

**How Green Barn,
Shiloh Road,
High Peak,
SK10 4JU.**

Bat Activity Survey Report

Report No: PCA/23/03

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INFORMATION TO READERS

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The advice contained in this report is based on the information available and/or collected during the period of study. We cannot completely eliminate the possibility of important ecological features being found through further investigation and/or by survey at different times of the year or in different years.

Surveys and assessments are undertaken on the understanding that nothing in our reports will be omitted, amended or misrepresented by the client or any other interested party.

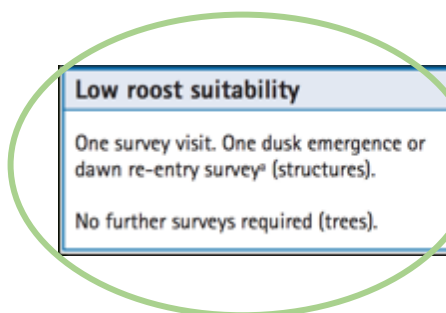
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Introduction

Ashley Powell MSc was commissioned by Mr Phil Arden to conduct a bat activity survey on a large steel detached barn; said structure is the subject of a planning application for a mixed-use development within the existing footprint

The client has previously commissioned a bat scoping survey, conducted by Ashley Powell MSc in August 2023. This survey recorded limited features typically associated with bat roosts, the cottage was classified as **low roost suitability**; therefore, a bat activity survey was suggested.



Low roost suitability	Moderate roost suitability	High roost suitability
One survey visit. One dusk emergence or dawn re-entry survey ^a (structures). No further surveys required (trees).	Two separate survey visits. One dusk emergence and a separate dawn re-entry survey. ^b	Three separate survey visits. At least one dusk emergence and a separate dawn re-entry survey. The third visit could be either dusk or dawn. ^b

A dusk emergence surveys was undertaken on the 18th of September and was undertaken in accordance with the Bat Conservation Trust, Bat Surveys Good Practice Guidelines (2016).

The surveys were led by Ashley Powell MSc, an experienced bat surveyor and senior ecologist.

For the emergence surveys, 2 surveyor points monitored the building to ensure complete coverage for any emerging bats. The survey began 30 minutes before the recorded dusk time and continued for 90 minutes after.

The surveyors used Elekon BATLOGGER+ M pro bat detectors to record the echolocations of active bats. The surveyors were positioned as shown in **Figure 1**, to ensure full coverage of the barn, in order to view the features identified (main door points), and gain full building coverage simultaneously.

No bats were noted emerging from the target building.

The survey detected up to 2 Common Pipistrelle bats foraging briefly over the residential property adjacent to the development but outside of the site boundary. These bats are not considered to be roosting within the target building and refer to foraging individuals.

Noctule Bat activity was recorded overhead during the survey, this species is not considered to be roosting within the proposal footprint.

Given the results, one can assume that **the building does not currently hold a bat roost**, it is likely the bats recorded roost locally; the adjacent buildings and surrounding area offer good habitat for both roosting and foraging.

Methodology

The surveys were led by Ashley Powell MSc, a bat surveyor and senior ecologist with 18 years field work experience.

For the emergence survey, 2 surveyor points monitored the building to ensure complete coverage for any emerging bats. The surveys began 30 minutes before the recorded dusk time and continued for 90 minutes after.

The surveyors used Elekon BATLOGGER+ M pro bat detectors (#2489 & #2490) to record the echolocations of active bats.

The surveyors were positioned at each face of the dwelling in order to view the elevation, and roof, and gain full coverage simultaneously (see surveyor location plan below).

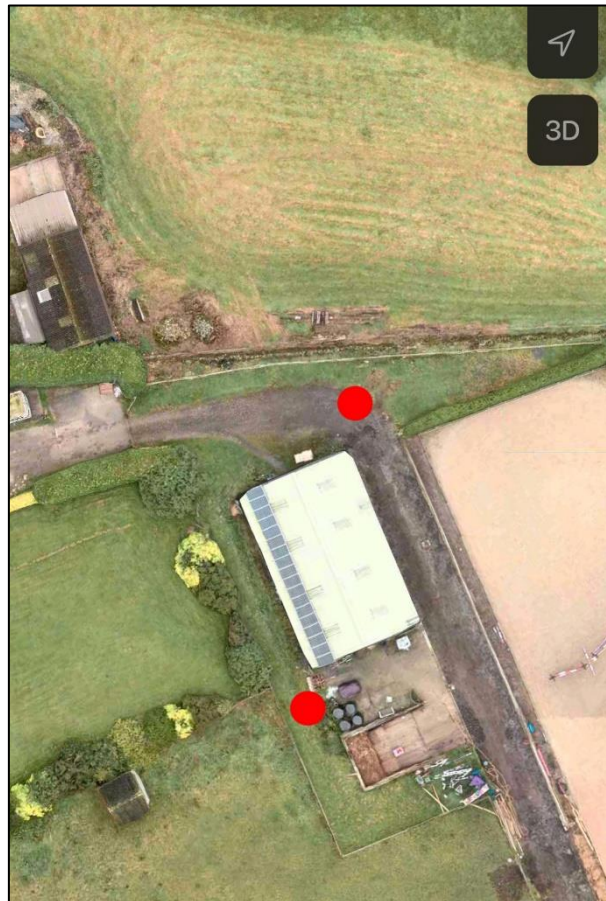


Figure 1 - Surveyor Positions.

Dusk Emergence Results

18th September 2023

Start time	End time	Dusk time	Starting temp °	End temp °	Wind	Rain	Cloud %
19.00	20.30	19.15	17	15	1 SSW	0	25

19.25	NOCTULE	Heard and seen high over the site
19.27	COMMON PIPISTRELLE	2 seen foraging briefly
19.20-19.45	COMMON PIPISTRELLE	6 additional feeding registrations
19.45-20.15	COMMON PIPISTRELLE	8 additional feeding registrations
20.15-20.30	COMMON PIPISTRELLE	2 additional feeding registrations

Conclusions and Recommendations

The results of the activity surveys indicate that the target building does not currently contain a bat roost.

Therefore, given that the building does not contain a current roost, it is suggested that the proposed works can proceed with caution and any bat related constraints should be covered by adhering to a bat safeguard method statement.

However, in order to comply with local biodiversity gain policy, it is suggested that three bat boxes/bricks are erected on the elevation facing towards the residential property / wooded perimeter boundary.

Where lighting is absolutely necessary in areas of tree/shrub planting this will be low wattage, directional, low level and/or shaded to minimize light spill (<1Lux) onto potential flight lines and foraging habitat to ensure that the overall impact caused by lighting the site is negligible. The lighting scheme will be designed with regard to guidance such as the Bat Conservation Trust Statement on the impact and design of artificial light on bats, and the Institution of Lighting Professionals Guidance Notes, to minimize disturbance to bats and other wildlife due to artificial lighting.