

# **Bat Survey of Ryes Farm Barn Gosbeck**

**On behalf of:**

**Mr & Mrs Tim Owens  
Ryes Farm  
Pettaugh Lane  
Gosbeck  
Suffolk  
IP6 9SF**

**Prepared by:**

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## 1) Summary

As part of a planning proposal involving a barn at Ryes Farm, Pettaugh Lane, Gosbeck, Suffolk IP6 9SF, a site visit was conducted on 1<sup>st</sup> March 2023 to determine whether the building had been used by bats.



**Photo 1:** Southern (gabled) and western elevations. The proposal is to convert to residential use

The survey building is a detached, brick barn with a felted pantile roof. Both gable walls have wooden cladding, with the building being aligned approximately N-S. The survey found that the ground floor was open to the west, with the bays used for storage. The sections had no features that might be occupied by bats and the ceiling was formed from the boards and joists supporting the upper floor. A secure storage shed at the north-western corner also had no evidence of the presence of bats. The upper floor is open to the roof and accessed via a staircase in the north-western part of the barn. The top floor receives daylight illumination via a large window in the northern wall, a missing window (partly boarded up – see Photo 1) in the southern wall and also via a transparent panel in the western slope of the roof. In such conditions, bats seek out dark areas or crevices in which to roost and the lack of such features in the walls and beams meant that the building was less suitable as a roosting place for bats. In addition, the roof was of a cluttered construction with many cobwebs on the beams. Again, these are conditions that are usually unsuitable for roosting by bats and no

evidence of their presence was found on the upper floor of the building. Externally, there were no crevices on the external walls that might offer potential roosting places for bats.

There is no vegetation affected by the project that has crevices, loose bark or woodpecker holes that might be colonised by bats. **No** evidence of their presence was found at this site.

The lack of potential roosting places and absence of any evidence of the presence of bats means that **no** further surveys are required for this building. It is considered that the building had **negligible potential** as a roosting place for bats.

Since there was no evidence of bats at the site, a European Protected Species Licence will **not** be required for this project.

Although no evidence of bats was found, it is probable that bats from nearby roosts will forage across the site. This behaviour would be expected to continue after any building work has been completed and therefore it is considered that the planning proposal for this site will not have a detrimental effect on the local bat population.

Please note that this survey records the status of the building at the time of the survey. However, if more than a year were to elapse before the start of the building work, it is considered unlikely, due to the lack of potential roosting places, that bats would colonise the site during the intervening period.

## 2) Introduction

Essex Mammal Surveys were requested to carry out a survey of a barn at Ryes Farm, Gosbeck to investigate for signs indicating the presence of bat colonies and their roosts. The identification of protected species is vital in the proposed development of a site to comply with existing legislation and also allows any work that may otherwise be detrimental to bats to be appropriately scheduled. John Dobson, a bat worker and trainer licensed by Natural England (Licence No. 2015-15258-CLS-CLS) and author of *Mammals of Essex* (Essex Field Club, 2014), carried out the survey on 1<sup>st</sup> March 2023. John Dobson has been elected a Fellow of the British Naturalists' Association and received the David Bellamy Award for natural history in 2015. The site is located at Grid Reference: TM169569.

This report has been compiled in accordance with the Bat Conservation Trust's *Bat Survey Guidelines for Professional Ecologists: Good Practice Guidelines*.

Ref: Collins, J. (ed.) (2016) *Bat Surveys for Professional Ecologists: Good Practice Guidelines* (3rd edn). The Bat Conservation Trust, London.

However, the first page of all three editions includes the following: *The guidelines should be interpreted and adapted on a case-by-case basis according to site-specific factors and the professional judgement of an experienced ecologist. Where examples are used in the guidelines, they are descriptive rather than prescriptive.*

### 3) Legislation and planning policy relating to bats in the UK

All bat species in Britain are protected under the Wildlife and Countryside Act 1981 through inclusion on Schedule 5. They are also protected under the Conservation (Natural Habitats &c.) Regulations 1994 (which were issued under the European Communities Act 1972), through inclusion on Schedule 2. From January 31<sup>st</sup> 2020 these Regulations were consolidated into the Conservation of Habitats and Species (Amendment) (EU exit) Regulations 2019.

