Protected Species Survey Report for Hillcrest, Dordale Road, Bourneheath, B61 9JT





Cotswold Wildlife Surveys

22nd October 2023

QUALITY CONTROL

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The information in this report has been prepared in accordance with the Chartered Institute of Ecology and Environmental Management's (CIEEM) Code of Professional Conduct. The conclusions and recommendations expressed are reasoned judgements based on the evidence.

Every reasonable attempt has been made to comply with BS42020:2013 *Biodiversity* – *Code of practice for planning and development, CIEEM Guidelines for Ecological Report Writing* (CIEEM, 2017) and Bat Conservation Trust's *Bat Surveys for Professional Ecologists: Good Practice Guidelines* (4th edition, Collins, 2023). If there has been deviation from recognised practice, justification/explanation has been given.

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SUMMARY

At Hillside on Dordale Road in Bournheath, planning permission is being sought to relocate the existing ancillary accommodation.

As this could impact on features typically used by bats as roosting places, a diurnal inspection was undertaken on 22^{nd} October 2023 to assess the building for signs of bat occupation.

All the internal and external structures, especially those associated with the roof and walls of the building were examined.

No signs of bat activity or occupation were found, and the suitability for roosting pipistrelles *Pipistrellus sp* or other bat species was considered to be negligible. There were a few external gaps, but these were carefully inspected and were found to be heavily cobwebbed and were clearly not being used by bats.

At the time of the survey the building was not identified as a bat roost and as such, no further surveys or mitigation measures will be required.

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The area to which the ancillary accommodation is to be relocated was also checked for signs of protected species. This was a lawn comprised entirely of close mown amenity grass.

In terms of other species, no old or in use birds' nests were noted, although there was some potential nesting in the boundary trees and hedgerows. However, these will not be impacted on by the proposed works.

The construction site itself was considered unsuitable for reptiles and amphibians, as there were no permanent still water or other wetland features, no suitable basking areas, very limited foraging opportunities and no refugia or hibernacula. As such, their presence on the site was considered highly unlikely.

Furthermore, there were no ponds within 250 metres of the survey area shown on the Ordnance Survey map.

No evidence of Badgers Meles meles or any other mammals was found.

1. INTRODUCTION

In October 2023, Cotswold Wildlife Surveys was instructed by Kan Cheema, to undertake a protected species survey of Hillcrest on Dordale Road in Bournheath.

On 22nd October 2023, a visit was made to the property to carry out a diurnal inspection of the ancillary accommodation to check for signs of bat occupation. A walkover of the area where the new building will be constructed was also undertaken to check for evidence of other protected species.

The result of the survey is contained in this report.

In England, Scotland and Wales, all bat species are fully protected under the Wildlife and Countryside Act 1981 (WCA) (as amended), through inclusion in Schedule 5. In England and Wales this Act has been amended by the Countryside and Rights of Way Act 2000 (CRoW) and the Natural Environment and Rural Communities Act 2006 (NERC), which add an extra offence, makes species offences arrestable, increases the time limits for some prosecutions, and increases penalties.

All bats are also included in Schedule 2 of the Conservation (Natural Habitats, & c.) Regulations (the Habitats Regulations), which defines 'European protected species of animals'. In England this is the Conservation of Habitats and Species Regulations 2010, in Scotland the Habitat Regulations 1994 (as amended), and in Northern Ireland the Conservation Regulations 1995.

All bats are also protected under the Bern Convention Appendix II, the Bonn Convention Appendix II, and the Wild Mammals (Protection) Act 1996.

The above legislation can be summarised thus (Mitchell-Jones and McLeish, 2004):

- □ Intentionally or deliberately kill, injure or capture (or take) bats;
- Deliberately disturb bats (whether in a roost or not);
- **D** *Recklessly disturb roosting bats or obstruct access to their roosts;*
- Damage or destroy roosts;
- Descess or transport a bat or any part of a part of a bat, unless acquired legally;
- □ Sell (or offer for sale) or exchange bats, or parts of bats.

