



Bat Emergence Survey Report
 The Bat Mitigation Class Licence (BMCL)
 (formerly known as the
 Bat Low Impact Class Licence)

Site Location

Strange Hall South
 Walton Lane
 Bosham
 Chichester
 West Sussex
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Ecological Surveys Ltd
 Director – Paul Diamond

Bat Class Licence Holder 1 and 2



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Contract Details	
Client: -	Mrs Helen Taylor
Architect/Planning Consultant:	Catja de Haas Architects
Report ref: -	BESR_EPSL_Strange Hall South_Taylor_September 2023
Date of Report: -	05/10/2023
Associated report: -	PRNA_Strange Hall South_Taylor_July 2023
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Foreword – Legislative Context

All bat species and their roosts are legally protected in the UK. All bats are listed as European protected species of animals in the European Union's Council Directive 92/43/EEC of 21 May 1992 on the Conservation of Natural Habitats and of Wild Fauna and Flora, better known as the Habitats Directive. This Directive is implemented in the UK by The Conservation of Habitats and Species Regulations 2010 (better known as the Habitats Regulations).

There is also some protection for bats and roosts in England and Wales under the Wildlife & Countryside Act 1981 (as amended by the Countryside and Rights of Way Act 2000). For practical purposes, the protection of bats and their roosts now falls mostly under the Habitats Regulations.

In summary, it is an offence to

- Deliberately, capture, injure or kill a bat
- Deliberately, disturb in a way that would significantly affect their local distribution or abundance, or affect their ability to survive, breed or rear young
- Damage or destroy a roost (this is an 'absolute' offence)
- Possess, control, transport, sell, exchange or offer for sale/exchange any live or dead bat or any part of a bat

('Deliberately' may be interpreted as someone who, although not intending to injure, kill, etc. performed the relevant action, being sufficiently informed and aware of the consequences their action will probably have.)

A person who needs to carry out actions that would result in an offence being committed should apply for a derogation licence from Natural England. They have powers to grant Habitats Regulations derogation licences in certain circumstances, for certain reasons and with certain terms attached, so that the licence holder remains within the law. Application for a derogation licence should be made in plenty of time, and the services of a bat expert utilised in making the application. It is an offence to make a false statement to obtain such a licence.

This information is not provided as legal advice and before making decisions relating to the law a qualified legal representative should be consulted.

Proposals impacting the roost located within the South Hall Strange require a Low Impact Licence.



1 Introduction

An initial ecological assessment of the site: Preliminary Roost & Nest Assessment (PRNA) confirmed the property was being utilised by bats as a roost.

Bat Emergence Surveys were subsequently undertaken in accordance with Bat Conservation Trust (BCT) guidelines (Collins, 2016) to glean sufficient evidence about the type of roost, bat species occupying the roost, their ingress and egress and the location of the roost. On this occasion, it was considered that sufficient survey information had been gleaned after two surveys to inform appropriate mitigation and detail for licencing for this site.

This information is necessary as it informs Natural England, the government's adviser for the natural environment in England, as to which European Protected Species Licence will be issued to legally permit the intended works.

The Bat Emergence Surveys conclusively proved the presence of bat roosting within the structure proposed for works/development.

The results of the Emergence Surveys conclude that **unmitigated** works as defined by the proposed development would constitute an offence under Regulation 43 of The Conservation of Habitats and Species Regulations 2017.

- will retain access points: Gap behind soffit into wall top and loft void.
- but destroy roosting habitat: Loft void.

for day roosting common pipistrelle bat species.

Any works which will cause disturbance, harm or death to bats through unmitigated modification, damage or destruction to a bat access point or a confirmed roost site, cannot legally commence unless a European Protected Species licence has been issued to permit the works, even when you have planning permission, because planning consent does not in and of itself allow you to perform what are essentially illegal activities.

<p>EPS Licence Required - YES</p> <p><i>Note: only specifically licenced professionals are permitted to write these licences</i></p>	<p>A Low Impact European Protected Species Licence (EPSL) is required to proceed with this development. The 'Low Impact' refers to the type and number of bats/access points and roosts impacted – and that the site has been assessed as a 'small scale development.'</p> <p>A BMCL is used to:</p> <ul style="list-style-type: none"> - Allow disturbance and capture of up to 3 'common or widespread' bat species; - To damage or destroy up to 3 'low conservation status roosts' (these are: feeding, day, night and transitional roosts) - The roost must contain low numbers of bats <p>✓ If the EPSL is granted by Natural England, the EPSL legally allows for the</p>
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disturbance/modification or destruction of a resting or breeding site for protected species in order to permit the development, provided adequate mitigation is in place to either/or preserve, protect, recreate or create a roost that offer:

Quantitative Characteristic: - When modifying a roost or access into a roost or creating a new roost after destruction of a roost, the quantitative characteristic must remain the same: - there should be no net loss of roost sites. There is an expectation that mitigation/compensation will provide an enhanced resource compared to that lost.

Qualitative Characteristic: - The Qualitative Characteristic should remain the same: - the plans should aim to replace like with like. The modified or newly created roost must provide the same function as before: be suited to the same species & average number of bat and roost type e.g. maternity, hibernation, day/night and be of similar capacity/fit for purpose to accommodate quantity of bats.

Functional Characteristic: - The Functional Characteristic should remain the same or be further enhanced so that the roost can continue to function as before, e.g. be accessed from the same or similar location.

- ✓ Without a licence, the development cannot legally proceed.
- ✓ An application for an EPSL can only be made after planning permission / listed building consent is granted, if applicable.
- ✓ A Natural England licenced ecologist must be commissioned to complete the licence.



1.1 Executive Summary of Development

Proposed development works/	RENOVATION &/OR EXTENSION - RESIDENTIAL It is understood the proposed works include a loft conversion, installation of roof lights, works to the porch including moving the entrance, making a new kitchen next to the entrance, and restoring the heritage area and the rooms in the loft. The client also seeks to fell the height of some trees with bat roosting potential along the drive.
Home improvements & small-scale dev' (less than 1ha)	<i>LOFT CONVERSION, RENOVATION and EXTENSION</i>

1.2 Summary of Results

Type of structure Surveyed: -	Grade 2 listed 16th century semi-detached residential house and trees	Access points present – gap behind soffit into wall top and loft void. Roost present – evidenced by droppings within loft void.
Dates of Surveys: -	Date of most recent survey	05/09/2023
	Date of 2nd most recent survey	15/08/2023
	Date of initial ecological site assessment	14/07/2023
Roosting value: -	This site has a confirmed: day roost within the house. Evidence comprises bat emergence during both bat emergence surveys, bat droppings within loft void. No roost is found within the trees to be felled.	
Summary of Bat Activity onsite	Bats were active in the area on each Emergence Survey demonstrating the weather was suitable for bat activity.	

