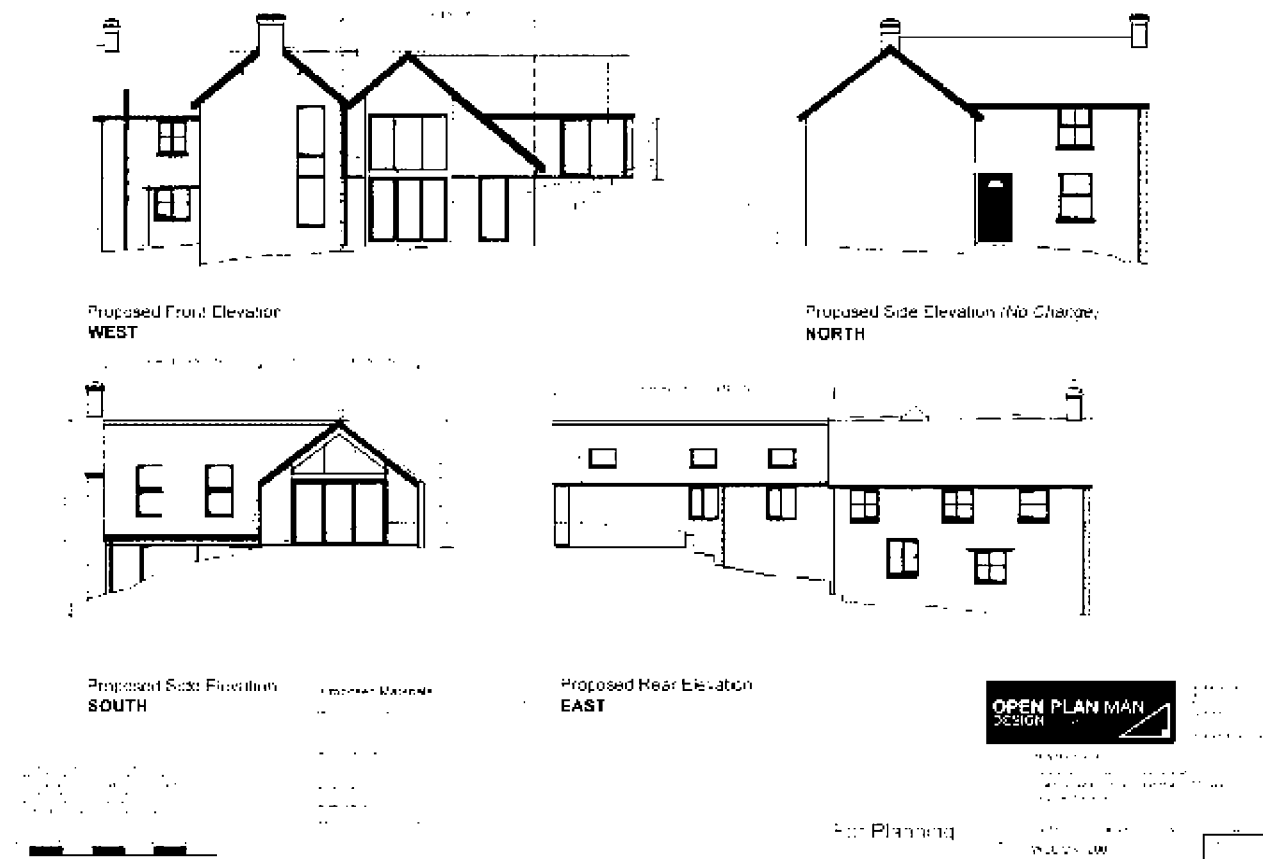


Figure 2: The proposed plans

Surveyors and Equipment

Surveyors

Table 2: Details of the surveyors involved in each of the surveys

Name	BERS Experience	Bat Licence	BCT Competency
Joelle Cattermole	1 years	N/A	Level 2
Ennis Joyce	3 years	n/a	Level 1

Equipment

Table 3: Details of the equipment used in each of the visits

Category	Equipment	Count		
		Visit 1	Visit 2	Visit 3
Night Vision Aid	Nightfox Whisker	5	5	5
Additional illumination	Nightfox XB5 PRO	5	5	5
Additional illumination	Nightfox Arc IR Floodlight	1	1	1
Bat detector	Wildlife Acoustics Echo Meter Touch 2	2	2	2
Bat detector	Magenta Electronics Bat 4	2	1	1
Bat detector	Titley Chorus Static Bat Detector	2	2	1
Two-way radio	BAOFENG FV-880E two-way radio (or similar)	2	2	2

Surveyor Positions

Positions

Details of each surveyor position for each visit

A diagram of the positions on site can be found in Appendix 1 along with the position images.

Table 4: The surveyor positions and the surveyors associated with them on each visit. The initials LS indicate the lead surveyor for the site visit

Position	Elevation	Visit 1	Visit 2	Visit 3
B1-1	North West facing	Joelle Cattermole (LS)	Joelle Cattermole (LS)	Joelle Cattermole (LS)
B1-2	South West facing	Ennis Joyce	Ennis Joyce	Ennis Joyce
B1-3	South facing (semi-manned)	Ennis Joyce	Ennis Joyce	Ennis Joyce
B1-4	North East facing (semi-manned)	Joelle Cattermole (LS)	Joelle Cattermole (LS)	Joelle Cattermole (LS)
B1-5	middle west-facing (semi-manned)	Joelle Cattermole (LS)	Joelle Cattermole (LS)	Joelle Cattermole (LS)

Survey Visit Details and Limitations

Visit 1 26/05/2026			Visit 2 05/05/2026			Visit 3 07/07/2026			Limitations Visit 1 Artificial Lighting (Security Lights / Internal Lights) - B1-1 Artificial lighting from security lights and/or illumination from within the building was intermittently present during the survey period. This introduced areas of contrasting brightness across parts of the elevation. The lighting was intermittent and localised. Surveyors adjusted positioning to maintain clear views of potential access features, and NVAs compensated for variations in ambient light levels. General bat activity was still readily detectable both visually and acoustically. As such, this represents a minor constraint to a portion of one survey and does not affect the robustness of the overall dataset or conclusions.
Start time	Sunset	End time	Start time	Sunset	End time	Start time	Sunset	End time	
20:53	21:08	22:38	21:12	21:27	23:27	21:10	21:25	23:25	
Start Conditions			Start Conditions			Start Conditions			
Temperature(°C): 26.0			Temperature(°C): 17.0			Temperature(°C): 17.0			
Relative humidity (%): 60.0			Relative humidity (%): 84.0			Relative humidity (%): 83.0			
Wind (km/h): 6.0			Wind (km/h): 11.3			Wind (km/h): 3.2			
End Conditions			End Conditions			End Conditions			
Temperature(°C): 22.0			Temperature(°C): 16.0			Temperature(°C): 17.0			
Relative humidity (%): 64.0			Relative humidity (%): 90.0			Relative humidity (%): 83.0			
Wind (km/h): 6.0			Wind (km/h): 12.9			Wind (km/h): 1.6			
Rain			Rain			Rain			
None			None			None			
Buildings surveyed			Buildings surveyed			Buildings surveyed			
1			1			1			
Trees surveyed			Trees surveyed			Trees surveyed			
N/A			N/A			N/A			

Emergence Results

Findings

Summary of all recorded emergences

Emergences were recorded for building B1. One distinct species was recorded emerging; Lesser horseshoe bat.

Full details of emergences, including times and species, can be found in Appendix 5.

Table 5: Number of emergences by species and visit for all buildings

Roost	Roost Location	Species	Number of Emergences			
			Visit 1	Visit 2	Visit 3	Total
1 - B1	Internal space within timber outbuilding attached to B1	Lesser horseshoe bat	1	-	-	1

Roosts and Impacts

Findings & Impacts

Reports on the roosts identified

Table 6: The roosts identified during this survey

Roost	Location	Access Point	Type	Species	Count	Impact Level	Impact Scale
1 - B1	Internal space within timber outbuilding attached to B1	Open door	Night roost	Lesser horseshoe bat	1	Destruction	Site

Roost 1 (B1): A lesser horseshoe bat was observed for approximately 30 seconds at 22:11 (approximately one hour after sunset) during the first survey. The individual was identified using a Titley Chorus detector and was confirmed to have approached from off-site rather than emerging from Building B1. The observed flight path indicated the bat originated from off-site, suggesting that Building B1 was not being used as the source day roost despite its suitability. Instead, the observation is considered indicative of the use of Building B1 as a temporary night roost. The surrounding mature woodland and adjacent buildings provide alternative roosting opportunities for the species within the local landscape.

Images of roosts 1 are shown in figure 3a below.

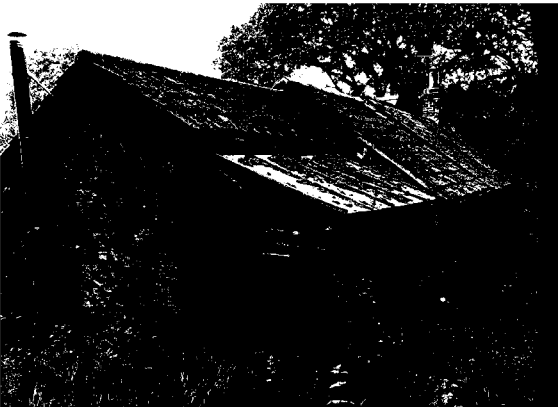


Figure 3a: Roost 1 (B1)

General Observations & Impacts

Findings & Impacts

Summary of all other observations and impacts

Key Foraging Areas

Foraging activity was observed at the front northeastern driveway, where common pipistrelle, serotine and soprano pipistrelle bats were recorded. Additional foraging by common pipistrelle bats was observed on the western side of the building within the grass mound area and along the hedgerow above survey position 2. The central west-facing garden supported foraging activity by brown long-eared and soprano pipistrelle bats.

Key Commuting Paths

Common pipistrelle bats were recorded commuting throughout the site, with key flight routes concentrated around the dwelling and adjacent boundary features. Activity included looping passes in front of survey position 2 and around the southwestern elevation of the building, together with repeated commuting movements between the building and survey position 2. Additional commuting activity was observed along the northern treeline, with bats travelling towards the open field southwest of the site boundary.

Impacts on Foraging / Commuting Bats

The proposed development will result in the loss of a small area of modified grassland, ornamental planting and hardstanding, which provide limited foraging habitat for bats. Surveys recorded the majority of commuting and foraging activity along hedgerows and treeline. As these key linear features will be retained, impacts on bat foraging habitat and commuting routes are anticipated to be negligible, subject to the implementation of a sensitive lighting strategy.

Hibernation suitability

The building is considered to have low hibernation suitability. Although numerous crevice features are present, the roof voids are unlined and relatively exposed, with daylight visible through multiple access gaps. These conditions are unlikely to provide the stable, cool microclimate typically favoured by hibernating bats.

Requirements & Enhancements

Requirements & Enhancements

Requirements

Bat Licence

A European Protected Species Licence (EPSL) is required to legally permit the works. This requirement exists independently of the planning system, and is required whether planning permission is needed or not, and whether this is listed as a condition of planning or not.

If the licence is not submitted by 07/10/2026 a material changes check will be required.

If the licence is not submitted by 01/05/2027 updated dusk surveys may be required.

The licence can be applied for once planning permission has been granted (where required), and within 3 months of the start of works. Any pre-commencement wildlife related planning conditions that require sign off from the council will need to be discharged prior to licence submission.

BRD

Due to the presence of bat roosts on site, local bat records will need to be obtained to inform the licence application. The report can be amended after the receipt of these documents.

Mitigation

The licence application will detail any mitigation and compensation measures that will be required for the proposed development to comply with the standing advice and will be designed to reduce any impacts to an acceptably low level so as to maintain (or enhance) the Favourable Conservation Status (FCS) of the local bat population. The EPSL will include (but not be limited to) the following measures:

- The named ecologist will need to visit the site prior to preparation of the licence documents.
- The installation of bat boxes and/or replacement roosts appropriate for the species and roost types present prior to works commencing to form a receptor site for any bats found during the works. Boxes may be installed on buildings or trees or can be pole mounted but must be in an undisturbed location and will need to be maintained in this location post-development. Bat boxes should be positioned 3-5m above ground level facing in a south or south-westerly direction with a clear flight path to and from the entrance, away from artificial light.
- Timing restrictions are required for maternity and hibernation roosts.
- The provision of a toolbox talk to contractors, by the Named Ecologist or an Accredited Agent, to inform them of the presence of bat roosts prior to the start of works.
- A pre-commencement inspection of any roost features by the Named Ecologist or an Accredited Agent using a torch and an endoscope (this may be via ladders, scaffolding or a mobile elevated platform).

