Nocturnal Bat Survey Report

Old Hall, Finningham Road, Walsham le Willows

for

Sunnyside Farms

22 August 2023



Client

Sunnyside Farms

Planning authority

Mid Suffolk District Council

Time limit of reliance

Please note that the reported surveys were conducted on the date(s) stated in the report and that it represents site conditions at the time of the visit. The findings and recommended mitigation are based on these conditions. If site conditions change materially after the site survey, the original report cannot be relied upon and will need to be updated. Ecological reports and surveys can typically be relied on for 18 to 24 months from the date of survey.

Surveys supporting European Protected Species Mitigation Licence applications must be within the current or most recent survey season for bats (May to September), or within two survey seasons for great crested newts (March to June).

| Nocturnal Bat Survey Report | |
|---|--|
| 1.2 | |
| 22 August 2023 | |
| 3027 | |
| Miranda Proctor B.Sc (Hons), Natural England licences (Bat level 1 2020- | |
| 44596-CLS-CLS, Great crested newt level 1 2018-37838-CLS-CLS) | |
| Nathan Duszynski M.Sc, B.Sc (Hons), ACIEEM, Natural England licences (Bat | |
| level 2 2017-31943-CLS-CLS, Great crested newt level 1 2016-24303-CLS- | |
| CLS, Barn owl level 1 2023-11104-CL29-OWL) | |
| | |

Signed disclosure

The information, data, advice and opinions provided in this report which I have provided is true and has been prepared in accordance with the Chartered Institute of Ecology and Environmental Management's Code of Professional Conduct. I confirm that the opinions expressed are my true and professional bona fide opinions.

Nathan Duszynski, ACIEEM

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SUMMARY

- Greenlight Environmental Consultancy Ltd. has been commissioned to carry out protected species surveys for bats, relating to a proposed development at Old Hall, Finningham Road, Walsham-le-Willows, Suffolk, IP31 3BN (grid reference: TM 02636 71240).
- This report provides the results of the bat survey and any potential effects of the proposed development on such species.
- The ecology report is required in support of a planning application for the renovation of the existing dwelling.
- The survey and assessment were completed by independent qualified and experienced ecologists
 with Natural England survey licences for the relevant protected species, and in accordance with
 the latest survey guidelines.
- The findings of the assessment are that there are no significant ecological constraints that would prevent the proposed works.
- A European Protected Species (EPS) mitigation licence is required from Natural England prior to works commencing, detailing an appropriate mitigation strategy.
- If the following mitigation and enhancements are incorporated into the proposed layout, there will be a net gain for biodiversity, as is encouraged by the National Planning Policy Framework.

| Protected habitats/species | Status | Potential effect | Recommended mitigation and enhancements |
|----------------------------|--|---|---|
| Bats | Nocturnal bat surveys confirmed the building is used as: • Common pipistrelle maternity and nonbreeding day roosts. High value commuting and foraging habitat on site. | Disturbance of bat roosts present in building. Please note, all roosting locations will be retained but disturbed during proposed works. Potential light disturbance of commuting and foraging habitats on site. | Mitigation EPS mitigation licence required from Natural England prior to any works being conducted. The licence will include the following: Works to be conducted outside of the maternity season, between September and April. Soft strip undertaken by hand and under watching brief. Roost location and access points of common pipistrelle maternity colony will be retained. Installation of two standalone bat boxes on mature trees or buildings nearby. If roofs are to be affected they will be lined with either traditional type 1F bitumen felt or a non-bitumen coated roofing membrane that has passed the snagging propensity test. Any lighting schemes will comply with Bat Conservation Trust and CIE 150:2003 guidance. |

| Protected Status habitats/species | | Potential effect | Recommended mitigation and enhancements |
|-----------------------------------|--|------------------|--|
| | | | Monitoring for a two-year period in second and four year after completion. |