1.3 Summary of Mitigation

Mitigation	<p>Pre-Construction: -</p> <ul style="list-style-type: none"> - Constraints will not apply to timings: commencement and end of works; - Works can only legally proceed once an EPS licence is granted, and then – ONLY under licenced ecological supervision for works relating to impact of bat ingress and bat roosts - Following a Toolbox talk - Following installation of safe capture bat boxes onsite under supervision. <p>Construction: -</p> <ul style="list-style-type: none"> - Constraints will apply to material used in the construction of a new roof; - Roosts and access must be re-created of similar quantity, quality and
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	<p>functionality;</p> <ul style="list-style-type: none"> - Enhancement features must be installed. <p>Post Construction: -</p> <ul style="list-style-type: none"> - The client/agent must provide notification to the acting ecologist all works are complete regarding mitigation and enhancement for bats – there is a maximum window for licensable works of 6 months) - The client must arrange a final site visit and/or evidence installation of bat provision with digital imaging;
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1.4 Summary of Enhancement

Enhancement	<p>This site will be enhanced for bats – Provision will be provided for bats via a bat box on a suitable tree as the house is a grade II listed building.</p>
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1.5 Legal Framework & Responsibilities of the Client/Acting Agent:

- a) Submit this Bat Emergence Survey Report together with any other related reports to the Planning Authority. Once planning approval has been granted, a licenced Ecologist can be engaged to undertake the EPSL application. This action requires specific professional qualifications and experience. Ecological Surveys Ltd is able to perform this action on your behalf. It is worth noting the Natural England EPSL approval time can vary significantly. The ecologist has no influence over the approval time taken. Consequently, early instruction is strongly advised.

- b) The EPSL requires specific commitments to be agreed by the client for the protection of bats and maintenance of roosts onsite. These commitments will be provided to the client along with the Mitigation & Enhancement Specification by the ecologist who will be submitting the licence.
 - A final inspection date of the roosts must be provided to Natural England upon submission of the licence, by the ecologist.
 - The inspection date must be within 3 months of the licence application being made.
 - A Low Impact EPSL
 - If the EPSL application is made outside of this 3-month timeframe, the acting ecologist must be commissioned to inspect the site/roosting features prior to the EPSL application. It is the responsibility of the client to prompt for this final inspection in this scenario.

- c) The EPSL will determine the actual mitigation requirements for this site in order for proposed work to proceed. The EPSL will state the timeframe under which works must start and conclude. The EPSL requirements must be strictly adhered to. Any changes to the works will require a modification application to be submitted to Natural England for approval.



- d) Once Natural England have granted permission to proceed with works, the client must arrange for the appointed ecologist to supervise works on site for the protection of bats. Works which occur without specified supervision will break the terms of the licence and a criminal act will have been committed.

The ecologist must be professionally qualified and licenced to handle bats and formally appointed/booked with as much notice as possible prior to the roof strip/works commencing. An indication of the predicted expected time scale for supervised works (soft demolition/works) must be provided to the ecologist.

Failure to plan ahead may mean that the Ecologist is unable to attend site according to the contractor's schedule and as NO LICENCED WORKS can be undertaken this could have serious implications for the project schedule.

- e) The client must ensure any contractors are aware of the EPSL requirements and have received the Mitigation & Enhancement Specification produced for the licence application by the acting ecologist.
- f) It is illegal for any construction to occur where an EPSL has been required UNLESS the acting ecologist:
- ✓ Is either the '*Named ecologist*' or '*accredited agent*' specified on the EPSL (and any authorised assistants working directly under the supervision of one the aforementioned categories).
- g) It is a criminal offence to disturb/handle bats unless it is to save the bat from harm, injury or death, none of which must as a result of your own action. Consequently, uncovering a bat during construction / demolition works and moving it to permit works to continue, without a licence, is a criminal offence.
- h) In the event that a bat is found during any unsupervised stages of the works, activity should stop in the vicinity of the bat/s and advice should be sought from Ecological Surveys Ltd (Tel: 01503 240846 or 07736 458609) or from the Bat Conservation Trust Helpline (Tel: 0345 1300 228). Bats should not be handled, but should ideally be left in situ, gently covered until advice is obtained, unless leaving them is a bigger risk to them than moving them (with gloves) to a place of safety.
- i) In addition, structures associated with this site may not be demolished if nesting has occurred until all nesting birds' chicks are fledged and flown (nesting is usually between March and September inclusive). Nesting birds are protected by law and further advice should be sought from the acting ecologist if birds are nesting.
- j) The mitigation and enhancements given in this report do not negate or alter the responsibilities of the client in respect of any other ecological reports associated with this site.



2 Survey Objectives

The Bat Emergence Survey was undertaken in order to establish:

- Whether bats are currently using the structure/s for roosting.
- If so, to identify the species present.
- To locate access / entry / exit points.
- To identify any potential ecological constraints on the development.
- To provide guidance on the Natural England EPSL (European Protected Species Licensing) or alternative procedures if required.

The survey specifically aimed to provide:

- Confirmation of the bat species, number of bats and access points used.
- Advice on the need for further survey/s and/or appropriate mitigation required.

The Emergence Surveys were undertaken with all proper and reasonable skill and care in a professional manner and in accordance with accepted standards, methodologies and guidelines.

This report is based on the evidence recorded at the site at the time of the survey. The information gathered is considered to be sufficient to provide an assessment of the ecological interest on the site and to justify the recommendations produced in this report.

It is the responsibility of the client/developer to ensure they familiarise themselves with and comply with any law and legislation relating to this survey's findings and recommendations. An overview of specific governance relating to this survey may be found within this report but is by no means comprehensive. Refer to [Appendix 1: Legislation Bat and Bird Species](#) for details of Bat and Bird Law and Legislation and <http://www.nwcu.police.uk/> regarding avoiding committing wildlife crime.

It should be noted that this report relates specifically to the specified brief and proposal description. If any changes to the brief or the proposal are made, then Ecological Surveys Ltd should be consulted. A re-appraisal or appraisal amendment may be required.