Requirements & Enhancements

Requirements Continued

Mitigation Continued

- Pre works requirements for horseshoes - Bat boxes are not suitable for horseshoe species. A purpose-built bat structure will need to be provided prior to work commencing to provide an alternative roost for the LHS.
- Horseshoes should not be moved by hand and should be left to disperse themselves later that evening.
- Roost replacement appropriate for the species and roost types present will be required on site.
- Post-development monitoring may be required dependent upon species present and roost replacement type.

The EPSL will only include the bat species, numbers and roost types listed above. EPSLs do not allow for the disturbance of hibernating bats. Therefore, if any bats are found during the hibernation period or if any unexpected bat species or roost types are identified works must cease and advice must be sought from the Named Ecologist regarding the possible requirement for timing restrictions for works, the completion of further bat surveys or a modification to the EPSL. If full specifications of mitigation and compensation measures are required for planning determination, these can be provided in a separate standalone document prepared by a suitably experienced ecologist for the species and roost types present.

Wildlife Sensitive Lighting Strategy

Foraging and commuting bats could be impacted by additional lighting on site which can affect resources for the local population. Only common and widespread species were identified on site, therefore no impacts at population level are anticipated. Impacts are at site level only.

A low impact lighting strategy will be adopted for the site during and post-development, and this should be designed in accordance with Guidance Note GN08/23 Bats and Artificial Lighting at Night (Institution of Lighting Professionals, 2023). Parameters can be found on the Bat Conservation Trust website: <https://www.bats.org.uk/news/2023/08/bats-and-artificial-lighting-at-night-ilp-guidance-note-update-released>

Enhancements

The creation of additional habitat for bats is recommended in line with the local authorities' duty to request enhancements under the NPPF (2024).

Bat Boxes

Requirements & Enhancements

Enhancements Continued

Bat Boxes Continued

The installation of two integrated bat boxes within the new-build extension will provide additional roosting opportunities for bats. One integrated crevice bat box and one integrated cavity bat box will be installed to provide suitable roosting habitat for both crevice- and cavity-dwelling bat species recorded within the local area and during surveys. The bat boxes should be positioned approximately 3–5 m above ground level, preferably at the eaves of the building, facing a south or south-west aspect where practicable, with a clear flight path to and from the entrance. They should be located away from artificial lighting and should not be installed directly above windows.

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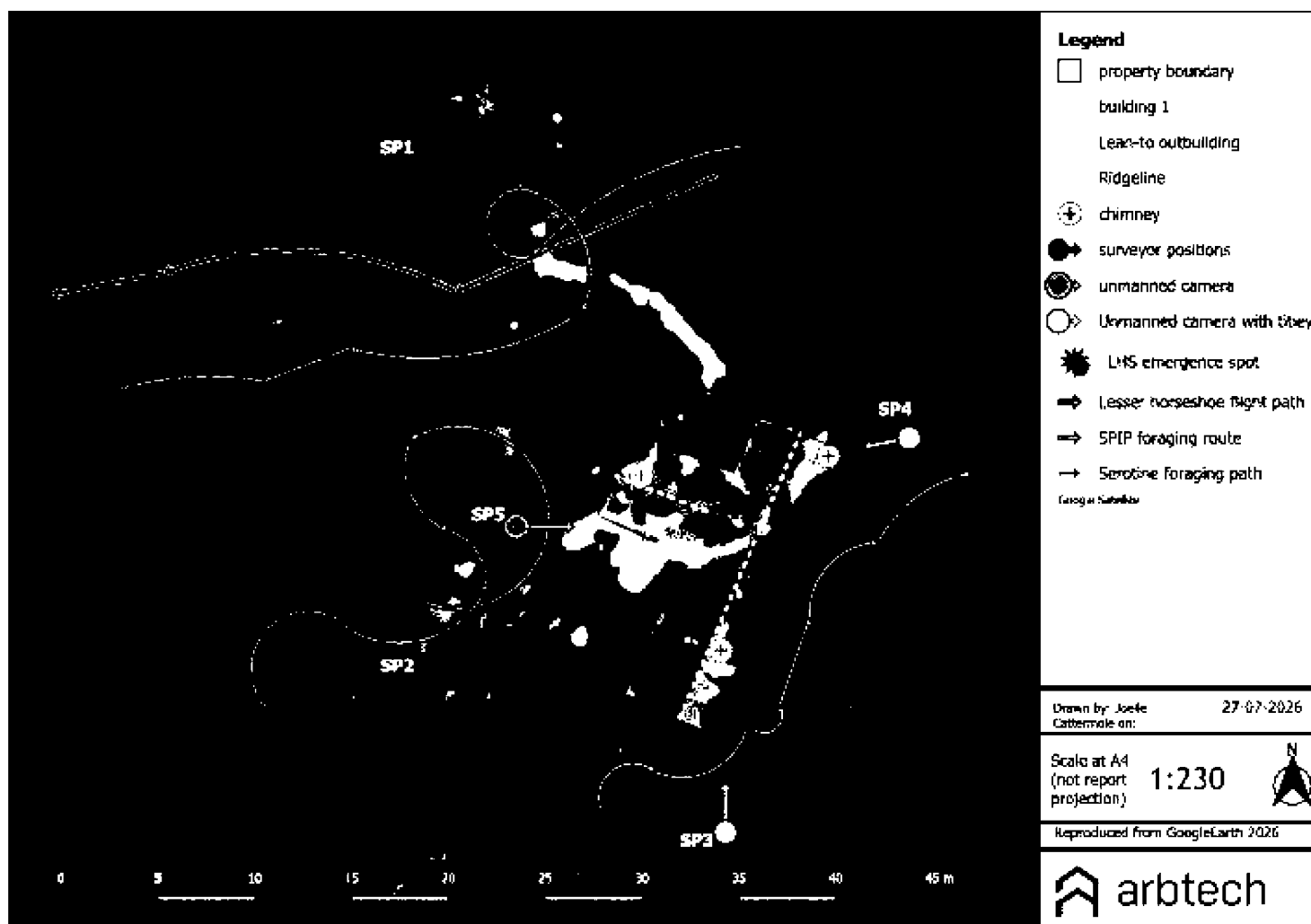
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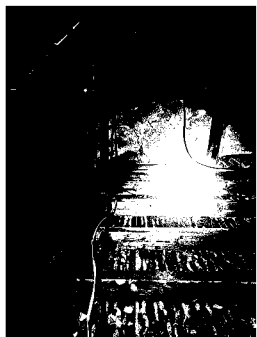
Status	Issue	Name	Date
Draft	0.1	Joelle Cattermole, BSc, Assistant Ecologist	24/07/2026
Review	0.2	Anna Dolby, BSc (Hons), Consultant Ecologist	27/07/2026
Draft	0.3	Joelle Cattermole, BSc, Assistant Ecologist	27/07/2026
Review	0.4	Natalie Evans, MA, MRSB, Principal Consultant	27/07/2026
Final	1.0	Joelle Cattermole, BSc, Assistant Ecologist	27/07/2026
Final	2.0	Joelle Cattermole, BSc, Assistant Ecologist	31/07/2026

Appendix 1: BERS plan



Plan 1: BERS map with activity

Appendix 2: Additional Site Inspection Images



Internal of loft space 2



Evidence of a third loft space blocked by a wall

Appendix 3: Surveyor Photos



V1 B1-1 surveyor photo



V2 B1-1 surveyor photo



V3 B1-1 surveyor photo



V1 B1-1 darkest point image



V2 B1-1 darkest point image



V3 B1-1 darkest point image



V1 B1-2 surveyor photo



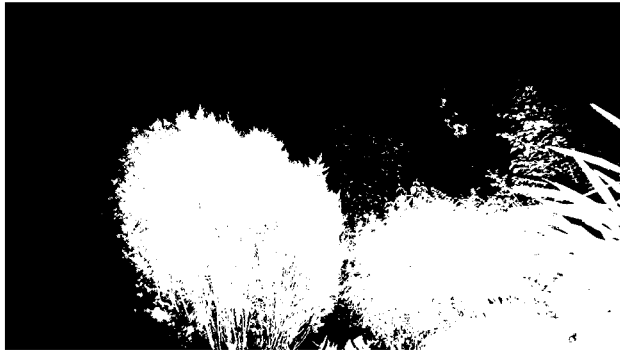
V2 B1-2 surveyor photo



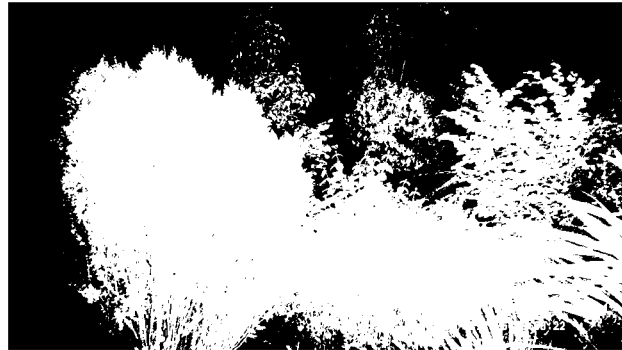
V3 B1-2 surveyor photo



V1 B1-2 darkest point image



V2 B1-2 darkest point image



V3 B1-2 darkest point image



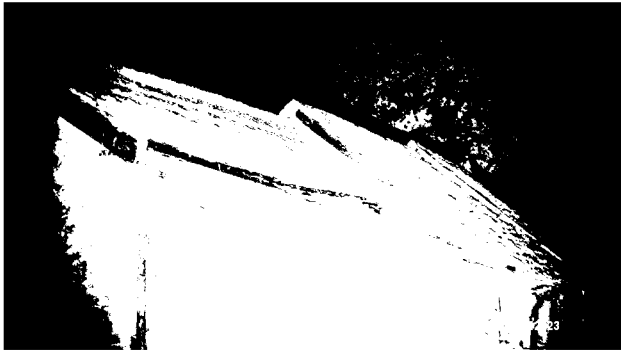
V1 B1-3 surveyor photo



V2 B1-3 surveyor photo



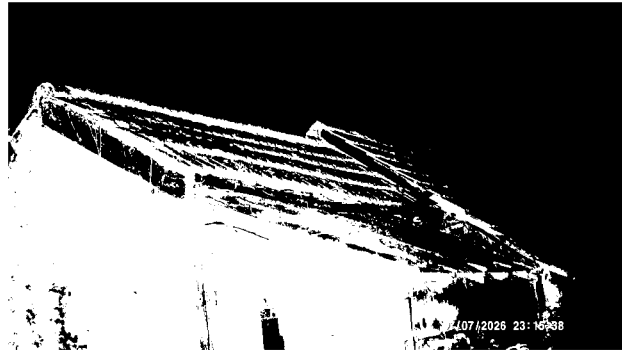
V3 B1-3 surveyor photo



V1 B1-3 darkest point image



V2 B1-3 darkest point image



V3 B1-3 darkest point image



V1 B1-4 surveyor photo



V2 B1-4 surveyor photo



V3 B1-4 surveyor photo



V1 B1-4 darkest point image



V2 B1-4 darkest point image



V3 B1-4 darkest point image



V1 B1-5 surveyor photo



V2 B1-5 surveyor photo



V3 B1-5 surveyor photo



V1 B1-5 darkest point image



V2 B1-5 darkest point image



V3 B1-5 darkest point image

Appendix 4: Summary of Call Data

Species	Visit 1	Visit 2	Visit 3	Total
Common pipistrelle	434	465	516	1415
Nyctalus sp.	18	40	7	65
Soprano pipistrelle	20	15	16	51
Barbastelle	3	6	30	39
Myotis sp.	-	3	13	16
Brown long-eared bat	5	4	6	15
Lesser horseshoe bat	12	2	1	15
Serotine	4	4	3	11
Common noctule	-	6	1	7
Greater horseshoe bat	-	2	-	2
Natterer's bat	-	1	1	2
Daubenton's bat	-	1	-	1

