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SUNDERLAND PEACOCK ARCHITECTS

**BAT SURVEY AT -
HIGHER BOYCES FARM
STONE GATE LANE
RIBCHESTER**

DATE AND TIME OF VISIT
8th March 2019 10.00am

WEATHER CONDITIONS

Overcast , 13-22 mph west south west wind . 5 C

REFERENCE NO. 4874

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RICS

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SURVEY CARRIED OUT BY: LYNNE RUSHWORTH AssocRICS

UK BAT ECOLOGY

- It is thought that there are 18 native species of bats in the UK, most of which have seen declines in numbers over the last century.
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- As insect feeding species the preferred habitats include woodland, grassland, agricultural land, wetland and rivers which provide good foraging potential.
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- Bats typically roost close to foraging sites and use linear features such as hedgerows, tree lines and rivers to navigate. It is important to maintain these features, as removal is thought to contribute to the decline in numbers.
- Bats will roost in a wide variety of sites and built structures, including underground structures (caves , bridges) and trees . Types of roost and times of year used.

Hibernacula - November to March

Temporary roosts - March to April and August to October

Maternity roosts – May to August

Summer roosts – Used by Males and immature females

Mating roosts – September and October

- Disturbance to a Hibernacula or Maternity roost is the most damaging for any local bat population. The same Maternity roosts are typically used year after year commencing between May to early June and are colonised with mature females and their young, any disturbance can lead to abandonment of the young and loss of the roost will have a significant impact on the bat population. Hibernacula roosts typically consist of underground sites caves, cellars etc or buildings which maintain cool and fairly constant temperatures. Bats hibernate (deep sleep , torpor) to survive the winter months when insects are in short supply so they hibernate to conserve energy and survive on their fat stores. Any disturbance which wakes the bats can result in unnecessary use of the energy reserves and thus reduces the chance of survival over the winter months.

THIS SURVEY HAS BEEN CARRIED OUT BY: LYNNE RUSHWORTH WHO HAS COMPLETED THE BAT CONSERVATION TRUST'S 'BATS AND BAT SURVEYS' FOUNDATION COURSE FOR CONSULTANTS, AND 'PLANNING AND PREPARATION OF BAT SURVEYS' COURSE

EMERGENCE SURVEYS ARE CARRIED OUT WITH A SECOND SURVEYOR WITH ELEVEN YEARS EXPERIENCE OF ASSISTING ON EMERGENCE SURVEYS

THE BRIEF

In conjunction with the submission of an application for planning approval, this survey was commissioned to identify if bats are currently present in the building, to assess if it has been used in the past or if there is any potential for future use of the building.

All British bats and their roosts are legally protected under the Wildlife and Countryside Act 1981 (as amended) and the Conservation of Habitats and Species Regulations 2010, the Countryside and Rights of Way Act 2000 and the Natural Environment and Rural Communities Act 2006

BAT LEGISLATION - Summary of offences under the law:

Bats and the Law Wildlife and Countryside Act 1981,

Principally those relating to powers and penalties, have been amended by the Countryside and Rights of Way Act 2000 (CRoW Act). The CRoW Act only applies to England and Wales.

Section 9(1) It is an offence for any person to intentionally kill, injure or take any wild bat.

Section 9(4)(a) It is an offence to intentionally or recklessly* damage, destroy or obstruct access to any place that a wild bat uses for shelter or protection. (*Added by the CRoW Act in England and Wales only) This is taken to mean all bat roosts whether bats are present or not.

Section 9(4)(b) It is an offence to intentionally or recklessly* disturb any wild bat while it is occupying a structure or place that it uses for shelter or protection. (*Added by the CRoW Act in England and Wales only)

The Conservation (Natural Habitats, &c.) Regulations 1994

Section 39(1)

It is an offence to

(a) Deliberately to capture or kill any bat

(b) Deliberately to disturb any bat

(c) Damage or destroy a breeding site or resting place of any bat. The difference between this legislation and the Wildlife and Countryside Act 1981 is the use of the word 'deliberately' rather than 'intentionally'. Also disturbance of bats can be anywhere, not just at a roost. Damage or destruction of a bat roost does not require the offence to be intentional or deliberate.