The results of the Bat Emergence Surveys are deemed to be valid for 12 months from date of survey provided any constraints or advisories recommended have been followed. If development works are to be carried out after this time has elapsed, an updated survey will be required.

2.1 Survey Methodology

The bat survey was undertaken in accordance with guidance provided by the Bat Conservation Trusts Good Practice Guidelines 3rd Edition (Collins, 2016). This guidance covers all aspects of emergence surveys, including recommendations relating to the months during which the surveys should be carried out, as well as recommended timings of the surveys themselves.

Bat Conservation Trust (BCT) guidelines recommend Bat Emergence Surveys should ordinarily consist of a minimum of one visit for low suitability, two visits for moderate suitability or three for high roost potential and confirmed roosts



Recommended minimum number of survey visits for Presence/Absence Emergence Surveys		
<u>Low Roost Suitability</u> One survey visit.	<u>Moderate Roost Suitability</u> Two separate survey visits.	<u>High Roost Suitability</u> Three separate survey visits.
One dusk emergence or dawn re-entry (structures). No further survey: Trees.	One dusk emergence and a separate dawn re-entry survey.	At least one dusk emergence and a separate dawn re-entry survey. The third visit could be either dusk or dawn.
Timings		
May to August (structures) No further surveys (trees)	May to September with at least one of surveys between May and August.	May to September with at least two of surveys between May and August.

- The surveyors were positioned to cover all aspects of the dwelling to be impacted by the proposed works, with particular emphasis placed on those areas most likely to be used by emerging bats.
- When a bat was detected, it was identified with its position and activity noted on a field base plan. The time and position of each bat was recorded, along with its direction of flight (light permitting) and whether the bat was emerging/returning, foraging or commuting.
- Wind strength, precipitation, humidity and temperature were all recorded at the start and on completion of the survey.
- The surveyors were each equipped with a bat detector and recording device, comprising of an Echo Meter Touch 2 Pro or a Peersonic. To aid species identification, all recordings were analysed using Kaleidoscope View (ver. 5.1.4), Analook (ver. 4.4a) and/or Bat Sound (ver. 3) computer software.

2.2 Survey Constraints

During the initial protected species inspection, no perceived constraints existed. All internal and external surfaces were inspected with an assessment made of the roof structure. Overall, the survey effort was considered sufficient to draw appropriate conclusions from the evidence obtained. It took into account the time of year (optimal period is April – September) and likely availability of evidence, with appropriate emphasis on suitable roosting or nesting conditions, opportunities for potential access through ingress points, free-flight, crawl spaces externally and internally, and features that may have been hidden from full view.

Therefore, the Bat Emergence Survey was able to progress, not limited by constraints and the results can be considered to be a viable record of emergence/re-entry. Consequently, the results of the Emergence Surveys are considered a viable record of emergence/re-entry.



3 Survey Results

Table 3.1

DATE OF MOST RECENT SURVEY	Start & End Times Time of Sunset	Equipment Used	Weather			Comments (N° Surveyors)
			Start	End		
5 th September 2023	Start: - 19:20 Sunset: - 19:40 End: - 21:10	EMT 2 Pro, Peersonic bat detectors and HIKVision HeatPro thermal camera	Temp °C	23	21	3 surveyors and a thermal camera
			Wind (B)	2	2	
			Precip.‘	0	0	
			Humidity %	67	76	
Bat Emergence						Assessment of Unmitigated Impact
Species	Total	Ingress Feature	Location of Roost	Roost Characteristic		
Common pipistrelle	1	Gap behind soffit into wall top and loft void	Wall top and loft void	Day roost: a place where individual bats, or small groups of males, rest or shelter in the day but are rarely found by night in the summer.	The bat access point (gap behind soffit into wall top and loft void) and roosting habitat within wall top will be retained, but the roosting habitat within loft void will be destroyed.	
No bat emerged from the surveyed trees.						

Table 3.2

DATE OF 2 nd MOST RECENT SURVEY	Start & End Times Time of Sunset	Equipment Used	Weather			Comments (N° Surveyors)
			Start	End		
15 th August 2023	Start: - 20:05 Sunset: - 20:25 End: - 21:55	EMT 2 Pro, Peersonic bat detectors and HIKVision HeatPro thermal camera	Temp °C	18	15	3 surveyors and a thermal camera
			Wind (B)	3	2	
			Precip.‘	0	0	
			Humidity %	79	90	
Bat Emergence						Assessment of Unmitigated Impact
Species	Total	Ingress Feature	Location of Roost	Roost Characteristic		
Common pipistrelle	1	Gap behind soffit into wall top and loft void	Wall top and loft void	Day roost: a place where individual bats, or small groups of males, rest or shelter in the day but are rarely found by night in the summer.	The bat access point (gap behind soffit into wall top and loft void) and roosting habitat within wall top will be retained, but the roosting habitat within loft void will be destroyed.	
No bat emerged from the surveyed trees.						

Table 3.3 - Summary of Bat Activity Recorded In and Around the Grounds

Species Detected	DATE OF MOST RECENT SURVEY	DATE OF 2 nd MOST RECENT SURVEY	Total Bats Recorded
	5 th September 2023	15 th August 2023	
Common Pipistrelle	30	18	48
Soprano Pipistrelle	4	10	14
Noctule	6	6	12
Serotine	1	3	4
Daubenton's bat	0	1	1

The Emergence Survey results indicate that bats are associated with this site. The presence of foraging/commuting bats indicates that weather conditions were suitable for bats to emerge. ‘Passes’ should not be confused with the number of individual bats onsite. Although it is possible to determine individual species present, it is not possible to determine if it is one or few or many individuals passing and returning.