Appendix 5: Raw Survey Data Log

Pos - Position **Spp** - Species **Act** - Activity **Emer** - Emergence **Fora** - Foraging **Comm** - Commuting **PSR** - Post-survey result **Re-ent** - Re-entry **CPIP** - Common pipistrelle **SPIP** - Soprano pipistrelle **PIPSP** - Pipistrelle sp. **BLE** - Brown long-eared bat **PLECSP** - Plecotus sp. **NOC** - Common noctule **DAUB** - Daubenton's bat **NAT** - Natterer's bat **WHI** - Whiskered bat **WHI/BRAN** - Whiskered/Brandt's bat **MYOSP** - Myotis sp. **SERO** - Serotine **NYCSP** - Nyctalus sp. **LEI** - Leisler's noctule **NPIP** - Nathusius pipistrelle **LHO** - Lesser horseshoe bat **BARB** - Barbastelle **GHO** - Greater horseshoe bat **GLE** - Grey long-eared bat **ALCA** - Alcahoo **BECK** - Bechstein's bat **GME** - Greater mouse-eared bat

Visit 1

Time	Pos	Spp	Act	Notes	PSR
21:11	B1-4	SPIP	Call		PSR
21:28	B1-4	CPIP	Call		PSR
21:28	B1-3	CPIP	Call		PSR
21:28	B1-3	CPIP	Call		PSR
21:28	B1-3	CPIP	Call		PSR
21:28	B1-3	CPIP	Call		PSR
21:28	B1-3	CPIP	Call		PSR
21:28	B1-3	CPIP	Call		PSR
21:28	B1-3	CPIP	Call		PSR
21:28	B1-1	CPIP	Call	Derived from foraging observations	PSR
21:28	B1-2	CPIP	Call		
21:28	B1-1	CPIP	Fora	front northeastern driveway	PSR
21:29	B1-4	CPIP	Call		PSR
21:29	B1-3	CPIP	Call		PSR
21:29	B1-3	CPIP	Call		PSR
21:29	B1-3	CPIP	Call		PSR
21:29	B1-3	CPIP	Call		PSR
21:30	B1-4	CPIP	Call		PSR

Visit 1 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:30	B1-3	CPIP	Call		PSR
21:30	B1-3	CPIP	Call		PSR
21:30	B1-3	CPIP	Call		PSR
21:30	B1-3	CPIP	Call		PSR
21:30	B1-3	CPIP	Call		PSR
21:30	B1-3	CPIP	Call		PSR
21:31	B1-3	CPIP	Call		PSR
21:31	B1-3	CPIP	Call		PSR
21:33	B1-3	CPIP	Call		PSR
21:33	B1-2	CPIP	Call	Derived from commuting observations	
21:33	B1-2	CPIP	Comm	looping pass in front of survey position 2	
21:35	B1-4	CPIP	Call		PSR
21:35	B1-4	CPIP	Call		PSR
21:36	B1-4	CPIP	Call		PSR
21:36	B1-4	CPIP	Call		PSR
21:36	B1-4	CPIP	Call		PSR
21:36	B1-3	CPIP	Call		PSR
21:36	B1-3	CPIP	Call		PSR

Visit 1 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:36	B1-3	CPIP	Call		PSR
21:36	B1-3	CPIP	Call		PSR
21:36	B1-3	CPIP	Call		PSR
21:36	B1-2	CPIP	Call	Derived from foraging observations	
21:36	B1-2	CPIP	Call		
21:36	B1-2	CPIP	Fora	foraging on western side of building with in the grass mound area	
21:37	B1-3	CPIP	Call		PSR
21:37	B1-1	SPIP	Call		PSR
21:37	B1-1	CPIP	Call		PSR
21:39	B1-4	CPIP	Call		PSR
21:39	B1-4	CPIP	Call		PSR
21:39	B1-4	CPIP	Call		PSR
21:39	B1-4	CPIP	Call		PSR
21:39	B1-3	CPIP	Call		PSR
21:39	B1-3	CPIP	Call		PSR
21:39	B1-3	CPIP	Call		PSR
21:40	B1-4	CPIP	Call		PSR
21:40	B1-4	CPIP	Call		PSR
21:40	B1-4	CPIP	Call		PSR

Visit 1 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:40	B1-4	CPIP	Call		PSR
21:40	B1-4	CPIP	Call		PSR
21:40	B1-3	CPIP	Call		PSR
21:40	B1-3	CPIP	Call		PSR
21:40	B1-3	CPIP	Call		PSR
21:40	B1-3	CPIP	Call		PSR
21:40	B1-3	CPIP	Call		PSR
21:40	B1-3	CPIP	Call		PSR
21:41	B1-4	CPIP	Call		PSR
21:41	B1-4	CPIP	Call		PSR
21:41	B1-4	CPIP	Call		PSR
21:41	B1-4	CPIP	Call		PSR
21:41	B1-4	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
21:41	B1-1	CPIP	Call		PSR
21:41	B1-1	SERO	Call	Derived from foraging observations	
21:41	B1-1	SERO	Fora	front northeastern driveway	
21:42	B1-4	CPIP	Call		PSR
21:42	B1-4	CPIP	Call		PSR
21:42	B1-4	CPIP	Call		PSR
21:42	B1-4	CPIP	Call		PSR
21:42	B1-4	CPIP	Call		PSR
21:42	B1-4	CPIP	Call		PSR
21:42	B1-4	CPIP	Call		PSR
21:42	B1-3	CPIP	Call		PSR
21:42	B1-3	CPIP	Call		PSR
21:42	B1-3	CPIP	Call		PSR
21:42	B1-3	CPIP	Call		PSR
21:42	B1-3	CPIP	Call		PSR
21:42	B1-3	CPIP	Call		PSR
21:42	B1-3	CPIP	Call		PSR
21:42	B1-3	CPIP	Call		PSR
21:42	B1-2	CPIP	Call		
21:43	B1-4	CPIP	Call		PSR
21:43	B1-4	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
21:43	B1-4	CPIP	Call		PSR
21:43	B1-4	NYCSP	Call		PSR
21:43	B1-4	NYCSP	Call		PSR
21:43	B1-4	CPIP	Call		PSR
21:43	B1-4	NYCSP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:44	B1-4	NYCSP	Call		PSR
21:44	B1-4	NYCSP	Call		PSR
21:44	B1-3	NYCSP	Call		PSR
21:44	B1-3	NYCSP	Call		PSR
21:44	B1-3	NYCSP	Call		PSR
21:44	B1-3	NYCSP	Call		PSR
21:44	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
21:45	B1-4	CPIP	Call		PSR
21:45	B1-4	NYCSP	Call		PSR
21:45	B1-4	NYCSP	Call		PSR
21:45	B1-4	CPIP	Call		PSR
21:45	B1-4	CPIP	Call		PSR
21:45	B1-4	CPIP	Call		PSR
21:45	B1-4	CPIP	Call		PSR
21:45	B1-3	CPIP	Call		PSR
21:45	B1-3	CPIP	Call		PSR
21:45	B1-3	NYCSP	Call		PSR
21:45	B1-3	CPIP	Call		PSR
21:45	B1-3	NYCSP	Call		PSR
21:45	B1-3	NYCSP	Call		PSR
21:45	B1-2	CPIP	Call		PSR
21:46	B1-4	CPIP	Call		PSR
21:46	B1-4	CPIP	Call		PSR
21:46	B1-4	CPIP	Call		PSR
21:46	B1-4	CPIP	Call		PSR
21:46	B1-4	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-1	CPIP	Call		PSR
21:46	B1-4	CPIP	Call		PSR
21:47	B1-4	CPIP	Call		PSR
21:47	B1-4	CPIP	Call		PSR
21:47	B1-4	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-1	SPIP	Call		PSR
21:47	B1-2	CPIP	Call	Derived from commuting observations	

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Time	Pos	Spp	Act	Notes	PSR
21:47	B1-2	CPIP	Comm	looping around the top of the southwest side of the building	
21:48	B1-4	CPIP	Call		PSR
21:48	B1-4	CPIP	Call		PSR
21:48	B1-4	CPIP	Call		PSR
21:48	B1-3	CPIP	Call		PSR
21:48	B1-3	CPIP	Call		PSR
21:48	B1-3	CPIP	Call		PSR
21:48	B1-3	CPIP	Call		PSR
21:48	B1-3	CPIP	Call		PSR
21:48	B1-1	CPIP	Call		PSR
21:48	B1-1	SPIP	Call		PSR
21:48	B1-1	CPIP	Call	social	PSR
21:49	B1-4	CPIP	Call		PSR
21:49	B1-4	CPIP	Call		PSR
21:49	B1-4	CPIP	Call		PSR
21:49	B1-4	NYCSP	Call		PSR
21:49	B1-3	CPIP	Call		PSR
21:49	B1-3	CPIP	Call		PSR
21:49	B1-3	CPIP	Call		PSR
21:49	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
21:49	B1-3	CPIP	Call		PSR
21:49	B1-3	CPIP	Call		PSR
21:50	B1-4	CPIP	Call		PSR
21:50	B1-4	CPIP	Call		PSR
21:50	B1-4	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:51	B1-4	CPIP	Call		PSR
21:51	B1-4	CPIP	Call		PSR
21:51	B1-4	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-2	CPIP	Call		
21:52	B1-4	CPIP	Call		PSR
21:52	B1-4	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-1	SERO	Call	Derived from foraging observations	PSR
21:52	B1-1	SERO	Fora	front northeastern driveway	PSR
21:52	B1-2	CPIP	Comm	looping around the top of the southwest side of the building	
21:53	B1-4	CPIP	Call		PSR
21:53	B1-4	CPIP	Call		PSR
21:53	B1-4	CPIP	Call		PSR
21:53	B1-4	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:54	B1-4	CPIP	Call		PSR
21:54	B1-4	CPIP	Call		PSR
21:54	B1-4	CPIP	Call		PSR
21:54	B1-3	CPIP	Call		PSR
21:54	B1-3	CPIP	Call		PSR
21:54	B1-3	CPIP	Call		PSR
21:54	B1-3	CPIP	Call		PSR
21:54	B1-3	CPIP	Call		PSR
21:54	B1-3	CPIP	Call		PSR
21:54	B1-1	CPIP	Call		PSR
21:55	B1-4	CPIP	Call		PSR
21:55	B1-4	CPIP	Call		PSR
21:55	B1-4	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-2	CPIP	Call		
21:56	B1-4	CPIP	Call		PSR
21:56	B1-4	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:57	B1-4	CPIP	Call		PSR
21:57	B1-4	CPIP	Call		PSR
21:57	B1-4	CPIP	Call		PSR
21:57	B1-3	NYCSP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:58	B1-4	CPIP	Call		PSR
21:58	B1-4	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:59	B1-4	BARB	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	BARB	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
22:00	B1-4	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:01	B1-4	CPIP	Call		PSR
22:01	B1-4	CPIP	Call		PSR
22:01	B1-4	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:02	B1-4	CPIP	Call		PSR
22:02	B1-4	CPIP	Call		PSR
22:02	B1-4	CPIP	Call		PSR
22:02	B1-4	CPIP	Call		PSR
22:02	B1-3	CPIP	Call		PSR
22:02	B1-3	CPIP	Call		PSR
22:02	B1-3	CPIP	Call		PSR
22:02	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-2	CPIP	Call		
22:07	B1-4	CPIP	Call		PSR
22:07	B1-4	CPIP	Call		PSR
22:07	B1-4	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
22:07	B1-3	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:09	B1-4	CPIP	Call		PSR
22:09	B1-4	CPIP	Call		PSR
22:09	B1-4	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-1	CPIP	Call		PSR

Time	Pos	Spp	Act	Notes	PSR
22:10	B1-3	BLE	Call		PSR
22:10	B1-3	BLE	Call		PSR
22:10	B1-3	CPIP	Call		PSR
22:10	B1-3	LHO	Call		PSR
22:10	B1-3	LHO	Call		PSR
22:10	B1-3	LHO	Call		PSR
22:10	B1-3	LHO	Call		PSR
22:10	B1-2	CPIP	Call		
22:11	B1-3	CPIP	Call		PSR
22:11	B1-3	LHO	Call		PSR
22:12	B1-4	LHO	Call		PSR
22:12	B1-3	LHO	Call		PSR
22:12	B1-3	LHO	Call	Derived from emergence observations	PSR
22:12	B1-3	LHO	Emer	A single lesser horseshoe bat was observed making several brief exits and re-entries through the opening. (Roost 1)	PSR
22:13	B1-4	CPIP	Call		PSR
22:13	B1-4	LHO	Call		PSR
22:13	B1-4	CPIP	Call		PSR
22:13	B1-4	CPIP	Call		PSR
22:13	B1-4	LHO	Call		PSR

