

Urban Tree Experts

BS5837 – Tree Surveys – Ecological Consulting

PRELIMINARY ECOLOGICAL APPRAISAL (BATS) AT 1 DIAMOND VILLAS HURST



**Prepared for:
Mr K Townsend
1 Diamond Villas
The Street
Hurst
Reading
RG10 0DG**

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The validity of this report ceases at the prescribed time limit or after 12 months from the site inspection, or if the site conditions change due to unspecified works that affect the site whichever is the sooner.



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Executive Summary

Urban Tree Experts was commissioned by Mr K Townsend to conduct a preliminary ecological appraisal (bats) of 1 Diamond Villas, The Street, Hurst, Reading, RG10 0DG. This is to support a forthcoming planning application to Wokingham Borough Council.

The site visit was carried out on Friday 5 March 2021 at 10.30hrs, during daylight hours. An external inspection of the property took place, to look for signs of bats.

The preliminary ecological appraisal (bats) comprised a detailed search of the exterior of the house for bats, signs of bats and features suitable for use by roosting bats. This includes droppings, scratch marks, rubbing and staining at exit holes, live or dead bats and other features such as missing tiles, this list is not exhaustive.

The desk top study revealed that three statutory designated sites and two current European Protected Species Licences (EPSLs) for bats have been granted within a 2km search radius of the proposed development site.

Externally, there was no evidence of bats (current or historically) within the property. The building is in a good condition and there were no visible roosting opportunities or access points into the building which could be utilised by bats.

Due to the absence of roosting potential and the lack of evidence of bats found during the detailed inspection, it is concluded that there is negligible potential for roosting bats to be present. Based on the recommendations in the Bat Workers Manual and the Bat Surveys Good Practice Guidelines prior to works, no further survey effort is required.



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1. Introduction

1.1 Instruction

Urban Tree Experts was instructed by Mr K Townsend to conduct a preliminary ecological appraisal of 1 Diamond Villas, The Street, Hurst, Reading, RG10 0DG to support a forthcoming planning application to Wokingham Borough Council.

1.2 Aims and Objectives

The preliminary ecological appraisal (bats) is designed to:

- Identify the presence/likely absence of bats within the building.
- Provide information on the status of bats using the building (currently or previously).
- To add confidence where no bats are found, or to categorise the nature of a roost where evidence of bats are found.
- To establish whether further surveys, mitigation or an EPSL is required.

The preliminary ecological appraisal (bats) and report writing were carried out in accordance with Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd edition, Bat Conservation Trust, 2016).

1.3 Proposed Works

The survey was commissioned in connection with a future planning application to Wokingham Borough Council that will seek to construct a new terraced house onto a plot of land adjacent to the current terraced building.

1.4 Surveyor Background and Experience

The preliminary ecological appraisal for bats was completed by Emma Turnbull and the report was written by Simon Holmes CEnv. Emma holds a Class 2 Bat Licence (CLS-41628) and has been surveying bats for four years. She has received training in surveying techniques, bat detector use, echolocation analysis and bat biology and identification.

Simon holds Class 3 (CL19) and 4 Bat (CL20) Licenses (Nos. 17637 and 17638) and a Science and Education license (SCI29096). He has 31 years' experience of carrying out bat surveys and bat conservation work.

2. Legislation and Planning Policy

2.1 Legislative Background

All species of British bat are protected under the Conservation of Habitats and Species Regulations 2017 and the Wildlife and Countryside Act 1981, as amended. Under this legislation it is an offence to kill or injure a bat or interfere with any roosting or resting site. A bat roost is interpreted as "*any structure or place used for shelter or protection*" whether or not bats are present at the time. A summary of the main legislation and planning considerations are included at Appendix 1.

Seven species of bat are also Species of Principal Importance for nature conservation in England under Section 41 of the Natural Environment and Rural Communities Act 2006. This places a duty on all government departments to have regard for the conservation of these species and on the Secretary of State to further, or promote others to further, the conservation of these species.



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3.2 Site Description

The application site comprises an end of terraced property. The remainder of the site comprises a side garden, which is used for parking, and a rear garden, which is mainly laid to lawn with some shrubs and hedgerows mostly around the boundaries, see Figure 3 below. The site itself offers limited foraging and commuting habitat for bats.

