

Landscape, Arboricultural & Ecological Solutions for the Built Environment

**Bat Nocturnal Surveys** 

Lodge Farm, Worthenbury, Crewe by Farndon, CH3 6PA

Ref: P.1847.23

## Date: August 2023

(See revision dates below)

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# EXECUTIVE SUMMARY

Following a Preliminary Ecological Appraisal and Daytime Building Inspection, Ascerta has been instructed by Philip Feeney Ltd to carry out a nocturnal bat surveys of buildings B2a, B4 and B5 at Lodge Farm, Worthenbury, Crewe by Farndon, CH3 6PA (hereafter referred to as the site).

Following the nocturnal bat surveys, a day roost in use by a small number of common pipistrelle and soprano pipistrelle bats was identified within building B5. Bats were not identified roosting in buildings B2a and B4 at the time of the surveys. A summary of findings from the nocturnal surveys is detailed below.

During the dusk emergence survey on 17<sup>th</sup> July 2023, a single common pipistrelle bat was recorded emerging from under a ventilation gap along the ridgeline of the eastern elevation of B5. The location can be viewed on drawing P.1847.23.E02 in Appendix 1 and in photograph 1 in Appendix 5. No bats were recorded emerging buildings B2a and B4. A moderate level of foraging and commuting activity was recorded throughout the survey with common pipistrelle, soprano pipistrelle, noctule and brown long-eared bats the only bat species recorded. Surveyor LA was equipped with a Sony AX53 4K, with two Nightfox XC5 infrared torches which recorded no bats emerging B5 on the western elevation.

During the dawn re-entry survey on 4<sup>th</sup> August 2023, four common pipistrelle bats were recorded reentering building B5. Three bats were observed flying under a gap on the doorframe on the eastern elevation and a single bat was noted re-entering under tile on the eastern elevation. The locations can be viewed on drawing P.1847.23.E03 in Appendix 1 and in photographs 2 and 3 in Appendix 5. A low level of foraging and commuting activity was recorded throughout the survey with common pipistrelle, noctule and brown long-eared bats the only bat species recorded. Surveyor LA was equipped with a Sony AX53 4K, with two Nightfox XC5 infrared torches which recorded no bats re-entering B5.

During the dusk emergence survey on 21<sup>st</sup> August 2023, a single common pipistrelle bat was observed flying from under a gap on the doorframe on the eastern elevation and a single soprano bat was noted emerging from under tile on the eastern elevation. The location can be viewed on drawing P.1847.23.E04 in Appendix 1. A low level of foraging and commuting activity was recorded throughout the survey with common pipistrelle, soprano pipistrelle, noctule and brown long-eared bats the only bat species recorded. Surveyor LK was equipped with a Sony AX53 4K, with two Nightfox XC5 infrared torches which recorded no bats emerging from B5.

The buildings within the site also provide opportunities for nesting birds.

If the following recommendations below are followed these species will not be adversely affected by the proposals;

An application to Natural England will need to be made with regards to acquiring a European Protected species licence in order that the bat roost can be destroyed in the appropriate manner at building B5;

If works are not begun by August 2024, a further daytime assessment or nocturnal surveys may be required to confirm bats are not using the buildings (B2a and B4) as a roost;

Production of a Bat Mitigation Measures report to be produced and implemented to ensure there is no loss of roosting provision or harm to bats during the works;

Soft demolition of buildings B2a and B4 under ecological supervision (section 5) and a Tool Box Talk to be given to all contractors;

No works to be undertaken at B5 between the start of May and the end of July/early August to allow the swallows to nest with no disruption;

Street lighting and lighting within public area to be kept to a minimum to meet the Bat Conservation;

Building works should not be undertaken during the bird breeding season (between 1<sup>st</sup> March and 31<sup>st</sup> August) or a nesting bird check will be required by a suitably experienced ecologist; and Habitat enhancement with the installation of a mixture of bird nest features and bat box attached to new buildings with the number of boxes to be determined upon finalised formal plans.

# 1.0 Introduction

Ascerta has been instructed by Philip Leeney Ltd to carry out nocturnal bat surveys of buildings B2a, B4 and B5 within the site. The site OS grid reference is SJ 424 534 and the What3Words reference is design.conqueror.album. The extent of the site is displayed in photograph 1.1 below.



Photograph 1.1; Site Extent – Google Maps accessed 2023.

#### Site Description

The site comprises five agricultural buildings (B1-B5) surrounded by hardstanding encroached with short perennial/ephemeral vegetation. Pockets of semi-improved grassland, scrub and tall ruderal vegetation are present throughout the site. Species poor hedgerow partially lines the northern, southern, and western site boundaries and scattered trees are present throughout.

#### Previous Preliminary Bat Roost Assessment/ Preliminary Ecological Appraisal

The site was visited on 14<sup>th</sup> June 2023 by Lizzie Atkinson when a Preliminary Ecological Appraisal, which includes an assessment of the potential for protected species to be using the site or surroundings, was carried out in accordance with the Handbook for Phase 1 Habitat Survey: A Technique for Environmental Audit (JNCC, 2010). The report was prepared following methods detailed in the CIEEM 'Guidelines for Ecological Impact Assessment in the UK and Ireland' (2018) and 'Guidelines for Ecological Report Writing' (2017).

During this assessment, it was found that buildings B1, B2 and B3 had negligible potential for roosting bats. Building B2a and B4 had low potential for roosting bats and building B5 had high potential for roosting bats.

#### Previous Ecological Surveys by Rachel Hacking Ecology

A Preliminary Ecological Appraisal was previously carried out by Rachel Hacking Ecology in April 2017 (Extended Phase 1 Habitat Survey, Lodge Farm, Crewe-by-Farndon, Cheshire, 2017). A Daytime Bat Survey was also carried out by Rachel Hacking Ecology in March 2017 (Daytime Bat Survey at Lodge Farm, Crewe-by-Farndon, Cheshire, March 2017).

During the Daytime Bat Survey, a roost for brown long-eared bat was identified within building B5.

#### Rationale

From the previous PEA it has been determined that the habitats on site have been valued as having low suitability for commuting and foraging bats. Buildings B1, B2 and B3 provide negligible potential for roosting bats. Buildings B2a and B4 provide low potential for roosting bats and building B5 provides high potential for roosting bats. Therefore, to comply with current legislation (see Appendix 4) nocturnal bat surveys must be undertaken on buildings B2a, B4 and B5.

#### **Nesting Birds**

During the course of the survey(s), evidence of and/or observations of nesting birds within the site may be identified. Any information regarding nesting birds on site will be mapped and discussed further within the report, including recommendations for further actions, where applicable, in order to satisfy current wildlife legislation and to achieve our client's objectives.

#### Survey Report

This report was prepared following methods detailed in the CIEEM 'Guidelines for Ecological Impact Assessment in the UK and Ireland' (2018) and 'Guidelines for Ecological Report Writing' (2017).

This report presents the results of the bat survey's undertaken following the guidelines set out by the Bat Conservation Trust (Collins 3rd Edition 2016) and Interim Guidance Note, May 2022.

The report includes recommendations for further actions where applicable in order to satisfy current wildlife legislation and to achieve our client's objectives. Relevant legislation is detailed within Appendix 4.

# 2.0 Objectives

Our client's objectives are to ascertain the potential ecological constraints of the proposed development site.

Our objectives are as follows:

Carry out nocturnal bat surveys of buildings B2a, B4 and B5 within the site; Provide recommendations for mitigation measures where current legislation requires; Provide recommendations that seek to enhance the ecological value of the site; and Provide recommendations to assist our clients in achieving their objectives whilst satisfying current wildlife legislation.

# 3.0 Survey Methods

The following bat surveys will be undertaken following the guidelines set out by the Bat Conservation Trust (Collins 3rd Edition 2016) and Interim Guidance Note, May 2022.

## 3.1 Desk Study

The local biological records centre RECORD will be consulted for records of bats within 2km of the site in June 2023. A review of the designated sites and habitats within 2km of the site will be undertaken using the Multi-Agency Geographic Information for the Countryside (MAGIC) and the Natural England websites. The full results are given in P.1847.23 Preliminary Ecological Appraisal and Day Time Building Inspection, Lodge Farm, Worthenbury, Crewe by Farndon, CH3 6PA, August 2023 and should be read in conjunction with this report. Only findings relating to bats are detailed in this report.

Any European Protected Species Licence (EPSL) applications within 2km of the site will also be searched for and detailed in Section 4.1.

## 3.2 Bat Emergence/ Re-entry Survey Methods

During Bat Emergence and Re-entry surveys, surveyors will be strategically positioned around the buildings (locations marked on drawing P.1847.23.E02, P.1847.23.E03, P.1847.23.E04, in Appendix 1), focussing on areas where potential access points had been identified during the Preliminary Bat Roost Assessment to observe any bats leaving or entering a roost. These will be recorded, and any emergences/re-entries will be identified on drawings in Appendix 1. Surveyors will also record any general bat activity whilst on the site during the survey.

The dusk emergence survey on 17<sup>th</sup> July 2023 commenced 15 minutes before sunset and continue until 1 hour and 30 minutes after sunset.

The dawn re-entry survey on 4<sup>th</sup> August 2023 commenced 2 hours before sunrise and continued 15 minutes after sunrise.

The dusk emergence survey on 21<sup>st</sup> August 2023 commenced 20 minutes before sunset and continued until 1 hour and 30 minutes after sunset.

During the survey, the following details will be noted:

Weather and temperature; Time bat detected / seen and if they emerged from or entered the building; Frequency at which the bat was detected; Location of bats and if they were foraging and commuting; Direction of flight; and Number and species of bats present.

## 3.3 Surveyor and Equipment Information

Table 3.1: Survey equipment used by the surveyors during emergence/re-entry surveys on 17<sup>th</sup> July 2023, 4<sup>th</sup> August 2023 and 21<sup>st</sup> August 2023.

Date	Surveyors	Equipment
17 <sup>th</sup> July 2023		Echo Meter Touch (EMT) connected to Samsung A12 mobile phone, Bat Box Duet and Sony AX53 4K, with two Nightfox XC5 infrared torches.
		EMT connected to iPhone
		Anabat Scout
		Peersonic RPA3 detector
4 <sup>th</sup> August 2023		EMT connected to Samsung A12 mobile phone and Sony AX53 4K, with two Nightfox XC5 infrared torches.
		EMT connected to Amazon Fire tablet
		Peersonic RPA3 detector
		Anabat Scout
21 <sup>st</sup> August 2023		Echo Meter Touch (EMT) connected to an iPad Mini and Sony AX53 4K, with Nightfox XC5 infrared torches
		EMT connected to Amazon Fire tablet
		Anabat Scout
		Peersonic RPA3 detector

#### 3.4 Data Collection and Analysis

During bat emergence/ re-entry surveys, surveyors will also collect bat call data on their respective equipment (see Section 3.5).

Temperature, wind speed/direction and cloud cover were recorded at the beginning and end of the survey, along with any significant weather changes during the survey (e.g. heavy showers).

## 3.5 Limitations

The surveys were undertaken during the appropriate time of year and within suitable weather conditions.

During the nocturnal bat surveys, surveyors were strategically positioned around the buildings in order to monitor all access features identified during the building inspection undertaken in June 2023 therefore not considered a limit the conclusions of this report.

The absence of biological data records does not necessarily mean the absence of species. This has been taken into account within the conclusions of the report.

## 4.0 Survey Results

### 4.1 Desk Study

Records for common pipistrelle, daubenton's bat, noctule bat, soprano pipistrelle, Nathusius' pipistrelle, brown long-eared bat, whiskered bat, natterrer's bat and unknown pipistrelle species were returned within 2km of the site.

No European Protected Species Licence (EPSL) applications within 2km of the site since 2017 was identified using Magic Maps.

### 4.2 Survey Conditions

#### Weather Conditions

During each survey, surveyors recorded weather conditions. The table below shows the weather conditions for each survey undertaken on 17<sup>th</sup> July 2023, 4<sup>th</sup> August 2023 and 21<sup>st</sup> August 2023.

Survey date	Temp ( <b>°</b> c)	Cloud Cover ( <sup>0</sup> / <sub>8</sub> )	Wind (Beaufort Scale)	Precipitation
17 <sup>th</sup> July 2023	14	1/8	FO	Dry
(start of survey)				
17 <sup>th</sup> July 2023	13	1/8	FO	Dry
(end of survey)				
4 <sup>th</sup> August 2023	14	8/8	FO	Dry
(start of survey)				
4 <sup>th</sup> August 2023	14	8/8	FO	Dry
(end of survey)				
21 <sup>st</sup> August 2023	18	1/8	F1	Dry
(start of survey)				
21 <sup>st</sup> August 2023	17	3/8	F1	Dry
(end of survey)				

Table 4.1: Weather conditions

#### Survey Timings

The following table shows bat survey timings for all surveys undertaken on 17<sup>th</sup> July 2023, 4<sup>th</sup> August 2023 and 21<sup>st</sup> August 2023.

#### Table 4.2: Survey timings

Survey Date	Dusk/Dawn Time	Survey Start Time	Survey End Time
17 <sup>th</sup> July 2023	21:28	21:13	22:58
4 <sup>th</sup> August 2023	05:33	03:55	05:48
21 <sup>st</sup> August 2023	20:27	20:00	21:57

## 4.3 Bat Emergence/re-entry surveys

Bat emergence/re-entry surveys were undertaken on 17<sup>th</sup> July 2023 for B2a, B4 and B5, 4<sup>th</sup> August 2023 and 21<sup>st</sup> August 2023 for B5. Detailed bat emergence/re-entry survey data can be found in Appendix 2. Table 4.3 below details the key findings for the bat emergence/ re-entry surveys.

Survey Date	Species	Activity	Location and Surveyor
17 <sup>th</sup> July 2023	Noctule (Nyctalus noctula)	Commuting	During the dusk emergence survey on buildings B2a, B4 and B5, activity commenced at surveyor location HP, located north of B2a with a commuting bat that was heard not seen (HNS) at 21:46 (28 minutes after sunset). HP recorded regular commuting activity throughout the survey, all noctule activity was HNS.
	Common pipistrelle (Pipistrellus pipistrellus)	Commuting	HP recorded intermittent common pipistrelle commuting activity throughout the survey with bats recorded flying north and south over building B2a.
	Common pipistrelle (Pipistrellus pipistrellus)	Foraging	HP recorded constant common pipistrelle foraging activity throughout the survey with bats observed foraging inside of B2a and to the north of the B2a.
	Common pipistrelle (Pipistrellus pipistrellus)	Foraging	At surveyor ND, located to the west of B2a, activity commenced at 21:55 (27 minutes after sunset) with two bats foraging within buildings B2 and B2a. Constant activity was recorded until 22:19 by up to three bats at one time. Intermittent common pipistrelle foraging was recorded between 22:01 and 22:51.
	Noctule (Nyctalus noctula)	Commuting	At surveyor JB, located on the north- western corner of B4, activity commenced at 21:54 (26 minutes after sunset) with a HNS commuting bat. Two HNS commuting bats were recorded at surveyor location throughout the survey.
	Common pipistrelle (Pipistrellus pipistrellus)	Commuting	JB recorded a bat commuting west to east at 21:55. A second bat was observed commuting west at 22:08.
	Common pipistrelle (Pipistrellus pipistrellus)	Foraging	JB recorded constant HNS foraging activity recorded between 21:56 and 22:03. Two bats were recorded foraging north of B2a between 22:08 and 22:23 and between 22:26 and 22:59.
	Soprano pipistrelle (Pipistrellus pygmaeus)	Foraging	Intermittent HNS foraging activity recorded throughout the survey at JB.