Countryside and Rights of Way (CRoW) Act (2000) Part III Nature conservation and wildlife protection 74 Conservation of biological diversity

(1) It is the duty of (a) any Minister of the Crown (within the meaning of the Ministers of the [1975 c. 26.] Crown Act 1975), (b) any Government department, and (c) the National Assembly for Wales, in carrying out his or its functions, to have regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biological diversity in accordance with the Convention.

The Natural Environment and Rural Communities Act (2006) PART 3. (40): Duty to conserve biodiversity

(1) Every public authority must, in exercising its functions, have regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity.

(2) Conserving biodiversity includes, in relation to a living organism or type of habitat, restoring or enhancing a population or habitat.

If it is discovered that development may impact upon bat roosts (thus leading to an offence being committed) a mitigation plan should be devised and a Bat Mitigation Licence applied for from the relevant government department (i.e. Natural England). Gaining a licence will depend on many variables, such as the bat species present, roost type, roost size and its local/regional/national importance

LIMITATIONS OF REPORT

NOTE: *The absence of bats is near impossible to prove. The bats' high mobility means it is virtually impossible to rule out bats using any type of structure for roosting or habitat for foraging or on a flight path.*

- External walls and internal rooms inspected from ground level.
- Roof spaces, attics and lofts will only be inspected if safe access is possible.
- Winter surveys will provide limited results. However internal inspection should determine if bats have used the building in the previous year.
- Any building whose structure is considered dangerous can only be inspected from a safe distance. Crevice- roosting bats ie. Pipistrelles, some Myotis species and Brown long eared bats can remain unseen even after close inspection in small spaces ie. cavity walls, roof structures soffits or cladding.
- Bat roosting evidence ie. Droppings or insect remains can be removed by weather conditions or sweeping/ cleaning internally so this lack of evidence cannot always prove undoubtedly that bats are absent.

EQUIPMENT USED ON SURVEY

- 'MAGENTA 5' BAT DETECTOR
- BINOCULARS
- HIGH POWERED TORCH
- LADDERS FOR HIGH LEVEL INSPECTION
- CAMERA
- ENDOSCOPE

PROPOSED DEVELOPMENT

Removal of farm building prior to construction of replacement building in new location

Impact of development in relation to potential bat habitat:-

Removal of a building.

TYPE OF BUILDING

The building is a detached steel portal framed farm building, used for storing machinery and as a workshop.



Front east elevation



Part south and west elevation

METHODOLOGY

The survey methodology follows the guidelines published in the Bat Conservation Trust (BCT- Bat surveys, good practice guidelines 2nd Edition)

Scoping survey ; (Non invasive) carried out by one surveyor to assess if the site has any potential value for protected species and determine if bats are currently or have historically used the building.

Emergence survey ; are conducted 20 minutes before sunset and up to two hours after. Emergence surveys are conducted between the months of April through to end of September (weather dependant).

October to April (winter months) bats are inactive during the hibernation period.

All surveyors used have many years experience in conducting bat emergence surveys

CONSTRAINTS

Scoping survey carried out during hibernation period.

AIMS OF THE SURVEY

To ensure the proposed development will not affect any protected species

The survey will ; Identify past ,current or potential use of the site by protected species.

Assess any impact of the proposed development on these species

Outline a mitigation scheme for any species affected by the development (if required)

LOCATION SD: 649 361 elevation 40m

The barn is located adjacent to a farm house and other associated farm out buildings. It is accessed via a track off Stoneygate lane, north of the settlement area of Ribchester.



FORAGING POTENTIAL IN THE LOCATION

The farm building is part of a farm development it is detached from the other buildings but located in the yard area.