Figure 3.1 - Illustration of Survey Results

Table 3.4

Impact	
1 common pipistrelle emergence from the gap behind soffit (A). Without the process of mitigation – this ingress/egress points will be:	A
<ul style="list-style-type: none"> - Retained but Disturbed 	
<p>The roost is situated within the loft void. This will be:</p> <p>Destroyed</p>	
<p>Surveyors were located to watch the aspects indicated and included:</p> <ul style="list-style-type: none"> - Slipped/missing roof tiles/slates - Ridge tiles - Soffits, fascia, bargeboards - Weather boarding - Masonry gaps, and - Window/door frames - Holes within trees to be felled 	

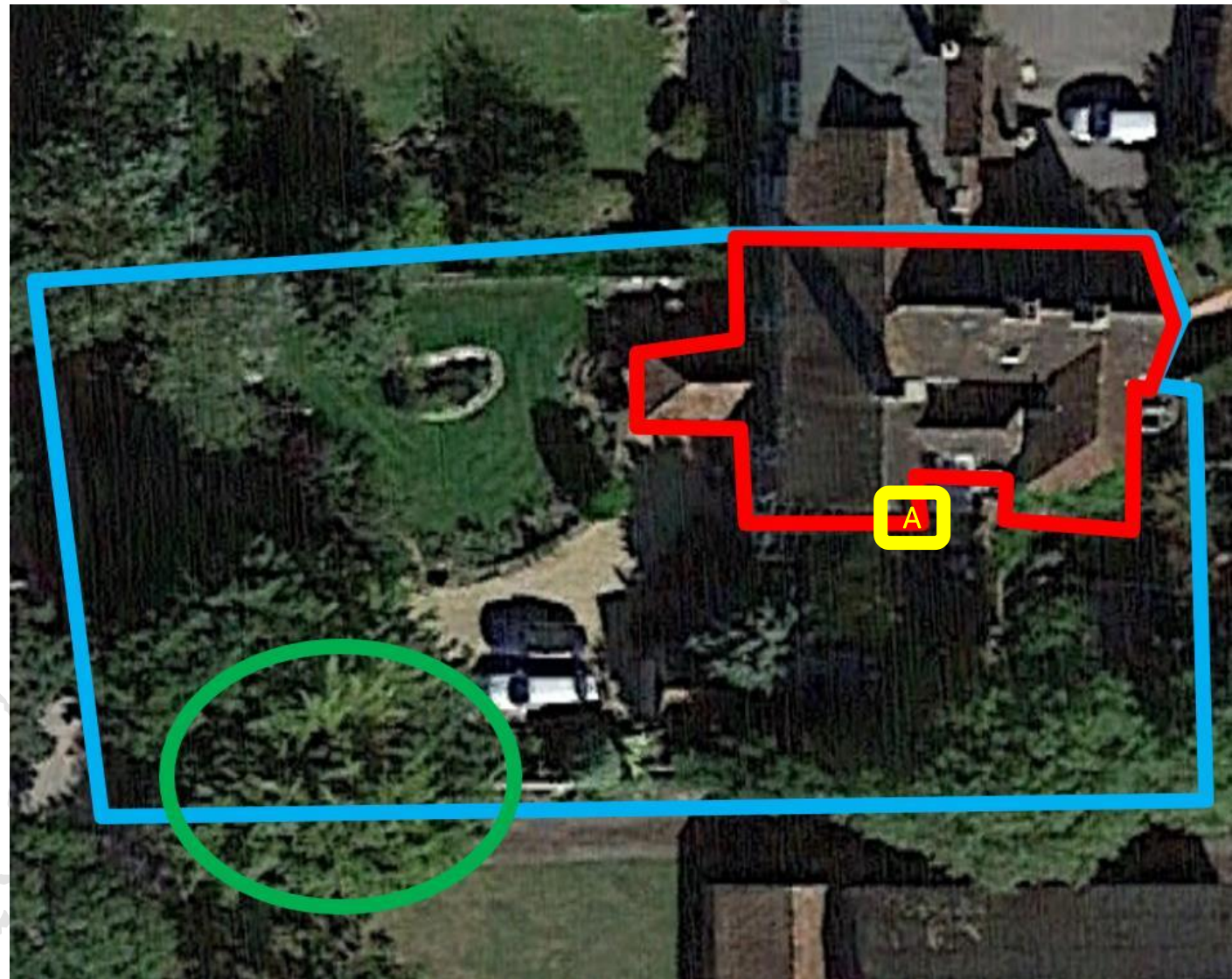




Table 3.5 - Photographic Imaging

Comment: - 1 Common pipistrelle emerged from the gap behind soffit (A) during both emergence surveys.





4 Mitigation Requirements

Following the granting of Planning Permission, a European Protected Species Licence (EPSL) must be applied for from Natural England to allow any legal disturbance, damage or destruction of onsite bat roosts and associated features/habitats.

In order to apply for the licence, full planning (if required) will need to be successfully obtained along with listed building consents (if required) from the respective authorities. Once applied for, Natural England may take up to 30 working days to *approve* and grant such a licence.

In respect of the Habitat Regulations, the following three regulations must also be taken into account in respect of bats:

- The proposed works or development may be for the purposes of "preserving public health or public safety or other imperative reasons of overriding public interest including those of a social or economic nature and beneficial consequences of primary importance for the environment." [R.44(2) (e)];
- "There is no satisfactory alternative" [R.44(3)(a)]; and,
- "The action will not be detrimental to the maintenance of the population of the species concerned at a favourable conservation status in their natural range." [R.44(3)(b)].

4.1 Mitigation Specification

Works Schedule – without exception, the following applies: -

- Proposed site works which will impact (disturb/damage/destroy) any features associated with this bat roost may only proceed on receipt of the EPSL licence;
- Must proceed & end strictly between the dates given on the EPSL licence;
- Cannot proceed without the acting ecologist supervising the disturbance, damage or destruction of the roost and associated features;
- Any extension to timings for works must be applied for in advance to Natural England via the acting ecologist.

4.2 Timing of Works:

The timing of the proposed works onsite will be dictated by and sensitive to the type of roost assessed as being onsite. The type of roost will determine the dates given on the EPSL for when work is legally allowed to proceed and when it must cease.

- The roost is a Day Roost

Construction work which directly or indirectly affects this type of bat roost may be undertaken during any month of the year – HOWEVER,

- Only under an approved European Protected Species Licence, which legally allows this to occur;
- Only between the dates given on the European Protected Species Licence;
- Only under supervision by the licenced ecologist or their appointed agent (also licenced).

Wherever possible, the client will consider avoiding dates from May to September to ensure minimal impact to any bats which might be present.



4.3 Mitigation: - Pre-Construction Phase

Ecological Supervision

The licensed ecologist, or their appointed agent (also licenced), must supervise all works deemed likely to disturb, damage or destroy bat roosts and their associated roosting features on this site in order to comply with the law and the terms of the European Protected Species Licence. The licensed ecologist, or their appointed agent (also licenced), must be present to protect and safeguard any bats which may be present on site. Please note, the works will be scheduled for when the least harm by impact is expected.