European protected animal species and their breeding sites or resting places are protected under Regulation 39. It is an offence for anyone to deliberately capture, injure or kill any such animal or to deliberately take or destroy their eggs. It is an offence to damage or destroy a breeding or resting place of such an animal. It is also an offence to have in one's possession or control, any live or dead European protected species.

The threshold above which a person will commit the offence of deliberately disturbing a wild animal of a European protected species has been raised. Now, a person will commit an offence only if he deliberately disturbs such animals in a way as to be likely significantly to affect (a) the ability of any significant groups of animals of that species to survive, breed, or rear or nurture their young, or (b) the local distribution of abundance of that species. However, please note that the existing offences under the Wildlife and Countryside Act (1981) as amended which cover obstruction of places used for shelter or protection (for example, a bat roost), disturbance and sale still apply to European protected species.

This legislation provides defences so that necessary operations may be carried out in places used by bats, provided the appropriate Statutory Nature Conservation Organisation (in England this is Natural England) is notified and allowed a reasonable time to advise on whether the proposed operation should be carried out and, if so, the approach to be used. The UK is a signatory to the Agreement on the Conservation of Bats in Europe, set up under the Bonn Convention. The Fundamental Obligations of Article III of this Agreement require the protection of all bats and their habitats, including the identification and protection from damage or disturbance of important feeding areas for bats.

Paragraph 98 of Circular 06/2005 states that *'the presence of a protected species is a material consideration when a planning authority is considering a development proposal that, if carried out, would be likely to result in harm to the species or its habitat'*.

Section 15 of the National Planning Policy Framework 2018 (NPPF) states that *'the planning system should contribute to and enhance the natural and local environment by ....minimising impacts on and providing net gains for biodiversity....'*

Since August 2007, building development that affects bats or their roosts needs a Protected Species Licence under The Conservation (Natural Habitats &c.) (Amendment) Regulations 2007 administered in England by Natural England.

#### 4) Methods

The exterior surfaces of the building were examined for any signs of use as bat roosts, such as the presence of droppings on walls, windows or staining around roost entrances. The use of a crevice by a colony of bats produces droppings on brickwork and adjacent surfaces close to the crevice, together with an accumulation of droppings beneath the roost entrance. However, upon examination, many surfaces will have one or two droppings, randomly placed, caused by bats seeking out new roost sites.

The internal survey was conducted using a powerful torch. The roof of the building was searched for evidence of roosting, the floor areas for droppings and the beams for crevices and staining indicative of the presence of roosting bats. An Xtend & Climb Pro Ladder and a ProVision 300 endoscope were available to inspect crevices in brickwork and around beams.

#### 5) Results

The survey building is a detached, brick barn with a felted pantile roof. Both gable walls have wooden cladding, with the building being aligned approximately N-S. The survey found that the ground floor was open to the west, with the bays used for storage. The sections had no features that might be occupied by bats and the ceiling was formed from the boards and joists supporting the upper floor. A secure storage shed at the north-western corner also had no evidence of the presence of bats. The upper floor is open to the roof and accessed via a staircase in the north-western part of the barn. The top floor receives daylight illumination via a large window in the northern wall, a missing window (partly boarded up – see Photo 1) in the southern wall and also via a transparent panel in the western slope of the roof. In such conditions, bats seek out dark areas or crevices in which to roost and the lack of such features in the walls and beams meant that the building was less suitable as a roosting place for bats. In addition, the roof was of a cluttered construction with many cobwebs on the beams. Again, these are conditions that are usually unsuitable for roosting by bats and no evidence of their presence was found on the upper floor of the building. Externally, there were no crevices on the external walls that might offer potential roosting places for bats.