Time	Pos	Spp	Act	Notes	PSR
22:13	B1-3	BARB	Call		PSR
22:13	B1-3	CPIP	Call		PSR
22:13	B1-3	SPIP	Call		PSR
22:13	B1-2	CPIP	Call		
22:14	B1-4	CPIP	Call		PSR
22:14	B1-4	CPIP	Call		PSR
22:14	B1-4	CPIP	Call		PSR
22:14	B1-4	CPIP	Call		PSR
22:14	B1-4	CPIP	Call		PSR
22:14	B1-3	CPIP	Call		PSR
22:14	B1-3	CPIP	Call		PSR
22:14	B1-3	CPIP	Call		PSR
22:14	B1-3	CPIP	Call		PSR
22:15	B1-4	CPIP	Call		PSR
22:15	B1-3	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-3	CPIP	Call		PSR

Time	Pos	Spp	Act	Notes	PSR
22:16	B1-3	CPIP	Call		PSR
22:16	B1-3	CPIP	Call		PSR
22:16	B1-3	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-1	SERO	Call	Derived from foraging observations	PSR
22:18	B1-4	NYCSP	Call		PSR
22:18	B1-3	CPIP	Call		PSR
22:18	B1-3	NYCSP	Call		PSR
22:18	B1-3	LHO	Call		PSR
22:18	B1-3	LHO	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
22:18	B1-2	CPIP	Call		
22:19	B1-1	SERO	Call		PSR
22:20	B1-3	BLE	Call		PSR
22:20	B1-3	BLE	Call		PSR
22:20	B1-5	BLE	Call	Derived from foraging observations	PSR
22:20	B1-5	BLE	Fora	central west facing garden	PSR
22:22	B1-4	CPIP	Call		PSR
22:22	B1-4	CPIP	Call		PSR
22:22	B1-4	CPIP	Call		PSR
22:22	B1-4	CPIP	Call		PSR
22:23	B1-4	CPIP	Call		PSR
22:23	B1-4	CPIP	Call		PSR
22:23	B1-4	CPIP	Call		PSR
22:23	B1-3	CPIP	Call		PSR
22:23	B1-3	CPIP	Call		PSR
22:23	B1-3	CPIP	Call		PSR
22:24	B1-4	CPIP	Call		PSR
22:24	B1-3	CPIP	Call		PSR
22:24	B1-3	CPIP	Call		PSR
22:24	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
22:24	B1-1	CPIP	Call	Derived from foraging observations	PSR
22:24	B1-1	CPIP	Fora	front northeastern driveway	PSR
22:25	B1-5	SPIP	Call	Derived from foraging observations	PSR
22:25	B1-5	SPIP	Fora	central west facing garden	PSR
22:26	B1-4	CPIP	Call		PSR
22:26	B1-4	CPIP	Call		PSR
22:26	B1-4	CPIP	Call		PSR
22:26	B1-3	CPIP	Call		PSR
22:26	B1-3	SPIP	Call		PSR
22:27	B1-4	CPIP	Call		PSR
22:27	B1-4	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:28	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
22:30	B1-4	CPIP	Call		PSR
22:30	B1-3	CPIP	Call		PSR
22:31	B1-4	CPIP	Call		PSR
22:31	B1-4	CPIP	Call		PSR
22:31	B1-4	CPIP	Call		PSR
22:31	B1-4	CPIP	Call		PSR
22:31	B1-4	CPIP	Call		PSR
22:31	B1-3	CPIP	Call		PSR
22:31	B1-3	CPIP	Call		PSR
22:31	B1-3	CPIP	Call		PSR
22:31	B1-3	CPIP	Call		PSR
22:31	B1-1	SPIP	Call		PSR
22:32	B1-4	CPIP	Call		PSR
22:32	B1-4	CPIP	Call		PSR
22:32	B1-4	CPIP	Call		PSR
22:32	B1-4	CPIP	Call		PSR
22:32	B1-3	CPIP	Call		PSR
22:32	B1-3	CPIP	Call		PSR
22:32	B1-3	CPIP	Call		PSR
22:32	B1-3	CPIP	Call		PSR

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Time	Pos	Spp	Act	Notes	PSR
22:34	B1-4	CPIP	Call		PSR
22:34	B1-4	CPIP	Call		PSR
22:34	B1-4	CPIP	Call		PSR
22:34	B1-3	CPIP	Call		PSR
22:35	B1-4	SPIP	Call		PSR
22:35	B1-4	CPIP	Call		PSR
22:35	B1-4	SPIP	Call		PSR
22:35	B1-4	SPIP	Call		PSR
22:35	B1-3	CPIP	Call		PSR
22:35	B1-3	CPIP	Call		PSR
22:35	B1-1	SPIP	Call	SOCIAL CALL	PSR
22:36	B1-4	CPIP	Call		PSR
22:36	B1-4	SPIP	Call		PSR
22:36	B1-4	SPIP	Call		PSR
22:36	B1-4	CPIP	Call		PSR
22:36	B1-4	SPIP	Call		PSR
22:36	B1-4	CPIP	Call		PSR
22:36	B1-3	SPIP	Call		PSR
22:36	B1-3	SPIP	Call		PSR
22:37	B1-4	CPIP	Call		PSR

Visit 1 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:37	B1-4	CPIP	Call		PSR
22:37	B1-4	SPIP	Call		PSR
22:37	B1-4	CPIP	Call		PSR
22:37	B1-4	CPIP	Call		PSR
22:37	B1-3	CPIP	Call		PSR
22:37	B1-3	SPIP	Call		PSR
22:37	B1-3	CPIP	Call		PSR
22:38	B1-4	SPIP	Call		PSR
22:38	B1-4	CPIP	Call		PSR
22:38	B1-4	CPIP	Call		PSR
22:38	B1-3	CPIP	Call		PSR
22:38	B1-3	CPIP	Call		PSR
22:38	B1-3	CPIP	Call		PSR
22:38	B1-3	CPIP	Call		PSR

Visit 2

Time	Pos	Spp	Act	Notes	PSR
21:27	B1-4	SPIP	Call		PSR
21:35	B1-1	SPIP	Call	Derived from foraging observations	
21:35	B1-1	SPIP	Fora	front northeastern driveway	
21:36	B1-3	CPIP	Call		PSR
21:36	B1-3	CPIP	Call		PSR
21:36	B1-1	CPIP	Call		
21:37	B1-4	CPIP	Call		PSR
21:38	B1-2	CPIP	Call		
21:38	B1-1	CPIP	Call		
21:38	B1-1	SPIP	Call		
21:39	B1-2	CPIP	Call	Derived from foraging observations	
21:39	B1-3	CPIP	Call		PSR
21:39	B1-3	CPIP	Call		PSR
21:39	B1-3	CPIP	Call		PSR
21:39	B1-1	CPIP	Call		
21:39	B1-2	CPIP	Fora	foraging directly above survey position 2 along hedgerow	
21:40	B1-4	CPIP	Call		PSR
21:40	B1-4	CPIP	Call		PSR
21:40	B1-4	CPIP	Call		PSR
21:40	B1-3	CPIP	Call		PSR
21:40	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:40	B1-3	CPIP	Call		PSR
21:40	B1-3	CPIP	Call		PSR
21:40	B1-1	CPIP	Call		
21:41	B1-4	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-3	SPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-3	CPIP	Call		PSR
21:41	B1-1	CPIP	Call		
21:42	B1-4	NYCSP	Call		PSR
21:42	B1-4	CPIP	Call		PSR
21:42	B1-3	CPIP	Call		PSR
21:42	B1-3	NYCSP	Call		PSR
21:42	B1-3	CPIP	Call		PSR
21:42	B1-1	NOC	Call		
21:43	B1-4	CPIP	Call		PSR
21:43	B1-4	CPIP	Call		PSR
21:43	B1-4	CPIP	Call		PSR
21:43	B1-4	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-3	CPIP	Call		PSR
21:43	B1-1	CPIP	Call		
21:43	B1-1	CPIP	Call		
21:43	B1-1	BARB	Call		
21:44	B1-4	CPIP	Call		PSR
21:44	B1-4	CPIP	Call		PSR
21:44	B1-3	CPIP	Call		PSR
21:44	B1-3	CPIP	Call		PSR
21:44	B1-3	CPIP	Call		PSR
21:44	B1-3	CPIP	Call		PSR
21:44	B1-3	CPIP	Call		PSR
21:44	B1-3	CPIP	Call		PSR
21:44	B1-1	CPIP	Call		
21:44	B1-4	CPIP	Call		PSR
21:45	B1-4	CPIP	Call		PSR
21:45	B1-4	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:45	B1-3	CPIP	Call		PSR
21:45	B1-3	CPIP	Call		PSR
21:45	B1-3	CPIP	Call		PSR
21:45	B1-3	CPIP	Call		PSR
21:45	B1-3	CPIP	Call		PSR
21:46	B1-4	CPIP	Call		PSR
21:46	B1-4	CPIP	Call		PSR
21:46	B1-4	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-3	NYCSP	Call		PSR
21:47	B1-4	CPIP	Call		PSR
21:47	B1-4	CPIP	Call		PSR
21:47	B1-4	CPIP	Call		PSR
21:47	B1-4	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:47	B1-3	CPIP	Call		PSR
21:48	B1-2	CPIP	Call	Derived from commuting observations	
21:48	B1-4	NYCSP	Call		PSR
21:48	B1-4	NYCSP	Call		PSR
21:48	B1-4	CPIP	Call		PSR
21:48	B1-4	NYCSP	Call		PSR
21:48	B1-3	NYCSP	Call		PSR
21:48	B1-3	NYCSP	Call		PSR
21:48	B1-3	CPIP	Call		PSR
21:48	B1-3	CPIP	Call		PSR
21:48	B1-1	CPIP	Call		
21:48	B1-1	BARB	Call		
21:48	B1-2	CPIP	Comm	constant looping passes coming east from the building heading towards position 2 looping around the top of the position and heading back east to the backside of the building	
21:49	B1-4	CPIP	Call		PSR
21:49	B1-4	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:49	B1-4	CPIP	Call		PSR
21:49	B1-4	CPIP	Call		PSR
21:49	B1-4	CPIP	Call		PSR
21:49	B1-3	CPIP	Call		PSR
21:49	B1-3	CPIP	Call		PSR
21:49	B1-3	CPIP	Call		PSR
21:49	B1-3	CPIP	Call		PSR
21:49	B1-1	CPIP	Call		
21:50	B1-4	CPIP	Call		PSR
21:50	B1-4	CPIP	Call		PSR
21:50	B1-4	CPIP	Call		PSR
21:50	B1-4	CPIP	Call		PSR
21:50	B1-4	CPIP	Call		PSR
21:50	B1-4	CPIP	Call		PSR
21:50	B1-4	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-1	CPIP	Call		
21:50	B1-1	CPIP	Call		
21:51	B1-4	CPIP	Call		PSR
21:51	B1-4	CPIP	Call		PSR
21:51	B1-4	CPIP	Call		PSR
21:51	B1-4	CPIP	Call		PSR
21:51	B1-4	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-1	CPIP	Call		
21:52	B1-4	CPIP	Call		PSR
21:52	B1-4	CPIP	Call		PSR
21:52	B1-4	CPIP	Call		PSR
21:52	B1-4	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-3	CPIP	Call		PSR
21:52	B1-1	SPIP	Call		
21:53	B1-4	CPIP	Call		PSR
21:53	B1-4	CPIP	Call		PSR
21:53	B1-4	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-3	CPIP	Call		PSR
21:53	B1-1	CPIP	Call		
21:54	B1-4	CPIP	Call		PSR
21:54	B1-1	CPIP	Call		

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:55	B1-4	CPIP	Call		PSR
21:55	B1-4	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-1	CPIP	Call		
21:56	B1-4	CPIP	Call		PSR
21:56	B1-4	CPIP	Call		PSR
21:56	B1-4	CPIP	Call		PSR
21:56	B1-4	CPIP	Call		PSR
21:56	B1-4	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:57	B1-4	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:57	B1-4	CPIP	Call		PSR
21:57	B1-4	CPIP	Call		PSR
21:57	B1-4	CPIP	Call		PSR
21:57	B1-4	CPIP	Call		PSR
21:57	B1-4	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-1	CPIP	Call	Derived from foraging observations front northeastern driveway	
21:57	B1-1	CPIP	Fora		PSR
21:58	B1-4	CPIP	Call		PSR
21:58	B1-4	CPIP	Call		PSR
21:58	B1-4	CPIP	Call		PSR
21:58	B1-4	CPIP	Call		PSR
21:58	B1-4	CPIP	Call		PSR