Table 4.3: Key findings regarding emergence and re-entry surveys.

Noctule (Nyctalus noctula)	Commuting	At surveyor DM, located on the north- eastern corner of B4, activity commenced at 21:53 (25 minutes after sunset) with a commuting bat that was HNS. A further six commuting bats were recorded throughout the survey with two bats observed flying south over site.
Soprano pipistrelle (Pipistrellus pygmaeus)	Foraging	DM recorded intermittent soprano pipistrelle foraging activity throughout the survey was a single bat observed foraging north of buildings B3 and B4.
Common pipistrelle (Pipistrellus pipistrellus)	Foraging	Intermittent common pipistrelle foraging activity recorded throughout the survey by DM with bats observed foraging within B3.
Common pipistrelle (Pipistrellus pipistrellus)	Commuting	At surveyor LHJ, located south-east of B4, activity commenced at 22:08 (40 minutes after sunset) with a bat commuting south-west to north-east over the building. LHJ recorded a further four commuting bats throughout the survey.
Common pipistrelle (Pipistrellus pipistrellus)	Foraging	LHJ recorded two bats foraging within the farmyard south of B4 at 22:18.
Soprano pipistrelle (Pipistrellus pygmaeus)	Commuting	A bat was recorded commuting south at 22:25.
Noctule (Nyctalus noctula)	Foraging	At surveyor DC, located south of B5, activity commenced at 21:48 (30 minutes after sunset) with a foraging bat that was HNS. Intermittent foraging activity was recorded throughout the survey.
Common pipistrelle (Pipistrellus pipistrellus)	Foraging	DC recorded foraging activity throughout the survey by up to two bats at one time. The majority of activity was concentrated to the south of B5 with bats also recorded foraging over the building.
Soprano pipistrelle (Pipistrellus pygmaeus)	Foraging	DC recorded a single foraging bat to the south-west of B5 at 22:26.
Common pipistrelle (Pipistrellus pipistrellus)	Emergence	At surveyor LH, located east of B5, activity commenced at 21:50 (22 minutes after sunset) with a common pipistrelle bat emerging from under a vent on the ridgeline on the eastern elevation (location can be viewed on P.1847.23.E02 in Appendix 1).

(Pipistrel pipistrell	us)		Intermittent common pipistrelle foraging activity throughout the survey at LH with majority of activity concentrated within the farmyard east of B5 and to the south.
Soprano (Pipistrel pygmaeu		nuting	A single bat was recorded commuting north-west at 22:22 at LH.
Noctule (Nyctalus	s noctula)	nuting	LH recorded at brief HNS commuting bat at 22:14.
Noctule	s noctula)	nuting	At HC, located east of B5, activity commenced at 21:54 (26 minutes after sunset) with a HNS commuting bat. HC recorded a further four commuting bats throughout the survey with bats observed flying north and south of B5.
Soprano (Pipistrel pygmaeu		ing	HC recorded foraging activity throughout the survey with constant activity at 22:15. Activity was concentrated to the east of B5.
Noctule (Nyctalus	s noctula)	nuting	At LA, located west of B5, activity commenced at 22:00 (32 minutes after sunset) with a bat commuting south-east over site.
Noctule (Nyctalus	s noctula)	ing	LA recorded intermittent noctule foraging activity throughout the survey with the majority of activity HNS.
Soprano (Pipistrel pygmaeu		ing	Foraging activity with up to two bats at one time recorded by LA throughout the survey with activity concentrated west and south of B5.
Common (Pipistrel pipistrelle		ing	Foraging activity with up to two bats at one time recorded by LA throughout the survey with activity concentrated west and south of B5.
(Plecotus	ng-eared bat Forag s auratus)	c .	LA recorded brief brown long-eared bat foraging activity at 22:15 and 22:48 with both bats HNS.
ventilation gap along the r 1 and in photograph 1 in a	ridgeline of B5. The loc Appendix 5. No bats w	ation can be view vere recorded em	bat was recorded emerging from under a red on drawing P.1847.23.E02 in Appendix nerging buildings B2a and B4. A moderate nout the survey with common pipistrelle,

soprano pipistrelle, noctule and brown long-eared bats the only bat species recorded. Surveyor LA was equipped with a Sony AX53 4K, with two Nightfox XC5 infrared torches which recorded no bats emerging B5 on the western elevation.

4 <sup>th</sup> August	Noctule	Commuting	During the dawn re-entry survey on B5,
2023	(Nyctalus noctula)		activity commenced at surveyor JK, located west of B5, at 03:42 (1 hour and 51 minutes prior to sunrise) with a HNS commuting bat. This bat was also recorded by surveyor AS, located south of B5. JK recorded a further two commuting bats during the survey that were both HNS.
	Common pipistrelle (Pipistrellus pipistrellus)	Commuting	Intermittent common pipistrelle commuting activity was recorded at survey JK, with bats recorded commuting east and west over the building.
	Brown long-eared bat (Plecotus auratus)	Commuting	JK recorded two distant commuting bats that were HNS during the survey.
	Common pipistrelle (Pipistrellus pipistrellus)	Foraging	Intermittent common pipistrelle foraging activity throughout the survey with majority of activity concentrated to the west of B5.
	Noctule (Nyctalus noctula)	Commuting	Surveyor AS recorded intermittent noctule commuting activity throughout the survey with all bats HNS.
	Common pipistrelle (Pipistrellus pipistrellus)	Foraging	AS recorded common pipistrelle foraging activity throughout the survey by up to two bats at one time. Activity was concentrated to the east and west of B5.
	Common pipistrelle (Pipistrellus pipistrellus)	Pass	At LH, located east of B5, activity commenced at 03:45 (1 hour and 45 minutes prior to sunrise) with a brief pass that was HNS.
	Common pipistrelle (Pipistrellus pipistrellus)	Commuting	LH recorded bats commuting to the north of B5 between 03:52 and 04:28.
	Common pipistrelle (Pipistrellus pipistrellus)	Foraging	Common pipistrelle foraging activity was recorded by up to three bats at one time between 04:48 and 05:00.
	Common pipistrelle (Pipistrellus pipistrellus)	Re-entry	LH recorded three common pipistrelle bat re-entering B5 throughout the survey. All bats re-entered the building through a gap in the doorframe on the eastern elevation (location can be viewed on P.1847.23.E03 in Appendix 1).
	Noctule (Nyctalus noctula)	Foraging	At LA, located south-east of B5, activity commenced at 03:47 (1 hour and 43 minutes prior to sunrise) with a HNS foraging bat. LA recorded a second foraging bat at 03:52.
	Common pipistrelle (Pipistrellus pipistrellus)	Foraging	LA recorded intermittent HNS foraging activity between 04:01 and 04:37.
	Common pipistrelle (Pipistrellus pipistrellus)	Foraging/dawn swarming	LA recorded constant foraging and dawn swarming activity between 04:52 and 05:02.

[	Common ninistrollo	Do ontru	A single common ninistrolle bat was
	Common pipistrelle (Pipistrellus	Re-entry	A single common pipistrelle bat was observed re-entering the building under
	pipistrellus)		a tile on the eastern elevation (location
	pipisti ellus)		can be viewed on P.1847.23.E03 in
			Appendix 1).
During the day	wn ro ontry suryoy four	common ninistrollo ha	ts were recorded re-entering building B5.
			e on the eastern elevation and a single bat
			The locations can be viewed on drawing
			Appendix 5. A low level of foraging and
			mmon pipistrelle, noctule and brown long-
			equipped with a Sony AX53 4K, with two
	frared torches which rec	5	· · · · · · · · · · · · · · · · · · ·
21 <sup>st</sup> August	Common pipistrelle	Commuting	Activity commenced at 20:27 (sunset) a
2023	(Pipistrellus		surveyor location JK, to the west of B5
	pipistrellus)		with a heard but not seen bat. Five
			further heard but not seen commuting
			bats were also recorded at the surveyor
			location during the survey.
	Common pipistrelle	Commuting	A single bat was recorded flying from
	(Pipistrellus	Ŭ	north to south adjacent to the building at
	pipistrellus)		20:53, with a second bat flying south to
			north at 20:57. A third bat then took the
			same north to south flight line at 21:00.
	Noctule	Commuting with	Three separate bats were heard but not
	(Nyctalus noctula)	intermittent	seen between 21:00 and 21:09.
		foraging	
	Brown long-eared bat	Commuting	Four heard but not seen bats were
	(Plecotus auratus)		recorded between 21:13 and 21:25.
	Soprano pipistrelle	Commuting	A single bat was heard but not seen at
	(Pipistrellus		21:15
	pygmaeus)		
	Common pipistrelle	Foraging	Activity ceased at the surveyor location
	(Pipistrellus		at 21:38 (1 hour and 11 minutes after
	pipistrellus)		sunset) with a single bat foraging
		<b>2</b>	adjacent to the building.
	Noctule	Commuting	Activity commenced at surveyor location
	(Nyctalus noctula)		LK, to the east of B5 at 20:40 (13 minutes
			after sunset) a single bat that was heard
			but not seen. Three further commuting
			bats were heard bit not seen during the
	Conrono ninistralla	Commuting	SURVEY.
	Soprano pipistrelle	Commuting	A single bat was heard but not seen at
	(Pipistrellus		20:48
	pygmaeus) Soprano pipistrelle	Foraging	Constant forgging activity was recorded
	(Pipistrellus	Foraging	Constant foraging activity was recorded between 20:56 and 21:05 adjacent to the
			-
	pygmaeus) Common pipistrelle	Commuting	eastern elevation of the building. At 20:59 a single bat was recorded flying
	(Pipistrellus		from north to south across the site.
	pipistrellus)		Two further bats were also heard but not
	pipisti cilus)		seen commuting during the survey.
			seen community during the survey.

Soprano pipistrelle (Pipistrellus         Emergence         A 21:03 a single bat was recorded to emerge from within the ridge line of B5 (location can be viewed on P.1847.23.E04 in Appendix 1).           Common pipistrelle (Pipistrellus)         Foraging         A heard but not seen bat was recorded to briefly forage at 21:14           Soprano pipistrelle (Pipistrellus)         Commuting         Activity ceased at the surveyor location at 21:44 (1 hour and 17 minutes after sunset) with a commuting bat that was heard but not seen.           Common pipistrelle (Pipistrellus)         Commuting         Activity commenced at surveyor location at 21:44, where activity ceased at the surveyor location at 20:42 (15 minutes after sunset) with a single seen but not heard bat.           Common pipistrelle (Pipistrellus)         Foraging         Between 20:58 and 21:44, where activity cessed at the surveyor location, intermittent foraging was recorded over the southern elevation of the building.           Common pipistrelle (Pipistrellus)         Foraging         A surveyor location LH, located to the east of B5, activity commenced at 20:44 (17 minutes after sunset) with a commuting bat that was also recorded at 21:08.           Common pipistrelle (Pipistrellus)         Emergence         At 20:56 a single bat emerged from the building through a gap in the doorframe on the eastern elevation (location can be viewed on P.1847.23.E04 in Appendix 1).           Common pipistrelle (Pipistrellus         Foraging         A single bat was recorded to forage adjacent to the eastern elevation of the building through a gap in the doorframe on the eastern elevation (location can be viewed on P.1	Common pipistrelle (Pipistrellus pipistrellus)	e Foraging	A single bat was recorded to briefly forage to the south-east of the building.
(Pipistrellus)       Commuting       to briefly forage at 21:14         Soprano pipistrellus       Commuting       Activity ceased at the surveyor location at 21:44 (1 hour and 17 minutes after sunset) with a commuting bat that was heard but not seen.         Common pipistrellus       Commuting       Activity commenced at surveyor location at 21:44 (1 hour and 17 minutes after sunset) with a commuting bat that was heard but not seen but not heard bat.         Common pipistrellus       Commuting       Activity commenced at surveyor location three for the survey.         Common pipistrellus       Foraging       Between 20:58 and 21:44, where activity commenced at 20:42 (15 minutes after sunset) with a single seen but not heard bat.         Three further heard       Foraging       Between 20:58 and 21:44, where activity commenced at 20:44 (17 minutes after sunset) with a single seen commuting bats were also recorded over the southern elevation of the building.         Common pipistrellus       Commuting       At surveyor location LH, located to the east of B5, activity commenced at 20:44 (17 minutes after sunset) with a commuting bat that was also recorded at 21:08.         Common pipistrelle       Emergence       At 20:56 a single bat mearged from the building through a gap in the dooframe on the eastern elevation (location can be viewed on P.1847.23.E04 in Appendix 1).         Common pipistrelle       Foraging       A single bat was recorded to forage adjacent to the easter or elevation of the building through a gap in the dooframe on the easter elevation of the building.         Pipistrellus)	Soprano pipistrelle (Pipistrellus	Emergence	•
(Pipistrellus pygmaeus)       at 21:44 (1 hour and 17 minutes after sunset) with a commuting bat that was heard but not seen.         Common pipistrelle (Pipistrellus)       Commuting       Activity commenced at surveyor location AS, to the south of B5 at 20:42 (15 minutes after sunset) with a single seen but not heard bat.         Common pipistrelle (Pipistrellus)       Foraging       Between 20:58 and 21:44, where activity cessed at the survey.         Common pipistrelle (Pipistrellus)       Foraging       Between 20:58 and 21:44, where activity cessed at the survey location, intermittent foraging was recorded over the southern elevation of the building.         Common pipistrelle (Pipistrellus)       Commuting       At surveyor location LH, located to the east of B5, activity commenced at 20:44 (17 minutes after sunset) with a commuting bat that was seen but not heard. A second bat was also recorded at 21:08.         Common pipistrelle (Pipistrellus)       Emergence       At 20:56 a single bat emerged from the building through agap in the doorframe on the eastern elevation (location can be viewed on P.1847.23.E04 in Appendix 1).         Common pipistrelle (Pipistrellus)       Foraging       A single bat was recorded to forage adjacent to the eastern elevation of the building between 20:58 and 21:03.         Soprano pipistrelle (Pipistrellus pipistrellus)       Commuting       At 21:04 a single bat was recorded flying west to east over the building.         Dygmaeus)       Commuting       At 21:44 (14 nu nu and 17 minutes after sunset) with a single bat that was heard         During the dusk emerege	(Pipistrellus	e Foraging	A heard but not seen bat was recorded to briefly forage at 21:14
(Pipistrellus)AS, to the south of B5 at 20:42 (15 minutes after sunset) with a single seen but not heard bat. Three further heard but not seen commuting bats were also recorded during the survey.Common pipistrelle (Pipistrellus)ForagingBetween 20:58 and 21:44, where activity cessed at the surveyor location, intermittent foraging was recorded over the southern elevation of the building.Common pipistrelle (Pipistrellus)CommutingAt surveyor location LH, located to the east of B5, activity commenced at 20:44 (17 minutes after sunset) with a commuting bat that was seen but not heard. A second bat was also recorded at 21:08.Common pipistrelle (Pipistrellus)EmergenceAt 20:56 a single bat emerged from the building through a gap in the doorframe on the eastern elevation (location can be viewed on P.1847.23.E04 in Appendix 1).Common pipistrelle (Pipistrellus)ForagingA single bat was recorded to forage adjacent to the eastern elevation of the building through a gap in the doorframe on the eastern elevation of the building between 20:58 and 21:03.Common pipistrelle (Pipistrellus)CommutingA single bat was recorded to forage adjacent to the eastern elevation of the building between 20:58 and 21:03.Soprano pipistrelle (Pipistrellus pipistrellus)CommutingAt 21:04 a single bat was recorded flying west to east over the building.Common pipistrelle (Pipistrellus pipistrellus)PassActivity ceased at the surveyor location at 21:44) 1 hour and 17 minutes after sunset) with a single bat that was heard but not seen.During the dusk emergence survey, a single common pipistrelle bat was observed flying from under	(Pipistrellus	Commuting	Activity ceased at the surveyor location at 21:44 (1 hour and 17 minutes after sunset) with a commuting bat that was heard but not seen.
Common pipistrelle (Pipistrellus)ForagingBetween 20:58 and 21:44, where activity cessed at the surveyor location, intermittent foraging was recorded over the southern elevation of the building.Common pipistrelle (Pipistrellus)CommutingAt surveyor location LH, located to the east of B5, activity commenced at 20:44 (17 minutes after sunset) with a commuting bat that was seen but not heard. A second bat was also recorded at 21:08.Common pipistrelle (Pipistrellus)EmergenceAt 20:56 a single bat emerged from the building through a gap in the doorframe on the eastern elevation (location can be viewed on P.1847.23.E04 in Appendix 1).Common pipistrelle (Pipistrellus)ForagingA single bat was recorded to forage adjacent to the eastern elevation of the building between 20:58 and 21:03.Common pipistrelle (Pipistrellus)ForagingA single bat was recorded to forage adjacent to the eastern elevation of the building between 20:58 and 21:03.Soprano pipistrelle (Pipistrellus)CommutingAt 21:04 a single bat was recorded flying west to east over the building.Pygmaeus)PassActivity ceased at the surveyor location at 21:44) 1 hour and 17 minutes after sunset) with a single bat that was heard but not seen.During the dusk emergence survey, a single common pipistrelle builting the dusk emergence survey, a single common pipistrelle bat was observed flying from under a gap	(Pipistrellus	e Commuting	Three further heard but not seen commuting bats were also recorded
(Pipistrellus pipistrellus)east of B5, activity commenced at 20:44 (17 minutes after sunset) with a commuting bat that was seen but not heard. A second bat was also recorded at 21:08.Common pipistrelle (Pipistrellus)EmergenceAt 20:56 a single bat emerged from the building through a gap in the doorframe on the eastern elevation (location can be viewed on P.1847.23.E04 in Appendix 1).Common pipistrelle (Pipistrellus)ForagingA single bat was recorded to forage adjacent to the eastern elevation of the building between 20:58 and 21:03.Soprano pipistrelle (Pipistrellus)CommutingAt 21:04 a single bat was recorded flying west to east over the building.Common pipistrelle (Pipistrellus pipistrellus)CommutingAt 21:04 a single bat was recorded flying west to east over the building.Common pipistrelle (Pipistrellus pipistrellus)PassActivity ceased at the surveyor location at 21:44) 1 hour and 17 minutes after sunset) with a single bat that was heard but not seen.During the dusk emergence survey, a single common pipistrelle bat was observed flying from under a gap	(Pipistrellus	e Foraging	Between 20:58 and 21:44, where activity cessed at the surveyor location, intermittent foraging was recorded over
(Pipistrellus)building through a gap in the doorframe on the eastern elevation (location can be viewed on P.1847.23.E04 in Appendix 1).Common pipistrelle (Pipistrellus)ForagingA single bat was recorded to forage adjacent to the eastern elevation of the building between 20:58 and 21:03.Soprano pipistrelle (Pipistrellus)CommutingAt 21:04 a single bat was recorded flying 	(Pipistrellus	e Commuting	At surveyor location LH, located to the east of B5, activity commenced at 20:44 (17 minutes after sunset) with a commuting bat that was seen but not heard. A second bat was also recorded at 21:08.
(Pipistrellus)adjacent to the eastern elevation of the building between 20:58 and 21:03.Soprano pipistrelle (Pipistrellus pygmaeus)CommutingAt 21:04 a single bat was recorded flying west to east over the building.Common pipistrelle (Pipistrellus pipistrellus)PassActivity ceased at the surveyor location at 21:44) 1 hour and 17 minutes after sunset) with a single bat that was heard but not seen.During the dusk emergence survey, a single common pipistrelle building to muder a gapPass	(Pipistrellus	e Emergence	At 20:56 a single bat emerged from the building through a gap in the doorframe on the eastern elevation (location can be viewed on P.1847.23.E04 in Appendix 1).
(Pipistrellus pygmaeus)       west to east over the building.         Common pipistrelle (Pipistrellus pipistrellus)       Pass       Activity ceased at the surveyor location at 21:44) 1 hour and 17 minutes after sunset) with a single bat that was heard but not seen.         During the dusk emergence survey, a single common pipistrelle bat was observed flying from under a gap	(Pipistrellus	e Foraging	A single bat was recorded to forage adjacent to the eastern elevation of the building between 20:58 and 21:03.
(Pipistrellus)       at 21:44) 1 hour and 17 minutes after sunset) with a single bat that was heard but not seen.         During the dusk emergence survey, a single common pipistrelle bat was observed flying from under a gap	(Pipistrellus	Commuting	At 21:04 a single bat was recorded flying west to east over the building.
	(Pipistrellus pipistrellus)		
A THE DECIDE ADDA DO TO A TAME A THE ADDA SEAL LED ADDE ADDE ADDA ADDA TO ADDA TO ADDA TAME ADDA TAME ADDA TAME		<b>e</b>	