Booking the Acting Ecologist to Supervise Works

The licensed ecologist, or their appointed agent (also licenced), must be commissioned by the client/acting agent to be on site at a date as determined by the EPSL and where timings are sensitive to bat habitation.

As the work associated with the disturbance, damage or destruction of onsite roosts and associated features cannot proceed without a licensed ecologist, or their appointed agent (also licenced), being present, it is strongly advised that sufficient communication/liaison is actioned between the client, the construction team and the licensed ecologist, or their appointed agent (also licenced).

It might not be possible for the licensed ecologist, or their appointed agent (also licenced), to attend on any given date, so some flexibility may be required.

Tool-box Talk

An internal & external inspection of the roost will be completed by the acting ecologist prior to any work associated with roosting features commences.

The acting ecologist will advise those associated with the works (roofing and associated features) which could or will disturb, damage or destroy the roost/s, of their legal responsibilities and how to proceed for the safety and protection of any bats potentially onsite.

The construction team are obliged to be aware of how they must either protect roosts and access to roosts that are being retained; modify roosts to enable bat habitation post construction; re-instate roosting features; or create new roosting features.

The acting ecologist will be on hand for the safe capture and release into secure protected bat provision for any bats uncovered onsite during works.

- These boxes must be purchased by the client under advice of the acting ecologist as given in this report. (below).
- These boxes must be ordered in advance of any works and be available on the day of the start of the works as according to the EPS licence. Work cannot proceed on the disturbance, damage or destruction of the roost/s unless these boxes are installed and considered fit for purpose.

Safe Capture Bat Provision

Bat box provision is required for the safe capture and relocation of any bats uncovered during pre-construction work by the ecologist.

- Provision will be erected in a location suited to protection and safety of any occupying bats by



the developer under guidance from the ecologist prior to the soft demolition – roof strip: more than 3m high, away from predation, on a S or W orientation on site, away from any artificial light spill, in proximity to suitable commuting habitat.

- Artificial light spill is restricted/prohibited in the vicinity of these boxes and their flight lines.
- These boxes will be retained throughout construction process.
- Boxes occupied by bats (where bats are relocated to them) must be retained indefinitely.

4.4 Construction Phase: - Retention/Modification or Creation of Bat Roosts

Quantitative Characteristic: - When modifying a roost or access into a roost or creating a new roost after destruction of a roost, the quantitative characteristic must remain the same: - there should be no net loss of roost sites. There is an expectation that mitigation/compensation will provide an enhanced resource compared to that lost.

- The roost habitat within the loft will be lost, but the the access from the gap behind soffit will be retained allowing some, albeit reduced, potential for roosting.
- To ensure continued roosting on site, a new access point is required. As the proposals will involve minimal external works, the proposed access point will need to be a bat access tile.

The Qualitative Characteristic should remain the same: - the plans should aim to replace like with like. The modified or newly created roost must provide the same function as before: be suited to the same species & average number of bat and roost type e.g. maternity, hibernation, day/night and be of similar capacity/fit for purpose to accommodate quantity of bats.

- F1 bitumen lining or Batsafe Breathable Membrane that has passed the 'snagging propensity test' must be used for any extension or new dormer windows – regular breathable membranes are not permitted as they kill bats.
- The new (and retained) access point will be suitable for 1 day roosting common pipistrelle.

The Functional Characteristic should remain the same or be further enhanced so that the roost can continue to function as before, e.g. be accessed from the same or similar location. This may include ensuring the habitat around the roost is maintained e.g. hedge-line protected, no or restricted lighting on access or flight lines.

- The access to the roost appears to be presently via gaps on the soffit on the southern aspect. As no soffit works are proposed, a bat access tile will need to be installed near where the existing ingress is presently located.

Impact Avoidance During the Construction Phase

All activities on site should bear in mind the potential for other wildlife or the environment being harmed through the process of development from inception to end, with a proactive approach occurring for lawful protection of wildlife and the environment regarding use of materials, machines, chemicals, and human activity on site. Although this report focus is bats, there are laws governing the protection of species and habits which remain applicable and which would be negligent to ignore.



Therefore: -

- Restrictions apply to activities that cause the spread of non-native animals into the wild.
- Contractors must ensure that no harm can come to wildlife by maintaining the site efficiently, clearing away any material such as wire in which animals can become entangled and preventing access to toxic substances.
- Trenches or large excavations should be covered overnight to prevent wildlife such as badgers or hedgehogs falling in and failing to escape. If this is not possible then a strategically placed plank may provide a means of escape.
- Any large bore pipes should be capped at the end of the day to reduce the potential for badgers and other wildlife entering and becoming trapped.
- Areas that are being retained should be protected from damage during construction by erecting Heras (or similar) fencing around these features. The fencing should be erected outside the line of the canopy as this helps protect the roots from compaction of the soil.
- Any areas proposed for planting post-development should be fenced off where possible to prevent compaction of the soil through vehicle movements.
- If there is a substantial delay before development commences, the site should be maintained in a way that would prevent wildlife colonising it and causing constraints in the future. Such management should include mowing grassland at least twice a year and preventing scrub encroachment.
- Piles of brush wood and or log piles should be carefully inspected for signs of wildlife prior to their removal. This is especially crucial during the period March – September (inclusive) as some species of bird choose such sites to construct their nests. Ideally removal of such features should be done outside of the nesting season. If this is not possible, it is recommended that these features are covered in such a way as to exclude / prevent birds and / or reptiles taking up residence. Should nesting birds or reptiles be discovered, work must cease immediately, and ecological advice sought.
- All hedgerows / trees / shrubs removal should be done outside of the bird nesting season March – September (inclusive). If removal is not possible during this period, careful checks of such, must be conducted by a suitably experienced ecologist prior to works commencing.

4.5 Post Construction Phase: -

On completion of works, the client /agent must inform the acting ecologist that works have been completed in line with the Mitigation & Enhancement Specification.

- It is the responsibility of the client/agent to initiate this contact.
- A short report by the ecologist will verify to the LPA/NE that the terms and conditions of the EPSL has been complied with.



4.6 Enhancement Feature

This site will be enhanced for bats. A bat box will be included on a suitable tree on the southern or western aspect since the house is a grade II listed building.

	
General Purpose Bat Box for external and trees	1FF Schwegler Bat Box with Built-in Wooden Rear Panel

- Positions of not less than 3m high are preferable.