1. METHODOLOGY

- 1.1. A physical inspection of all the buildings on site were conducted and reported in the Preliminary Ecological Appraisal Report issued by Greenlight Environmental Consultancy Ltd. (2022).
- 1.2. A total of three nocturnal bat surveys (comprised of three dusk emergence surveys) were conducted within the optimal surveying season for bats and in suitable weather conditions (Table 1). The interim guidance note (Bat Conservation Trust, 2022) states dusk surveys supported by night vision aids ("NVAs") are favoured over dawn surveys, as they can provide clarity on exact emergence points and bat counts.
- 1.3. Three independent, qualified and experienced surveyors were used per survey: Nathan Duszynski (Natural England bat licence level 2 2017-31943-CLS-CLS), Miranda Proctor (Natural England bat licence level 1 2020-44596-CLS-CLS), Daniel Howes and Charlie Swarts. The surveyors were stationed as shown in Figures 1-3.
- 1.4. The dusk surveys started approximately 15 minutes before sunset and finished approximately1.5 hours after sunset.
- 1.5. Bat calls were recorded using Anabat Walkabouts, EchoMeter Touch and EchoMeter 3+. Call data was analysed using Kaleidoscope, AnalookW and Analook Insight software.
- 1.6. A mixture of Canon XA60 and three Canon XA40 infrared cameras were used as survey aids to assist in detecting emerging bats. Each camera was equipped with infrared torches/floodlights. Screenshots from each camera from the darkest point of the survey are provided in Photos 1-8, to illustrate the field of view and visibility.
- 1.7. All survey methods were carried out in accordance with the most up to date good practice guidance (Collins, 2016; Bat Conservation Trust, 2022).

2. SITE CONTEXT

Location

- 2.1. The site is situated approximately 1.9km east of the village of Walsham-le-Willows, with the A12 located approximately 3.6km north. The closest town is Stowmarket, located approximately 11.2km southeast of the survey area.
- 2.2. The site is enclosed by Finningham Road to the north, an area of grassland to the east, an arable field to the south and Old Hall Farm and agricultural premises to the west. The wider surroundings are comprised of a mixture of residential dwellings and arable fields lined with mature trees and hedgerows.

3. DESCRIPTION OF THE DEVELOPMENT

3.1. The proposals are for the renovation and single storey extension of the existing dwelling.

4. FIELD STUDY

Nocturnal bat surveys

4.1. The survey conditions, start/end times and sunset/sunrise times are indicated in Table 1 below:

| Visit | Date | Conditons | Start | End | Start of survey | End of survey | Sunset/ sunrise |
|-------|----------|---------------|-------|-------|-----------------|---------------|--------------------|
| 1 | 04/05/23 | Temp | 12°C | 12°C | | | 20:26 |
| | | Cloud cover | 5% | 5% | 20:11 | 21:56 | |
| 1 | | Wind | 6 mph | 6 mph | | | |
| | | Precipitation | None | None | | | |
| | 23/05/23 | Temp | 12°C | 10°C | 20:41 | 20:41 22:26 | 20:56 |
| 2 | | Cloud cover | 5% | 55% | | | |
| | | Wind | 4 mph | 4 mph | 20.41 | 22.20 | 20.50 |
| | | Precipitation | None | None | | | |
| 3 | 22/06/23 | Temp | 17°C | 13°C | | | |
| | | Cloud cover | 5% | 5% | 21.07 | 22:52 | 21:22 |
| | | Wind | 4 mph | 4 mph | 21:07 | 22:52 | 21.22 |
| | | Precipitation | None | None | | | |

Table 1, nocturnal bat survey information.

First nocturnal bat survey (dusk) – 4th May 2023

- 4.2. A total of 11 bats were recorded emerging from the building and one bat was recorded reentering the building during the survey, all bats were common pipistrelles *Pipistrellus* pipistrellus.
- 4.3. The first bat recorded was a noctule *Nyctalus noctula* commuting over the site at 20:27. This is consistent with the typical emergence time of this species, indicating a roost within the local vicinity.
- 4.4. The first bat observed in close proximity to the building was a common pipistrelle which reentered the building via the facia on the south aspect and later emerged at 20:44. Eight further common pipistrelles emerged from two locations along the facia on the south aspect between 20:49 and 20:55 (Figure 1, Photo 1). These roosts are considered to be connected, forming one maternity roost with three access points.
- 4.5. Two common pipistrelles emerged from beneath two lifted tiles on the south facing roof; one at 20:44 and the second at 21:03 (Figure 1, Photo 1).

4.6. A high level of foraging and commuting activity was recorded and observed by common pipistrelles, soprano pipistrelles *Pipistrellus pygmaeus*, brown long-eared *Plecotus auritus*, barbastelle *Barbastella barbastellus and* noctules.



Photo 1, screenshot from infrared camera on southeast corner. Common pipistrelle access points on south aspects highlighted in red. 5th May 2023.



Photo 2, screenshot from infrared camera on the north aspect. 5th May 2023.



Photo 3, screenshot from infrared camera on the southwest corner. 5th May 2023.