Time	Pos	Spp	Act	Notes	PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
22:02	B1-1	SPIP	Call		
22:03	B1-4	CPIP	Call		PSR
22:03	B1-4	CPIP	Call		PSR
22:03	B1-4	CPIP	Call		PSR
22:03	B1-4	CPIP	Call		PSR
22:03	B1-4	CPIP	Call		PSR

Time	Pos	Spp	Act	Notes	PSR
22:03	B1-4	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:05	B1-4	BLE	Call		PSR

Time	Pos	Spp	Act	Notes	PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-1	SERO	Call		
22:06	B1-4	CPIP	Call		PSR
22:06	B1-4	CPIP	Call		PSR
22:06	B1-4	CPIP	Call		PSR
22:06	B1-4	CPIP	Call		PSR
22:06	B1-4	CPIP	Call		PSR
22:06	B1-4	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-1	CPIP	Call		
22:07	B1-4	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR
22:07	B1-1	CPIP	Call		
22:07	B1-1	SPIP	Call		
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	NYCSP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:09	B1-1	SERO	Call		
22:09	B1-1	BLE	Call		
22:10	B1-4	CPIP	Call		PSR
22:10	B1-4	CPIP	Call		PSR
22:10	B1-4	CPIP	Call		PSR
22:10	B1-3	CPIP	Call		PSR
22:10	B1-3	CPIP	Call		PSR
22:10	B1-3	CPIP	Call		PSR
22:11	B1-1	SERO	Call		
22:12	B1-1	CPIP	Call		
22:15	B1-1	BARB	Call		
22:17	B1-3	NYCSP	Call		PSR
22:18	B1-1	NOC	Call		
22:19	B1-3	NAT	Call		PSR
22:19	B1-1	BLE	Call		
22:20	B1-3	NYCSP	Call		PSR
22:21	B1-4	NYCSP	Call		PSR
22:21	B1-4	NYCSP	Call		PSR
22:21	B1-4	NYCSP	Call		PSR
22:21	B1-3	NYCSP	Call		PSR
22:21	B1-1	NOC	Call		
22:22	B1-4	CPIP	Call		PSR
22:22	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:22	B1-3	CPIP	Call		PSR
22:24	B1-4	NYCSP	Call		PSR
22:24	B1-3	NYCSP	Call		PSR
22:24	B1-3	NYCSP	Call		PSR
22:24	B1-3	NYCSP	Call		PSR
22:24	B1-1	NOC	Call		
22:26	B1-3	BARB	Call		PSR
22:26	B1-1	BARB	Call		
22:27	B1-1	BARB	Call		
22:27	B1-1	CPIP	Call		
22:28	B1-1	MYOSP	Call		
22:28	B1-1	MYOSP	Call		
22:30	B1-4	NYCSP	Call		PSR
22:30	B1-3	NYCSP	Call		PSR
22:30	B1-3	NYCSP	Call		PSR
22:31	B1-4	NYCSP	Call		PSR
22:31	B1-4	NYCSP	Call		PSR
22:31	B1-3	NYCSP	Call		PSR
22:31	B1-3	NYCSP	Call		PSR
22:31	B1-3	NYCSP	Call		PSR
22:31	B1-1	CPIP	Call		
22:34	B1-1	BLE	Call		
22:34	B1-1	CPIP	Call	Feeding buzz	

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:35	B1-1	MYOSP	Call		
22:35	B1-1	GHO	Call		
22:39	B1-1	GHO	Call		
22:39	B1-1	DAUB	Call		
22:42	B1-3	CPIP	Call		PSR
22:43	B1-4	CPIP	Call		PSR
22:43	B1-4	CPIP	Call		PSR
22:43	B1-4	CPIP	Call		PSR
22:43	B1-4	CPIP	Call		PSR
22:43	B1-4	CPIP	Call		PSR
22:43	B1-3	CPIP	Call		PSR
22:43	B1-3	CPIP	Call		PSR
22:43	B1-3	CPIP	Call		PSR
22:43	B1-3	CPIP	Call		PSR
22:43	B1-3	CPIP	Call		PSR
22:43	B1-3	CPIP	Call		PSR
22:43	B1-1	CPIP	Call		PSR
22:44	B1-4	CPIP	Call		PSR
22:44	B1-4	CPIP	Call		PSR
22:44	B1-4	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:44	B1-4	CPIP	Call		PSR
22:44	B1-3	CPIP	Call		PSR
22:44	B1-3	CPIP	Call		PSR
22:44	B1-3	CPIP	Call		PSR
22:44	B1-3	CPIP	Call		PSR
22:44	B1-1	CPIP	Call		
22:44	B1-1	CPIP	Call		
22:45	B1-4	CPIP	Call		PSR
22:45	B1-4	CPIP	Call		PSR
22:45	B1-3	CPIP	Call		PSR
22:45	B1-3	CPIP	Call		PSR
22:45	B1-3	CPIP	Call		PSR
22:46	B1-4	CPIP	Call		PSR
22:46	B1-4	CPIP	Call		PSR
22:46	B1-4	CPIP	Call		PSR
22:46	B1-3	CPIP	Call		PSR
22:46	B1-3	CPIP	Call		PSR
22:46	B1-1	CPIP	Call		
22:48	B1-3	LHO	Call		PSR
22:48	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:48	B1-3	CPIP	Call		PSR
22:49	B1-4	CPIP	Call		PSR
22:49	B1-4	CPIP	Call		PSR
22:49	B1-4	CPIP	Call		PSR
22:49	B1-4	CPIP	Call		PSR
22:49	B1-4	CPIP	Call		PSR
22:49	B1-3	CPIP	Call		PSR
22:49	B1-3	CPIP	Call		PSR
22:49	B1-3	CPIP	Call		PSR
22:49	B1-1	CPIP	Call		
22:50	B1-4	CPIP	Call		PSR
22:50	B1-3	NYCSP	Call		PSR
22:50	B1-1	NOC	Call		
22:51	B1-4	CPIP	Call		PSR
22:51	B1-4	CPIP	Call		PSR
22:51	B1-4	CPIP	Call		PSR
22:51	B1-4	CPIP	Call		PSR
22:51	B1-4	CPIP	Call		PSR
22:51	B1-4	CPIP	Call		PSR
22:51	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:51	B1-3	CPIP	Call		PSR
22:51	B1-3	CPIP	Call		PSR
22:51	B1-1	CPIP	Call		
22:52	B1-4	CPIP	Call		PSR
22:52	B1-4	CPIP	Call		PSR
22:52	B1-4	CPIP	Call		PSR
22:52	B1-3	CPIP	Call		PSR
22:52	B1-3	CPIP	Call		PSR
22:52	B1-3	CPIP	Call		PSR
22:52	B1-1	CPIP	Call		PSR
22:53	B1-4	NYCSP	Call		PSR
22:53	B1-4	CPIP	Call		PSR
22:53	B1-4	CPIP	Call		PSR
22:53	B1-3	CPIP	Call		PSR
22:53	B1-3	CPIP	Call		PSR
22:53	B1-3	CPIP	Call		PSR
22:53	B1-3	CPIP	Call		PSR
22:53	B1-1	CPIP	Call		

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:54	B1-4	CPIP	Call		PSR
22:54	B1-4	CPIP	Call		PSR
22:54	B1-3	CPIP	Call		PSR
22:55	B1-1	NOC	Call		
22:56	B1-2	CPIP	Call		
22:56	B1-4	SPIP	Call		PSR
22:56	B1-4	CPIP	Call		PSR
22:56	B1-3	CPIP	Call		PSR
22:56	B1-3	CPIP	Call		PSR
22:57	B1-3	NYCSP	Call		PSR
22:57	B1-3	CPIP	Call		PSR
22:57	B1-3	NYCSP	Call		PSR
22:57	B1-3	NYCSP	Call		PSR
22:58	B1-4	CPIP	Call		PSR
22:58	B1-4	CPIP	Call		PSR
22:58	B1-4	CPIP	Call		PSR
22:58	B1-4	CPIP	Call		PSR
22:58	B1-4	CPIP	Call		PSR
22:58	B1-3	CPIP	Call		PSR
22:58	B1-3	CPIP	Call		PSR
22:58	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:58	B1-3	CPIP	Call		PSR
22:58	B1-3	CPIP	Call		PSR
22:59	B1-4	NYCSP	Call		PSR
22:59	B1-4	CPIP	Call		PSR
22:59	B1-3	NYCSP	Call		PSR
22:59	B1-1	CPIP	Call	Derived from foraging observations	
22:59	B1-1	CPIP	Fora	front northeastern driveway	
23:00	B1-4	CPIP	Call		PSR
23:00	B1-4	CPIP	Call		PSR
23:00	B1-3	CPIP	Call		PSR
23:00	B1-3	CPIP	Call		PSR
23:00	B1-3	CPIP	Call		PSR
23:01	B1-4	CPIP	Call		PSR
23:01	B1-4	CPIP	Call		PSR
23:01	B1-4	CPIP	Call		PSR
23:01	B1-4	CPIP	Call		PSR
23:01	B1-3	CPIP	Call		PSR
23:01	B1-3	CPIP	Call		PSR
23:01	B1-3	CPIP	Call		PSR
23:01	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
23:01	B1-3	CPIP	Call		PSR
23:02	B1-4	CPIP	Call		PSR
23:02	B1-4	CPIP	Call		PSR
23:02	B1-3	CPIP	Call		PSR
23:03	B1-4	NYCSP	Call		PSR
23:03	B1-3	NYCSP	Call		PSR
23:04	B1-3	CPIP	Call		PSR
23:04	B1-1	SERO	Call		
23:06	B1-4	CPIP	Call		PSR
23:06	B1-4	CPIP	Call		PSR
23:06	B1-4	CPIP	Call		PSR
23:06	B1-4	SPIP	Call		PSR
23:06	B1-3	CPIP	Call		PSR
23:06	B1-3	SPIP	Call		PSR
23:06	B1-3	CPIP	Call		PSR
23:09	B1-4	CPIP	Call		PSR
23:09	B1-4	CPIP	Call		PSR
23:09	B1-4	SPIP	Call		PSR
23:09	B1-4	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
23:09	B1-4	CPIP	Call		PSR
23:09	B1-3	CPIP	Call		PSR
23:09	B1-3	CPIP	Call		PSR
23:09	B1-3	CPIP	Call		PSR
23:09	B1-3	CPIP	Call		PSR
23:09	B1-3	CPIP	Call		PSR
23:10	B1-4	CPIP	Call		PSR
23:10	B1-4	CPIP	Call		PSR
23:10	B1-4	CPIP	Call		PSR
23:10	B1-3	CPIP	Call		PSR
23:11	B1-3	LHO	Call		PSR
23:12	B1-4	CPIP	Call		PSR
23:12	B1-4	CPIP	Call		PSR
23:12	B1-4	CPIP	Call		PSR
23:12	B1-4	CPIP	Call		PSR
23:12	B1-3	CPIP	Call		PSR
23:12	B1-3	CPIP	Call		PSR
23:16	B1-4	CPIP	Call		PSR
23:16	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
23:17	B1-4	CPIP	Call		PSR
23:17	B1-4	CPIP	Call		PSR
23:17	B1-4	CPIP	Call		PSR
23:17	B1-3	CPIP	Call		PSR
23:18	B1-4	CPIP	Call		PSR
23:18	B1-4	CPIP	Call		PSR
23:18	B1-4	CPIP	Call		PSR
23:18	B1-4	CPIP	Call		PSR
23:18	B1-3	CPIP	Call		PSR
23:18	B1-3	CPIP	Call		PSR
23:19	B1-4	CPIP	Call		PSR
23:19	B1-4	CPIP	Call		PSR
23:19	B1-4	CPIP	Call		PSR
23:19	B1-3	CPIP	Call		PSR
23:19	B1-3	CPIP	Call		PSR
23:19	B1-3	CPIP	Call		PSR
23:19	B1-3	CPIP	Call		PSR
23:21	B1-4	SPIP	Call		PSR
23:21	B1-4	CPIP	Call		PSR
23:21	B1-3	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
23:21	B1-3	CPIP	Call		PSR
23:21	B1-1	CPIP	Call		
23:22	B1-4	CPIP	Call		PSR
23:22	B1-4	CPIP	Call		PSR
23:22	B1-3	CPIP	Call		PSR
23:22	B1-1	CPIP	Call		
23:22	B1-1	CPIP	Call		
23:23	B1-4	CPIP	Call		PSR
23:23	B1-3	CPIP	Call		PSR
23:23	B1-3	CPIP	Call		PSR
23:25	B1-4	CPIP	Call		PSR
23:25	B1-4	CPIP	Call		PSR
23:25	B1-4	CPIP	Call		PSR
23:25	B1-4	CPIP	Call		PSR
23:25	B1-3	CPIP	Call		PSR
23:25	B1-3	CPIP	Call		PSR
23:25	B1-3	CPIP	Call		PSR
23:25	B1-3	CPIP	Call		PSR
23:25	B1-1	SPIP	Call		PSR
23:25	B1-1	CPIP	Call		
23:26	B1-4	CPIP	Call		PSR
23:26	B1-4	CPIP	Call		PSR