The word 'roost' is not used in the legislation, but is used here for simplicity. The actual wording is 'any structure or place which any wild animal...uses for shelter or protection' (WCA), or 'breeding site or resting place' (Habitats Regulations).

As bats generally have both a winter and a summer roost, the legislation is clear that all roosts are protected whether bats are in residence at the time or not.

Badgers are protected in Britain by the Protection of Badgers Act 1992. The purpose of this Act is to protect the animals from deliberate cruelty and from the incidental effects of lawful activities which could cause them harm.

Under this legislation it is an offence to:

- Wilfully kill, injure, take, possess or cruelly ill-treat a Badger, or attempt to do so;
- □ Interfere with a sett by damaging or destroying it;
- □ Obstruct access to, or any entrance of, a Badger sett;
- Disturb a Badger when it is occupying a sett.

Note that if any of the above resulted from a person being *reckless*, even if they had no intention of committing the offence, their action would still be considered an offence.

A person is not guilty of an offence if it can be shown that the act was 'the incidental result of a lawful operation and could not have been reasonably avoided'; only a court can decide what is 'reasonable' in any set of circumstances.

Penalties for offences under this legislation can be up to six months in prison and a fine of up to $\pounds 5,000$ for each offence.

A Badger sett is defined in the Act as 'any structure or place which displays signs indicating current use by a Badger'. This can include culverts, pipes and holes under sheds, piles of boulders, old mines and quarries, etc.

'Current use' does not simply mean 'current occupation' and for licensing purposes it is defined as 'any sett within an occupied Badger territory regardless of when it may have last been used'. A sett therefore, in an occupied territory, is classified as in current use even if it is only used seasonally or occasionally by Badgers, and is afforded the same protection in law.

In Britain, all wild **birds**, their nests and eggs are protected under the Wildlife & Countryside Act 1981(as amended), with the Countryside and Rights of Way Act 2000 extending this protection. There are penalties for:

- □ *Killing, injuring or capturing them, or attempting any of these;*
- **D** Taking or damaging the nest whilst in use;
- **D** Taking or destroying the eggs.

Schedule 1 species carry special penalties and it is an offence to even disturb these near the nest.

All common **reptiles** (Common Lizard *Zootoca vivipara*, Grass Snake *Natrix natrix*, Slow-worm *Anguis fragilis* and Adder *Vipera berus*) are afforded legal protection under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended) largely as a consequence of a national decline in numbers associated with persecution and habitat loss. Under the terms of the Act it is illegal to intentionally kill or injure a reptile.

There is no special protection afforded to the four commoner species of **amphibian** (Common Frog *Rana temporaria*, Common Toad *Bufo bufo*, Smooth Newt *Lissotriton vulgaris*, Palmate Newt *L. helvetica*).

However they are subject to a very limited degree of protection under Section 9(5) of the Wildlife and Countryside Act 1981.

This means that the sale, transportation or advertising for sale for these species is prohibited. Consequently catching them or keeping them as pets, or even killing them is not prohibited (subject to the controls relating to animals welfare).

Great Crested Newts are protected under Schedule 5 of the Wildlife & Countryside Act (1981) as amended, and Schedule 2 of the Conservation (Natural Habitats, etc.) Regulations 1994 (Regulation 38).

As a result of their rarity across Europe, they are also protected under Annexes IIa and IVa of the Habitats and Species Directive, and under the Berne Convention (the Convention on the Conservation of European Wildlife and Natural Habitats).

The above legislation can be summarised thus (Langton *et al*, 2001):

- □ Intentionally or deliberately capture or kill, or intentionally injure Great Crested Newts;
- Deliberately disturb Great Crested Newts or intentionally or recklessly disturb them in a place used for shelter or protection;
- Damage or destroy a breeding or resting place;
- □ Intentionally or recklessly damage, destroy or obstruct access to a place used for shelter or protection;
- Description Possess a Great Crested Newt, or any part of it, unless acquired lawfully;
- **Sell**, barter, exchange or offer for sale Great Crested Newts or parts of them.

