



Loreto Convent

Llandudno

## Bat and Bird Box and Hedgehog Home Scheme

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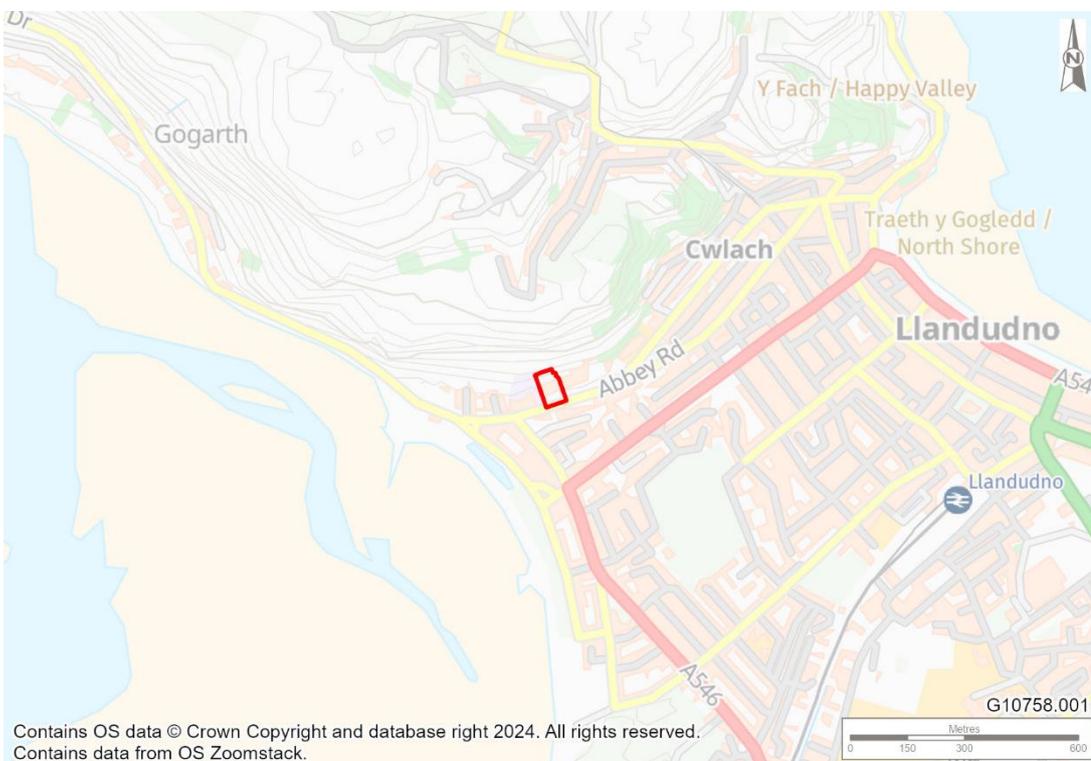
### Drawings

Drawing 1: Ecological Enhancements Plan (Ref G10758.002)

# 1.0 Introduction

- 1.1 The Environment Partnership (TEP) Ltd was commissioned by Enfys Developments (hereafter referred to as 'the client') in October 2024 to produce a bat and bird box and hedgehog scheme to support a planning application for the proposed development of an apartment block and bungalows at the former Loreto Convent, located in Llandudno, North Wales (hereafter referred to as 'the site'). The grid reference of the site is SH 77306 82228 and is shown in Figure 1.
- 1.2 This ecological mitigation and enhancement plan focuses on the provision of suitable bat, bird and hedgehog boxes within the site to demonstrate net benefits for biodiversity in line with Planning Policy Wales 12 (PPW12). The plan will provide details on the designs/specifications of the wildlife boxes, as well as suitable locations for their installation within the site.
- 1.3 The specification of bat, bird and hedgehog boxes for the scheme have been chosen with consideration given to the species assemblages present at the site following a review of the site plans and aerial imagery.

*Figure 1: Site location*



## 2.0 Mitigation and Enhancement Strategy

- 2.1 Bat and bird boxes provide artificial roost sites in areas where the habitat otherwise provides limited roosting opportunities. Bat and bird boxes incorporated into the design will increase the site's ecological value by providing roosting opportunities for bats and will increase the availability of nesting sites for birds which commonly use artificial boxes.
- 2.2 Hedgehog homes provide shelter and hibernation locations for hedgehogs. They prefer woodland edges, hedgerows and suburban habitats.
- 2.3 Appropriate siting of the boxes is important to increase the likelihood of uptake and make them more attractive to wildlife; further details are provided below.
- 2.4 Bat and bird boxes and hedgehog homes are also recommended below; however, similar products are likely to be available from alternative suppliers.