During the dusk emergence survey, a single common pipistrelle bat was observed flying from under a gap on the doorframe on the eastern elevation and a single bat was noted emerging from under tile on the eastern elevation. The locations can be viewed on drawing P.1847.23.E04 in Appendix 1. A low level of foraging and commuting activity was recorded throughout the survey with common pipistrelle, soprano pipistrelle, noctule and brown long-eared bats the only bat species recorded. Surveyor LK was equipped with a Sony AX53 4K, with two Nightfox XC5 infrared torches which recorded no bats emerging from B5.

## 4.4 Evidence/ observations of nesting bird species

During the nocturnal survey, evidence/observation of nesting birds was not identified. Swallow cups were identified in building B5 during the site walkover in June 2023.

## 5.0 Evaluation and Recommendations

Based on the results of the daytime building inspection it was found that buildings B1, B2 and B3 had negligible potential for roosting bats. Building B2a and B4 had low potential for roosting bats and building B5 had high potential for roosting bats. Following the nocturnal surveys, it was confirmed a bat roost is present within that building B5. Building B5 is considered to be used a day roost, due to the small number of common pipistrelle and soprano pipistrelle bats identified during the nocturnal surveys. The nocturnal surveys confirmed that buildings B2a and B4 are not being used by roosting bats at the time of the survey.

During the dusk emergence survey on 17<sup>th</sup> July 2023, a single common pipistrelle was recorded emerging from under a ventilation gap along the ridgeline of B5 on the eastern elevation. The location can be viewed on drawing P.1847.23.E02 in Appendix 1 and in photograph 1 in Appendix 5. During the dawn re-entry survey on 4<sup>th</sup> August 2023, four common pipistrelle bats were recorded re-entering building B5. Three bats were observed flying under a gap on the doorframe on the eastern elevation and a single bat was noted re-entering under a tile on the eastern elevation. The locations can be viewed on drawing P.1847.23.E03 in Appendix 1 and in photographs 2 and 3 in Appendix 5. During the dusk emergence survey on 21<sup>st</sup> August 2023, a single common pipistrelle bat was observed flying from under a gap on the doorframe on the eastern elevation. The locations can be viewed on the eastern elevation and a single bat was noted re-entering the dusk emergence survey on 21<sup>st</sup> August 2023, a single common pipistrelle bat was noted emerging from under a gap on the doorframe on the eastern elevation and a single bat was noted emerging from under tile on the eastern elevation. The locations can be viewed on drawing P.1847.23.E04 in Appendix 1.

An application to Natural England will be required with regards to acquiring a European Protected Species licence in order that the bat roost in building B5 can be destroyed in the appropriate manner. A Bat Mitigation Method Statement will also be required.

Due to the proximity to building B5 where a day roost has been identified, it is recommended that soft demolition only under ecological supervision is undertaken for works to buildings B2a and B4. As a bat roost has been identified within B5, which directly connects to buildings B2a and B4, a nocturnal survey immediately prior to the start of works may be required to ensure bats are not using the buildings as a roost.

As such, works to buildings B1, B2, B2a, B3 and B4 within the site can proceed without being detrimental to maintenance of the local bat population at a favourable conservation status (i.e. the proposals meet the third test of the 'three test assessment' as outlined in the Habitats Regulations). Features on the building still have a potential for supporting bat roosts and bats are known to move roosts often. If works have not occurred by have not begun by August 2024, a further daytime assessment or nocturnal survey may be required to confirm bats are not using the buildings to roost.

# 6.0 Enhancements

In order to meet requirements for biodiversity protection and enhancement outlined within the NPPF, it is recommended that ecological enhancements are included. These could include:

- 1. Provision of bird boxes (25mm and 32mm entrance hole box, house sparrow terrace, swift box), attached to or integrated within retained or new buildings on site. The amount to be determined upon confirmation of proposals or in line with local council requirements;
- Provision of bat features (e.g. Vivara Pro WoodStone Bat box or similar) attached to a retained or new tree on site or provision of a bat box (e.g. Vivara bat bricks or 'bird brick houses' bat boxes) integrated within new or retained buildings. The amount to be determined following further nocturnal bat surveys or in line with local council requirements; and
- 3. Suitable landscaping incorporating species that provide a food or shelter resource to wildlife to include hawthorn, hazel, holly, blackthorn, field maple, dog rose and honeysuckle as hedgerow species and oak, alder, silver birch, crab apple, rowan and bird cherry as tree species together with implementing a relaxed mowing regime and establishing wildflowers in these areas.

# 7.0 Conclusions

Nocturnal bat surveys have been carried out at buildings B2a, B4 and B5 following the daytime building inspection, which found buildings B2a and B4 to provide low potential for roosting bats and building B5 to provide high potential for roosting bats. Following the nocturnal bat surveys, a day roost in use by a small number of common pipistrelle and soprano pipistrelle bats was identified within building B5. Bats were not identified roosting in buildings B2a and B4 at the time of the surveys. Low – moderate bat activity was recorded during the surveys with common pipistrelle, soprano pipistrelle, noctule and brown long-eared bat the only bat species recorded. The buildings also provide nesting opportunities to birds. In summary, the following recommendations have been made to avoid impact on bats and birds during the works:

- An application to Natural England will need to be made with regards to acquiring a European Protected species licence in order that the bat roost can be destroyed in the appropriate manner at building B5;
- If works are not begun by August 2024, a further daytime assessment or nocturnal surveys may be required to confirm bats are not using the buildings (B2a and B4) as a roost;
- Production of a Bat Mitigation Measures report to be produced and implemented to ensure there is no loss of roosting provision or harm to bats during the works;
- Soft demolition of buildings B2a and B4 under ecological supervision (section 5) and a Tool Box Talk to be given to all contractors;
- No works to be undertaken at B5 between the start of May and the end of July/early August to allow the swallows to nest with no disruption;
- Street lighting and lighting within public area to be kept to a minimum to meet the Bat Conservation;
- Building works should not be undertaken during the bird breeding season (between 1<sup>st</sup> March and 31<sup>st</sup> August) or a nesting bird check will be required by a suitably experienced ecologist; and Habitat enhancement with the installation of a mixture of bird nest features and bat box attached to new buildings with the number of boxes to be determined upon finalised formal plans.

It is considered that there would be very limited impact on the local ecology as a result of the proposals, provided the recommendations detailed within section 5.0 above are followed.

## 8.0 References

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Maddock, A. (2008). UK biodiversity action plan; priority habitat descriptions. UK Biodiversity Action Plan, 94pp.

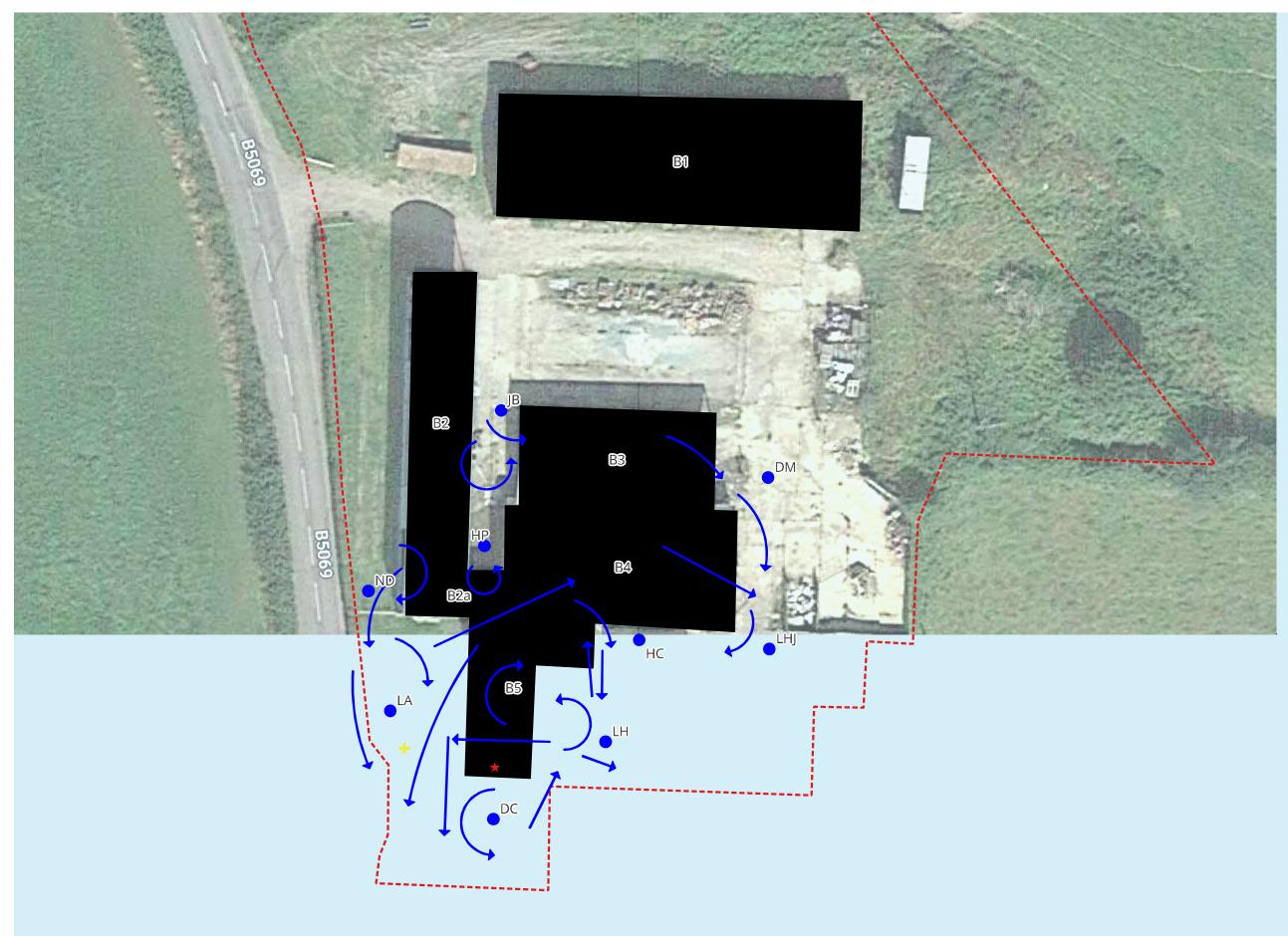
Ministry of Housing, Communities and Local Governments (2021). National Planning Policy Framework (NPPF). [online] Available at: <u>National Planning Policy Framework - GOV.UK (www.gov.uk)</u>