Visit 2 - ctd

Time	Pos	Spp	Act	Notes	PSR
23:26	B1-4	SPIP	Call		PSR
23:26	B1-4	CPIP	Call		PSR
23:26	B1-3	CPIP	Call		PSR
23:26	B1-3	CPIP	Call		PSR
23:26	B1-3	CPIP	Call		PSR
23:26	B1-1	CPIP	Call		
23:27	B1-4	CPIP	Call		PSR
23:27	B1-4	CPIP	Call		PSR
23:27	B1-4	NYCSP	Call		PSR
23:27	B1-3	CPIP	Call		PSR
23:27	B1-3	NYCSP	Call		PSR
23:28	B1-4	NYCSP	Call		PSR
23:28	B1-4	CPIP	Call		PSR
23:30	B1-4	CPIP	Call		PSR
23:31	B1-3	CPIP	Call		PSR
23:32	B1-3	CPIP	Call		PSR
23:34	B1-3	CPIP	Call		PSR

Visit 3

Time	Pos	Spp	Act	Notes	PSR
21:00	B1-3	NYCSP	Call		PSR
21:28	B1-1	CPIP	Call	Derived from commuting observations	
21:28	B1-1	CPIP	Comm	From the tree line north of the property to the open field South West of the ownership boundary	
21:41	B1-1	SERO	Call		
21:41	B1-1	SERO	Call	Derived from foraging observations	
21:41	B1-1	SERO	Fora	front northeastern driveway	
21:42	B1-3	NYCSP	Call		PSR
21:42	B1-3	NYCSP	Call		PSR
21:42	B1-2	CPIP	Call		
21:43	B1-4	NYCSP	Call		PSR
21:43	B1-1	CPIP	Call		
21:43	B1-1	SERO	Call		
21:44	B1-3	CPIP	Call		PSR
21:44	B1-3	CPIP	Call		PSR
21:44	B1-1	CPIP	Call		
21:44	B1-1	CPIP	Call		
21:44	B1-1	CPIP	Call	Feeding buzz	
21:44	B1-2	CPIP	Call		
21:45	B1-3	CPIP	Call		PSR
21:46	B1-3	CPIP	Call		PSR
21:46	B1-1	CPIP	Call	Faint	
21:46	B1-2	CPIP	Call	Derived from foraging observations	

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:46	B1-2	CPIP	Fora	foraging directly above survey position 2 along hedgerow	
21:47	B1-1	CPIP	Call	Faint	
21:48	B1-3	CPIP	Call		PSR
21:49	B1-3	NYCSP	Call		PSR
21:49	B1-3	NYCSP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:50	B1-3	CPIP	Call		PSR
21:51	B1-4	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:51	B1-3	CPIP	Call		PSR
21:54	B1-4	CPIP	Call		PSR
21:54	B1-1	CPIP	Call		
21:54	B1-1	CPIP	Call	Feeding buzz	
21:55	B1-4	CPIP	Call		PSR
21:55	B1-4	CPIP	Call		PSR
21:55	B1-4	CPIP	Call		PSR
21:55	B1-4	CPIP	Call		PSR
21:55	B1-4	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-3	CPIP	Call		PSR
21:55	B1-1	CPIP	Call	Feeding buzz	
21:56	B1-4	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-3	CPIP	Call		PSR
21:56	B1-2	CPIP	Call		
21:57	B1-4	CPIP	Call		PSR
21:57	B1-4	CPIP	Call		PSR
21:57	B1-4	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-3	CPIP	Call		PSR
21:57	B1-2	CPIP	Call	Derived from commuting observations	
21:58	B1-4	CPIP	Call		PSR
21:58	B1-4	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:58	B1-3	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-4	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
21:59	B1-3	CPIP	Call		PSR
22:00	B1-4	CPIP	Call		PSR
22:00	B1-4	CPIP	Call		PSR
22:00	B1-4	CPIP	Call		PSR
22:00	B1-4	CPIP	Call		PSR
22:00	B1-4	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:00	B1-3	CPIP	Call		PSR
22:01	B1-4	CPIP	Call		PSR
22:01	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:01	B1-4	CPIP	Call		PSR
22:01	B1-4	CPIP	Call		PSR
22:01	B1-4	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:01	B1-3	CPIP	Call		PSR
22:02	B1-4	CPIP	Call		PSR
22:02	B1-4	CPIP	Call		PSR
22:02	B1-4	CPIP	Call		PSR
22:02	B1-4	CPIP	Call		PSR
22:02	B1-4	CPIP	Call		PSR
22:02	B1-4	CPIP	Call		PSR
22:02	B1-3	CPIP	Call		PSR
22:02	B1-3	CPIP	Call		PSR
22:02	B1-3	CPIP	Call		PSR
22:02	B1-3	CPIP	Call		PSR
22:02	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:02	B1-3	CPIP	Call		PSR
22:03	B1-4	CPIP	Call		PSR
22:03	B1-4	CPIP	Call		PSR
22:03	B1-4	CPIP	Call		PSR
22:03	B1-4	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:03	B1-3	CPIP	Call		PSR
22:03	B1-1	MYOSP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-4	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:04	B1-3	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-4	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-3	CPIP	Call		PSR
22:05	B1-1	BLE	Call		PSR
22:05	B1-1	BARB	Call	Maybe bechsteins myotis	
22:06	B1-4	CPIP	Call		PSR
22:06	B1-4	CPIP	Call		PSR
22:06	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:06	B1-4	CPIP	Call		PSR
22:06	B1-4	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-3	CPIP	Call		PSR
22:06	B1-1	BARB	Call		
22:07	B1-4	CPIP	Call		PSR
22:07	B1-4	CPIP	Call		PSR
22:07	B1-4	CPIP	Call		PSR
22:07	B1-4	CPIP	Call		PSR
22:07	B1-4	CPIP	Call		PSR
22:07	B1-4	CPIP	Call		PSR
22:07	B1-4	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:07	B1-3	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR
22:07	B1-3	CPIP	Call		PSR
22:07	B1-1	NOC	Call	Maybe leislars	
22:07	B1-1	MYOSP	Call	Maybe barb	
22:07	B1-2	CPIP	Call		
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-4	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:08	B1-3	CPIP	Call		PSR
22:09	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:09	B1-4	CPIP	Call		PSR
22:09	B1-4	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-3	CPIP	Call		PSR
22:09	B1-1	BLE	Call	Maybe myotis	
22:09	B1-1	CPIP	Call		
22:10	B1-4	CPIP	Call		PSR
22:10	B1-4	CPIP	Call		PSR
22:10	B1-4	CPIP	Call		PSR
22:10	B1-4	CPIP	Call		PSR
22:10	B1-3	CPIP	Call		PSR
22:10	B1-3	CPIP	Call		PSR
22:10	B1-3	CPIP	Call		PSR
22:10	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:10	B1-3	CPIP	Call		PSR
22:10	B1-3	CPIP	Call		PSR
22:10	B1-3	CPIP	Call		PSR
22:10	B1-1	CPIP	Call		
22:10	B1-1	CPIP	Call		
22:11	B1-4	CPIP	Call		PSR
22:11	B1-4	CPIP	Call		PSR
22:11	B1-4	CPIP	Call		PSR
22:11	B1-4	CPIP	Call		PSR
22:11	B1-4	CPIP	Call		PSR
22:11	B1-4	CPIP	Call		PSR
22:11	B1-4	CPIP	Call		PSR
22:11	B1-3	CPIP	Call		PSR
22:11	B1-3	CPIP	Call		PSR
22:11	B1-3	CPIP	Call		PSR
22:11	B1-3	CPIP	Call		PSR
22:11	B1-3	CPIP	Call		PSR
22:11	B1-1	MYOSP	Call	Feeding buzz	
22:12	B1-4	CPIP	Call		PSR
22:12	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:12	B1-4	CPIP	Call		PSR
22:12	B1-4	CPIP	Call		PSR
22:12	B1-4	CPIP	Call		PSR
22:12	B1-3	CPIP	Call		PSR
22:12	B1-3	CPIP	Call		PSR
22:12	B1-3	CPIP	Call		PSR
22:12	B1-3	CPIP	Call		PSR
22:12	B1-3	CPIP	Call		PSR
22:14	B1-4	CPIP	Call		PSR
22:14	B1-4	CPIP	Call		PSR
22:14	B1-4	CPIP	Call		PSR
22:14	B1-3	CPIP	Call		PSR
22:14	B1-3	CPIP	Call		PSR
22:14	B1-3	CPIP	Call		PSR
22:14	B1-3	CPIP	Call		PSR
22:15	B1-4	CPIP	Call		PSR
22:15	B1-4	CPIP	Call		PSR
22:15	B1-4	CPIP	Call		PSR
22:15	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:15	B1-4	CPIP	Call		PSR
22:15	B1-3	CPIP	Call		PSR
22:15	B1-3	CPIP	Call		PSR
22:15	B1-3	CPIP	Call		PSR
22:15	B1-3	CPIP	Call		PSR
22:15	B1-3	CPIP	Call		PSR
22:15	B1-3	CPIP	Call		PSR
22:15	B1-3	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-4	CPIP	Call		PSR
22:16	B1-3	CPIP	Call		PSR
22:16	B1-3	CPIP	Call		PSR
22:16	B1-3	CPIP	Call		PSR
22:16	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:16	B1-3	CPIP	Call		PSR
22:16	B1-3	CPIP	Call		PSR
22:16	B1-3	CPIP	Call		PSR
22:16	B1-1	BARB	Call		
22:16	B1-1	CPIP	Call		
22:17	B1-4	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-4	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-3	CPIP	Call		PSR
22:17	B1-1	CPIP	Call	Feeding buzz	
22:18	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:18	B1-4	CPIP	Call		PSR
22:18	B1-4	CPIP	Call		PSR
22:18	B1-4	CPIP	Call		PSR
22:18	B1-3	CPIP	Call		PSR
22:18	B1-3	CPIP	Call		PSR
22:18	B1-3	CPIP	Call		PSR
22:18	B1-3	CPIP	Call		PSR
22:18	B1-3	CPIP	Call		PSR
22:18	B1-3	CPIP	Call		PSR
22:18	B1-1	CPIP	Call	Feeding buzz	
22:19	B1-4	CPIP	Call		PSR
22:19	B1-4	CPIP	Call		PSR
22:19	B1-4	CPIP	Call		PSR
22:19	B1-3	CPIP	Call		PSR
22:19	B1-3	CPIP	Call		PSR
22:19	B1-3	CPIP	Call		PSR
22:19	B1-3	CPIP	Call		PSR
22:19	B1-3	CPIP	Call		PSR
22:19	B1-3	CPIP	Call		PSR
22:19	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:19	B1-3	CPIP	Call		PSR
22:20	B1-4	CPIP	Call		PSR
22:20	B1-4	CPIP	Call		PSR
22:20	B1-4	CPIP	Call		PSR
22:20	B1-4	CPIP	Call		PSR
22:20	B1-3	CPIP	Call		PSR
22:20	B1-3	CPIP	Call		PSR
22:20	B1-3	CPIP	Call		PSR
22:20	B1-3	CPIP	Call		PSR
22:20	B1-1	BARB	Call	Maybe myotis	
22:21	B1-4	CPIP	Call		PSR
22:21	B1-4	CPIP	Call		PSR
22:21	B1-4	CPIP	Call		PSR
22:21	B1-4	CPIP	Call		PSR
22:21	B1-4	CPIP	Call		PSR
22:21	B1-4	CPIP	Call		PSR
22:21	B1-3	CPIP	Call		PSR
22:21	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:21	B1-3	CPIP	Call		PSR
22:21	B1-3	CPIP	Call		PSR
22:21	B1-3	CPIP	Call		PSR
22:21	B1-3	CPIP	Call		PSR
22:21	B1-3	CPIP	Call		PSR
22:22	B1-4	CPIP	Call		PSR
22:22	B1-4	CPIP	Call		PSR
22:22	B1-4	CPIP	Call		PSR
22:22	B1-4	CPIP	Call		PSR
22:22	B1-4	CPIP	Call		PSR
22:22	B1-4	CPIP	Call		PSR
22:22	B1-4	CPIP	Call		PSR
22:22	B1-3	CPIP	Call		PSR
22:22	B1-3	BARB	Call		PSR
22:22	B1-3	CPIP	Call		PSR
22:22	B1-3	CPIP	Call		PSR
22:22	B1-1	MYOSP	Call	Maybe myotis	
22:22	B1-1	CPIP	Call		