Legend

Site boundary

Common pipistrelle

Surveyor

Infrared camera



Figure 1 Survey results on 5th May 2023. Image © Google Maps, date accessed 02/06/23

- Second nocturnal bat survey (dawn) 23rd May 2023
- 4.7. A total of 14 bats were recorded emerging from the building during the survey consisting of 14 common pipistrelles.
- 4.8. Five common pipistrelles were recorded emerging from the facia on the south aspect between 21:17 and 21:22 (Figure 2, Photo 4). These roosts are considered to be connected, forming one maternity roost with two access points.
- 4.9. Nine common pipistrelles from the fascia on the south gable end between 21:24 and 21:26 (Figure 2, Photo 5). This is considered to be a maternity roost due to common pipistrelle numbers.
- 4.10. A high level of foraging and commuting activity was recorded and observed by common pipistrelles, soprano pipistrelles, brown long-eared, barbastelle and noctule.



Photo 4, screenshot from infrared camera on southeast corner angled at the south facing roof. Common pipistrelle access points on south aspects highlighted in red. 23rd May 2023.



Photo 5, screenshot from infrared camera on southwest corner. Common pipistrelle access points on south aspect gable highlighted in red. 23rd May 2023.



Photo 6, screenshot from infrared camera on southeast corner angled at the east facing roof. 23rd May 2023.

Legend

Site boundary

Common pipistrelle

Surveyor

Infrared camera



Figure 2Survey results on 23rd May 2023.
Image © Google Maps, date accessed 02/06/23

- Third nocturnal bat survey (dusk) 22nd June 2023
- 4.11. A total of five bats were observed emerging from the building during the survey, all bats were common pipistrelles.
- 4.12. The first bat recorded was a common pipistrelle at 21:55 emerging from the timber facia on the south aspect (Figure 3, Photo 7). A second common pipistrelle emerged shortly after from another roost location along the south aspect timber facia and a third common pipistrelle emerged from the same location at 21:57 (Figure 3, Photo 7). These roosts are considered to be connected, forming one maternity roost with two access points.
- 4.13. A common pipistrelle emerged from a lifted tile on the east facing roof at 20:58 and a common pipistrelle emerged from a lifted tile on the south facing roof at 22:04 (Figure 3, Photos 7-8).
- 4.14. A high level of commuting and foraging activity was recorded and observed by common pipistrelles, soprano pipistrelle, brown long-eared, barbastelle and noctules.



Photo 7, screenshot from infrared camera on southeast corner angled at the south facing roof. Common pipistrelle access points on south aspects highlighted in red. 22nd June 2023.



Photo 8, screenshot from infrared camera on southeast corner angled at the east facing roof. Common pipistrelle roost beneath lifted tile highlighted in red. 22nd June 2023.



Photo 9, screenshot from infrared camera on south gable. 22nd June 2023.



Photo 10, screenshot from infrared camera on southwest corner. 22nd June 2023.



Photo 11, screenshot from infrared camera on north aspect. 22nd June 2023.

Legend

Site boundary

X Surveyor
Infrared camera
Common pipistrelle



Figure 3
Survey results on 22nd June 2023.
Image © Google Maps, date accessed 02/06/23

22 August 2023

5. DISCUSSION AND CONCLUSIONS

- 5.1. The surveys confirmed the use of the building as a maternity roost by common pipistrelles, with a peak count of nine individuals, and as a non-breeding day roost by common pipistrelles.
- 5.2. The proposed works involve the renovation of the existing dwelling, resulting in the disturbance of roosting locations. Please note, all roosting locations will be retained but disturbed during proposed works.
- 5.3. Common pipistrelles are common and widespread (BCT, 2014) and the **modification/ destruction of a maternity roost** and **non-breeding day roost** would have a potentially **high** and **low** impact respectively on the local bat population (Mitchell-Jones, 2004).
- 5.4. In order to be able to proceed with the proposed works and to ensure that no detrimental impacts will result on the species, a European Protected Species mitigation licence from Natural England will be required for the proposed works and the following mitigation measures will be implemented (please note, mitigation subject to change depending on proposed plans):
 - i. Works will be undertaken outside the main bat maternity season, ideally during September to April.
 - ii. Workers to be given a toolbox talk prior to works commencing detailing bat signs, potential roosts/access points, what to do if bats are found and to avoid activities that might cause high vibrations or noise.
 - iii. On the first day works are proposed to commence, the building will be inspected for bats using a torch and endoscope. If any bats are found and accessible, they will be captured by gloved hand, given a health check and removed to safety.
 - iv. A soft strip and partial demolition of the walls around the bat roosts will be undertaken with special care and under watching brief of a licenced bat ecologist. If any bats are found, work will cease immediately and any bats removed to safety.
 - v. Once the walls have been removed, any potential roosting features will be sealed and any timber treated using an approved product.
 - vi. The fascia on the south aspect and the south gable end, which are used by a maternity colony of common pipistrelles, will be retained in their entirety.
 - vii. Installation of two standalone bat boxes situated on mature trees or buildings nearby (Greenwood's Ecohabitats three crevice bat box Appendix C).
 - viii. If the roofs are to be affected they will be lined with traditional type 1F bitumen felt or a non-bitumen coated roofing membranes (NBCRM) that has passed the snagging propensity test (must be supplied/installed with the necessary certification). Please note, no other NBCRM (includes both breathable and non-breathable membranes), will be permitted as