2. METHODOLOGY

2.1 Badgers

Badgers are generally nocturnal and evidence of their presence in an area often comes from field signs rather than sightings of the animals. Useful field signs include:

- □ Setts (main, outlying, annex or subsidiary);
- □ Tufts of hair caught on barbed wire fences;
- Conspicuous Badger paths;
- □ Footprints;
- □ Latrines small excavated pits in which droppings are deposited;
- □ 'Snuffle holes' small scrapes where Badgers have searched for insects and plant tubers;
- Day nests bundles of grass and other vegetation where Badgers may sleep above ground;
- □ Scratch marks on trees (usually near the sett).

Daytime surveys looking for field signs can be carried out at any time of the year, and should be non-intrusive, but nocturnal surveys of setts (if required), are only likely to be effective from April to November, when Badgers are most active, and any cubs present will have emerged

2.2 Bats

In order to fully assess bat occupation of a particular site, the Bat Conservation Trust (2023) recommends that information gathered from a desk study of known bat records, and a daytime site walkover, is used to inform the type and extent of future bat survey work, potentially including nocturnal emergence surveys.

The preliminary roost assessment (PRA) is usually in the form of a diurnal walkover and can be carried out at any time of the year. It provides an opportunity to check for signs of bat occupancy and/or the suitability for bat roosting.

Evidence of bat activity includes droppings, scratch marks, feeding remains, carcasses, or even roosting animals, whilst suitability is determined by the type and number of potential roost features (PRFs) typically used by bats.

Roosting places vary depending on the species. Pipistrelles usually inhabit narrow cracks or cavities around the outside of buildings, but they will roost in similar niches inside larger barns. Typical sites include soffit spaces, gaps behind fascia boards and end rafters, crevices around the ends of projecting purlins, under warped or lifted roof and ridge tiles, or in gaps in stone and brickwork where mortar has dropped out.

Larger species such as Brown Long-eared Bats *Plecotus auritus*, Myotis bats (Natterer's *Myotis nattereri* and Whiskered/Brandt's *M. mystacinus/M. brandtii*), and Lesser Horseshoes *Rhinolophus hipposideros*, like to roost in the roof voids of buildings, and can often be found hanging singly or in small groups from ridge boards or roof timbers, especially where these butt up against gable walls or chimney breasts.

They especially favour older structures with timber frames. Here they squeeze into tight crevices making them difficult to observe.

Where bats are found, or there is evidence of bat occupation or activity, i.e. that bat use is confirmed, a roost characterisation survey is undertaken. The results are used to inform the impact assessment and design of mitigation measures. Roost characterisation includes nocturnal emergence surveys, unless sufficient information has already been collected using robust survey methods with no significant constraints.

Nocturnal emergence surveys allow numbers and species of bats to be confirmed, and should only be undertaken when bats are out of hibernation and in their summer roosts.

The bat active period is generally considered to be between April and October, although particularly cold weather will affect the level and extent of bat activity. Indeed, the air temperature at the start of each survey should be at least 10°C or above, with no strong wind or heavy rain. The survey starts 15 minutes before sunset and continues for one and a half to two hours after sunset.

Visits will be a minimum of three weeks apart, and the number of surveys and timing is dependent on the evidence found or the suitability of the site to bats. This will be determined by the ecologist. In general, at least two emergence nocturnal surveys will be carried out, but a third visit may be necessary if the results are inconclusive or further information is required.

Nocturnal emergence surveys are also used to determine the presence or absence of bats, where signs of bat activity are indeterminate or absent but the suitability for bat roosting is considered to be low, moderate or high.

For a site with no evidence but low suitability, just one nocturnal emergence survey is required, this to be in the period May to August.

For moderate suitability a minimum of two visits are needed between May and September, of which one must be in the period May to August.

With high suitability, three visits will be necessary between May and September, of which two must be in the period May to August.

Where there is no evidence of bat presence, and no suitability for roosting, no nocturnal surveys will be needed.