Multi Agency Geographic Information for the Countryside (MAGIC) [online] Available at: <u>MAGIC</u> (defra.gov.uk)



Landscape, Arboricultural & Ecological Solutions for the Built Environment

# **Appendix 1**



## Key

- Site boundary
- J3.6 Buildings
- Surveyor locations 17.07.23
- → Bat flight lines 17.07.23
- Bat emergence point 17.07.23  $\star$
- + Camera location 17.07.23

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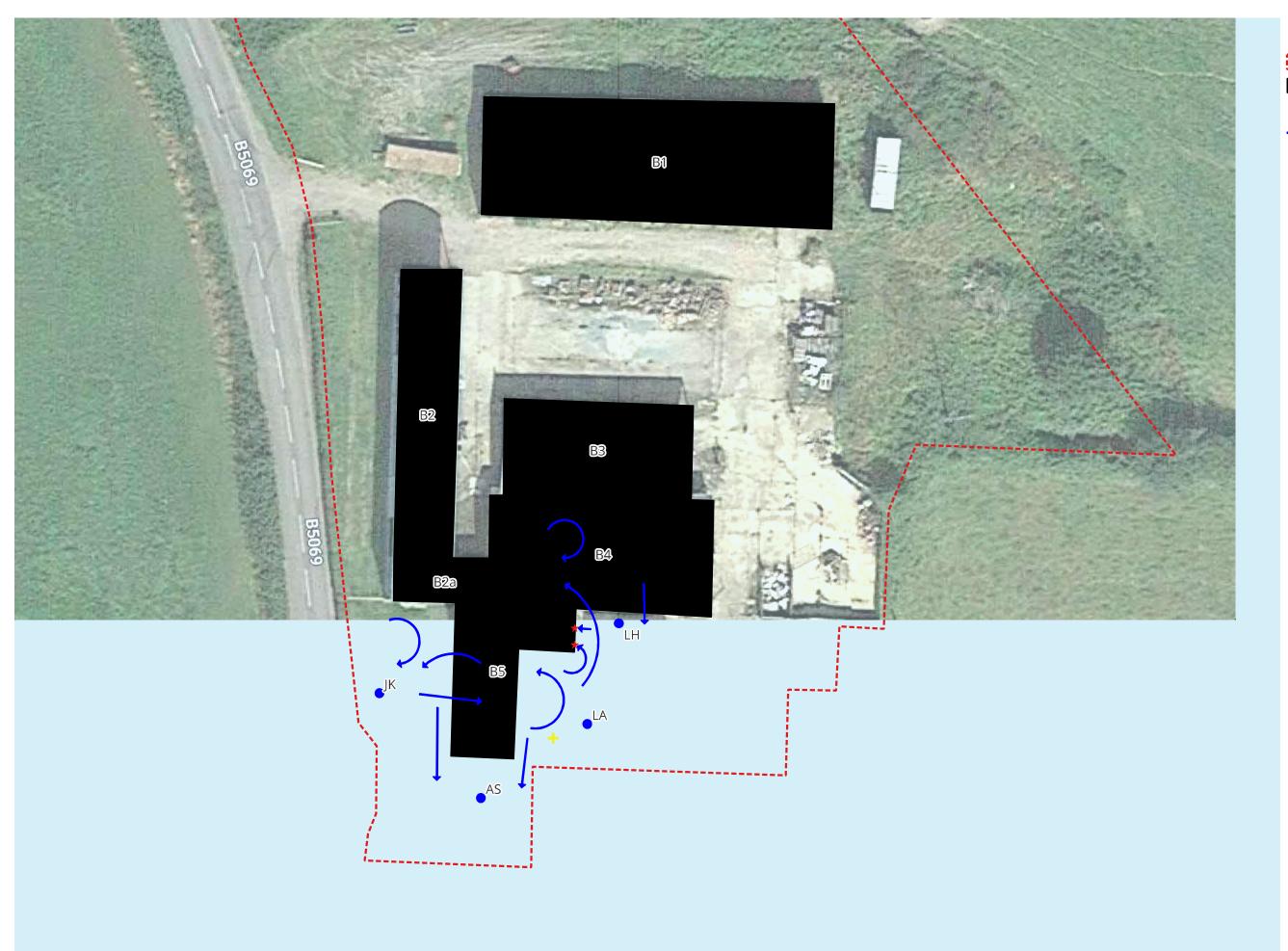
t: 0845 463 4404 e: Info@landscapetreesecology.com www.landscapetreesecology.com

CLIENT: Philip Feeney Ltd

PROJECT: Lodge Farm

DRAWING TITLE: Dusk Emergence Survey 17.07.23

SCALE:	DRAWN BY:	DRAWING No:
NTS@A3	LA	P.1847.23.E02
DATE:	CHKD BY:	REV:
22/08/2023	LK	-



## Key

- Site boundary
- J3.6 Buildings
- Surveyor locations 04.08.23
- → Bat flight lines 04.08.23
- Bat re-entry point 04.08.23  $\star$
- + Camera location 04.08.23

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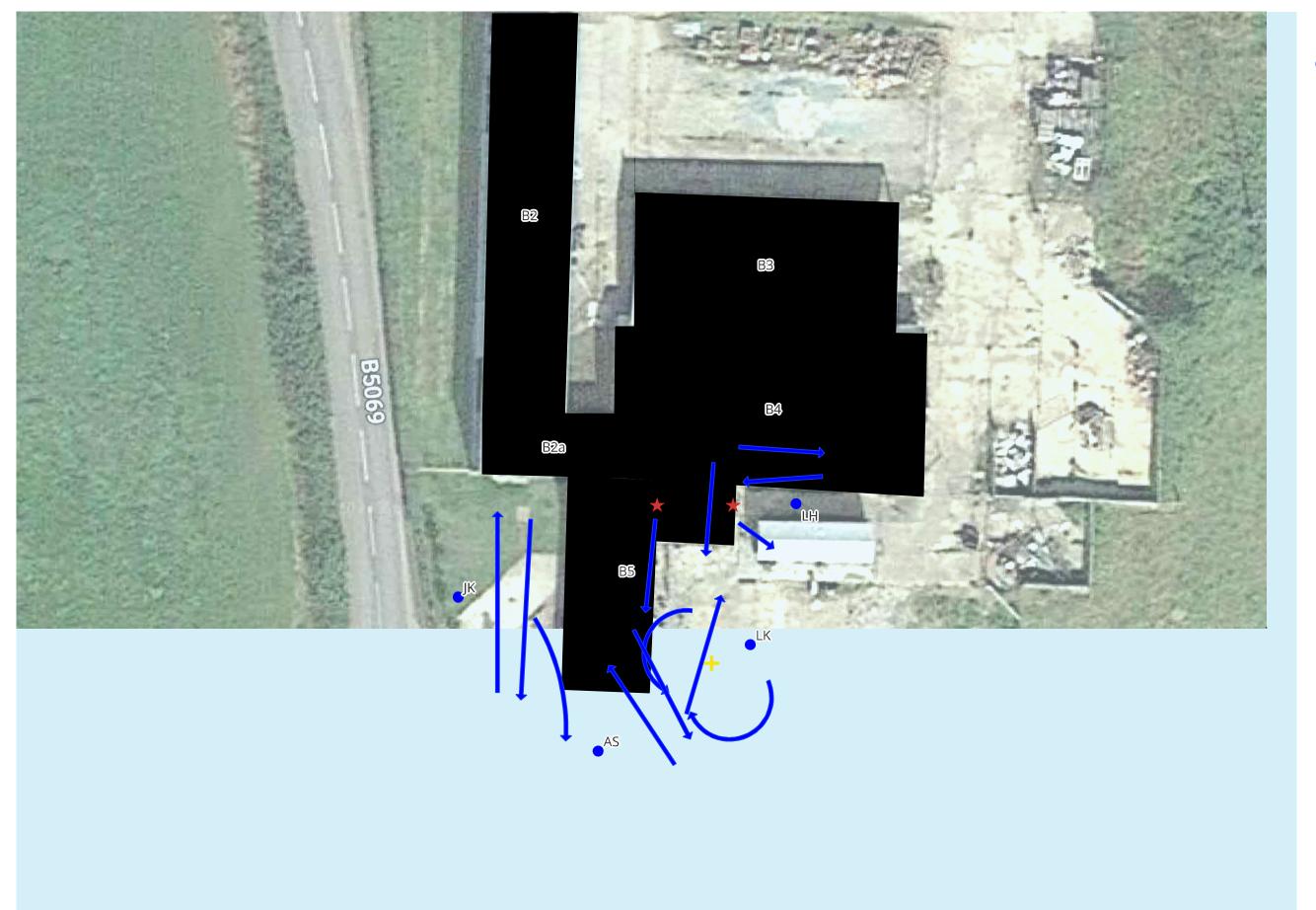
t: 0845 463 4404 e: Info@landscapetreesecology.com www.landscapetreesecology.com

CLIENT: Philip Feeney Ltd

PROJECT: Lodge Farm

DRAWING TITLE: Dusk Re-entry Survey 04.08.23

SCALE:	DRAWN BY:	DRAWING No:
NTS@A3	LA	P.1847.23.E03
DATE:	CHKD BY:	REV:
22/08/2023	LK	-



Surveyor locations 21.08.23
 Bat flight lines 21.08.23
 Bat emergence point 21.08.23
 Camera location 21.08.23

DO NOT SCALE. ALL COORDINATES RELATED TO LOCAL GRID. LOCATED TO NG BY BEST FIT TO DETAI. EXTRACTED FROM OS DIGITAL DATA.

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CLIENT: Philip Feeney Ltd

PROJECT: Lodge Farm

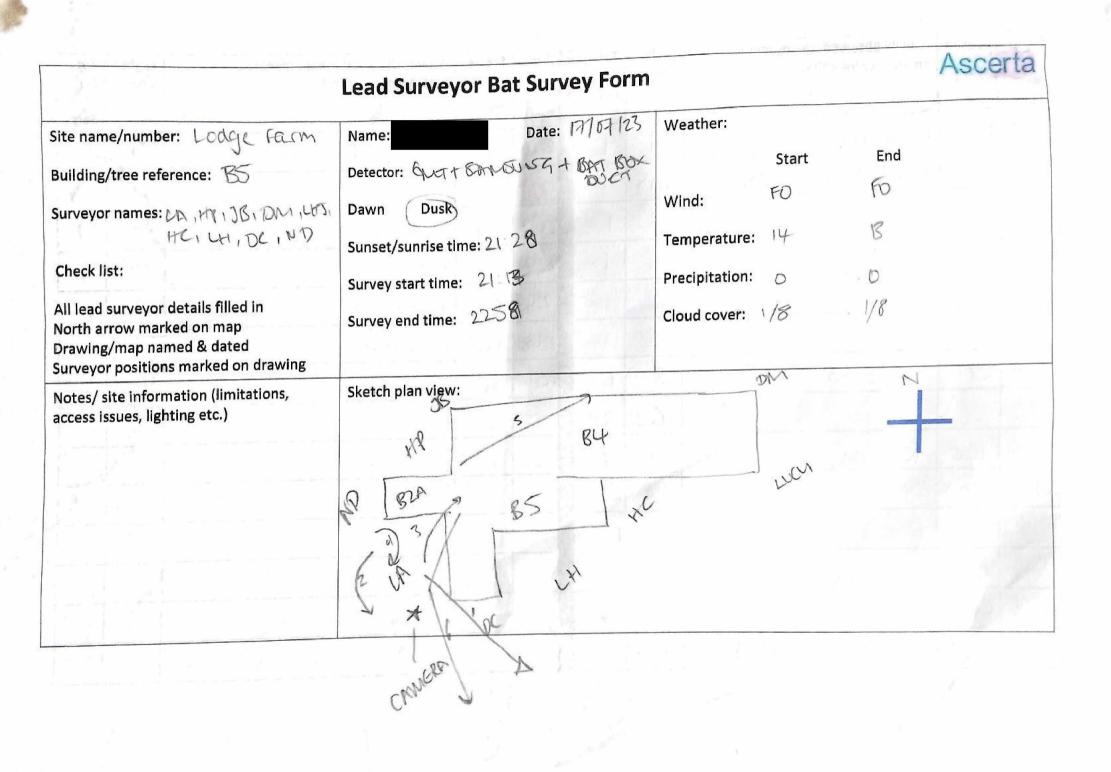
DRAWING TITLE:

	Dusk Emergence Survey							
21.08.23 SCALE: NTS@A3	DRAWN BY: LK	DRAWING No: P.1847.23.E04						
DATE: 22/08/2023	CHKD BY: LA	REV: -						

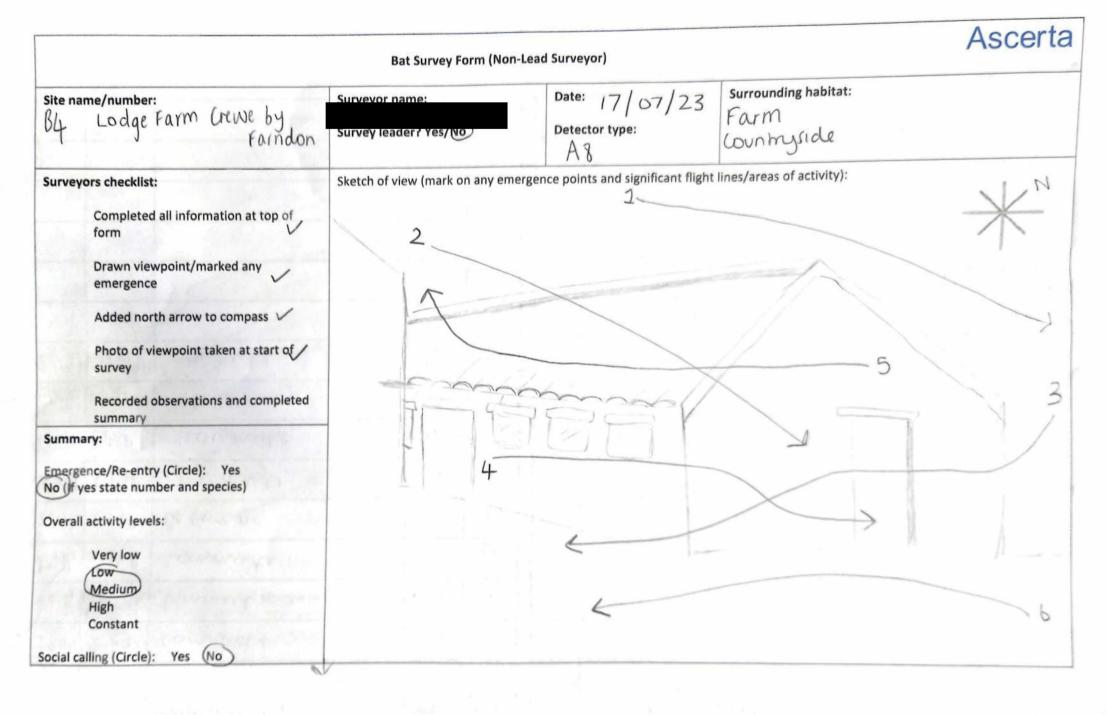


Landscape, Arboricultural & Ecological Solutions for the Built Environment

# Appendix 2



Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
22:00	NOC	communy	1	1	2226	CP	Brafus	ry.	1
2207	NOC	zistant pragues	THUS	1	2127	CP	France	416	3
22021	SP	Fraguy	2	۱	2200	Cr	Graphy	415	alvavius C
2200	Sp	Foraguy	3	5.1	2252	Cr	Ernens	MW	Serio
2208	Sp	Francis	4	1	2245	CP	Graging	MSS	1
269	NOC	Forming	5	1	22.48	BLE	Forapy	HNS	Jus in
2210	CP	Pradus	3	1	2051	SP	Grappy	THUS	Ĩ.
214	ce	Foragey	6	2					
2215	BLE	foreigne	MUS	1	P. A.				The second
216	Ср	Foraging	6	2			The All All All All All All All All All Al		
2218	CP	praping	416	1					1
2121	Ce	Brugge	416	1		1	and a state of the		
2223	Cp	Rorapy	416	2	SA	C.	1×5 4 19 19 19 19 19		
2224	MOC	Distant pary	HNS	1	- 24				