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Mitigation & Enhancement Specification

SITE: - Strange Hall South, Walton Lane, Bosham, Chichester, West Sussex, PO18 8QB

GRID REFERENCE: - SU 81499 04327

PROJECT PROPOSALS: - proposed works include a loft conversion, installation of roof lights, works to the porch including moving the entrance, making a new kitchen next to the entrance, and restoring the heritage area and the rooms in the loft. The property has been converted several times previously and the large loft used to be inhabited.



PREPARED BY: - ECOLOGICAL SURVEYS LTD

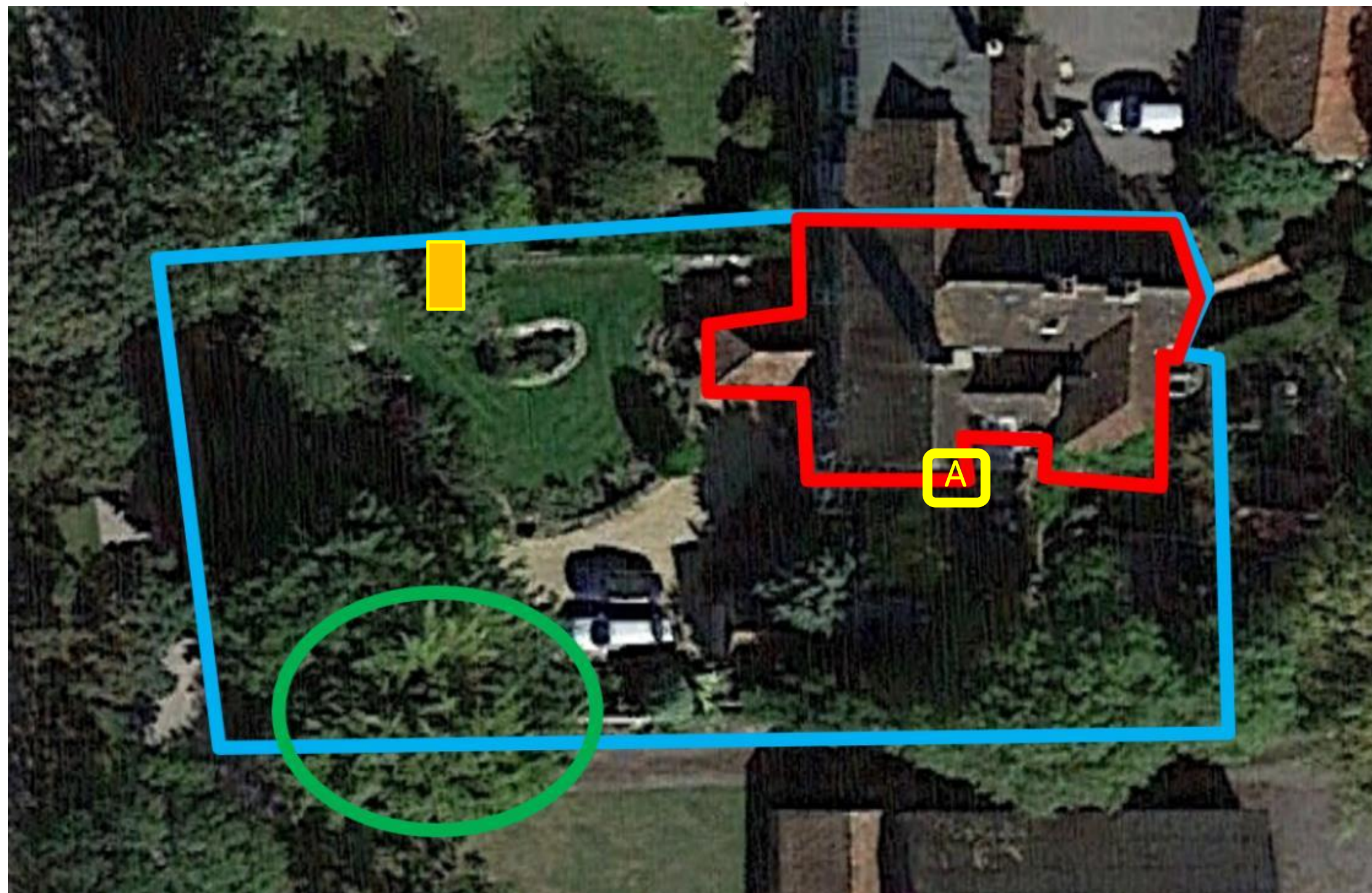
VERIFIED BY: - Paul Diamond RHS Cert (Hort), BSc (Hons), MSc; MCIEEM; MArborA; Associate Member of the Landscape Institute

COMPANY ADDRESS: - Sui Generis, Tredalsett Farm, Duloe, Cornwall, PL14 4PR Tel: 07736 458609

Company Registration Number: - Incorporated in England and Wales- No 08262426.

VAT Registration Number: - 224 3182 38

MITIGATION	
Safe capture boxes erected on a suitable tree.	
Bat access point to be retained.	
Roof lining – if replaced, MUST be 1F Bitumen Felt.	



ENHANCEMENT POST CONSTRUCTION

A bat box on a suitable tree on the southern or western aspect.

This structure/loft is a bat roost. Bat roosts cannot be entered by law by any other than a licence holder or in the presence of a licence holder. Advice and assistance are given by The Bat Conservation Trust.



5 Conclusions

The survey results conclusively indicate that bats are roosting within the identified structure.

Bats and their roosts are afforded legal protection: making it illegal to destroy a bat roost, or to disturb bats within a roost without a licence.

Unmitigated works to features associated with bats will disturb, damage or destroy roosts on this site causing disturbance harm and death to these species.

An application for a European Protected Species Licence is therefore required, with the licence approved by Natural England prior to any works commencing.

An appropriate mitigation strategy will detail the method for the protection of these bats whilst legally enabling the disturbance/modification or destruction of these identified roosts.

Mitigation and/or compensatory measures have been given within this report, including: - appropriate/sensitive timing of the commencement of works, a tool-box talk by the ecologist; initial soft demolition of the roof structure under supervision by the licensed ecologist, or their appointed agent (also licenced) and the incorporation of suitable replacement roosting provision/s within the replacement dwelling or alternative building.