The number of surveyors and/or the use of night vision aids (NVAs) is determined by the ecologist, and is dependent on the complexity of the structure. For simple structures just one surveyor using an appropriate number of NVAs will be sufficient, but for larger sites and/or more complex or irregularly shaped structures, e.g. those with multiple elevations and/or roof slopes, more surveyors will be required.

On 22nd October 2023, a thorough inspection of the ancillary accommodation was made by Andy Warren (Natural England bat licence No. 2015-16489-CLS-CLS), including the exterior and interior walls, roof covering, eaves, verges, window casements and door frames. 10x42 Nikon binoculars and a Fenix TK75 torch were used for the inaccessible/unreachable areas. On this occasion an endoscope was not used, as there were no crevices and cavities that could not be inspected with a torch or by use of binoculars.

2.3 Birds

Most resident and migrant birds breed in the spring and summer, although Woodpigeons *Columba palumbus* and Collared Doves *Streptopelia decaocto* nest throughout the year, and as a result could be on eggs in almost any month.

In season, signs of breeding include singing males, display and copulation, birds gathering nesting materials, adults carrying food, calling chicks, etc.

In winter none of these activities may be occurring, so a survey for old nests and/or nest holes is the most reliable method of determining the presence or absence of breeding birds. Such a survey was carried out at the site on 22^{nd} October 2023.

2.4 Reptiles & amphibians

Commoner reptiles which may be encountered in rural areas include Grass Snake, Slow-worm, and Common Lizard.

During the winter months, from mid-October to late February or early March, they are in hibernation, usually deep in underground hibernacula, such as holes and cracks in the ground, among rocks or the roots of large trees, down animal burrows, or in piles of rubble or stone.

In the spring and summer they live above ground in well-vegetated places, with Grass Snakes often near or in water. Being cold-blooded all reptiles like to bask, and can often be found in open places.

There are very few signs of reptile presence, but these include:

- □ Shedded skin (snakes);
- **□** Eggs (but not Common Lizard which gives birth to live young).

A survey for Great Crested Newts may be indicated when background information on distribution suggests that they may be present. More detailed indicators are:

- □ Any historical records of Great Crested Newts on the site or in the general area;
- □ A pond on or near the site (within around 500 m), even if it holds water only seasonally;
- □ Sites with refuges (such as piles of logs or rubble), grassland, scrub, woodland or hedgerows within 500 m of a pond.

There are several field survey methods which can be employed depending on the time of year:

□ Bottle or funnel trapping – adults ideally February to May, with June and July sub-optimal, and August to September for detection of larvae (i.e. young);

- □ *Egg search April to June ideally, with March and July sub-optimal;*
- □ Torch survey March to May for adults, with February and June to July suboptimal, and August to September for larvae;
- Netting March to May for adults, with February and June to July sub-optimal, and August to September for larvae;
- Pitfall trapping March to May and September for adults, with February, June to August and October sub-optimal;
- □ Refuge search April to September ideally, with March and October suboptimal.

The latter two methods involve terrestrial habitats, the others aquatic habitats, for which a minimum of 4 visits per year are recommended, with at least 2 visits between mid-April and mid-May to record peak numbers (English Nature, 2001).

None of these techniques were used, as there was nothing to suggest that newts would be present.

2.5 Habitat Survey

A general appraisal of the habitats present was carried out. This was conducted using standard JNCC (2003) techniques and methodologies, and included a walkover of the whole site.

*

The result of the survey is detailed in Section 3.

3. **RESULTS**

3.1 Desk Study

In view of the small scale of the proposed works, the likely low impact on bats, and in line with current guidance on accessing and using biodiversity data (CIEEM, 2016), a background data search was not carried out in this case.

However, two European Protected Species licences for bats issued by Natural England are present within 2.0 km:

- 2016-25042-EPS-MIT 1.8 km west for Common Pipistrelle Pipistrellus pipistrellus;
- □ 2020-44589-EPS-MIT 1.9 km north for Common Pipistrelle.

