

**BAT SURVEY AT -
8 BROOKS LANE
WHALLEY**

DATE AND TIME OF VISIT
9th JAN 2023

WEATHER CONDITIONS
Overcast , intermittent drizzle, 12-31 mph westerly wind 5 C

REFERENCE NO. 6194



SURVEY CARRIED OUT BY: LYNNE RUSHWORTH
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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 existing garage prior to constructing a new dwelling.

Impact of development in relation to potential bat habitat:-

Removal of a building.

TYPE OF BUILDING

The building is a detached garage within the curtilage of a dwelling. The garage is approx. 20 years old.



Front west elevation

North 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. All areas accessible.

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 734364 51 m elevation

The garage is located in a large garden approx. 137m East of Clitheroe road (main access road) and within 6m of Brooke's lane. Towards the Eastern edge of Whalley settlement area.



FORAGING POTENTIAL IN THE LOCATION

The location is residential and the garage is surrounded on all sides with other properties of varying periods all having gardens. The vegetation in the immediate vicinity of the house consists of minor domestic trees and shrubs however mature broad leaf trees are present along the rear garden boundary lining the stream providing a reasonable level of roost potential for bats. The trees connect to further tree and hedge lines in the greater locality. The stream adjacent to the boundary is 6m to the south. The area is considered to provide an optimal level of forage and roost potential.



WALL CONSTRUCTION



The walls are natural coursed stone, cavity construction

BAT ACCESS POINTS IN WALLS

The walls and pointing are in excellent condition with no access points, cracks or crevices.

ROOF CONSTRUCTION

The house roof is a pitched tile construction with an overhang at the eaves with a boarded soffit. The fascia's and gable barge boards are timber.



BAT ACCESS POINTS IN ROOF

The tiles, soffits and fascia's are in excellent condition. The abutment of the soffit with the wall is silicon sealed. The tiles are tight fitting with some moss coverage. The timber fascia's and barge boards have no rot or gaps in abutments. There are no access points or crevices for bat ingress in this roof.



ROOF SPACE

The roof space in the garage was accessible via a hatch, the roof was in excellent condition. It was possible to closely examine all the timbers and surfaces within the space. The space was clean with no dropping or feeding evidence found. Bats were not present in the space.



		Yes	No
<u>BAT SIGNS, EXTERNAL</u>	SEEN		X
	DROPPINGS		X
	MAGENTA BAT5 DETECTOR RESULT		X

The external features of the Garage were examined during this scoping survey. The fascia soffits, tiles, stonework and any sills were visually examined for droppings, staining or feeding remains. Nothing was found to indicate bats use this property.

		Yes	No
<u>BAT SIGNS, INTERNAL</u>	SIGHTED		X
	DROPPINGS		X
	DETECTOR RESULTS		X
	STAINING/GREASE MARKS		X
	SUSPECT SUMMER ROOST		X
	SUSPECT WINTER HIBERNACULA		X
	INSECT OR MOTH FEEDING EVIDENCE		X

None of the above evidence was found in the building

CONCLUSION

There are no access points or crevices in this garage to provide any roost potential for bats.

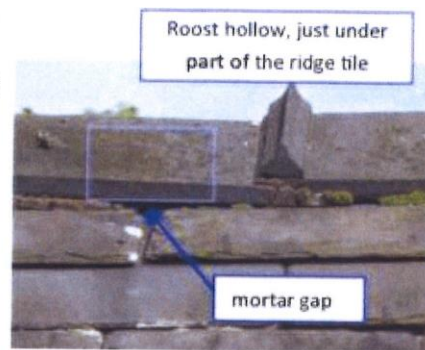
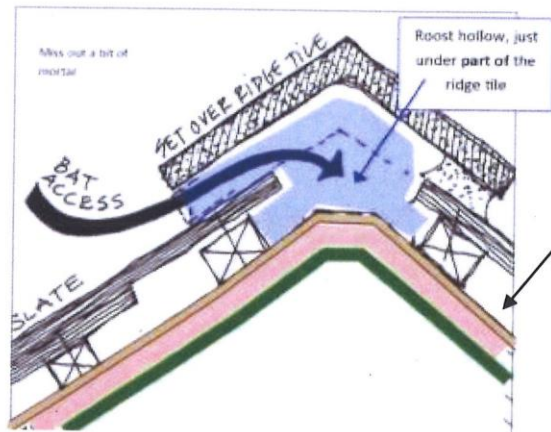
An emergence survey on this garage is not required.

Bats will not be disturbed or exposed during the building works on this property nor will the scale of the development have any negative impact on a local bat population.

Mitigation or timing constraints are not required however as the building is located in an optimal forage area it is an opportunity to enhance the roost potential in the locality. It is therefore suggested that the following enhancement measures are incorporated in the new roof structure.

RECOMMENDED ROOST ENHANCEMENT MEASURES

Access **under ridge tiles** can be achieved with no loss of water-tightness. Small gaps are left out of the mortar of certain ridge tiles and the hollow under the ridge tile is not filled with mortar at these locations, so there is a roost hollow, as shown.



NOTE: It is important that a layer of **bitumen felt** is used under the roost tiles, though breathable membrane can be used elsewhere. Research shows that breathable membranes can be prone to fraying when bats use them for roosting, which is a major hazard to the bats and also degrades the membrane. There is no means of the bats getting into the roof void provide the layers of bitumen and membrane do not have gaps in them.

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
15 Cloisters House
8 Battersea Park Road
London SW8 4BG
0845 1300 228

Natural England Cheshire-Lancashire Team
Cheshire-Lancashire Team
Pier House
Wallgate
Wigan WN3 4AL

LIVING WITH BATS

- **Bats are not rodents**, and will not nibble or gnaw at wood, wires or insulation.
- **Bats do not build nests** and therefore do not bring bedding material into the roost; neither do they bring their insect prey into the roost.
- **All bats in the UK eat insects**, so they are a great form of natural pest control!
- **Bat droppings** in the UK are dry and crumble away to dust. As a result, there are no known health risks associated with them.
- **Female bats usually have only one baby a year**, so properties do not become 'infested'.
- **Most bats are seasonal visitors** to buildings - they are unlikely to live in the same building all year round, although they are loyal to their roosts and so usually return to the same roosts year after year.
- **Bats are clean and sociable animals** and spend many hours grooming themselves.