Figure 3. Rear garden. 1 Diamond Villas, The Street, Hurst. 05.03.21



4. Survey Methodology

4.1 Pre-Survey Data Search

Google Earth and MAGIC maps (magic.defra.gov.uk) websites were used prior to the survey to determine the suitability of the surrounding habitat to support roosting bats and to identify any statutory designated sites within 2km of the site.

The site is situated in the village of Hurst and is the end of a row of three terraced houses. The property is set on a main road and is surrounded by properties and garden of differing styles and sizes. Large areas of farmland as well as pockets of woodland and grassland lie in close proximity to the site, all of which are likely to provide good habitat for roosting, commuting and foraging habitat for bats and are within commuting distance for bats. Further afield lie the River Loddon, large waterbodies and additional areas of farmland again, which provide good habitat for bats and are connected to the site via ecological corridors such as tree lines and hedgerows.



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Lodge Wood and Sandmill Site of Special Scientific Interest (SSSI), Alder Moors Local Nature Reserve (LNR) and Lavells Lake LNR lie within 2km of the proposed development site and there is some ecological connectivity from the proposed development site to these designated areas.

A search of the Magic interactive website revealed two current EPSLs for bats have been granted within 2km of the site, the details of which are provided in Table 1 below.

Table 1. Current EPSLs for bats within 2km of the site

EPSL reference	Licence end date	Species on licence
2016-25277-EPS-MIT-1	2026	Soprano pipistrelle
2016-27109-EPS-MIT-1	2022	Brown long-eared, soprano and common pipistrelle

4.2 Daylight Survey

The preliminary ecological appraisal (bats) of 1 Diamond Villas, The Street, Hurst, Reading, RG10 0DG was carried out by Emma Turnbull on Friday 5 March 2021 at 10.30hrs. The weather conditions for the survey were overcast with a temperature of 5 degrees. Equipment used included a high-powered torch, a digital camera on a telescopic pole and a ladder.

During the preliminary ecological appraisal (bats), an external inspection of the property was carried out to identify any signs of occupation by bats and features that could offer potential roosting sites following standard survey guidelines. Features investigated included:

- Construction of the building – soffits, loft space, tiles/slates, lead flashings etc.
- Building condition – structure of roof and walls.
- Access points – potential entry and exit points for bats.
- Roosting points – cracks and crevices, between underlay and roofing tiles/slates.

Field signs that would indicate the presence of bats were searched for. These included:

- Bat droppings on the floor and walls of the building.
- Feeding remains (particularly butterfly and moth wings).
- Evidence of urine and/or oily staining around possible roost entrances.
- Presence of areas cleared of cobwebs.
- Odour can sometimes suggest the present of bats.
- Squeaking and chattering can reveal bats roosting between the tiles and roofing underlay.

Buildings or structures with no bat roosting potential and that were unsuitable for roosting bats were not inspected in detail.



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4.3 Constraints

There was no access to the loft space within the building but, due to the lack of potential access features and good condition of the exterior of the property, it was not thought to be a significant constraint to the survey.

5. Survey Findings

5.1 External Inspection

The external features of the property were examined for signs described in section 4.2. Windowsills, exposed features around the windows, fascia's and walls were inspected for any evidence of bat droppings or staining.

The property is a brick-built building, with cavity walls, which is in a good condition externally. The roof of the property is pitched and covered in close fitting tiles, none of which are missing or broken, see Figure 4 below. The ridge tiles are all closely fitted and sealed with no gaps in which roosting bats could exploit (see Figure 5 on page 9) and the verges were all well cemented with no roosting opportunities for bats, see Figure 6 on page 9. The lead flashing around the chimney was all tightly fitted with no gaps and the soffits and fascia's, although in need of decoration, had no obvious gaps in which bats could roost or enter the building for roosting, see Figure 7 on page 10.

No bats or evidence of bats was recorded during the external inspection of the property and externally there are no obvious visible features on the building which could be utilised by roosting bats.