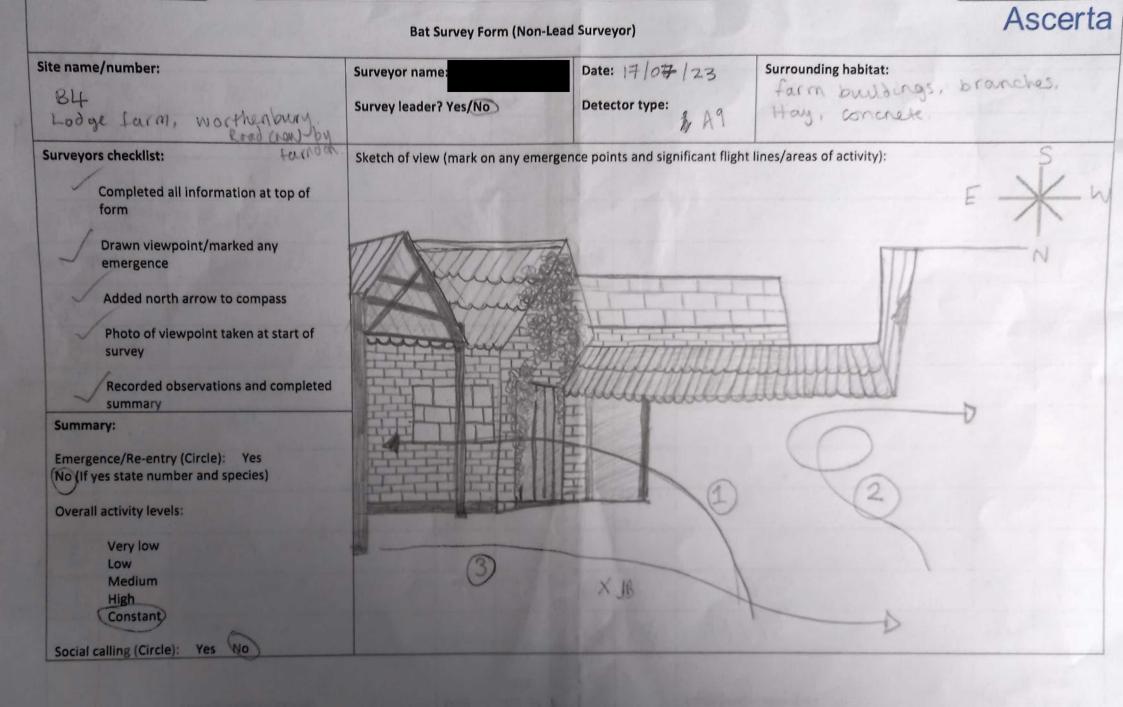


Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
22:08	срір	Commute	١	t					
22:14	A AND	Commute	2	1					
22:16		commute	3	3					
22:18	Crip	to Forage	4	\$2					
22:19	cpip	commule	5	١					
22:21	CPIP	commule	6	١					
22:51	cpp	HNS		1					
22:52	S-pip	tz commute	73	١					
	And the second	Concor Section The Section Section							
	and and	Contraction of the second		2	1				
	-				-				
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100	1.2	ALL AND	S S ASS		15	19 2 14 2 P 2 4			

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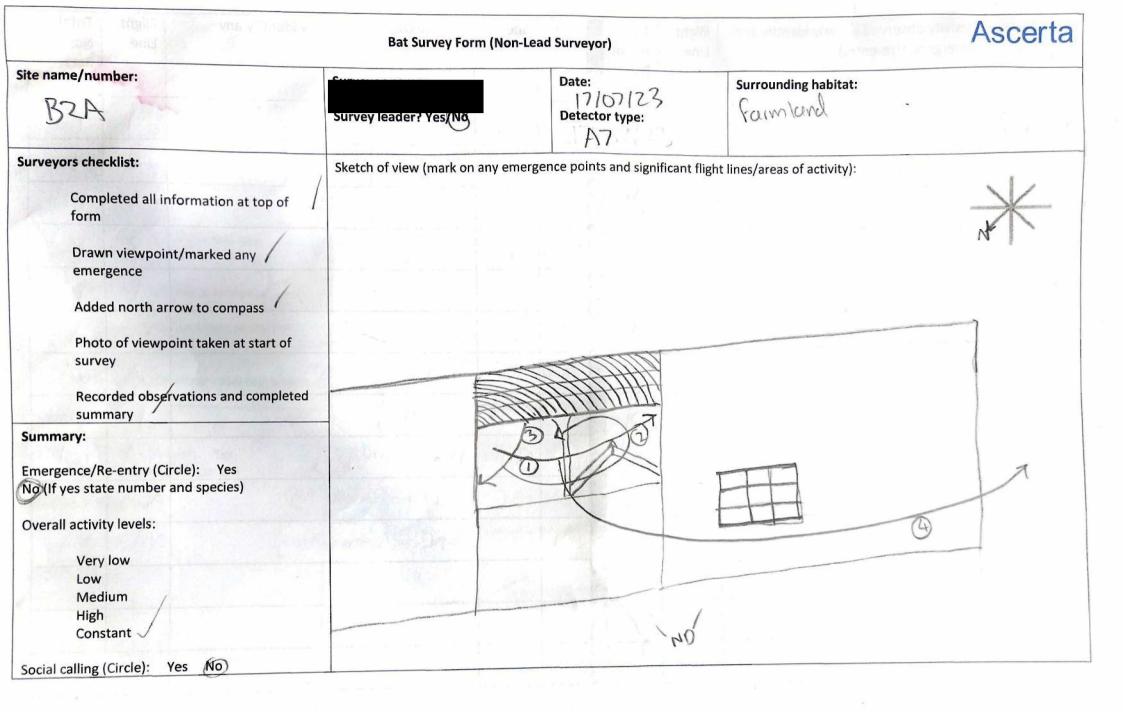
	Bat Survey Form (No	on-Lead Surveyor)	As	certa
Site name/number:	Surveyor name: Survey leader? Yes/No	Date: 17 07 23 Detector type: A2	Surrounding habitat: FARM BUILDINDS - NGARBY + GRASSLANDS	TRUES
Surveyors checklist: Completed all information at top of form	Sketch of view (mark on any e	emergence points and significant fligh	at lines/areas of activity):	KN
Drawn viewpoint/marked any emergence Added north arrow to compass Photo of viewpoint taken at start of survey Recorded observations and completed summary		- 1 management		
Summary: Emergence/Re-entry (Circle): Yes No (If yes state number and species)				A
Overall activity levels: Very low Low Medium High Constant Social calling (Circle): Yes No	時時			

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
21:53	Næ	HINS - distant puss	/	1	22.20	-25%	F/CACPIP BROMINS UN 22 29	/	2
TOLS	21.58	Na " × 3	/	1	22.25	- N	HNS -C	/	1
22:00	NOC	C+F Flying high another Than	1	1	22.34	CP	HMS - C	/	1
12.000	the Logis pice	hended south			22:37	Cp	HINS - FIC	/	J.C.
22:01	SPip	MNS C	/	1	22:45	Cp	MINS F	/	1
22.04	Noz	MNS - 11 C+F	/	1	22 50	Cpip	HNS C 11	/	1
22.06	CPIP	MNS -1111-22:09 F	1	1	22 52	Spe	HNS F	/	1
22:08	NOC	HNS CIF	/	1	22 54	Spy	MNS F	/	1
	CP.P		/	1				1	
22.14	Cpip	Floor from order root haveling	2	1		1			P
214	n	C- Keater Soon	1	1				-	
22.16	Cp:p	F - HUS - 11	1	1					
22 17	SPIP	F - MINS -11			1				
22 18	SPP	F+C- urde iron rog hoodry	3	1	1				
22:18	N-22.20	HNS - C SP - F - HNS	11		-				
22 20	CP	C from webs shorter lains solution	3		4	-	A Contraction of the top		



Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
21:54	N	HNS			22.24	SP	HNIS		
21:55	CP	commuting	1	1	22:94	SP	HNS	1	/
2156	\$ 68	constant HNS pislant	/						
2200		HNS	1	1	-K				
22:0	s sp	HNS	/	1		1 Aler			
22:0	m N	HNS	1	2				-	
22:0	11 40	proging	2	1			N.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S		
220	6 (9	Forogen 22:08 23	2	1+			and a set of		
220	N	HNS	/	/					
22	and the second division of the second divisio	commuting	3	1	1				
22	ix N	HNS	1	/					
	:4 ct	HNS	1	1					
22	:26 SP	HNS	/	/					
12	2 61	e foraging	2	2					

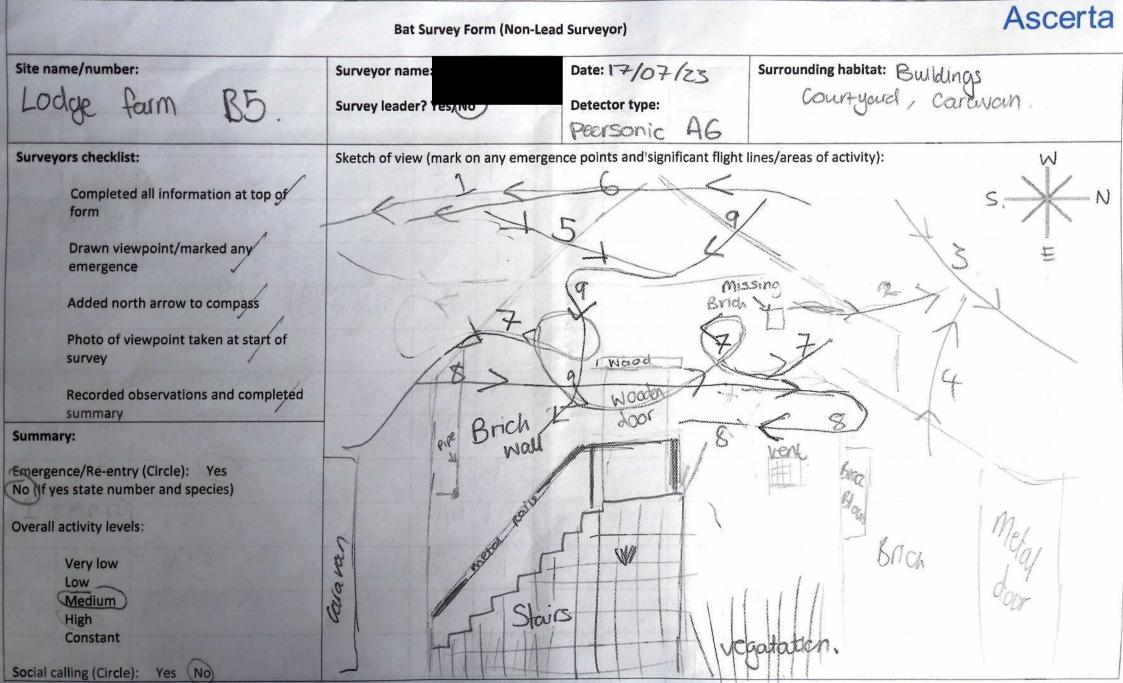
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Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
2155	CPIP	Formaging	1	2	2223	CPIP	formeging	1	1
2204		constant activity in bain	1/2/3	2/3	2200	cpip	Geneging	2	]
2204	cpip	correging	4	1	2227	cp.p	Forwarging	1	1
2206	CPIP	formequing	3	l	2224	c pip	Forwaging	2	Z
2207	CRIP	Forwaging	2	)	2230	cpip	fornuging	$\setminus$	)
2208	CPP	Formeying	Sex.	1	2032	-cp.p	formeging	1	1
nor	C.P.P	Forveging	2	2	2235	cpip	HNS - Forraging	NA	NĄ
2210	CPIP	forwaging	1	2	2257	PID	formaging	Į	1
	9.93	forraging	2	1	2239	CPIP	HNS-Forraging	NIA	NA
1213		formeging	3		2246	CP P	HNS-GOIVEging	NA	NA
215 (		Forwaging	1	Y	2251	cpip	HNS- commuting	NA	NĄ
18		constant forraging	7	15		trage pr			
	99	Forroging	4	١		104	No. of the second se	-	
	cpip	forraging	2	1			The second secon	1.2	1

	Bat Survey Form (No	n-Lead Surveyor)	A	scerta
Site name/number: Building B2A	Surveyor name:	Date: 17/03/23	Surrounding habitat:	start
Lodge Farm, Crewe by Farndon	Survey leader? Yes No	Detector type:	Farm, Fields, Trees, grass, Shrubs, Brick and tin Buildings, concrete Floo	hedges, we want
Surveyors checklist:	Sketch of view (mark on any e	mergence points and significant flig	6	+ +
Completed all information at top of form				Copito
Drawn viewpoint/marked any emergence		13		ZZ: 38
Added north arrow to compass				
Photo of viewpoint taken at start of survey	(int)	9		100
Recorded observations and completed summary	7	(6) (3)	TA I	T
Summary: Emergence/Re-entry (Circle): Yes No (If yes state number and species)	1 AG	3		anultizes .
Overall activity levels: Very low	6	M		1.Cor
Low Medium High	Concrete			and the
Constant Social calling (Circle): Yes No	B	L AP.I	Logs (12)	
Noc HIS, conmutting /1	22.2	a cpip HNS, constant, d	hatter 12 22:57 CPIP, FR(2)	ing/ constant-17
E-pip HNS, chatter constant, c	amouting 11 22:3		03.3.2 L-1/L 66.7a/0	Val Constorn him .