3.2 Location

Bournheath is a village located approximately 3.5 km northwest of Bromsgrove town centre. Dordale Road runs northwest out of the village, with Hillcrest situated on the north side of the road at Ordnance Survey Grid Reference SO 94311 74347 (Appendix 1).

3.3 Site Description

The site comprised a flat roofed ancillary accommodation building (Figs. 1 and 2).



Figs. 1 & 2 Ancillary accommodation

The area in which the building is to be relocated was comprised entirely of amenity grassland which was closely mown (Figs. 3 and 4).

The site was set on the edge of a village in a rural area, surrounded by pastoral farmland with a large block of woodland 240 metres west.



Figs. 3 & 4 Survey area

The layout of the site is shown in the aerial photograph in Appendix 2.

3.4 Building Survey

The daytime inspection was carried out on 22^{nd} October 2023, commencing at 10:00. The weather conditions during the time of the survey were recorded and are presented in Table 1 below.

Parameter	Value
Temperature (°C)	15.0
Cloud cover (%)	100
Precipitation	None
Wind speed (Beaufort scale)	0

Table 1 Weather conditions during the diurnal survey

The flat roof was covered with tarred felt which appeared to be in good condition (Figs. 5 and 6). There were brick parapet walls at each end of the building.





Figs. 5 & 6 Roof

There was a wide overhang to the front of the building, which was lined with timber boards (Figs. 7 and 8). These were tightly fitting, with no gaps.



Figs. 7 & 8 Overhang to the front

Along the rear was a timber fascia board which had several small gaps behind, but these were found be thickly cobwebbed (Figs. 9 and 10).



Figs. 9 & 10 Eaves

At the eastern end of the building was a small lean-to with a clear Perspex roof which was tightly joined to the brick wall (Figs. 11 and 12).



Figs. 11 & 12 Lean-to

The window casements and doorframes were all tightly fitting, whilst the brickwork was sound throughout.

Internally the building was fully boarded out and decorated, with no roof void (Figs. 13 and 14).



Figs. 13 & 14 Interior of building

3.5 Badgers

No evidence of Badgers was found in or around the site.

3.6 Birds

No old or in use birds' nests were found, although the boundary trees and hedgerow were considered to be suitable for nesting purposes. However, these will not be impacted on by the proposed development.

3.7 Reptiles and amphibians

The construction site (Ref. Figs. 3 and 4 and Figs. 15 and 16) was considered unsuitable for reptiles and amphibians, as there were no permanent still water or other wetland features, no suitable basking areas, very limited foraging opportunities and no refugia or hibernacula. As such, their presence on the site was considered highly unlikely.

Furthermore, there were no ponds within 250 metres of the survey area shown on the Ordnance Survey map.



Figs. 15 & 16 Survey site

3.8 Other species

No other species of interest were recorded.

4. CONCLUSIONS AND RECOMMENDATIONS

Bats tend to be seasonal visitors to properties, and are not usually in occupation all year round. The females normally form maternity colonies during May or June and then leave for adjacent trees and/or woodland during July or August once the young bats are able to fly and become independent. Here they will spend the winter months in hibernation before returning to the house or barn the following spring.

Male bats generally live alone and have a number of favoured roosts. During the summer they visit each of these for a few days at a time, before moving to their chosen hibernation site in mid-late October.

Different species have different habits, but this seasonal movement is common to all.

Bats choose their roosts carefully. During the summer they look for sites which are warmed by the sun, and as a result are most often found on the south and western side of buildings.

Pipistrelles, our smallest and commonest bats, prefer to roost in very confined spaces around the outside of buildings, typical places being behind hanging tiles, weather boarding, soffit, barge and eave boarding, between roof felt and roof tiles or in cavity walls.

As such they can be difficult to find, so the suitability for roosting was also assessed.

This was considered to be negligible, since although there were some gaps around the outside of the ancillary accommodation, these were found to be thickly cobwebbed and were clearly not being used by bats.

Another bat frequently encountered in buildings is the Brown Long-eared. This is also a common species, but unlike pipistrelles, they prefer the dry, warm space of the loft or roof void, and can often be found hanging from roof timbers, especially rafters and the ridge board next to chimney breasts.