The client must apply for and obtain planning approval from the LPA before the licenced ecologist can submit a licence application to Natural England. Once the Licence is approved and providing the mitigation and enhancement measures contained within this report are agreed and adhered to, it is considered that the proposed development will have not necessarily have a negative impact on local bat populations within this area.

Enhancement for bat is required to obtain a biodiversity gain for this site. Enhancement is detailed in The Mitigation & Enhancement Specification and within this report.

Under no circumstances can works proceed until Natural England have granted a derogation licence. Failure to adhere to this exposes the risk of a criminal prosecution. This might involve a fine or imprisonment or both:

<https://www.theguardian.com/business/2020/dec/11/housebuilder-fined-600000-destroying-bat-roost-south-london-bellway>



6 Appendices

6.1 Appendix 1: Legislation Bat and Bird Species

Bat: - All bat species and their roosts are legally protected in the UK. All bats are listed as European protected species of animals in the European Union's Council Directive 92/43/EEC of 21 May 1992 on the Conservation of Natural Habitats and of Wild Fauna and Flora, better known as the Habitats Directive. This Directive is implemented in the UK by The Conservation of Habitats and Species Regulations 2010 (better known as the Habitats Regulations).

There is also some protection for bats and roosts in England and Wales under the Wildlife & Countryside Act 1981 (as amended by the Countryside and Rights of Way Act 2000). For practical purposes, the protection of bats and their roosts now falls mostly under the Habitats Regulations.

In summary, it is an offence to

- Deliberately, capture, injure or kill a bat
- Deliberately, disturb in a way that would significantly affect their local distribution or abundance, or affect their ability to survive, breed or rear young
- Damage or destroy a roost (this is an 'absolute' offence)
- Possess, control, transport, sell, exchange or offer for sale/exchange any live or dead bat or any part of a bat

('Deliberately' may be interpreted as someone who, although not intending to injure, kill, etc. performed the relevant action, being sufficiently informed and aware of the consequences their action will probably have.)

A person who needs to carry out actions that would result in an offence being committed should apply for a derogation licence from Natural England. They have powers to grant Habitats Regulations derogation licences in certain circumstances, for certain reasons and with certain terms attached, so that the licence holder remains within the law. Application for a derogation licence should be made in plenty of time, and the services of a bat expert utilised in making the application. It is an offence to make a false statement to obtain such a licence.

This information is not provided as legal advice and before making decisions relating to the law a qualified legal representative should be consulted.

Legal Status, Birds

Bird: - All wild birds, their nests and young are protected throughout England and Wales by the Wildlife & Countryside Act 1981 (as amended). It is illegal to kill, injure or take any wild bird, or damage or destroy the nest or eggs of breeding birds. The legislation applies to all bird species, common and rare. In addition to the protection afforded to all wild birds, rarer or particularly vulnerable species listed on Schedule 1 of the 1981 Act, such as the barn owl, receive enhanced protection when breeding. Schedule 1 species, including their dependent young, are protected from intentional or reckless disturbance whilst at or near the nest, in addition to the protection afforded the more common species.



If nests, whether completed or in the process of being built, are found on site, any works with the potential to damage or destroy the nest, eggs or young birds, must stop until the birds have completed breeding. This includes any activity that could potentially cause an adult bird to desert the nest resulting in death or egg failure. Nesting sites should be inspected only by experienced ecologists.

Any disturbance of a breeding Schedule 1 bird is an offence, regardless of whether this impacts upon the breeding attempt. These nests can only be visited by an ecologist with a licence for the specific species concerned.

Birds may nest on machinery or scaffolding and other temporary site structures. If this happens the equipment cannot be used until the birds have finished nesting and such areas may need to be sealed off to prevent disturbance.

Breaking the law can lead to fines of up to £5000 per offence and potential prison sentences of up to six months. Vehicles implicated in an offence can be compounded and both the company, and/or the individual(s) concerned, can be held liable.

6.2 Appendix 2: Bat Survey Triggers.

A Bat Survey is ordinarily triggered when there is to be:

Conversion, modification, demolition or removal of buildings (including hotels, schools, hospitals, churches, commercial and derelict buildings) which are:

- Agricultural buildings (e.g. farmhouses, barns and outbuildings) of traditional brick or stone construction and/or with exposed wooden beams
- Buildings with weather boarding and/or hanging tiles that are within 200m of woodland and/or water
- Pre-1960 detached buildings and structures within 200m of woodland and/or water
- Pre-1914 buildings within 400m of woodland and/or water
- Pre-1914 buildings with gable ends or slate roofs, regardless of location
- Located within, or immediately adjacent to woodland and/or immediately adjacent to water
- Dutch barns or livestock buildings with a single skin roof and board-and-gap or Yorkshire boarding if, following a preliminary roost assessment, the site appears to be particularly suited to bats.
- At the behest of the LPA / County Ecologist.
- Further details of other triggers can be found below.

Development and Planning Trigger for Bat Surveys

Development and planning trigger list for bat surveys, which can be adapted to local circumstances (taken from the Association for Local Government Ecologists (ALGE) template for biodiversity and geological conservation validation checklists 2007, available from <http://alge.org.uk/publication/index.php>

Conversion, modification, demolition or removal of buildings (including hotels, schools, hospitals, churches, commercial premises and derelict buildings) which are:



- Agricultural buildings (e.g. farmhouses, barns and outbuildings) of traditional brick or stone construction and/or with exposed wooden beams;
- Buildings with weather boarding and/or hanging tiles that are within 200m of woodland and/or water;
- Pre-1960 detached buildings and structures within 200m of woodland and/or water;
- Pre-1914 buildings within 400m of woodland and/or water;
- Pre-1914 buildings with gable ends or slate roofs, regardless of location;
- Located within, or immediately adjacent to woodland and/or immediately adjacent to water;
- Dutch barns or livestock buildings with a single skin roof and board-and-gap or Yorkshire boarding if, following a preliminary roost assessment, the site appears to be particularly suited to bats.

Development affecting built structures:

- Tunnels, mines, kilns, ice-houses, adits, military fortifications, air-raid shelters, cellars and similar underground ducts and structures; unused industrial chimneys that are unlined and brick/stone construction;
- Bridge structures, aqueducts and viaduct (especially over water and wet ground).

Floodlighting of:

- Churches and list buildings, green space (e.g. sports pitches) within 50m of woodland, water, field hedgerows or lines of trees with connectivity to woodland or water;
- Any building meeting the criteria listed in (1) above.