Time	Species	Activity observed (clearly identify any emergence/re-entry) Social calling = chatter	Flight Line	Total No. of Bats	Time	b1:22 Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
21:46	NOC 29 HJZ	commutting, HNS	/	1	21:56	(.pip	Commuting 199955	Ŧ	)
21:47	Noc 29 Htz	commutting, HNS	1	1	21:56	c.pip	Commuting, PARS	C	1
21:49	C-p.p	commutting, Pass, Foraging		١	21:57	C. pip USKHZ	For aging, HNS	1	)
21:49	Cpip	commutting, pass, Foraging	2	1	21:58	c.pip	commutting, pass	8	1
21:51	C. pip	commutting, pass, foraging	3	)	21: 58	qiq.2	commutting, PASS	9	1
21:51	c.pip	commuting, pass, foreging	E	1	21:59	Noc	For aging, HNS	1	
21:52	Noc	commutting, HNS	1	)	21:54	C.p.p	Foraging, HNS		)
21:52	C. pip	commutting, PASS, Foraging	4	1	21:59	c.pip	Foraging, HNS, constant	1	1 - 58
21:52	C.pip	commuting, pass	5	)	22:00	cipip	Foraging, constant, pars	10	1
51:25	Nec	Commutting / HNS	/	1	22:00	c.pip	tins, Foraging, chatter	/	2
21:53	cipip	foraging /pass		1	22:01	C.pip		9	)
21:54	c.blb	Foraging, HNS	ich Isethick		22:0	c pip	Ri mana di karana ka	7	1
71:54	c.pip	PASS, commutting	16	)2	1 Martin Commence	C. P.P		Ч	1
21,55	c.pip	Fornging		1	A State of Street	2 C.pip	and the state of t	12	1
22	2 1 10	Foraging, constant, HMS Foraginy, constant, HMS HMS, commuting HMS, chatter, commuting	21:07	2 Conio	, DATE (	Rala	Foraging/322:10 Cipip For, conce Foraging/322:11 Cipip Comput Foraging HIS/22:12 Cipip Comput Foraging HIS/22:12 Cipip Comput	2PASS 100	DE



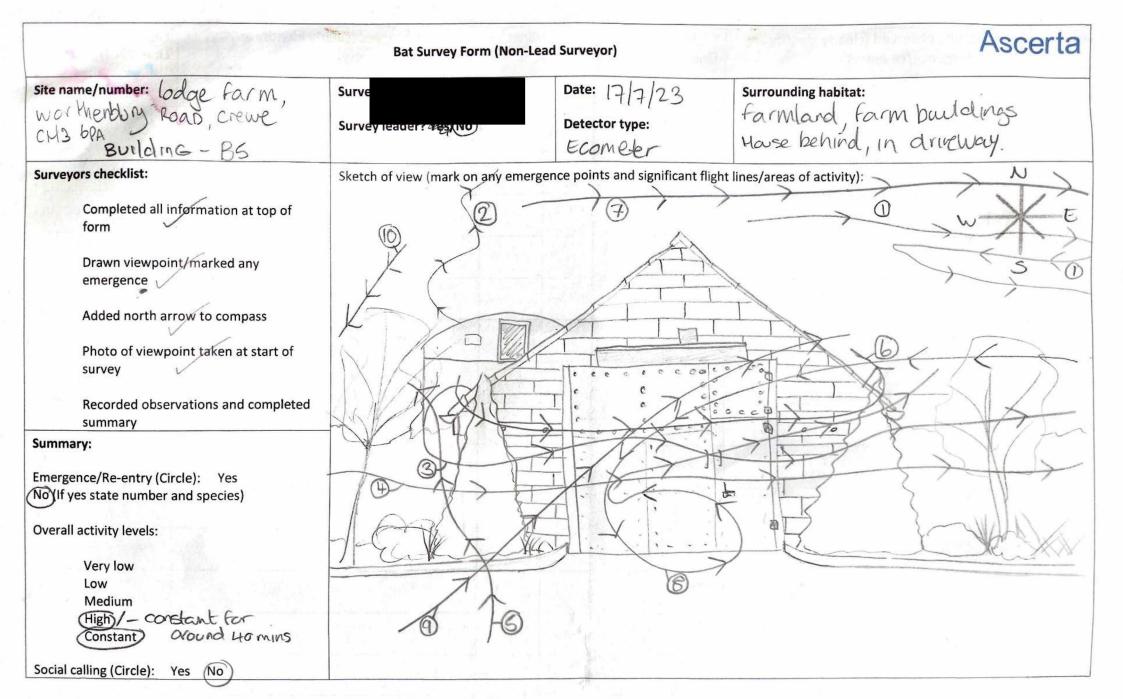
Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
21:51	NOct	HNS	NIa	1					
	Nochur		(	1	1				
21:01	SPip	Passil	2	1		D.			
22:04	Noct	HNS	NTU	1	- The				
22:0	8 Not	Commuting.	3	1					
22.1	5 Spip	Commuting	NG	1			- Real and a second		
22:	\$ Nod	Commutity	5	1					
27:1	NGOL	Comprubby	6	1	1				
227	5 SAP	Foraging (constant	17	1	1				
22%	to Noct		8	1			T		
22:1	Noct		9	1					-
22:	· Er's	Construction of Construction of Construction	7	1		-			
				a start		aline?			

1-

# 21:28.

A Constanting	Bat Survey Form (N	Ion-Lead Surveyor)	Asc
ite name/number: BS	Surveyor name	Date: 17.07.23	Surrounding habitat: Mod gassland
	Survey leader? Yes No	Detector type: Anabak Scart	with frequent hedgerows I mees
urveyors checklist:	Sketch of view (mark on any	emergence points and significant flight	
Completed all information at top of form	EN	and Server Forme and Serucant Hent	times/areas of activity):
Drawn viewpoint/marked any emergence	the are in	4	T
Added north arrow to compass	Atomeserce 12	<u> </u>	
Photo of viewpoint taken at start of survey	27		
Recorded observations and complete summary			
ummary:			
mergence/Re-entry (Circle): (es) lo (If yes state number and species) Werall activity levels:	A C	6 5 Tord	open exercised
Very low Low Medium	8 = 2 2 2005	6 Josef	, I IE
High Constant	4		1.2
thead on detector	69	10	1 /13

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
4:50	Cpip	Seen and beard.	5-5	1	nis*	(-2P	Ne entry + ne ca agence	51	2
		foraging	2	4	22:51	11	Committing	12	12
22:08	1	Commiting,	3	Juses	22:53	Spil	1/204	1	
22:12	1	Seen not heard. F	4	1					
22:13	CPire	heard not seen	/	1					
2214	Noc	head not seen	/	1					
27.15	(. 68	Committing + Foreiging	5	3					
ni.W	Andres Marcal	HNS	/	1					
2:18	-	Foraging (Hill 22:19)	6	2	1.5				
12:10	Mar	CIF	7	1		12			
22:22	S. gik	Committing	B	1	25				
VI.C	CPR	* *	9	2	1				
23.4	0	C	10	1					
1:30	-	× 2 backs chasing ceches	entre	2		Maria da constante d Constante da constante			



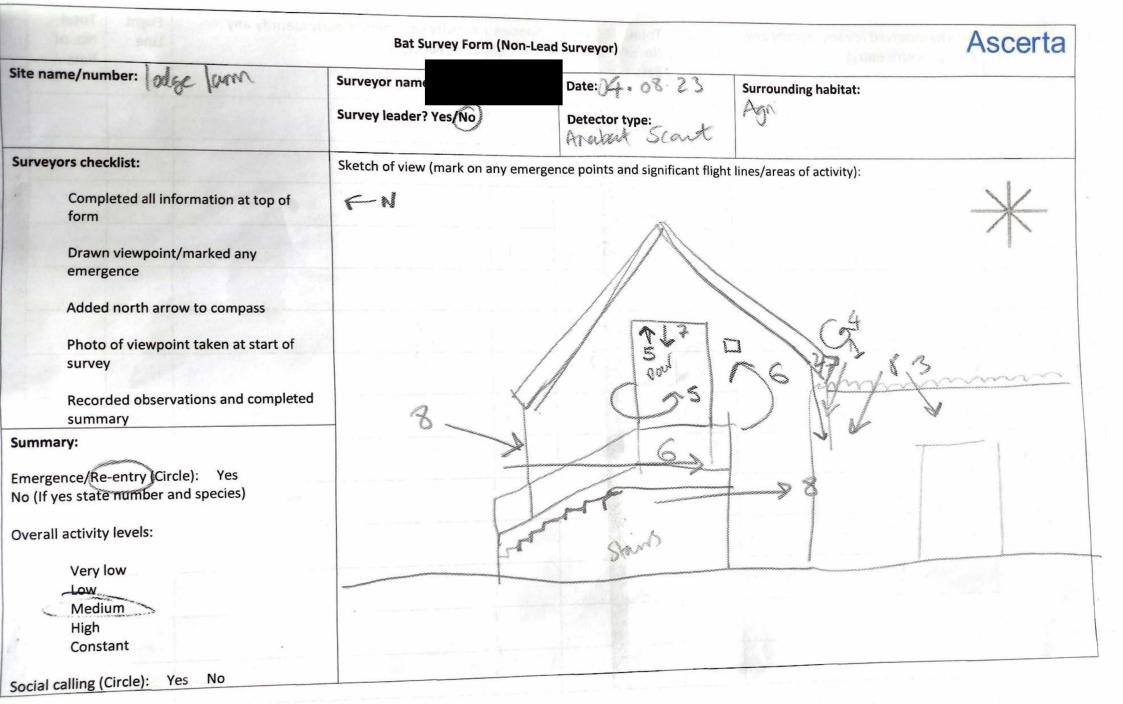
Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
	A CONTRACTOR MANY AND	Herednot seen		)	22:10	C, P, P	foraging, from behinden t	3	1
		Henred not seen	-	-	221,14	C. P.P	foraging	6	1
11:54	nochile	Foraging (very high up) p flew out of	$\bigcirc$	1	and the second se	C, lip	foraging	(3) in reverce	1
11:55	nochle	1 Continuation of the Same			27:15	nochile	foraging (Hr.)	Ð	I
21:57	nochile	Heard not seen Forasing	-	ł	22:17	C, lil	Chasing fullering, 4 malers	$\odot$	2
21:58	rochile	Neured not seen Foraging	ei.	B COLO	22'.18	C.PIP	forloging	3	1
1:59	nochle	Constant Forging-overhead seen only for few seconds	Ø	1	22:19	C. Pip	foragina	T	1
	C. P.P	foraging	3	)	n: 20	C, l, l	Foraging .	Ó	1
a'.04	C.lip	Foroging, Heared not seen Constant chatter	-	١			foraging	6	)
2:05	nochile	Forasing, hered not seen	-	1	221.22	and the second second second	torosing, heared not coen	*	1
	c, l;l	Foraging, Ecolocating over Noctule (above)	4	1		Cilli	echoicher ing	3	2
2'07	Cilil	Foraging	3 in neverse	1			Foraging, heard not seen	-	1
2:09	c.l.l	Foraging, beared not	-	1	72:26	C.P.P	foraging	6	1
	nactule	Farasing, Leared not seen	-	1	12:26	Silip	fuasing	s) in reverse	1

# Lead Surveyor Bat Survey Form

Ascerta

Site name/number: Lodge Fam	Name: Date: 64/08/23	Weather:
Building/tree reference:	Detector: GUTTOPMSUNG AM	Start End
Surveyor names: UA, UHIAS, JK	Dawn Dusk	Wind: 6 Fo
	Sunset/sunrise time: 05:33	Temperature: 14 14
Check list:	Survey start time: 03 33	Precipitation:
All lead surveyor details filled in North arrow marked on map Drawing/map named & dated Surveyor positions marked on drawing	Survey end time: 05.48	Cloud cover: 8/8 8/8
Notes/ site information (limitations, access issues, lighting etc.)	Sketch plan view:	Jart N
		ten )
	5	, x
	AIS	

ime	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
347	NOC	Foraging	INVS	(	inter 1	24246			
52	NOC	For aging Pass - Briet	HNS	I					
61	CP	pass-Brief	HNS	1	er <sup>politi</sup> re				
: RY	OP	Foraging	HNS	1	are .				
137	CP	Foraginal	HNS	1	1.2.3				
46	CR	pass - Briet	HNS	1	Mich				
\$82	CP	Foragina Pass-Briet Foragen July Alemis energen (mar me Pi (P. Me-p. c)	1/2	3/4	F	7	A contraction of a contraction of the contraction o	1 - 16	
5.02	CP	onergue (mar me P)	RE	١					
	1	(re hie - pr c)			6				
				a series and					
				-					
1. 10 1. 10									
								1	
1	14 18 1								



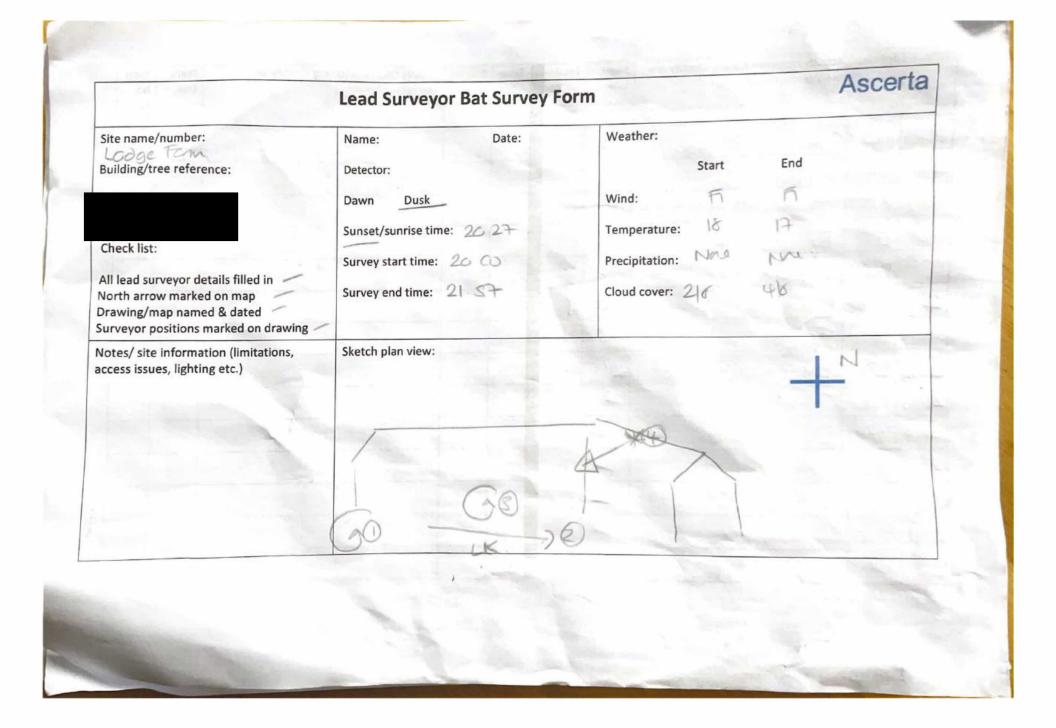
Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
5.45	89.3	MMS	1	1	and the second s				
5.9	eren eren eren eren eren eren eren eren	(mmuting)	1	2	199.00	5.			
10.4	and a	HINS		1			e de la companya de la		
14:26	J.	Commuting)	2	1					
Ri B	and the second difference of the	Comming	3	1					
41.49		Foraging	4	1	a si				
X1:52		reenting at 04:55	5	1	die "	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	19.3	reenting at 04:55 Foraged rammed ther,	e en	rend	Sum.	30			
54:5	S II	Commune 1 F	6	2	and a second	n to all be			
		Ne entry al 64:57 Constant activity till 5	17	- 1					
	1.19	Consent activity till 5	5 8	3		and the second			
65.0	5 11	HINS	-	1					
	Sec.								

te name/number: Lodge Farm	Surveyor name:	Date: 4/8/23 Detector type: GMT-Fre Lable	Surrounding habitat: Hord Stord/Form building/hedgerow I grown /suttered tree
urveyors checklist:	Sketch of view (mark on any e	emergence points and significant flig	the lines/areas of activity):
Completed all information at top of form	135		*
Drawn viewpoint/marked any emergence	3	7 (1)	
Added north arrow to compass		- afa	
Photo of viewpoint taken at start of survey Recorded observations and complete		1/	(4)
summary			A second s
Summary:	KIT	The the state	16611111
Emergence/Re-entry (Circle): Yes No (If yes state number and species)			A Charles and and and
Overall activity levels:	40		
Very low Low	6		
Medium High Constant			