Figure 4. Example of roof tiles. 1 Diamond Villas, The Street, Hurst. 05.03.21





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Figure 5. Example of ridge tiles. 1 Diamond Villas, The Street, Hurst. 05.03.21



Figure 6. Example of the verges. 1 Diamond Villas, The Street, Hurst. 05.03.21

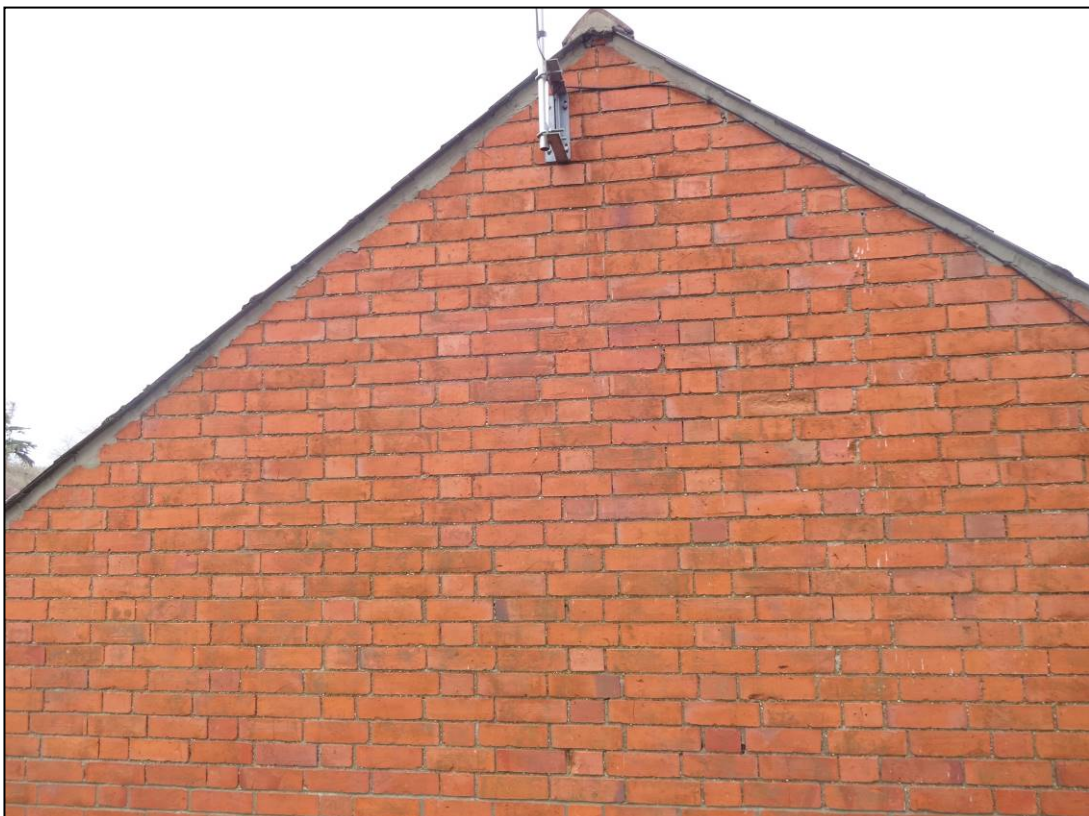




Figure 6. Soffits and fascia's. 1 Diamond Villas, The Street, Hurst. 05.03.21



5.2 Internal Inspection

An internal inspection of the property was undertaken and examined for any signs of bats (as described in section 4.2).

All upstairs rooms and cupboards were checked but no loft hatch was located, we have been informed that there was no access to the loft space. Due to the good condition of the exterior of the property, with no potential access points, this was not considered a constraint to the survey.

6. Evaluation

The bat roost potential of the features within the site has been assessed with reference to the criteria laid out in the Bat Mitigation Guidelines (Mitchell-Jones, 2004). These criteria are listed on pages 10 and 11 with the features **highlighted in bold**.

The likelihood of bat roosts being present will be higher where structures:

- are of a pre-20th Century construction;
- are in a lowland rural setting;
- **have woodland, mature trees, species-rich grassland and/or water nearby;**
- have large dimension roof timbers with cracks, joints and holes;
- have numerous crevices in stonework and structures;
- have an uneven roof covering with gaps, though not too draughty;
- have hanging tiles or roof cladding, especially on south-facing walls;
- **have a roof warmed by the sun;**
- are disused or little used; largely undisturbed;
- provide appropriate hibernation conditions, such as abandoned mines, tunnels, kilns, or fortifications; or
- **Recent or historical records of bats on the site, or bat roosts in the general area.**



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The likelihood of bat roosts being present will be lower where structures:

- are in an urban setting with little green space;
- are subject to heavy disturbance (constant movement due to draughts and noise, also unstable microclimate);
- have a small, cluttered roof void (particularly for brown long-eared);
- **are of a modern construction with few gaps or crevices that bats can fly or crawl through (though pipistrelle bats may still be present);**
- are comprised of prefabricated steel or sheet materials; (some sections);
- are active industrial premises.