- these are proven to entangle bats through regular contact, which also compromises the integrity of the membrane.
- ix. Any lighting schemes will follow guidance from the Bat Conservation Trust and CIE 150:2003. Warm-white (long wavelength) lights with UV filters will be fitted as close to the ground as possible. Lighting units will be angled below 70° and equipped with movement sensors, baffles, hoods, louvres and horizontal cut off units at 90°.
- x. Monitoring will be conducted over a three-year period and consist of a visual inspection and an emergence survey of the proposed mitigation in the second and fourth year following the completion of works.
- 5.5. After the effects of the above mitigation, we consider that the favourable conservation status of the local bat population will be maintained and that an EPS mitigation licence should be granted by Natural England.

6. **BIBLIOGRAPHY**

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Appendix A Legislation

European Protected Species

National Planning Policy - National Planning Policy Framework (NPPF)

Section 15 of the National Planning Policy Framework 2021 (NPPF): Conserving and enhancing the natural environment states that 'planning policies and decisions should contribute to and enhance the natural and local environment by ... minimising impacts on and providing net gains for biodiversity.'

Office of The Deputy Prime Minister ("ODPM") Government Circular: Biodiversity and Geological Conservation – Statutory Obligations and their impact within the planning system.

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'.

Implications of legislation and policies

Without this ecological assessment, the potential developer would be unable to demonstrate due diligence in his responsibilities. Furthermore, the local planning authority would not have been provided with sufficient information for a planning decision to be made. This could result in non-determination or refusal of the application.

With legal responsibilities and planning implications, it is essential that any ecological assessment of a potential development site, including the area of this report, must determine the possible presence or absence of any protected species as part of any planning development consideration.

Where mitigation or compensation measures are required to ensure that no significant impacts will result on biodiversity from the development, the proposed measures may be secured through planning conditions or by EPS Mitigation Licences from Natural England.

Bats

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. On 30th November 2017, these Regulations, together with subsequent amendments, were consolidated into the Conservation of Habitats and Species Regulations 2017.

European protected animal species ("EPS") and their breeding sites or resting places are protected under Regulation 42. 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. 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. 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.

Natural England Licensing - EPS Mitigation Licensing

Licences can be obtained from the Wildlife Management and Licensing Service at Natural England to allow certain activities that would otherwise constitute an offence, for the purposes of development (e.g. destruction of a bat roost, loss of great crested newt aquatic and terrestrial habitat, etc).

Appendix B Native species suitable for planting and sowing

Plants should be obtained from specialist nurseries and preferably be of local genetic stock. <u>Key</u>: (f) – fruit and berry species; (e) – evergreen species; (se) semi-evergreen species; (d) – deciduous species

| Trees | | |
|-----------------------|------------------------------|--|
| Alder (d) | Alnus glutinosa | |
| Apples (f; d) | Malus spp. (local varieties) | |
| Ash (d) | Fraxinus excelsior | |
| Beech (d) | Fagus sylvatica | |
| Bird cherry (f; d) | Prunus padus | |
| Elder (f; d) | Sambucus nigra | |
| Elm (d) | Ulmus procera | |
| Field maple (d) | Acer campestre | |
| Pedunculate oak (d) | Quercus robur | |
| Rowan (f; d) | Sorbus aucuparia | |
| Pears (f; d) | Pyrus spp. | |
| Silver birch (d) | Betula pendula | |
| Small-leaved lime (d) | Tilia cordata | |
| White willow (d) | Salix alba | |
| Wild cherry (f; d) | Prunus avium | |
| Walnut (d) | Juglans regia | |

| Shrubs | | |
|---------------------|-----------------------|--|
| Blackthorn (f; d) | Prunus spinosa | |
| Buckthorn (f; d) | Rhamnus catharticus | |
| Crab apple (f; d) | Malus sylvestris | |
| Dog rose (f; d) | Rosa canina | |
| Dogwood (f; d) | Cornus sanguinea | |
| Field maple (d) | Acer campestre | |
| Guelder-rose (f; d) | Viburnum opulus | |
| Hawthorn (f; d) | Crataegus monogyna | |
| Hazel (d) | Corylus avellana | |
| Holly (e) | Ilex aquifolium | |
| Honeysuckle (f; d) | Lonicera periclymemum | |
| Spindle (f; d) | Euonymus europaeus | |
| Wild privet (f; se) | Ligustrum vulgare | |
| Yew (f; e) | Taxus baccata | |