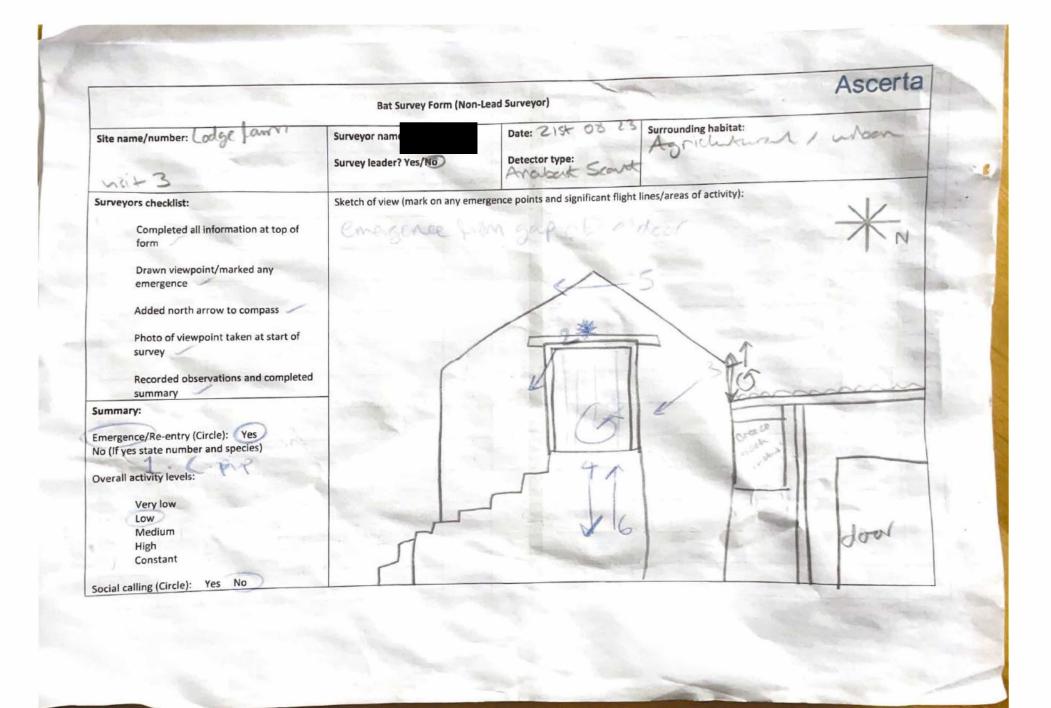
Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
03:42	Noc	HNS-commuting	_	1	04:52	C.pip	Commuting	3	2
03:44		-	-	1			Foragina	2	1
03:47			-	1	18.1		Commitina	4	1
63:54			-	1	1945 - C	1 1 1	Foragina	2	1
			-	1		1	Commiting	3	1
	· //	HUS- commuting	-	1	144	V	Foraging intil 5:02	2	1
	BLE			1	10 M		Committing	4	1
04:13	C. pip	Commuting - surveyor	2	1		* 1	Foraging	2	1
		HNS-commuting	_	1		C. Pip	-5///	5	1
		HUS-commuting	-	1			)		
		HUS-commuting	-	1					
	~	HNG-commuting	-	1					
	C.pip	, )	<del>, -</del>	1					
		Fordeging	2	1				,	

	Bat Survey Form (No	on-Lead Surveyor)	Ascerta
Site name/number: Lodge farm	Surveyor name: Survey leader? Yes/140	Date: 4/8/23 Detector type:	Surrounding habitat: Famland, fields, road, Medgerows, broadlegf
Surveyors checklist:	Sketch of view (mark on any er	mergence points and significant flig	tht lines/areas of activity):
Completed all information at top of form			WXE
Drawn viewpoint/marked any emergence		,	3
Added north arrow to compass			
Photo of viewpoint taken at start of survey	A	Stor	
Recorded observations and completed summary		5121	
ummary:			
mergence/Re-entry (Circle): Yes (If yes state number and species)	1 AT		X2 X2
verall activity levels:			
Very low Low			
Medium High Constant			
ocial calling (Circle): Yes No		1	1)
	Al,		NX9
	1/1/	1	

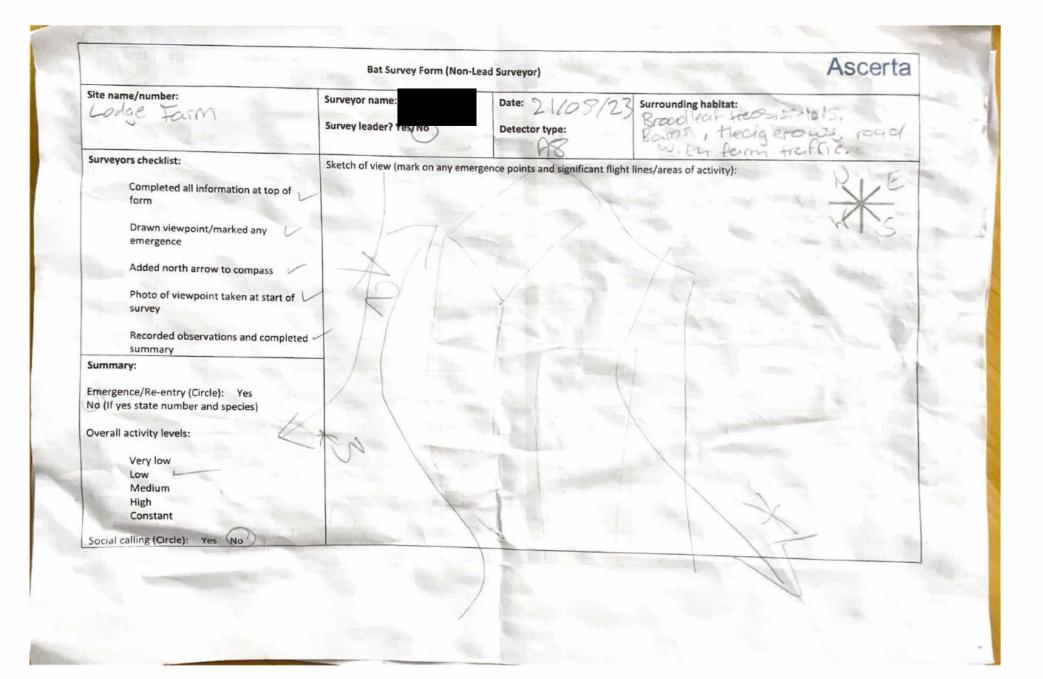
Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
16	NOZ	20 Pass, MAS		1	040	(OP)	42 ferraging HINS	-	/
03 47	Noc	21 19935 4125		J	0346	Pip	46 Pass HNS Foraging		2
039	Loc			1	034	Con Pip	52 ferraging HIUS		2
052	Noc	24 Pars tins		1	24	Pin	45 Reverging Mus		1
N NO	COPIN	40 Pass Hus		1	248	Pip	53 Reverging MNS		2
520	Pip	44 Pess HINS		1	054	C.P. Noc	46 > Fass +1NS		1
240	Pip	as Perceging His		1	34	Con		*1	1
04	Coup	45 Evaging Mrs	1	1	55	Comp	45 Riveging	+2	1
111	loc	22 Paraging tins		1	54	SSIG	47 foraging Mus	d.	l
04	Noc	ed Pass tins		1	050	Pip	46 forgine,	*3	2
24	C044 19 12	45 Pass MAS		1	05	Com	47 feverging	*3	1
25	Noc	25 Pars HAS		-1	05	Con Pip	44 Perciging	5.1	1
048	Solo	56 Parciging Hus	10	1	32				
04	Loc	19 Reverging trus	0/2	1	1h	- 51	1. A.		



Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
2040	ncc	Community - Olstans	-	.(	1200				Sitter 1
2048		Community FIND	-				Service and the service of the servi		12771
2056	91	Freshy CA UNHILLOT	i		1000				-
209	CPT	Foras as HNU	-	1	1				
	NG6 -	Commuts HIND	1	+					
26 M	CPIP	COMMUTE	2	Ø		20	THE TOP OF		-
Criero,	CATE	Frasis	3	1				1.00	
2100	SPIR	Elversence &	44	1				-	
2109	ric	Commute HND	- 1	-	-				
2114	GPIP	Bref Frage HNI	-	1	1000				
21.18	CPIP	Connude HN	1	1	-				
213	NOC	Community HIND	-	1		and the second s			-
2147	OP/P	(commuty How	-	1					-
2144	SAL	Commute Has	1	1	1	1000			



Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
NOLAR	Ŋ	Seen not heard.	1	1	-		and the second		
		Commiting	1	1					
050	CAS	Emergence *	2	1					-
10:8	11	lovasong	3	1					
-	11	Fund perforts than for	no	1		-		-	
21.040	S. Pul	(immuting	4	1				-	-
2103	2	Seen Thread	5	1		5			
		Considery		-	-		and the second	-	-
11.10	CPP	Committing	6	1				-	-
2144	CPP	HNS	/	1	_				
				-	9529	6	and a second sec		
	A.	al a l					and the second second		
	New York				10				10.1
			-						



Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	
020 42	CO14, 13,5	- SULA Paso	*	0	-		a martin			l
500	COR	git pour 243	+2	Ø					1	
200	Coppin	42 Braging	X	4	20		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1
30	Ser	46 Forging M	5		-		1 States of the second second			
21	500	54 Rraging	×3	51	1		and the second second	1		
21	CORP	47 Par tru		6	1					
20	Pip'	es per Hys	1	1		-				
4		A strength of the strength of								
			1	2	2	1		100		
224	007	59 Acong th	45	V	No.					
23	Pip	29 Pereging Has				and and a second				
240	COMP	2 5 Reaging His		1	1			2 3		•
					-	-			-	
					1	1	The second se	-	No.	
	-									
						Lorn h				

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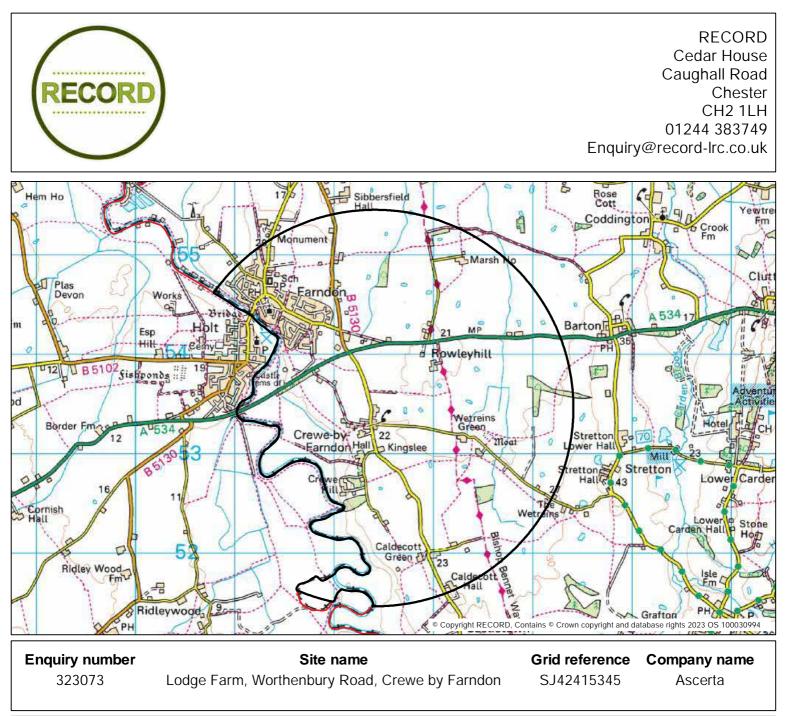
	Bat Survey Form (Non	-Lead Surveyor)	Ascerta
Site name/number: Ladge Form	Surveyor name: Survey leader? Yes No	Date: 21/8/23 Detector type: EMT - For The	Surrounding habitat: Had Stand /Em boilding
Surveyors checklist: Completed all information at top of form Drawn viewpoint/marked any emergence Added north arrow to compass Photo of viewpoint taken at start of survey Recorded observations and completed	Sketch of view (mark on any em	ergence points and significant flig	ht lines/areas of activity):
Summary Summary: Emergence/Re-entry (Circle): Yes No If yes state number and species) Overall activity levels: Very low Low Medium High Constant Social calling (Circle): Yes No			2

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats	Time	Species	Activity Observed (clearly identify any emergence/re-entry)	Flight Line	Total No. of Bats
20:27	C. pip	HUS- committing	-	1	21:25	BLE	HWS-commuting	-	1
20:53		Commuting	1	1	and the second second		Eragina	4	1
20:57	C.pip	Commuting	2	1			55		
21:00	C-pip	Commuting	1	1	-	69.°		-	13
21:00	Noc	HNS-commiting	-	1	1				
71:03	Noe	HNS-Foraging cotil 21:04	-	1	3		and the second		
21:00	Noe	Comm Ing	3	1		1			
21:02	Noc	HNS-Force ing intil 21:0	-	1			1		
21:11	C. pip	Commiting.	3	1		-			
21:13	BLE	HNS-commeting	-	1		-			
21:5	Sopie	HUS-commuting	-	1			and the second sec		
21:17	BLE	HNS-commuting sound	-	1		-	and the second se		
21:18	C.pip	Foraging	4	1					
21:2	& Noe	HNS-commuting	-	1				100	



Landscape, Arboricultural & Ecological Solutions for the Built Environment

# **Appendix 3**



#### Using this document

In order to navigate this document easily please enable the bookmark tool view using the bookmark icon on the left of your screen:

The bookmark functions within the pdf allow easy navigation through large reports. Bookmarks can be clicked on like hyperlinks taking the user directly to the relevant section.

Those bookmarks with a plus sign next to them (+) can be expanded by clicking on the plus sign. You can minimise these entries again by clicking on the resulting minus sign (-).

In addition you can search through the document for any particular text by using the standard Microsoft shortcut (Ctrl + F) and enter the text you are looking for.

#### Interpretation of the data

- Species maps: The species maps show the location of protected, notable and Invasive non-native species grouped by taxon. The numbers in brackets adjacent to the species names relate to the grid ID shown on the maps. Records with a grid reference accuracy of 10m square or above are minimised to a 100m square. Where there are more than 100 grid IDs on a map the grid references will be minimised to 1km. The full grid reference can be found within the full record in this report or in the excel spreadsheet of raw data.
- Attribute data: Where available all attribute data is provided with the records. Sex and life stage information as well as the record type all allow greater interpretation of information available. However, it is not always possible to provide this information.
- Species designation Status: The species designation information provided within this enquiry output is based on the best available information
  provided through the JNCC: Conservation designations of UK Taxa list. Information on the limitations to this list is available here:
   (http://jncc.defra.gov.uk/page-3408)
- Site/habitat data: Due to changes in the NBN web services we are currently unable to provide site and observation data from the NBN, this does not affect local sites. Information for statutory sites can be found at <a href="http://www.natureonthemap.naturalengland.org.uk/MagicMap.aspx">http://www.natureonthemap.naturalengland.org.uk/MagicMap.aspx</a> and sites and NBN taxa observations at <a href="https://spatial.nbnatlas.org">https://spatial.nbnatlas.org</a>.
- (please be aware of the NBN Atlas guidance for using data https://nbnatlas.org/help/guidance-using-data/).
- Where sites are made up of multiple polygons, these are shown on separate maps and labelled 'A', 'B', 'C' etc.

