

16th August 2025

STATION HOUSE, ROWFANT, WEST SUSSEX, RH10 4NF

LIGHTING STATEMENT IN RELATION TO BAT FORAGING AND EMERGENCE

- 1.1 This document presents an external lighting statement relating to any potential impact on foraging bats as a result of the refurbishment/ conversion works to be carried out on the Station House building. An assessment has been made as to any lighting specification requirements and the directional cone of the external lighting that is to be installed as part of the development plans at this location.
- 1.2 There was a block of woodland that was adjacent to the building to the north, which comprised of a mixture of ancient semi-natural woodland and some replanted woodland. This habitat represented an area of potentially high value habitat for bat foraging and the measures presented below are designed to limit any potential impact on this habitat.

Surveyor

- 1.3 This report and assessment has been drafted out by Richard Law BSc MRes CEnv MCIEEM FLS. Richard has been undertaking ecological survey work within the last 18 years on a number of differing locations throughout the United Kingdom for a variety of protected species, including bats (Class 2 2015-12576), reptiles, amphibians including great crested newt (Class 1 2016-20290) and terrestrial mammals including dormice (Class 1 2015-13188) and birds including barn owl (CL29/00236). Richard is also qualified in track and sign and trailing *via* an international system of assessment (www.tracker certification.com) and is therefore considered as competent in identifying the sign of a majority of the fauna found in the UK and can be considered as competent in assessing the presence/ likely absence of these species.

1.4 **Figure 1: Site Location**



1.5 **Figure 2: Bat Activity Summary Map**



1.6 Bat activity close to the Station House building was limited to occasional brown long eared bat *Plecotus auritus*, foraging to the south and to the north around the tree lines and woodland. There was a barbastelle

bat *Barbastella barbastellus* pass along the road/ woodland edge to the northeast. Emergence from the building was observed, with a single brown long eared bat emerging from the western apex on the gable end and a large maternity colony of common pipistrelle *Pipistrellus pipistrellus* was observed emerging from the vent on the southeastern dormer section.

1.7 **Figure 3: Building Plan and Location of External Lighting**



- 1.8 The external lighting that is to be installed on the station house building will be limited to a single downwards facing light at the rear (northern face) and two of the same external lights on the front (southern face). The lighting cone on these is limited and is not likely to impact the bat foraging activity observed locally. The lighting on the southern face is below the location of the replacement common pipistrelle with the light cone facing downwards and away from the roost location. Any emerging bats will be able to fly upwards and away from the light cone, following immediate emergence from that location.
- 1.9 To further account for the foraging activity of above bat species within the local area, the external lighting will conform to the specifications which are outlined within BCT Guidance Note (2023b). This will reduce any light pollution would have on nocturnal activity of fauna, namely bat species, some of which are extremely sensitive to light pollution. Light spill into adjacent habitats will be reduced and avoided by the following:

- *All luminaries will lack UV elements; metal halide and fluorescent sources will be avoided,*
- *A warm white light spectrum on external lighting will be adopted (<2700kelvin) to reduce the blue light component,*
- *LED luminaries will be used where a sharp cut off is required to avoid light spill into adjacent habitat,*
- *External luminaries will feature wavelengths higher than 550nm to avoid the component of light most disturbing to bats,*
- *Column heights of external lighting will be limited,*
- *Luminaries will be mounted on the horizontal plane, with no upwards tilt,*
- *Security lighting will be set on motion sensors and on short timers (<1min).*

Signed



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