No evidence of Brown Long-eared Bats, or signs of any other bat species which commonly use buildings, were found, and the interior of the building was considered unsuitable for roosting bats.

At the time of the survey the building was not identified as a bat roost and as such, no further surveys or mitigation measures will be required.

*

No old or in use birds' nests were found on the site, although the boundary trees and hedgerows were potentially suitable for nesting purposed.

Since all in-use bird's nests and their contents are protected from damage or destruction, any tree and shrub removal or works to structures which affect birds, should be undertaken outside the period 1st March to 31st August inclusive.

If this time frame cannot be avoided, a close inspection of the trees and shrubs to be removed or building works undertaken, will be carried out prior to clearance.

Work will not take place within a minimum of 5.0 metres of any in-use nest, although this distance could be more depending on the sensitivity of the species. Any in-use nest will be allowed to fledge before it is disturbed.

Although no evidence of reptiles or amphibians was found, and they are considered to be absent, the potential for small mammals to be present on site exists, and thus care will be taken at all times during any vegetation removal and topsoil stripping. Any small mammals disturbed or uncovered should either be caught by hand and relocated to a safe area, or left to vacate the work site in their own time.

Finally, it should be noted that open trenches could potentially trap wildlife, especially if these fill up with water. Escape routes will therefore be provided if trenches cannot be infilled immediately. These can be in the form of branches or boards placed on the bottom of the trench, with their upper ends above ground level and touching the sides, or sloping ends left in trenches.

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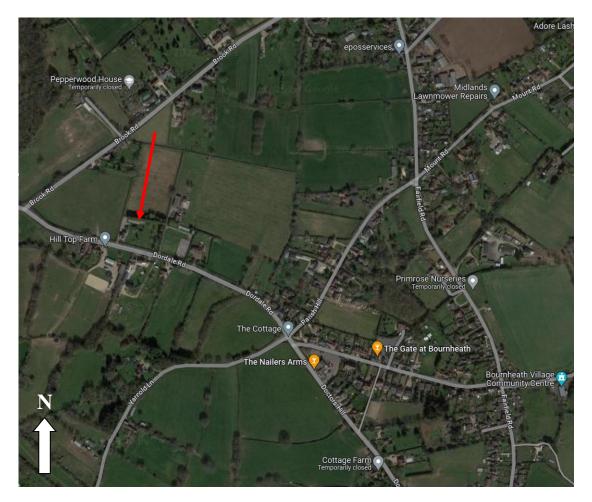
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APPENDICES

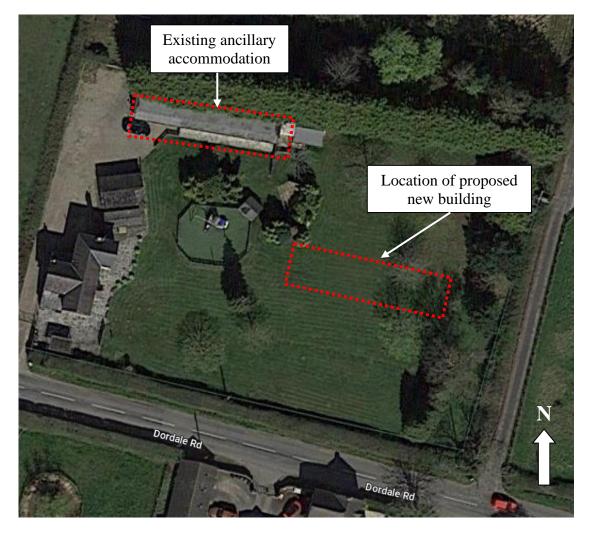
Appendix 1: Location plan

Appendix 2: Site layout



Appendix 1: Location plan

Hillcrest, Dordale Road, Bournheath



Appendix 2: Site layout

Hillcrest (Note – the trees and shrubs shown within the lawn on this image are no longer present)

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To: Kan Cheema

Report Number: 4615-CWS-01

Version: 01

Date: 9th November 2023