t. +44 (0)114 266 9292
e. contactus@ecusltd.co.uk
w. www.ecusltd.co.uk
@EcusEnvironment

Ecus Ltd
Brook Holt
3 Blackburn Road
Sheffield
S61 2DW

Barratt Homes Yorkshire West and David Wilson Homes Yorkshire West
(Trading Names of BDW Trading Limited)
Raynham House
2 Capitol Close
Morley
Leeds
LS27 0WH

**Our ref: 18313**

10th December 2021

FAO: Sarah Marsh, Technical Co-Ordinator

## Re: Pitt Street, Darfield – Bats and Lighting Statement

Dear Sarah,

### 1. Background

Ecus Limited (Ecus Ltd), was commissioned in December 2021 by Barratt Homes Yorkshire West and David Wilson Homes Yorkshire West to produce a bats and lighting statement in relation to a proposed development at land off Pitt Street, Darfield, hereafter referred to as 'the Site' in order to discharge a planning condition (planning reference: 2021/0602). Planning condition 3 states that:

'*Prior to the commencement of development detailed lighting plans for a sensitive lighting scheme during construction and operation shall be submitted to and approved in writing by the Local Planning Authority. The lighting scheme shall be designed in accordance with recommendations in the Ecological Management Plan and Ecological Enhancement Plan.'*

Ecus produced an Ecological Management Plan (EMP) and Ecological Enhancement Plan (EEP) ('*Pitt Street, Darfield – Ecological Management Plan and Ecological Enhancement Plan',* dated October 2021, report reference: 16962 V3.0) in respect of the proposed development based on previous ecological surveys undertaken by Enzygo including;

- '*Preliminary Ecological Appraisal - Land at Low Valley Farm, Pitt Street, Barnsley'* reference: CRM.1122.003.EC.R.001, dated July 2019. The survey was undertaken in August 2018 with the findings reported within the PEA in July 2019. This is hereafter referred to as the Enzygo Ltd PEA report (2019).
- '*Ecological Impact Assessment - Pitt Street, Wombwell'* reference: CRM.1122.003.EC.R.002, dated December 2019. This is hereafter referred to as the Enzygo Ltd EcIA report (2019).

Enzygo undertook nocturnal bat activity surveys of the Site between June and October 2019, which established very low bat activity, with activity focused around the eastern boundary hedgerow and six species of bat recorded.

The Ecus EMP and EEP recommended that a bat sensitive lighting strategy be designed in collaboration with an ecologist which avoids light spill onto retained and proposed boundary features and that any light

spill onto these features be limited to no more than 5 lux.

## 2. Lighting Proposals

The client has confirmed to Ecus that no temporary lighting is to be installed at the Site during construction and that permanent lighting will be installed as the new dwellings are occupied. A plan showing horizontal illuminance (lux) has been produced for the Site post-development by Barnsley Metropolitan Borough Council (plan reference: SL20-68), which shows light spill in lux across the proposed development. This plan shows that lighting will be primarily limited to light columns on the street scene within the Site. These will largely be located away from boundary features and areas of public open space (POS) with the exception of two lighting columns close to the boundary in the north and north-east of the Site.

## 3. Assessment

Ecus have produced a plan to show the suitable bat foraging and commuting habitat within the Site post-development and recommended light levels (Figure 1). This shows that low light levels are required in the area of POS along the western boundary of the Site, along the northern vegetated boundary and the eastern vegetated boundary. No lighting restrictions are applicable elsewhere within the Site.

The Barnsley MBC illuminance plan shows that lux levels along the western boundary habitats will generally be 0.0 to 0.1 with this increasing to 1.0 at the southern extent of this area, close to housing and Pitt Street. Lux levels along the northern boundary will be between 0.0 and 2.2, whilst those along the eastern boundary hedgerow will be between 0.0 and 0.1. The calculated lux levels within the areas of green space are all within the recommended upper limit of 5 lux. Additionally the calculated levels are also below 3 lux which is the upper limit for recommended light spill for light avoiding species such as brown long-eared bat *Plecotus auritus* which have previously been recorded at the Site during Enzygo's surveys.

Therefore the proposed lighting scheme is considered to be in accord with the recommendations within the Ecus EMP and EEP and is not expected to impact upon bats utilising the new and retained habitats at the Site for foraging and commuting in the long term.

Should you have any queries please do not hesitate to contact us.

Yours sincerely,



Natasha Firth BSc (Hons) MSc MCIEEM
Senior Ecologist

Appended

Figure 1. Suitable Bat Foraging and Commuting Habitat and Recommended Light Levels



## Legend

Boundary habitats suitable for foraging and commuting bats – no direct lighting and light spill to be limited to a maximum of 5 lux, as far as is reasonably practical

Areas with no lighting constraints

*Base plan produced by Rosetta Landscape Design for Barratt Homes & David Wilson Homes Yorkshire West – Drawing number: 3759/1 Revision C, dated October 2021*

**Barratt Homes & David Wilson Homes Yorkshire West**
Pitt Street, Darfield

Figure 1. Suitable Bat Foraging and Commuting Habitat and Recommended Light Levels

December 2021

**Ecus Ltd.**
Brook Holt, 3 Blackburn Road, Sheffield, S61 2DW