

Bat Activity Surveys at
Barn 1, Oddi ar y Twmpath,
Garth, Glyn Ceiriog,
Wrexham LL20 7LY
SJ 20219 38200

on 19th August and 21st September 2022

Report completed 6th October 2022
Ref: ODD190822

Survey by:
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Introduction

Susan Worsfold BSc (Hons) ACIEEM is an experienced wildlife surveyor, licensed bat and great crested newt worker and voluntary bat roost visitor. Registration number CLS0895 2015-12555-CLS-CLS (CL15 Bat Roost Visitor Level 1) and registration number CLS 0895 2015-12556-CLS-CLS (CL18 Bat Survey Level 2) (Natural England) and S089569-1 (Natural Resources Wales); Great crested newt licence registration number 2016-19947-CLS-CLS (NE) and S089570-1 (NRW)

This report was commissioned by John Lloyd, the owner.

The purpose of the report is to provide results from bat emergence surveys as recommended in the Protected Species Survey carried out by Dunelm Ecology in March 2020. This is necessary to comply with local planning policy and government legislation and avoid any offence being committed. Also, to describe any compensation, mitigation and enhancement measures which should be taken.

Methodology

Scope of the Assessment

The report describes the methods and results of the emergence surveys to supplement the previous report.

Field Survey

Two dusk emergence surveys were carried out in accordance with *Bat surveys for professional ecologists: Good Practice Guidelines (3rd Edn)* (Collins 2016) and the Interim Guidance Note: Use of night vision aids for bat emergence surveys and further comment on dawn surveys (*Bat Conservation Trust, May 2022*).

Frequency division detectors were used to record any bat sounds around the building for later analysis on the computer. These were Peersonic RPA3.

Infrared night vision aids (NVAs) were used alongside observers. These were Nightfox Red night vision goggles, mounted on tripods, with Nightfox XB5 IR torches.

Assessment of Effects and Mitigation Measures

There is not considered to be any threat to the conservation status of bats but there is potentially some danger of harm to individuals as the building was being used by roosting bats. The proposed work will entail the loss of a roost for three common pipistrelle bats. However, with appropriate mitigation and compensation the risks and effects can be reduced to an acceptable level.

A licence will be needed from Natural Resources Wales (NRW) before work can commence. A brief indication of what this will include is below:

.A licensed bat worker must be present during removal of the roof.

Exclusion of bats from access points will be carried out by a licensed bat worker before work begins and the gaps will be permanently blocked.

Work should take place between the months of April and October to minimise the risk of disturbing hibernating bats.

A bat box will be fitted at the south gable end.

If bats are found at any stage of the development then work in that area must stop and a licensed bat worker contacted for advice.

A lighting plan should be designed in accordance with the Bat Conservation Trust guidelines:
<https://www.theilp.org.uk/documents/guidance-note-8-bats-and-artificial-lighting/>

Emergence Surveys

19/8/22

Observer or area

Sue Worsfold (SW) south west corner

Craig Thomas (CT) north east corner

Equipment

Peersonic RPA3 + Nightfox Red NVA

Peersonic RPA3 + Nightfox Red NVA

Bats recorded:

Common pipistrelle (*Pipistrellus pipistrellus*)

Soprano pipistrelle (*Pipistrellus pygmaeus*)

Noctule (*Nyctalus noctula*)

Long eared bat, presumed brown long eared (*Plecotus auritus*)

<i>Observer or Area</i>	<i>Time</i>	<i>No. of Bats</i>	<i>Observation</i>	<i>Identification from visual or correlation with sonograms</i>
SW	20:42	1	Flew SW to NE	Soprano pipistrelle
SW	21:20	1	Flew N to S	Common pipistrelle
SW	21:22	1	Foraging nearby	Common pipistrelle
CT	20.42	1	From behind barnheading NE	Soprano pipistrelle
CT	20.45	1	Flew S to N	Common pipistrelle

21/9/22

Observer or area

Sue Worsfold (SW) south west corner

Craig Thomas (CT) north east corner

Equipment

Peersonic RPA3 + Nightfox Red NVA

Peersonic RPA3 + Nightfox Red NVA

Bats recorded:

Common pipistrelle (*Pipistrellus pipistrellus*)

Soprano pipistrelle (*Pipistrellus pygmaeus*)