### Bat Boxes

- 2.5 In total, two bat boxes will be incorporated into the scheme design on the proposed buildings to enhance bat roosting opportunities within the site. The bat boxes will be installed on east aspects of the buildings. The proposed positions of the bat boxes are shown in Drawing G10758.002.
- 2.6 The bat box specification is as follows:
- Two 1FQ Schwegler Bat Roost Box

### Bird Boxes

- 2.7 In total, two bird boxes will be incorporated into the scheme design on the proposed buildings to increase nesting opportunities for birds on site. The bird boxes will be installed on north aspects of the buildings. The proposed positions of the bird boxes are shown in Drawing G10758.002.
- 2.8 The bird box specification is as follows:
- Two Vivara Pro WoodStone Swift Nest Box

### Hedgehog Homes

- 2.12 In total, two hedgehog homes will be incorporated into the scheme design to increase sheltering and nesting opportunities for hedgehogs on site. The hedgehog homes will be installed along the northern boundary of the site. The proposed positions of the hedgehog homes are shown in Drawing G10758.002.

- 2.13 The hedgehog home specification is as follows:
- Two Igloo Hedgehog Home

## Siting and Installation of Bat/Bird Boxes and Hedgehog Homes

- 2.14 The bat, bird and hedgehog boxes should be sited in accordance with the attached Drawing G10758.002. Failure to do so may result in boxes being sited in sub-optimal positions that could lead to lower take-up by bats, birds and hedgehogs.
- 2.15 Proximity to suitable commuting and foraging habitat has also been considered during the siting process. It must be ensured that there is unobstructed access for bats and birds entering and leaving the boxes.
- 2.14 It is recommended that new bat and bird boxes are installed during autumn and winter to ensure they are ready for use the following breeding season, although it is possible to install them at any time of year. Many birds will enter nest boxes during the autumn and winter, looking for a suitable place to roost or feed. They often use the same boxes for nesting the following spring.
- 2.15 All bat and bird boxes must be installed in line with the manufacturer's specifications to ensure no hazard is posed to members of the public.
- 2.16 The hedgehog homes should be installed at the northern boundary adjoining the Great Ormes Head Special Area of Conservation (SAC), Site of Special Scientific Interest (SSSI) and Local Nature Reserve (LNR). Access holes will need to be provided at ground level in any new wooden fencing to allow hedgehogs to move freely around the site. Access holes need to be a minimum of 130mm in size and marked with 'Hedgehog Highway signs' to ensure residents are aware of their purpose and to discourage blocking up the holes.
- 2.16 Should the recommended boxes not be available, similar products are likely to be available from alternative suppliers. Any substitutions should be agreed with the Local Planning Authority.
- 2.17 Should the existing buildings recommended in Drawing G10758.002 not be suitable for installation of any boxes, an ecologist must be consulted, and an alternative location may be used, or it must be substituted for an alternative bat or bird box as described above.

## Maintenance

- 2.18 Bat boxes do not typically require any maintenance. Bat boxes can only be inspected by appropriately licensed ecologists. Nest boxes used by swifts do not require the cleaning

and maintenance required by some other species. However, every few years check the fixings remain secure and for signs of possible decay.

- 2.19 Hedgehog homes can be cleaned in April, after hibernation but before hedgehogs start producing hoglets; or October, before hibernation but after most litters have been weaned.

## 3.0 Bat Box Specifications

3.1 Specifications of the bat box type recommended for installing on site are provided within Table 1 below.

*Table 1: Recommended bat box specifications*

Box Specification	Photograph
<p><b>1FQ Schwegler Bat Roost Box</b></p> <p>The 1FQ Bat Roost is suitable for all types of bats which inhabit buildings. The shape and design make it equally attractive to bats as a roost or nursery.</p> <p>The box should be positioned a minimum of three metres above the ground and where there is a clear flight path for bats entering and leaving. Avoid siting under artificial lights.</p> <p>60cm x 35cm x 9cm (H x W x D)</p>	

## 4.0 Bird Box Specifications

4.1 Specifications of the bird box type recommended for installing on site are provided within Table 2 below.

*Table 2: Recommended bird box specifications*

Box Specification	Photograph
<p><b>Vivara Pro WoodStone Swift Nest Box</b></p> <p>The Vivara Pro WoodStone Swift Nest Box is specifically designed for swifts with the nest entrance on the underside of the box. This type of entrance discourages house sparrows and starlings from occupying the box.</p> <p>The nest box should be installed at least 5m above the ground, ensuring that there is unobstructed access for birds entering and leaving. If possible, boxes should be sited under the shelter of eaves or overhanging roofs.</p> <p>24.5cm x 38cm x 26.5cm (H x W x D)</p>	