**Photo 2:** Southern elevation



**Photo 3:** Eastern elevation



**Photo 4:** Northern elevation



**Photo 5:** Western elevation. Note tight seal to roof tiles



**Photo 6:** The wood store had no features that might be occupied by bats



**Photo 7:** The open-fronted store had no features that might be occupied by bats



**Photo 8:** The ground floor ceiling had no features that might be occupied by bats





**Photo 9:** The shed at the NW end had no features that might be occupied by bats



**Photo 10:** Showing cobwebs on wall of secure shed



**Photo 11:** The staircase to the upper floor



**Photo 12:** Looking southwards on upper floor. Note cluttered roof structure



**Photo 13:** Looking northwards. Note lack of evidence of bats on floor



**Photo 14:** Note cobwebs on rafters



**Photo 15:** Note cobwebs on rafters



**Photo 16:** Note tight seal to cladding

There is no vegetation affected by the project that has crevices, loose bark or woodpecker holes that might be colonised by bats.

No evidence of their presence was found at this site.

## 6) Discussion

Bats are inquisitive, highly mobile animals, which constantly investigate their surroundings, evaluating good feeding areas and potential roosting opportunities. Where suitable habitat

such as woodland, woodland edge or sheltered pasture occurs, bats will travel up to several kilometres to take advantage of this resource. To reach favoured sites, small bats will follow linear landscape features such as hedgerows, streams and lanes etc. The absence of such features can make an otherwise suitable site inaccessible to bats. In addition, new roosts will become established in such areas - examples being the rapid colonisation of artificial roost boxes placed in conifer forests or the occupation of new houses by nursery colonies of pipistrelle bats within a year or two of their completion.

Since there was no evidence of bats at the site, a European Protected Species Licence will **not** be required for this project.

Although no evidence of bats was found, it is probable that bats from nearby roosts will forage across the site. This behaviour would be expected to continue after any building work has been completed and therefore it is considered that the planning proposal for this site will not have a detrimental effect on the local bat population.

Please note that this survey records the status of the building at the time of the survey. However, if more than a year were to elapse before the start of the building work, it is considered unlikely, due to the lack of potential roosting places, that bats would colonise the site during the intervening period.

## 7) Recommendations for reasonable biodiversity enhancements

**1:** It is recommended that the existing gaps along the site boundaries are retained to allow hedgehogs and common toads to forage across the site as, potentially, at present. However if any boundary fences are to be introduced, see below:

**A gap 13cm by 13cm is sufficient for any hedgehog to pass through. This will be too small for nearly all pets.**

Hedgehogs travel around **one mile** every night through our parks and gardens in their quest to find enough food and a mate. If you have an enclosed garden this can prevent hedgehogs from dispersing throughout their territory. It is now known that one of the main reasons why hedgehogs are declining in Britain is because our fences and walls are becoming more and more secure, reducing the amount of land available to them. Developers can make their life a little easier by removing the barriers within their control – for example, by making holes in or under our garden fences and walls for them to pass through.



**Photo 17:** Hedgehog pathway at base of fence

Alternatively:

- Remove a brick from the bottom of the wall
- Cut a small hole in your fence if there are no gaps
- Dig a channel underneath your wall, fence or gate

**2:** Two bird nesting boxes to be sited on trees or buildings at Ryes Farm.

**3:** A Hedgehog nesting box to be sited at base of a boundary hedge.

**4:** Two solitary bee hives to be erected at the site.

A range of designs are commercially available, but they may be manufactured from durable FSC timber and provide valuable habitat for bees in modern gardens. They are designed specifically to attract non-swarming bees like the Red Mason Bee, Leafcutter Bee and other solitary bees which are naturally attracted to holes in wood.



**Photo 18:** Solitary bee hive

Attracting solitary bees to the garden is not only safe, but beneficial to pollination of flowers, fruit and vegetables.

**Siting:** Site in a visible warm place ideally oriented to face between southeast and south and to catch some sun. It is helpful to have soil nearby, and food sources such as flowers, orchards and fruit.