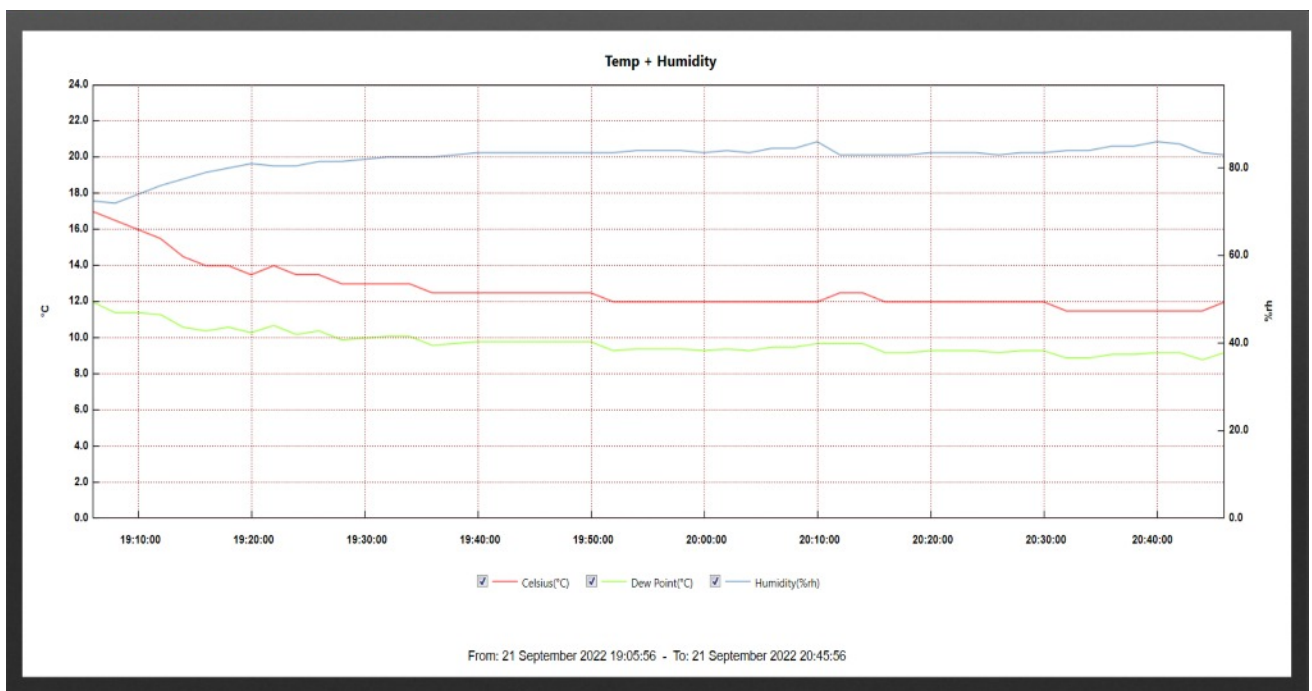
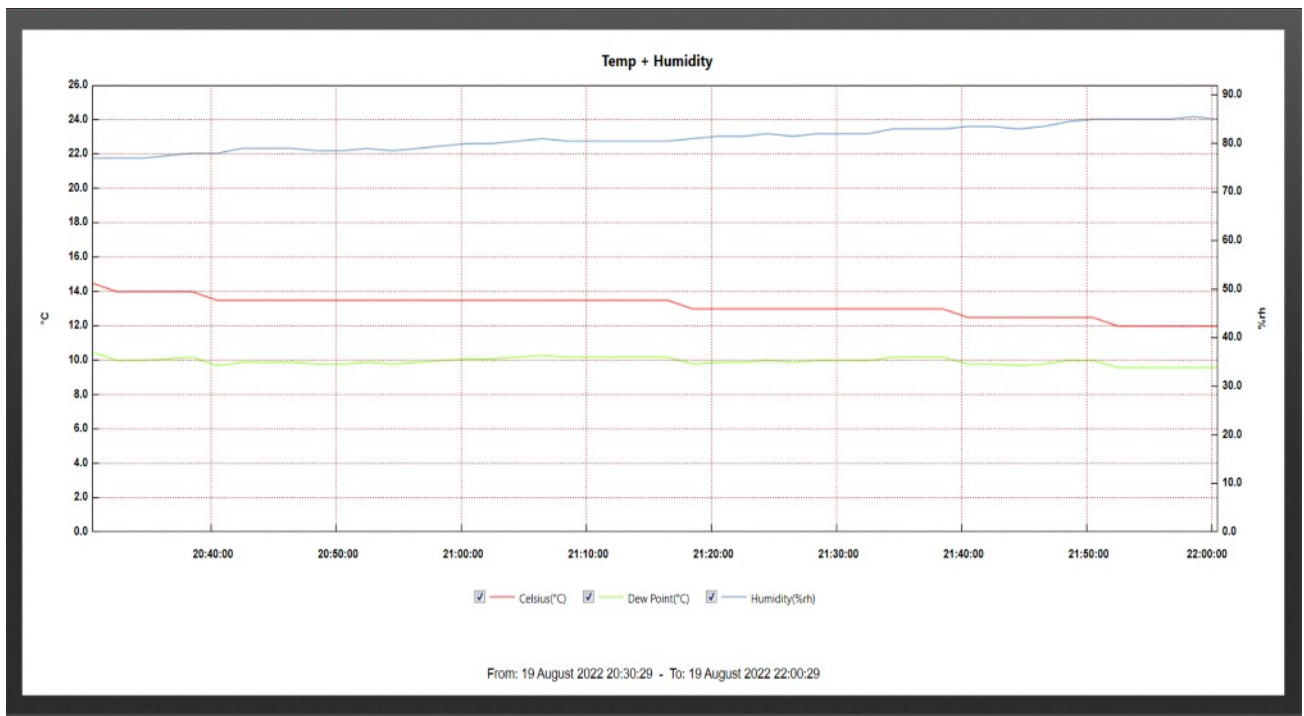
Long eared bat, presumed brown long eared (*Plecotus auritus*)