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:23	B1-4	CPIP	Call		PSR
22:23	B1-4	CPIP	Call		PSR
22:23	B1-4	CPIP	Call		PSR
22:23	B1-4	CPIP	Call		PSR
22:23	B1-4	CPIP	Call		PSR
22:23	B1-3	CPIP	Call		PSR
22:23	B1-3	CPIP	Call		PSR
22:23	B1-3	CPIP	Call		PSR
22:23	B1-3	CPIP	Call		PSR
22:23	B1-3	CPIP	Call		PSR
22:23	B1-1	BARB	Call	Maybe myotis	
22:23	B1-1	MYOSP	Call		
22:24	B1-4	CPIP	Call		PSR
22:24	B1-4	CPIP	Call		PSR
22:24	B1-4	CPIP	Call		PSR
22:24	B1-4	CPIP	Call		PSR
22:24	B1-4	CPIP	Call		PSR
22:24	B1-4	CPIP	Call		PSR
22:24	B1-3	CPIP	Call		PSR
22:24	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:24	B1-3	CPIP	Call		PSR
22:24	B1-3	CPIP	Call		PSR
22:24	B1-3	CPIP	Call		PSR
22:24	B1-3	CPIP	Call		PSR
22:24	B1-1	CPIP	Call		
22:25	B1-4	CPIP	Call		PSR
22:25	B1-4	LHO	Call		PSR
22:25	B1-4	CPIP	Call		PSR
22:25	B1-4	CPIP	Call		PSR
22:25	B1-4	CPIP	Call		PSR
22:25	B1-3	CPIP	Call		PSR
22:25	B1-3	CPIP	Call		PSR
22:25	B1-3	CPIP	Call		PSR
22:25	B1-3	CPIP	Call		PSR
22:25	B1-3	CPIP	Call		PSR
22:25	B1-3	CPIP	Call		PSR
22:25	B1-1	CPIP	Call	Feeding buzz	
22:25	B1-1	CPIP	Call	Feeding buzz	
22:26	B1-4	CPIP	Call		PSR
22:26	B1-4	CPIP	Call		PSR
22:26	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:26	B1-4	CPIP	Call		PSR
22:26	B1-4	CPIP	Call		PSR
22:26	B1-3	CPIP	Call		PSR
22:26	B1-3	CPIP	Call		PSR
22:26	B1-3	CPIP	Call		PSR
22:26	B1-3	CPIP	Call		PSR
22:26	B1-3	CPIP	Call		PSR
22:26	B1-1	CPIP	Call	Feeding buzz	
22:27	B1-4	CPIP	Call		PSR
22:27	B1-4	CPIP	Call		PSR
22:27	B1-4	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:27	B1-3	CPIP	Call		PSR
22:27	B1-1	CPIP	Call	Feeding buzz	
22:27	B1-1	CPIP	Call	Faint	
22:28	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:28	B1-3	CPIP	Call		PSR
22:28	B1-3	CPIP	Call		PSR
22:29	B1-4	CPIP	Call		PSR
22:29	B1-4	CPIP	Call		PSR
22:29	B1-4	CPIP	Call		PSR
22:29	B1-4	CPIP	Call		PSR
22:29	B1-3	CPIP	Call		PSR
22:29	B1-3	CPIP	Call		PSR
22:29	B1-3	CPIP	Call		PSR
22:29	B1-3	CPIP	Call		PSR
22:29	B1-3	CPIP	Call		PSR
22:29	B1-1	SPIP	Call		
22:29	B1-1	CPIP	Call		
22:30	B1-4	CPIP	Call		PSR
22:30	B1-4	CPIP	Call		PSR
22:30	B1-4	CPIP	Call		PSR
22:30	B1-3	CPIP	Call		PSR
22:30	B1-1	CPIP	Call		
22:31	B1-3	CPIP	Call		PSR
22:31	B1-3	CPIP	Call		PSR
22:32	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:32	B1-3	NYCSP	Call		PSR
22:32	B1-3	CPIP	Call		PSR
22:32	B1-3	CPIP	Call		PSR
22:33	B1-4	CPIP	Call		PSR
22:33	B1-4	CPIP	Call		PSR
22:33	B1-4	CPIP	Call		PSR
22:33	B1-4	CPIP	Call		PSR
22:33	B1-4	CPIP	Call		PSR
22:33	B1-3	CPIP	Call		PSR
22:33	B1-3	CPIP	Call		PSR
22:33	B1-3	CPIP	Call		PSR
22:33	B1-4	CPIP	Call		PSR
22:34	B1-4	CPIP	Call		PSR
22:34	B1-4	CPIP	Call		PSR
22:34	B1-4	CPIP	Call		PSR
22:34	B1-4	CPIP	Call		PSR
22:34	B1-4	CPIP	Call		PSR
22:34	B1-3	CPIP	Call		PSR
22:34	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:34	B1-3	CPIP	Call		PSR
22:35	B1-4	CPIP	Call		PSR
22:35	B1-4	CPIP	Call		PSR
22:35	B1-3	CPIP	Call		PSR
22:35	B1-3	CPIP	Call		PSR
22:35	B1-3	CPIP	Call		PSR
22:36	B1-4	CPIP	Call		PSR
22:36	B1-3	CPIP	Call		PSR
22:36	B1-3	CPIP	Call		PSR
22:36	B1-3	CPIP	Call		PSR
22:37	B1-1	CPIP	Call		
22:38	B1-1	BARB	Call		
22:38	B1-1	MYOSP	Call		
22:39	B1-2	CPIP	Call		
22:40	B1-4	BARB	Call		PSR
22:40	B1-4	BARB	Call		PSR
22:40	B1-4	BARB	Call		PSR
22:40	B1-4	BARB	Call		PSR
22:40	B1-3	BARB	Call		PSR
22:40	B1-3	BARB	Call		PSR
22:41	B1-1	BARB	Call		

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:42	B1-3	BARB	Call		PSR
22:42	B1-3	BARB	Call		PSR
22:44	B1-4	BARB	Call		PSR
22:44	B1-3	BARB	Call		PSR
22:45	B1-4	BARB	Call		PSR
22:45	B1-4	BARB	Call		PSR
22:45	B1-4	BARB	Call		PSR
22:45	B1-3	BARB	Call		PSR
22:46	B1-3	BARB	Call		PSR
22:47	B1-4	BARB	Call		PSR
22:47	B1-3	BARB	Call		PSR
22:47	B1-1	MYOSP	Call		
22:48	B1-1	MYOSP	Call	Feeding buzz	
22:48	B1-1	CPIP	Call	Feeding buzz	
22:48	B1-1	MYOSP	Call	Feeding buzz	
22:49	B1-4	CPIP	Call		PSR
22:49	B1-4	CPIP	Call		PSR
22:49	B1-4	CPIP	Call		PSR
22:49	B1-3	NAT	Call		PSR
22:49	B1-1	MYOSP	Call	Feeding buzz	

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
22:50	B1-4	BARB	Call		PSR
22:50	B1-4	BARB	Call		PSR
22:50	B1-3	BARB	Call		PSR
22:50	B1-1	CPIP	Call	Feeding buzz	
22:52	B1-1	MYOSP	Call	Feeding buzz	
23:01	B1-4	SPIP	Call		PSR
23:01	B1-4	CPIP	Call		PSR
23:02	B1-4	CPIP	Call		PSR
23:02	B1-4	CPIP	Call		PSR
23:02	B1-4	CPIP	Call		PSR
23:02	B1-3	CPIP	Call		PSR
23:02	B1-3	CPIP	Call		PSR
23:02	B1-1	CPIP	Call	Feeding buzz	
23:03	B1-4	CPIP	Call		PSR
23:03	B1-3	CPIP	Call		PSR
23:03	B1-1	CPIP	Call	Feeding buzz	
23:03	B1-1	MYOSP	Call	Daub?	
23:04	B1-3	CPIP	Call		PSR
23:05	B1-4	SPIP	Call		PSR
23:05	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
23:05	B1-4	CPIP	Call		PSR
23:05	B1-3	CPIP	Call		PSR
23:05	B1-3	CPIP	Call		PSR
23:05	B1-3	CPIP	Call		PSR
23:05	B1-3	BARB	Call		PSR
23:05	B1-3	CPIP	Call		PSR
23:05	B1-1	BARB	Call		PSR
23:06	B1-4	CPIP	Call		PSR
23:06	B1-4	CPIP	Call		PSR
23:06	B1-4	CPIP	Call		PSR
23:06	B1-4	SPIP	Call		PSR
23:06	B1-3	CPIP	Call		PSR
23:06	B1-3	CPIP	Call		PSR
23:06	B1-3	CPIP	Call		PSR
23:06	B1-1	CPIP	Call	Faint	
23:06	B1-1	CPIP	Call		PSR
23:07	B1-4	CPIP	Call		PSR
23:07	B1-4	SPIP	Call		PSR
23:07	B1-3	SPIP	Call		PSR
23:07	B1-3	CPIP	Call		PSR
23:07	B1-3	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
23:07	B1-1	BLE	Call	Faint	
23:07	B1-1	CPIP	Call	Faint	
23:08	B1-4	SPIP	Call		PSR
23:08	B1-4	SPIP	Call		PSR
23:08	B1-3	SPIP	Call		PSR
23:08	B1-3	CPIP	Call		PSR
23:08	B1-3	CPIP	Call		PSR
23:08	B1-1	CPIP	Call	Faint	
23:08	B1-1	CPIP	Call	Feeding buzz	
23:09	B1-4	SPIP	Call		PSR
23:09	B1-4	SPIP	Call		PSR
23:09	B1-4	SPIP	Call		PSR
23:09	B1-4	SPIP	Call		PSR
23:09	B1-4	SPIP	Call		PSR
23:09	B1-3	CPIP	Call		PSR
23:09	B1-3	CPIP	Call		PSR
23:09	B1-3	SPIP	Call		PSR
23:09	B1-1	CPIP	Call	Feeding buzz	
23:10	B1-4	CPIP	Call		PSR
23:10	B1-4	CPIP	Call		PSR
23:10	B1-4	CPIP	Call		PSR
23:10	B1-4	CPIP	Call		PSR

Visit 3 - ctd

Time	Pos	Spp	Act	Notes	PSR
23:10	B1-3	CPIP	Call		PSR
23:10	B1-3	CPIP	Call		PSR
23:10	B1-3	CPIP	Call		PSR
23:10	B1-1	BLE	Call	Feeding buzz	
23:10	B1-1	CPIP	Call	Feeding buzz	
23:11	B1-4	CPIP	Call		PSR
23:11	B1-4	CPIP	Call		PSR
23:11	B1-3	CPIP	Call		PSR
23:11	B1-3	CPIP	Call		PSR
23:11	B1-3	SPIP	Call		PSR
23:11	B1-3	CPIP	Call		PSR
23:11	B1-3	CPIP	Call		PSR
23:11	B1-3	BLE	Call		PSR
23:11	B1-3	BLE	Call		PSR
23:12	B1-4	CPIP	Call		PSR
23:12	B1-4	SPIP	Call		PSR
23:12	B1-3	CPIP	Call		PSR
23:12	B1-3	CPIP	Call		PSR
23:12	B1-3	CPIP	Call		PSR
23:12	B1-1	MYOSP	Call		

Appendix 6: General Methodology

BAT EMERGENCE AND RE-ENTRY SURVEY METHODOLOGY — GENERAL

1. Survey Aims and Approach

Dusk bat emergence surveys (and, where justified, dawn re-entry surveys) were undertaken to determine the presence or likely absence of roosting bats and, where present, to characterise roosts by species, numbers, access points, roost type and how bats use the site. Survey design follows an iterative approach: results and audit data are reviewed after each visit so that subsequent survey effort, positioning, equipment deployment and objectives can be refined as needed (BCT 7.2.17; 10.1.1).