| Flowering plants | | |
|---------------------|---------------------------|--|
| Bird's-foot trefoil | Lotus corniculatus | |
| Black knapweed | Centaurea nigra | |
| Common cat's-ear | Hypochoeris radicata | |
| Common sorrel | Rumex acetosa | |
| Common vetch | Vicia sativa | |
| Cowslip | Primula veris | |
| Field scabious | Knautia arvense | |
| Foxglove | Digitalis purpurea | |
| Lady's bedstraw | Galium verum | |
| Meadow buttercup | Ranunculus acris | |
| Meadow vetchling | Lathyrus pratensis | |
| Oxeye daisy | Leucanthemum vulgare | |
| Primrose | Primula vulgaris | |
| Red clover | Trifolium pratense | |
| Selfheal | Prunella vulgaris | |
| Sweet violet | Viola odorata | |
| Wild daffodil | Narcissus pseudonarcissus | |
| Yarrow | Achillea millefolium | |

| Grasses | | |
|---------------------|-----------------------|--|
| Common bent | Agrostis capillaris | |
| Crested dog's-tail | Cynosurus cristatus | |
| Meadow fescue | Festuca pratensis | |
| Red fescue | Festuca rubra | |
| Rough meadow-grass | Poa trivialis | |
| Small timothy | Phleum bertolonii | |
| Smooth meadow-grass | Poa pratensis | |
| Sweet vernal-grass | Anthoxanthum odoratum | |
| Yellow oat-grass | Trisetum flavescens | |

Flowering Lawn Mixture – EL1 Emorsgate Seeds

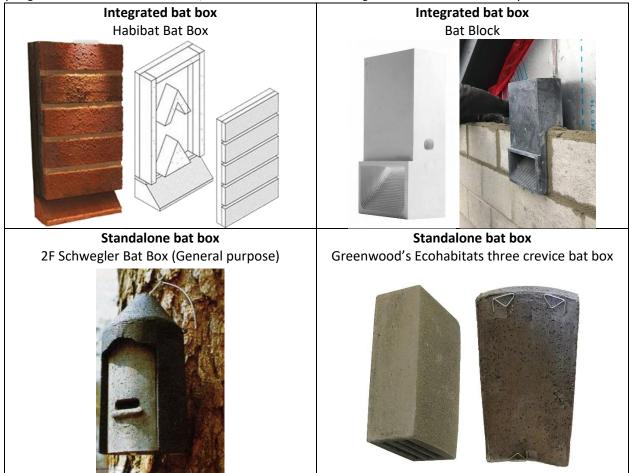
https://wildseed.co.uk/product/mixtures/complete-mixtures/special-habitat-mixtures/flowering-lawn-mixture/

Wildflower Meadow Mixture - EM3 Emorsgate Seeds

https://wildseed.co.uk/product/mixtures/complete-mixtures/general-purpose-meadow-mixtures/special-general-purpose-meadow-mixture/

Appendix C Examples of bat boxes

(images sourced from www.nhbs.com, www.habibat.co.uk and www.greenwoodsecohabitats.co.uk)



Recommendations for installing bat boxes:

(Sourced from Bat Conservation Trust www.bct.org)

Ideally, several boxes should be put up facing in different directions to provide a range of conditions. Locate boxes:

- Where bats are known to feed close to hedges and treelines (some bats use a treeline or hedgerow for navigation, putting boxes near these features may help the bats find the box).
- On trees: boxes should be placed on the trunk of a mature tree, where there is a clear flight line/accessible entrance.
- On buildings: boxes should be placed as close to the eaves as possible.
- As high as possible (ideally, at least 3 to 4m above the ground, where safe installation is possible).
- In sunny places, sheltered from strong winds (usually between south-west and south-east).

Make sure the boxes are secured.

Boxes can be installed on trees using adjustable ties to avoid damaging the trees. Otherwise, timber screw bolts or nails can be used. Aluminium alloy nails are less likely to damage saws and chipping machinery.

Bats need time to find and explore new homes, and it may be several months or even years before boxes have residents. Once bats find a place they want to live they can return over and over again. Droppings on the landing area, urine stains around the lower parts of the box and chittering noises from inside on warm afternoons and evenings are signs of occupation.