Please note that the above list provides generic screening criteria only and there are exceptions to consider.

7. Conclusions

7.1 Interpretation

The evidence from the external inspection of the property provides a high level of confidence in support of the opinions as set out in this report. There are no visible features externally on the building in which bats could roost or access the building to roost. Although an internal inspection of the loft space was not possible, given that there were no features in which roosting bats could utilise, this was not considered to be a significant constraint. Informed by the results of the survey and the factors highlighted in Section 6, it is concluded that there is negligible potential for roosting bats within the building. Based on recommendations in the Bat Workers Manual and the Bat Surveys Good Practice Guidelines, no further survey effort is required.

7.2 Contingency Plan

In the unlikely event that bats are found during the proposed works, all work must stop and advice sought from Urban Tree Experts or another licenced bat ecologist.

If, for whatever reason, there is a time delay of greater than 12 months between this survey and the commencement of work, then the survey should be repeated as the condition of the building may have changed and bats could start roosting at the site.

8. References

Collins, J (2016). Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd Edition). Bat Conservation Trust (BCT), London.
HM Government (2017) Conservation of Habitats and Species Regulations.
HM Government (1981) The Wildlife and Countryside Act.
HM Government (2006) Natural Environment and Rural Communities Act.
Mitchell-Jones, A.J. & McLeish, A.P. (1999). Bat Workers' Manual (2nd Edition). Joint Nature Conservancy Committee, Peterborough.



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9. Queries

Any queries regarding this report should be addressed, in the first instance, to Urban Tree Experts:

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APPENDIX 1

In summary, the legislation combined makes it an offence to:

- Intentionally or recklessly damage, destroy or obstruct access to a structure or place used for shelter by a bat.
- Intentionally or recklessly disturb bats; in particular any disturbance which is likely to impair the ability of bats to survive, breed or reproduce or nurture their young; or in the case of hibernating or migrating bats, to hibernate or migrate.
- Intentionally or deliberately kill, injure or take any bat.

Planning Considerations:

Government guidance to Local Planning Authorities stipulates the need to consider biodiversity and protected species during the consideration of planning applications. The NPPF makes clear that the planning system should help minimise the impacts that development can have on biodiversity and provide net gains in biodiversity where possible. In addition, the ODPM Circular 04/2005 states *“It is essential that the presence or otherwise of protected species, and the extent that they may be affected by the proposed development, is established before the planning permission is granted, otherwise all relevant material considerations may not have been addressed in making the decision”*.

Policy CP7 of the Wokingham Borough Core Strategy (planning policy relating to the site) states *“Development which may harm habitats or, species of principle importance in England for nature conservation, veteran trees or features of the landscape that are of major importance for wild flora and fauna (including wildlife and river corridors), whether directly or indirectly will be only permitted if it has been clearly demonstrated that the need for the proposal outweighs the need to safeguard the nature conservation importance, that no alternative site that would result in less or no harm is available which will meet the need, and*

- i) Mitigation measures can be put in place to prevent damaging impacts; or*
- ii) Appropriate compensation measures to offset the scale and kind of losses are provided”*.

Developments that compromise the protection afforded to bats or roosts under the provisions of the Conservation of Habitats and Species Regulations 2017 and the Wildlife and Countryside Act 1981 will require a European Protected Species (EPS) licence from Natural England (NE).

NE, the government’s statutory conservation advisory organisation, is responsible for issuing EPS licences that would permit activities that would otherwise lead to an infringement of the Habitat Regulations.

Three tests must be satisfied before this licence (to permit otherwise prohibited acts) can be issued:

- Reg 44(2)(e) – the derogation is “in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment”.
- Reg 44(3)(a) – there is “no satisfactory alternative” to the derogation.
- Reg 44(3)(b) –the derogation is “not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range”.

Tests (a) and (e) can be met with the issue of planning permission for the proposed works. Test (b) is determined by NE’s ecology department that requires the development of a suitable mitigation strategy that would ensure that any bats present on site, are retained at the same population level or better.