

7th February 2025

Dear Sir or Madam,

Subject: Woodhead Hall – Lighting Plan – Ecology Covering Letter

This letter has been written to accompany and introduce the Lighting Plan (QUO-646508-J6M6TL) developed by Ansell Lighting Design Department, covering the re-development of the New Cottages, the New Dwelling, House 3, House 3a, House 4 and the New Dwelling at Woodhead Hall. This lighting plan is required to inform the discharge of Condition 24 of Planning Permission 2022/1234, which states:

Notwithstanding the submitted details, before above ground works commence, details of external/internal lighting shall be submitted to and approved in writing by the Local Planning Authority. The details shall be reviewed by the scheme ecologist and clearly demonstrate that lighting will not adversely impact wildlife using key corridors, foraging and commuting features and roosting sites. The details shall include, but are not limited to, the following:

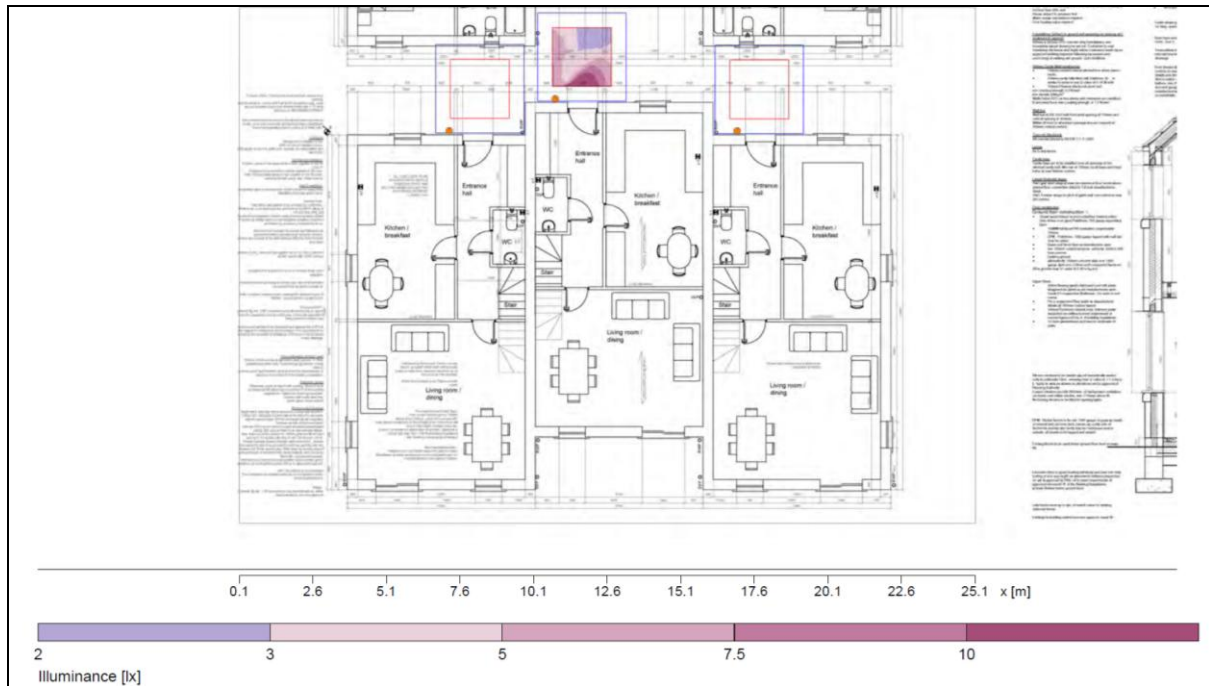
- o A drawing showing sensitive areas, dark corridors and buffer areas;*
- o Technical description, design or specification of external lighting to be installed including shields, cowls or blinds where appropriate;*
- o A description of the luminosity of lights and their light colour;*
- o A drawing(s) showing the location and where appropriate the elevation and height of the light fixings;*
- o Methods to control lighting control (e.g. timer operation, Passive Infrared Sensors (PIR)); and*
- o Lighting contour plans, both horizontal and vertical where appropriate, taking into account hard and soft landscaping.*

The external lighting has been designed to comprise the minimum level of illumination required by new occupiers to safely enter and exit their dwellings. It is noted that if no such external lighting is fitted then the new residents would be likely to fit their own units, which would probably be less sensitive from an ecological perspective. The minimum level of lighting that was considered reasonable comprised a single low output (8 W) and warm white (3000 K) lantern (Latina Wall Lantern), to be located beside the main door of each dwelling. To aid understanding, in order to extend the lighting proposals to all new buildings, and to show external lighting relative to higher quality bat foraging and commuting habitat; the luminaire positions have approximately overlaid on the landscape plan in Appendix 1.

The lantern selected has a solid cap reducing upward light spill and has a PIR sensor as well as a switch override. The lantern proposed is shown on Pages 4-5 of the attached Lighting Plan. The locations of these units on the new dwellings, together with basic lux spill plans are shown on Pages 88-99 of the Lighting Plan. A screenshot of one of the lux spill plans is

shown in Plate 1. This plan shows how the light level decreased quickly with distance from the luminaire, quickly reaching a low lux level (3-5 lux).

Plate 1. Lux spill plan showing light attenuation around the southern luminaire, with the light level graded from 3-10+ lux



The Lighting Plan does not cover Woodhead Hall, House 2, the Workshop or Farm House Cottage. The client (Thomas Daley of Thomas Daley Homes Ltd) has however committed to adopt the same lighting approach on each of these new dwellings, with a single Latina Wall Lantern to be fitted beside the main entrance to each house. Approximate luminaire positions on these buildings have been shown in Appendix 1.

This scheme is considered to accord with the Institute of Lighting Professionals guidance (ILP, 2023) note on new external lighting, as the scheme has minimised new external lighting, with low output, warm white luminaires chosen which reduce upward light spill. Light spill across bat roosting features and higher quality bat foraging and commuting habitat will be avoided.

Neither roosting provision nor higher value bat commuting and foraging habitat is anticipated to be impacted by the proposed lighting.

Please do not hesitate to get in contact with any queries or comments.

Yours sincerely,

Robert Bell MCIEEM
Principal Ecologist

Reference

ILP (2023) Guidance Note 08/23: Bats and Artificial Lighting at Night. Institute of Lighting Professionals and Bat Conservation Trust.

Appendix 1. Approximate Positions of New Luminaires Relative to High Quality Bat Foraging Habitat