## 5.0 Hedgehog Home Specifications

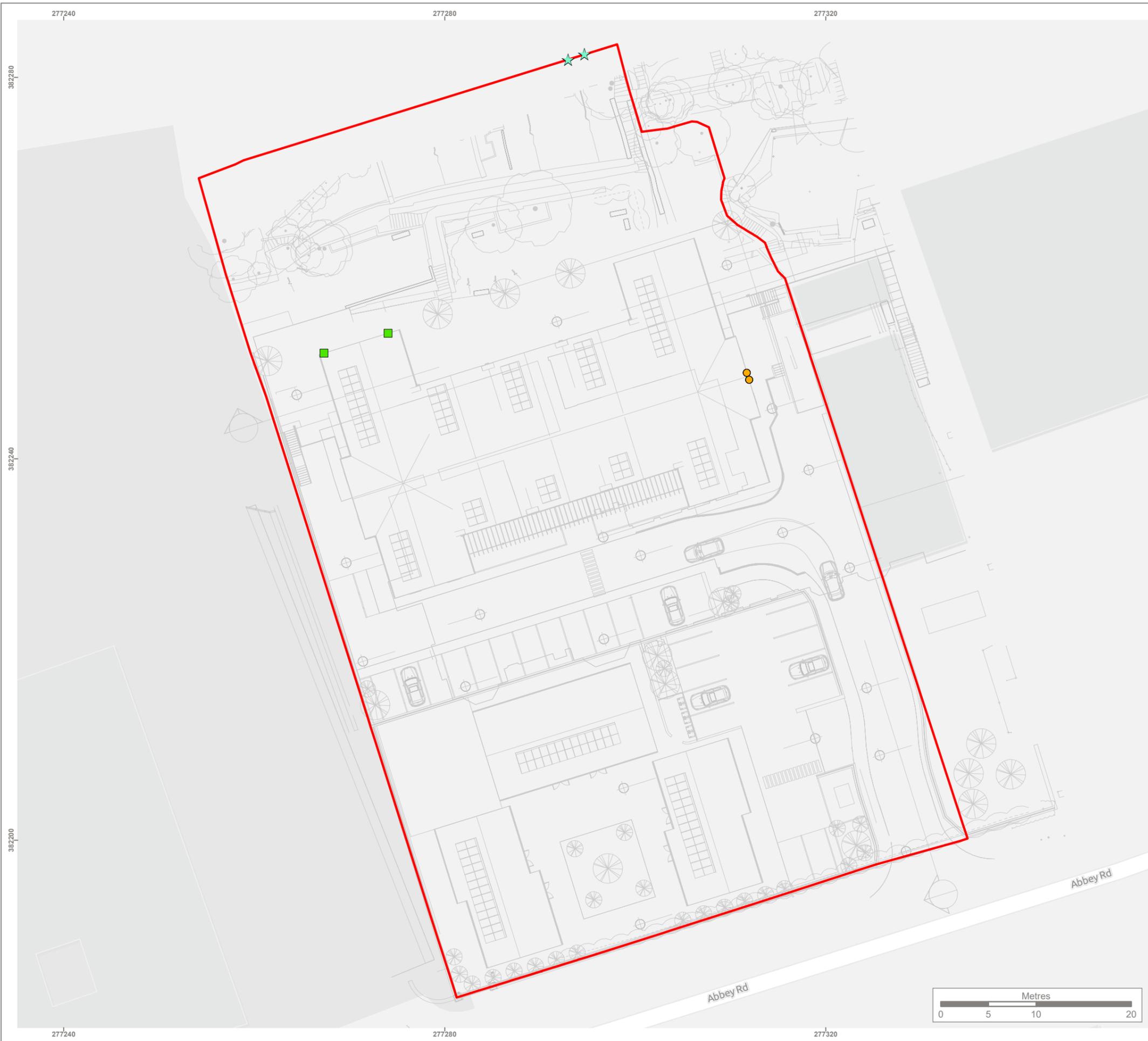
5.1 Specifications of the hedgehog home type recommended for installing on site are provided within Table 3 below.

*Table 3: Recommended hedgehog home specifications*

Box Specification	Photograph
<p><b>Igloo Hedgehog Home</b></p> <p>This wicker Igloo Hedgehog Home is designed to be a safe retreat for hedgehogs and blend into the garden.</p> <p>The igloo can accommodate family groups and the entrance tunnel is designed to provide protection from predators such as badgers and dogs. The Igloo hedgehog house is predominately designed for shelter but may also be used during hibernation if additional garden waste is provided as cover.</p> <p>22cm x 59cm x 53cm (H x W x L)</p>	

## Drawings

Drawing 1: Ecological Enhancements Plan (Ref G10758.002)



- KEY**
- Site boundary
  - Ecological Enhancement**
  - Bat box
  - Swift box
  - ★ Hedgehog home

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 Derived from drawing D 1420 PLANNING oct V3 2024 Sheet PL00 PRO SITE PLAN.



Rev	Description	Drawn	Approved	Date

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