Myotis sp., probably Daubenton's bat (*Myotis daubentonii*)

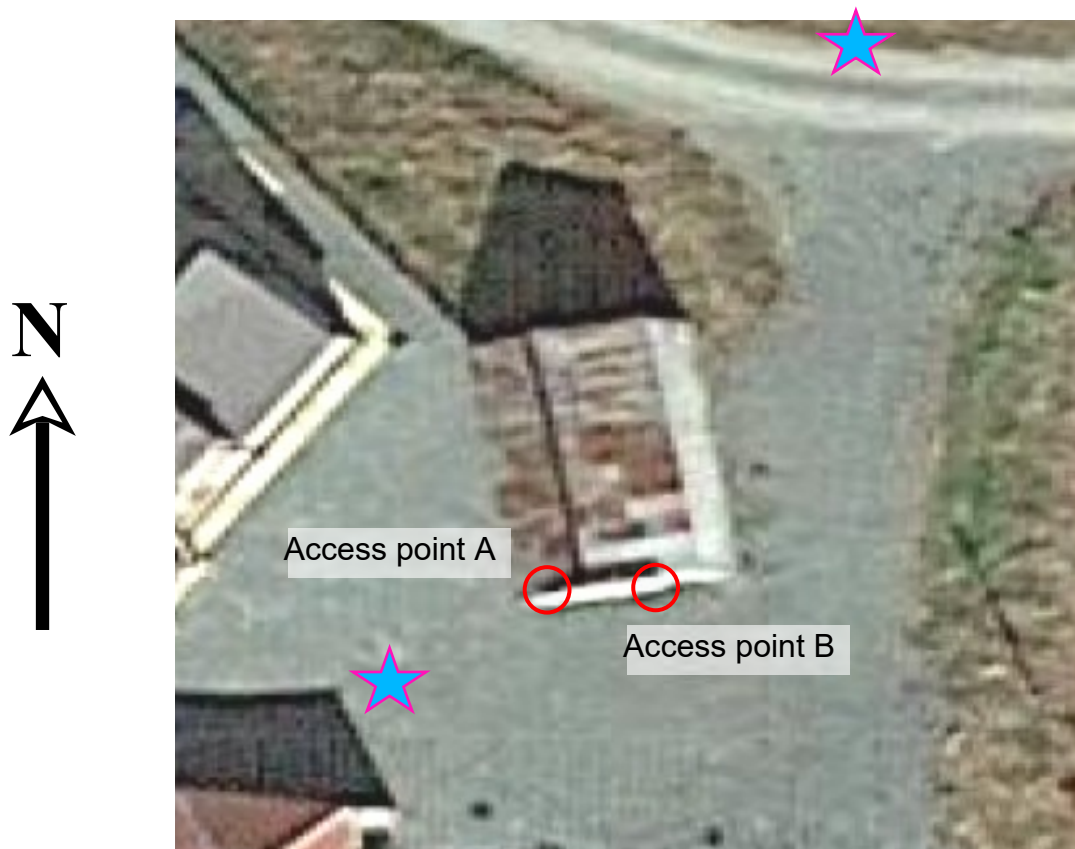
<i>Observer or Area</i>	<i>Time</i>	<i>No. of Bats</i>	<i>Number of Bats and Observation</i>	<i>Identification from visual or correlation with sonograms</i>
SW	19:14	1	Flew S to N	Soprano pipistrelle
SW	19:25	1	Emergence from under roof, west slope half way down.(access point A)	Common pipistrelle
SW	19:32	1	Emergence from gap between timber and stone at S gable end (access point B)	Common pipistrelle
SW	19:35	1	Emergence from gap between timber and stone at S gable end (access point B)	Common pipistrelle
SW	20:11	1	Flew E to W	Common pipistrelle
SW	20:19	1	Flew S to N	Common pipistrelle
CT	19:24	1	Flew W to E	Common pipistrelle
CT	19:26	1	Round corner of barn	Common pipistrelle
CT	19:46	1	In open above drive	Common pipistrelle

Survey Conditions

Date	Sunset/ Sunrise	Start Time	End Time	Temp. Start °C	Relative Humidity Start %	Temp. End °C	Relative Humidity End %	Cloud %	Wind 0-12
19/8/22	20:30	20:15	22:00	21	60	12	85	10	0
21/9/22	19:15	19:00	20:45	14	72	12	85	10	0



Aerial Photograph Showing Positions of Observers



★ Observer, NVA and bat detector

Photograph Showing Access Points