2. Guidance and Standards

All surveys were designed and delivered with reference to Bat Surveys for Professional Ecologists — Good Practice Guidelines (4th ed.) (Collins, 2023), the CIEEM Guidelines for Ecological Report Writing (2nd ed.) (CIEEM, 2017a), and other relevant guidance including Natural England standing advice for bats (updated April 2025) and BS 42020:2013. Where departures from published good practice were made, the report identifies what changed, why, how survey robustness was maintained, and the competence of the ecologist(s) making that judgement (BCT 1.1.4–1.1.5; 2.2.32–2.2.33).

3. Competence and Roles

Survey design and oversight were provided by Consultant Ecologist Bethany Swain BSc (Hons) (Accredited on Natalie's Natural England Bat License No. Details Available Upon Request) at BCT Level 2 competence. On-site survey work was led by Joelle Cattermole, BSc at BCT Level 2 competence, supported by 1 additional Bat Surveyor. Bat Surveyors (minimum BCT Level 1, trained to internal standard) worked under the supervision of the Project Surveyor and were responsible for data collection at their manned positions, including real-time species identification and operating IR camera/acoustic equipment. Training records and competency sign-offs are maintained in line with CIEEM Code of Professional Conduct. Full surveyor details are provided in Table 2.

4. Survey Timing, Effort and Seasonal Windows

Survey effort was set in line with BCT Tables 7.1 and 7.2 and reviewed as results emerged. Dusk emergence surveys commenced with surveyors and equipment in place 15 minutes before sunset and continued for 1.5–2 hours after sunset (BCT 7.2.31). Survey visits were spaced a minimum of three weeks apart and timed within the core May–August survey window wherever feasible. Where September surveys were required, the report details the justification, how robustness was maintained, and any residual uncertainty.

Survey dates, start/end times, and sunset/sunrise times are provided in the survey visit details section of the report.

5. Weather Conditions

Surveys were undertaken only when conditions were likely to support typical bat emergence and flight behaviour. Conditions were assessed using forecasts and confirmed on arrival. Minimum thresholds: temperature >7°C at survey start; wind ≤ Beaufort Scale 3 (~5 m/s); no persistent heavy rain. Where suboptimal but permissible conditions occurred (e.g. intermittent light drizzle), these are recorded and interpretation reflects this. Weather data recorded during each survey are provided in the survey visit details section of the report.

6. Survey Area and Position Design

The survey area comprised 1 building, selected on the basis of the PRA findings and/or tree assessment results. Justification for the extent of survey coverage is provided in the Site Context and Background section.

The arrangement of surveyors and equipment was informed by the Preliminary Roost Assessment (structures) and/or tree assessment (PRFs/GLTA) so that identified roosting features and likely access points were the focus of coverage, while recognising that bats may emerge from unexpected locations (BCT 7.2.12). Where NVAs were deployed, a still image or screenshot was captured from the darkest point of the survey from each NVA to demonstrate field of view and adequacy of illumination; these are provided in 3 (BCT 7.2.10). Surveyor and equipment positions for each survey visit are shown on Appendix 1.

7. Equipment Standards

All electronic survey equipment (detectors, recorders and NVAs) was tested prior to deployment (function check, storage capacity, battery health, time synchronisation) and calibrated/tested in line with manufacturer guidance, typically at least annually, with evidence retained and available on request (BCT 2.5.14). Microphone sensitivity was verified prior to the survey season, as sensitivity can decline over time (BCT 2.5.16). Equipment was selected as suitable for the target species and site conditions (BCT 2.5.13; 2.5.17). Detector settings and deployment metadata were documented consistently, including gain/sensitivity, trigger parameters, recording format, sample rate, firmware/app version, time settings and any filters applied (BCT 2.5.15; 2.5.20). Equipment details and settings are provided in Table 3.

8. Data Capture and Acoustic Analysis

All results were recorded using a standardised digital survey form, including surveyor positions, start/end times, weather at intervals, equipment identifiers, detector settings, observed emergences/returns, bat passes, flight direction, behaviour notes and confidence/uncertainty notes (BCT 7.2.19). Raw audio/video recordings and metadata were retained as an auditable record. Negative survey results were also recorded (BCT 2.5.19).

A bat pass was defined as a sequence of two or more echolocation pulses produced by an individual bat, with a new pass recorded when a gap of one second or more occurred between successive calls. Where sustained activity was recorded (e.g. circling bats), this was noted as sustained activity rather than counted as individual passes.

At manned positions, species identification was carried out in real-time by the ecologist using a heterodyne detector for live listening and an Echo Meter Touch (built-in MEMS microphone) for full-spectrum recording. All recordings were retained as an auditable record. Post-survey acoustic review was undertaken only where specific calls could not be confidently identified on site; these were reviewed using Wildlife Acoustics Kaleidoscope Pro with reference to Russ (2012)

British Bat Calls: A Guide to Species Identification.

Where semi-manned positions were deployed (Titley Chorus with ultrasonic microphone), recordings were processed through Titley Scientific Anabat Insight (BatClassify UK plug-in) to provide automated species identification. Auto-ID outputs were subject to targeted manual verification by an experienced ecologist using Kaleidoscope Pro. Manual verification was applied to: uncertain or low-confidence classifications; any classifications of conservation-significant, locally uncommon or Annex II species regardless of confidence score (BCT 10.2.19); and any records detected at unusual times. Manual verification involved visual inspection of spectrograms and examination of call parameters including peak frequency (kHz), start and end frequency (kHz), call duration (ms), inter-pulse interval (ms), bandwidth (kHz), and call shape/structure (e.g. FM, FM-QCF, QCF). Where calls could not be confidently assigned to species level (e.g. *Myotis* species group), they were recorded at the most reliable taxonomic level.

It is acknowledged that automated classification software is not infallible; false positives and false negatives may occur. Different species can produce similar calls, and recording quality, environmental conditions and bat behaviour can affect call characteristics. Some species groups (e.g. *Myotis* spp., *Nyctalus/Eptesicus*) cannot be reliably separated by echolocation alone (Russ, 2012). Where auto-ID was used, the system and version, validation steps, thresholds and manual verification criteria are documented in appendix 5 (BCT 10.2.21).

Acoustic data were reviewed promptly after each survey to inform subsequent survey design (BCT 2.2.16; 10.1.1).

9. Health and Safety

A site-specific risk assessment was prepared addressing both site and generic survey hazards (night working, slips/trips, lone working, antisocial behaviour risk). The risk assessment was reviewed on arrival at each visit, and new hazards identified on site were recorded for subsequent visits (BCT 2.7.3).

10. Report Quality Assurance

This report has been written by, or reviewed by, a senior member of staff to confirm technical adequacy, clarity and that recommendations are justified (BCT 11.4.1). Survey effort has been checked as part of project quality assurance (BCT 7.2.13).

11. Limitations and Survey Validity

Survey data in this report were collected during the 2026 survey season. In accordance with CIEEM (2019) Advice Note on the Lifespan of Ecological Reports and Surveys, survey data are generally considered valid for up to 12 months / state period from the date of the last survey visit. Where this report is relied upon beyond that period, an update assessment may be required.

- Artificial lighting from security lights and/or illumination from within the building was intermittently present during the survey period. This introduced areas of contrasting brightness across parts of the elevation.

References

References relevant to this methodology.

- BCT (2023, amended 27.03.2024) Bat Surveys for Professional Ecologists — Good Practice Guidelines (4th ed.). Bat Conservation Trust, London.
- BCT / Fawcett-Williams, J. (2021) Thermal Imaging: Bat Survey Guidelines. Bat Conservation Trust, London.
- CIEEM (2017a) Guidelines for Ecological Report Writing (2nd ed.). CIEEM, Winchester.
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- BSI (2013) BS 42020:2013 Biodiversity — Code of practice for planning and development. British Standards Institution, London.
- Natural England (2025) Bats: advice for making planning decisions. Updated April 2025.
- Russ, J. (2012) British Bat Calls: A Guide to Species Identification. Pelagic Publishing, Exeter.

Appendix 7: Survey Methodology

BAT EMERGENCE SURVEY METHODOLOGY — HYBRID NVA/ECOLOGIST SURVEY

1. Survey Method

This survey used a hybrid approach combining manned positions (ecologist with NVA, live detector and recording) and semi-manned automatic recording positions (NVA with dedicated static audio detector). Semi-manned positions were deployed to maintain coverage of roosting features while reducing the number of human positions required, consistent with BCT guidance that NVAs can reduce the number of surveyors where appropriately deployed with a detector soundtrack and evidence of efficacy (BCT 7.2.8; 7.2.11).

2. Position Design

The arrangement of manned and semi-manned positions was determined from the PRA and/or tree PRF assessment, with coverage designed so that all elevations and identified roosting features were monitored (BCT 7.2.12). Survey design and oversight were provided by Consultant Ecologist Bethany Swain BSc (Hons) (Accredited on Natalie's Natural England Bat License No. Details Available Upon Request) at BCT Level 2 competence. at BCT Level 3 competence (BCT 7.2.6). Manned positions were staffed with either Project Surveyors or Bat Surveyors, who were responsible for data collection, including real-time species identification and recording all bat activity, including peripheral activity across the wider site (BCT 7.2.13). Semi-manned positions were monitored by either the Project Surveyor or Bat Surveyors, which were allocated by the Project Surveyor. Where required, additional assistants were present to monitor semi-manned positions to provide additional equipment security. Surveyor and equipment positions are shown on Appendix 1.

3. Equipment

Manned positions: IR camera (Nightfox Whisker) with tripod; true IR illumination source (Nightfox XB5 Pro 850 nm); tablet for digital data capture; full-spectrum detector (Echo Meter Touch, built-in MEMS microphone) with recording enabled, supplemented by heterodyne detector for real-time species identification; radio communication; red-light head torch; weather meter/anemometer.

Semi-manned positions: IR camera with true IR illumination source; full-spectrum static bat detector/recorder (Titley Chorus with ultrasonic microphone, unique identifier) deployed on a tripod at approximately 1.5–2 m above ground level, with the microphone oriented horizontally and directed towards the building features under observation — height and orientation were adjusted on site as necessary to maximise acoustic coverage of identified roosting features; tripod/clamp system for stable alignment and security.

Staffing and equipment deployment were designed to ensure survey effort was not diluted across the site, with sufficient coverage of all relevant elevations and features (BCT 7.2.15).

All equipment was tested and calibrated in line with manufacturer guidance, with evidence retained and available on request (BCT 2.5.14). Detector settings

(gain/sensitivity, trigger parameters, recording format, sample rate, firmware version, time settings) were documented (BCT 2.5.15; 2.5.20). Equipment details and settings are provided in Table 3, along with any deviations from this kit list.

4. Survey Operation

All equipment was deployed and operational before the 15-minute pre-sunset survey start. Each NVA was checked for focus, field of view and adequacy of true IR illumination (BCT 7.2.10). NVAs and audio recorders were turned on before the survey window and remained running until after completion (BCT 7.2.11). During the survey, each surveyor monitored their allocated NVAs and carried out operational checks (recording status, IR illumination timing, lamp alignment). Surveyors maintained constant radio contact. A still image was captured from the darkest point of the survey from each NVA to demonstrate field of view and illumination adequacy; these are provided in Appendix 3 (BCT 7.2.10).

5. Post-Survey Review

NVA footage was reviewed promptly (typically the following day) while the survey remained fresh in surveyors' minds (BCT 7.2.16). Acoustic files were processed promptly to inform subsequent survey design (BCT 2.2.16; 10.1.1). Results from each visit were used to refine positioning, equipment deployment and objectives for subsequent visits where required (BCT 7.2.17). Where overlap between independent observer and NVA detections was noted, this was recorded to support internal quality assurance (BCT 7.2.14). Where bats were observed emerging, survey interpretation recognised that the roosting location may differ from the emergence point, and follow-up survey design was adjusted accordingly (BCT 7.2.17).

6. Justification for Method

This hybrid approach was selected as appropriate for the site based on the high number of roosting features and the high complexity of the site. The method maintains full auditable NVA and acoustic coverage of all identified roosting features while providing direct ecologist observation at key positions.

7. Limitations

All limitations are listed, along with their impact level, in the Limitations section of the main report.