The immediate locality is open agricultural land the fields being boarded by hedgerow and tree lines leading to woodland in the greater area. Boyces brook runs from north to south to the west which is also lined with trees. The area can generally be considered an optimal well connected foraging habitat for bats.



WALL CONSTRUCTION

The base walls are pre fabricated concrete panels with a pebbledash external finish with the exception of the walls either side of the main opening on the front elevation which is blockwork. The walls at higher level are profile steel sheet.



BAT ACCESS POINTS IN WALLS

The steel sheets and concrete panels are in good condition they do not provide any access points however at the abutment of the sheets and panels there are gaps formed by the profile which could potentially provide access into the building.



the internal view of the walls.

ROOF CONSTRUCTION

The roof is pitched with a corrugated fibre cement sheet with clear sections forming roof lights, complete with gable and eaves trim.



BAT ACCESS POINTS IN ROOF

The roof sheets are in good condition with tight fitting sheet laps. Slight gaps will be formed at the abutment of the steel wall sheets and the roof sheets.

ROOF SPACE

There is no enclosed roof void the structure is fully visible. The steel portal frame supports timber purlins with the sheets fixed directly over. All the timbers are in perfect condition with no cracks or crevices. The roof structure does not provide any potential roost habitat.



BAT SIGNS, EXTERNAL

SEEN
DROPPINGS
MAGENTA BAT5 DETECTOR RESULT

Yes	No
	X
	X
	X

The external features of the building were examined during this scoping survey. The abutments of roof and all wall materials were visually examined for droppings, staining, grease marks or feeding remains. No evidence was found.

BAT SIGNS, INTERNAL

SIGHTED
DROPPINGS
DETECTOR RESULTS
STAINING/GREASE MARKS
SUSPECT SUMMER ROOST
SUSPECT WINTER HIBERNACULA
INSECT OR MOTH FEEDING EVIDENCE

Yes	No
	X
	X
	X
	X
	X
	X
	X

The building is in constant use as a store and workshop, the floor and any surfaces were examined for any dropping or insect remains. The result was negative, the interior of the building does not provide any roost habitat or any forage potential.

CONCLUSION

Based on past emergence survey results there is minimal bat activity at this location, emergence from the line of trees to the west of the site, with some foraging activity of a pair of bats travelling down the gap between the barn and barn conversion to circle the rear yard area was recorded.



Previously recorded bat activity

There have never been any sightings of bats in or around the farm building, the building does not provide any crevices, cracks or any enclosed voids providing any bat roost potential nor does the interior provide forage potential.

The repositioning of this building will not negatively impact on any local bat population nor will the proposed location of the building affect any existing commute/ forage routes.

All contractors should be made aware of their responsibilities to protected species and work should proceed with due diligence and in the unlikely event that any bats are discovered work must be stopped immediately and a licensed bat worker must be contacted for advice on how to proceed

RISK ASSESSMENT

(The level of probability that bats are using the property is calculated on the evidence found.)

LOW

NOTES:

The precautions below should be incorporated in the unlikely event that any bats are found to be present in the intervening time between surveys and work commencing on site.

When bats are found to be present in a building:

- A NATURAL ENGLAND licence will be required before any building work is undertaken.
- Pointing work should not be undertaken during winter months as hibernating bats might be entombed.
- Work to roof structure should not be undertaken between late May, June, July and August.
- Small areas of wall could be left un-pointed to encourage potential roosting sites.
- Care must be taken when removing existing roof timbers, and any new timbers or treatment of existing timbers must be carried out using chemicals listed as safe for bat roosts.
- NOTE: The onus lies with the applicant to satisfy themselves that no offence will be committed if the development goes ahead.

If bats are ever found during building work, stop work immediately and contact the Bat Conservation Trust or Natural England.

The Bat Conservation Trust
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London SW8 4BG
0845 1300 228

Natural England Cheshire-Lancashire Team
Cheshire-Lancashire Team
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