Felling, removal or lopping of:

- Woodland;
- Field hedgerows and/or lines of trees with connectivity to woodland or water bodies;
- Old and veteran trees that are more than 100 years old;
- Mature trees with obvious holes, cracks or cavities, or that are covered with mature ivy (including large dead trees).

Proposals affecting water bodies:

- In or within 200m of rivers, streams, canals, lakes, reed beds or other aquatic habitats.

Proposal located in or immediately adjacent to:

- Quarries or gravel pit;
- Natural cliff faces and rock outcrops with crevices or caves and swallets.

Proposals for wind farm developments:

- Of multiple wind turbines and single wind turbines (depending on the size and location) (NE TIN 051 – undergoing updates at the time of writing)

All proposals in sites where bats are known to be present¹

- This may include proposed development affecting any type of buildings, structures, features or location.

Notes:

1. Where sites are of international importance to bats, they may be designated as SACs. Developers of large sites 5-10km away from such SACs may be required to undertake a HRA.



63 Appendix 3: Assessing the Potential Value for Buildings

Classification Criteria

It should be noted that the grading system below only reports on the situation at the time of survey; should bat activity levels change after the initial survey, or should the buildings be modified (for example if roof tiles are removed or fascia boards develop cracks), the category may need revision.

Category (Potential)	Description
Please note: Intermediate categories (e.g. Low – Moderate value) may apply.	
None / Negligible value	Buildings with no or very few features capable of supporting roosting bats. Often buildings are of 'sound' well-sealed structure or have a single skin and no roof void. They tend to have high interior light-levels, and little or no insulation. Buildings without any roofs may also fall into this category.
Low value	Buildings of largely unsuitable construction, but with few features of potential value to bats (e.g. gaps above windows, apparently shallow crevices). No supporting evidence (e.g. droppings / staining) found. Buildings may be surrounded by poor or sub-optimal bat foraging habitat, as is often the case in urban-centre locations.
Moderate value	Buildings usually of brick or stone construction with a number of features of obvious potential value to roosting bats e.g. loose roof / ridge tiles, gaps in brickwork, gaps under fascia boards, and/or warm sealed roof-spaces with underfelt.
High value	Buildings with a large number of features of obvious potential value to bats (as above). Bats may be suspected to roost within the building (at least at certain times of year), but no supporting evidence found.
Confirmed roost	Bats discovered roosting within the building or recorded emerging from / entering the building at dusk and / or dawn. Building found to contain conclusive evidence of occupation by bats, such as bat droppings. A confirmed record (as supplied by an established source such as the local bat group) would also apply to this category.

6.4 Appendix 4: Bat Species

1	Alcathoe	<i>Myotis alcathoe</i>
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2	Barbastelle	<i>Barbastella barbastellus</i>
3	Bechstein's bat	<i>Myotis bechsteinii</i>
4	Brandt's bat	<i>Myotis brandtii</i>
5	Brown long-eared bat	<i>Plecotus auritus</i>
6	Common pipistrelle	<i>Pipistrellus pipistrellus</i>
7	Daubenton's bat	<i>Myotis daubentonii</i>
8	Greater horseshoe bat	<i>Rhinolophus ferrumequinum</i>
9	Greater Mouse eared bat	<i>Myotis myotis</i>
10	Grey long-eared bat	<i>Plecotus austriacus</i>
11	Leisler's bat	<i>Nyctalus leisleri</i>
12	Lesser horseshoe bat	<i>Rhinolophus hipposideros</i>
13	Nathusius' pipistrelle	<i>Pipistrellus nathusii</i>
14	Natterer's bat	<i>Myotis nattereri</i>
15	Noctule	<i>Nyctalus noctula</i>
16	Serotine	<i>Eptesicus serotinus</i>
17	Soprano pipistrelle	<i>Pipistrellus pygmaeus</i>
18	Whiskered bat	<i>Myotis mystacinus</i>

6.5 Appendix 5: Roost Type Description

Type of roost	Description
Day roost	A place where individual bats, or small group of males, rest or shelter in the day but are rarely found by night in the summer.
Night roost	A place where bats rest or shelter in the night but are rarely found in the day. May be used by a single individual on occasion or it could be used regularly by the whole colony.
Feeding roost	A place where individual bats or a few individuals rest or feed during the night but are rarely present by day.
Transitional / occasional roost	Used by a few individuals or occasionally small groups for generally short periods of time on waking from hibernation or in the period prior to hibernation.
Swarming site	Where large numbers of males and females gather during late summer to autumn. Appear to be important mating sites.
Mating sites	Sites where mating takes place from late summer and can continue through winter.
Maternity roost	Where female bats give birth and raise their young to independence.
Hibernation roost	Where bats may be found individually or together during winter. They have a constant cool temperature and high humidity.
Satellite roost	An alternative roost found in close proximity to the main nursery colony used by a few individual breeding females to small groups of breeding females throughout the breeding season.

7 References and Further Information

- Battersby, J. (Edited and compiled; 2005). *UK Mammals: Species Status and Population*



Trends. JNCC/Tracking Mammals Partnership 2005. ISBN 1-86107568-5
<http://www.jncc.gov.uk/page-3311>

- Collins, J. (ed.) (2016). *Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd edn.)*. The Bat Conservation Trust, London.
- Conservation of Habitats & Species Regulations 2010. HMSO
- Cornwall Council (2018). *Accommodating swallows, swifts and house martins: Guidance notes for developers, builders, surveyors, architects & house holders*. Cornwall Council, Truro.
<https://www.cornwall.gov.uk/media/3626630/Accommodating-swallows-swifts-and-house-martins.pdf>
- Cornwall Planning for Biodiversity Guide (2018)
<https://www.cornwall.gov.uk/media/35514048/biodiversity-spd-v7.pdf>
- Countryside and Rights of Way Act 2000. HMSO
<http://naturalengland.communisis.com/naturalenglandshop/docs/IN13.6.pdf>
- Mitchell-Jones A.J. & Mcleish A.P. (2004). *The Bat Workers Manual*, 3rd Edition. Joint Nature Conservation Committee, Peterborough <http://www.jncc.gov.uk/page-2861>
- Mitchell-Jones, A.J. (2004). *Bat Mitigation Guidelines*, English Nature, Peterborough
- UK Biodiversity Action Plan www.ukbap.org/uk
- Waring, S. (2012). *Bats & Breathable Roofing Membranes*. University of Reading
www.batsandbrms.co.uk

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