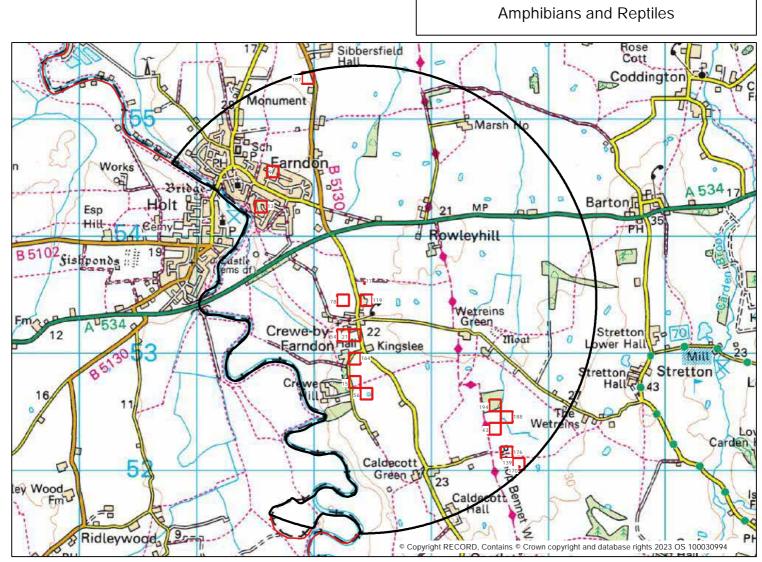
# **Designated species summary**

Scientific_name	Common_name	Designation
Accipiter nisus	Sparrowhawk	BAm [RSPB], IUCN_br NT
Acronicta psi	Grey Dagger	S41, UKBAP
Aegithalos caudatus	Long-tailed Tit	IUCN_br LC
Aeshna grandis	Brown Hawker	RedList_Global_post2001_LC
Alnus glutinosa	Alder	RedList_Global_post2001_LC
Anas platyrhynchos	Mallard	BAm [RSPB], IUCN_br LC, IUCN_nbr NT
Anax imperator	Emperor Dragonfly	RedList_Global_post2001_LC
Anthemis arvensis	Corn Chamomile	RedList_ENG_post2001-EN, RedList_GB_post2001-EN
Aphantopus hyperantus	Ringlet	LBAP
Apium inundatum	Lesser Marshwort	RedList_ENG_post2001-VU
	Swift	BRd [RSPB], IUCN_br En
Apus apus Ardea cinerea		
	Grey Heron	IUCN_br NT, IUCN_nbr LC NS
Atherix ibis Baldellia ranunculoides	Yellow-legged Water-snipefly	
	Lesser Water-plantain	RedList_ENG_post2001-VU, RedList_GB_post2001-NT
Branta canadensis	Canada Goose	INNS
Bromus racemosus	Smooth Brome	LRaSc
Bufo bufo	Common Toad	RedList_Global_post2001_LC, S41, UKBAP, WCA5_9
Buteo buteo	Buzzard	IUCN_br LC
Calluna vulgaris	Heather	RedList_ENG_post2001-NT
Calopteryx splendens	Banded Demoiselle	RedList_Global_post2001_LC
Carduelis carduelis	Goldfinch	IUCN_br LC
Centaurea cyanus	Cornflower	S41, UKBAP
Certhia familiaris	Treecreeper	IUCN_br LC
Chloris chloris	Greenfinch	BRd [RSPB], IUCN_br En
Coenagrion pulchellum	Variable Damselfly	LBAP, RedList_GB_post2001-NT
Columba palumbus	Woodpigeon	BAm [RSPB], IUCN_br LC
Corvus corax	Raven	IUCN_br LC
Corvus corone	Carrion Crow	IUCN_br LC
Corvus frugilegus	Rook	BAm [RSPB], IUCN_br NT
Corvus monedula	Jackdaw	IUCN_br LC
Crocosmia pottsii x aurea = C. x crocosmiiflora	Montbretia	INNS
Cruciata laevipes	Crosswort	RedList_ENG_post2001-NT
Cuculus canorus	Cuckoo	BRd [RSPB], IUCN_br Vul, S41, UKBAP
Cyanistes caeruleus	Blue Tit	IUCN_br LC
Cygnus olor	Mute Swan	IUCN_br LC, IUCN_nbr LC
Dendrocopos major	Great Spotted Woodpecker	IUCN_br LC
Emberiza schoeniclus	Reed Bunting	BAm [RSPB], IUCN_br LC, LBAP, S41, UKBAP
Enallagma cyathigerum	Common Blue Damselfly	RedList_Global_post2001_LC
Epipactis palustris	Marsh Helleborine	LRaSc, RedList_ENG_post2001-NT
Erithacus rubecula	Robin	IUCN_br LC
Falco subbuteo	Hobby	IUCN_br LC, WCA1_1
Falco tinnunculus	Kestrel	BAm [RSPB], IUCN_br Vul
Fallopia japonica	Japanese Knotweed	INNS
Fringilla coelebs	Chaffinch	IUCN_br LC
Fulica atra	Coot	UCN_br NT, IUCN_nbr NT
Gabrius velox	Gabrius velox	Note_B
Gallinago gallinago	Snipe	BAm [RSPB], IUCN_br LC, IUCN_nbr NT
Gallinula chloropus	Moorhen	BAm [RSPB], IUCN_br Vul
Garrulus glandarius	Jay	IUCN_br LC
Genista tinctoria	Dyer's Greenweed	RedList_ENG_post2001-VU

Caches segutumCore MarigutReal J NG, parc901 VU. Heal NG, GEL, post2001 VU.Carmeb valgatosimusCore mon Club-laulLBAP, ReaList, CBE, gost2001-NT.Carmeb valgatosimusAdmini LadyardNose. BHinando JusicaSeguroU.C.L. In C.Hinando JusicaSeguroU.C.L. In C.Hystachardsin norsus tameFogulaReal SL, FNG, past2001-VU, Real K, GBL, post2001-VU.Hystachardsin norsus tameFogulaReal SL, ENG, past2001-VI, Real K, GBL, post2001-VU.Hystachardsin norsus tameFogula Tomes StateReal SL, ENG, post2001-VI.Hystachardsin norsus tameFogula Tomes StateReal SL, Colong Lop02001-IT.Ladyara BalanaRiskReal SL, Colong Lop02001-IT.Ladyara BalanaBibar ovelchReal SL, Colong Lop02001-IC.Ladyara BalanaReal SL, Colong Lop02001-IC.Real SL, Colong Lop02001-IC.Ladyara BalanaSmooth NewtReal SL, Colong Lop02001-LC.Ladyara BalanaSmooth NewtReal SL, Colong Lop02001-LC.Ladyara BalanaGalar Smooth StateLiCA Jun I. C.Marces SatagaGauda Marid StateLiCA Jun I. C.Marces SatagaGauda Marid StateLiCA Jun I. C.Marces SatagaGauda Marid StateLiCA Jun I. C.Marces SatagaHarves MariseLiCA Jun I. C.Marces SatagaHarves Ma	Scientific_name	Common_name	Designation
Comptex subgalisations         Common Club-ball         EAP, RedUst, GAL, point           Handbourn manifegezzahum         Gant Hogzand         HMS           Haudin manifegezzahum         Gant Hogzand         HMS           Haudin statisa         Swallow         HCN, point         Common Club-ball           Haudin statisa         Swallow         HCN, point         Common Club-ball           Hydrochrisk monsur of the Statistica         Swallow         HCN, point         Common Club-ball           Hydrochrisk monsur of the Statistica         Holds         Red Lin, Link, point Club-ball point         Red Link, Link, point Club-ball point           Hydrochrisk monsur of the Statistica         Holds         Red Link, Link, point Club-ball         Red Link, Link, point Club-ball           Hydrochrisk monsur of the Statistica         Black-stalied Demositivity         Red Link, Club-ball point Club-ball         Red Link, Club-ball point Club-ball           Lapise europease         Brancin Nord         Red Link, Club-ball point Club-ball         Red Link, Club-ball point Club-ball           Lapise europease         Brancin Nord         Red Link, Club-ball point Club-ball         Red Link, Club-ball           Lapise europease         Brancin Nord         Red Link, Club-ball point Club-ball         Red Link, Club-ball point Club-ball           Lapise europease         Brancin Nord			
Heatelen         Galart Hogened         IMS           Hippostmic (Attorie) vertigets         Adorie Logoliti         Note, B           Hippostmic (Attorie) vertigets         Blabbel         LBAP, WCAB           Hydrichtris moscripta         Blabbel         LBAP, WCAB           Hydrichtris moscripta         Brodiel Carposteria         Rodiel, Carposteria           Hydrichtris moscripta         Brodiel Obersyllin         Rodiel, Costal, Deposito/U Reduct, CB, post2001-VU           Hydrichtris moscripta         Brodiel Obersyllin         Rodiel, Costal, post2001-IC           Lathyus Infolius         Bitor vertich         Rodiel, Costal, post2001-IC           Lathyus Infolius         Bitor vertich         Rodiel, Costal, post2001-IC           Lathyus Infolius         Bitor vertich         Rodiel, Costal, post2001-IC           Latostito Intervision         Parine Rodie         Rodiel, post2001-IC           Markin Samara Rodie         Rodiel, post2001-IC         Rodiel, post2001-IC	, , , , , , , , , , , , , , , , , , ,	-	
Happedamak (Adonia) varingen         Asonis Ladjord         Nort, B           Hinurdo nutrica         Sonisw         ILON (p. 1.C.)           Hydrachnoliss non szrigh         Bueleil         ILAP, VCAI           Hydrachnoliss non szrigh         Bueleil         Rell kr, FAG, post2001-VU.           Hydrachnoliss non szrigh         Inden Babsam         INIS           Hydrachnoliss non szrigh         Buels Roman         INIS           Bohnaro olganis         Buo-Ialoo Demosity         Rell kr, FAG, post2001-VL           Hydrachnoliss non szrigh         Buo-Ialoo Demosity         Rell kr, Clobal, post2001-LC           Labyus Introllow         Blav rochin         Rell kr, Clobal, post2001-LC           Labyus europaus         Evan Hare         Rell kr, Clobal, post2001-LC           Lassettion betweitsos         Paimale Noot         Rell kr, Clobal, post2001-LC           Lassettion betweitsos         Paimale Noot         Rell kr, Clobal, post2001-LC           Lassettion betweitsos         Paimale Noot         Rell kr, Clobal, post2001-LC           Mergins merginers         Gossander         ILC           Lassettion betweitsos         Paimale Noot         Rell kr, Clobal, post2001-LC           Mergins merginers         Gossander         ILC           Lassettion betweitsos         Paimale Noot			
Hundo hisblish         Swellow         UCK_bit (C           Hyadnichis rom-scripta         Blochol         LBAP WCAB         Hyadnichis rom-scripta         Blochol         LBAP WCAB           Hydrichnis moscripta         Marsh Perrayoval         RedLisLENC_post2001-VU, RudLisLGS_post2001-VU           Hydrichnis moscripta         Inden Balsom         RudLisLGNC_post2001-IAT           Impations glanultifica         Inden Balsom         RudLisLGNC_post2001-IAT           Lathyus hindlus         Block-redth         RudLisLGNC_post2001-IAT           Lathyus hindlus         Block-redth         RudLisLGNC_post2001-IAT           Lathyus hindlus         Plore scotted         RudLisLGNctal_post2001-IAT           Lathyus hindlus         Plore scotted         RudLisLGNctal_post2001-IAT           Lathyus hindlus         Plore North         RudLisLGNctal_post2001-IAT           Marcen Perganeer         Coscander         RudLisLGNctal_post2001-IAT           Marcen Perganeer         Coscander         RudLisLGNctal_post2001-IAT           Marcen Nage         RudlisLGNctal_post2001-IAT <td></td> <td></td> <td>Note_B</td>			Note_B
Pydacharis mosus-ranue         Frigbl         Rodub_LENG_post2001-VU           Hydrocopic vulgets         March Pennywort         Red inc_ING_post2001-NT           Impathers glandhulle         India falsam         INIS           Schmu wegamis         Bub-lailed Damoelly         RedList_Clobul_post2001_LC           Lishtyrus lintolus         Bitter vorbit         RedList_Clobul_post2001_LC           Lathyrus instolus         Bitter vorbit         RedList_Clobul_post2001_LC, RedList_CB_post2001-NE_S41_UKBAP           Lapus unspansis         Brown Hume         LEAP. RedList_Ecolug_post2001_LC, WCAS_9           Lapus unspansis         Groot Proof Snall         RedList_Clobul_post2001_LC, WCAS_9           Lamana sugamis         Groot Proof Snall         RedList_Clobul_post2001_LC, WCAS_9           Lamana sugamis         Groot Proof Snall         RedList_Clobul_post2001_LC, WCAS_9           Lamana sugamis         Groot Proof Snall         RedList_Clobul_post2001_LC, WCAS_9           Marine organiso         Geolandur         IOCN_prit           Margus morganiso         Groot Proof Snall         RedList_Clobul_post2001_NT, S41, UKBAP           Molacilla alba         Proof Wagall         UCN_prit         RedList_Globul_post2001_NT, S41, UKBAP           Molacilla alba         Deversit Margus         Bitter SFFFF, UCN_prit         S61, UKBAP		Swallow	IUCN_br LC
Pydacharis mosus-ranue         Frigbl         Rodub_LENG_post2001-VU           Hydrocopic vulgets         March Pennywort         Red inc_ING_post2001-NT           Impathers glandhulle         India falsam         INIS           Schmu wegamis         Bub-lailed Damoelly         RedList_Clobul_post2001_LC           Lishtyrus lintolus         Bitter vorbit         RedList_Clobul_post2001_LC           Lathyrus instolus         Bitter vorbit         RedList_Clobul_post2001_LC, RedList_CB_post2001-NE_S41_UKBAP           Lapus unspansis         Brown Hume         LEAP. RedList_Ecolug_post2001_LC, WCAS_9           Lapus unspansis         Groot Proof Snall         RedList_Clobul_post2001_LC, WCAS_9           Lamana sugamis         Groot Proof Snall         RedList_Clobul_post2001_LC, WCAS_9           Lamana sugamis         Groot Proof Snall         RedList_Clobul_post2001_LC, WCAS_9           Lamana sugamis         Groot Proof Snall         RedList_Clobul_post2001_LC, WCAS_9           Marine organiso         Geolandur         IOCN_prit           Margus morganiso         Groot Proof Snall         RedList_Clobul_post2001_NT, S41, UKBAP           Molacilla alba         Proof Wagall         UCN_prit         RedList_Globul_post2001_NT, S41, UKBAP           Molacilla alba         Deversit Margus         Bitter SFFFF, UCN_prit         S61, UKBAP	Hyacinthoides non-scripta	Bluebell	LBAP, WCA8
Pydroculyk vulgaris         Marsh Pernyvort         RodLisL_ENG_post2001-NT           Impaterer ginedulfera         Indian Bakam         INNS           Bechnara elegaris         Buk-india Damsaffily         RodLisL_ENG_post2001_LC           Lathyrus Intolus         Blicr vector         IRAR           Lopus coropaous         Brow Haro         IEAR           Lopus coropaous         Form Sond Octore         RotList_Global_post2001_LC, WCAS_9           Lopus coropaous         Earas Bandage         RotList_Global_post2001_LC, WCAS_9           Lymnees stagnalis         Goosinder         UCM_pdr LC           Mergins methods         Earas Marged         NS           Motorial anias subspace         Ped Wagnal         UCN_pdr LC           Motorial ania subspace         Ped Wagnal         UCN_pdr LC           Motorial anias subspace         Ped Wagnal         UCN_pdr LC           Motorial anias subspace         Ped Wagnal         UCN_pdr LC           Motorial anias subspace         Ped Wagnal         UCN_pdr LC <td>Hydrocharis morsus-ranae</td> <td>Frogbit</td> <td></td>	Hydrocharis morsus-ranae	Frogbit	
Impairants glanduillera         India Baham         INRS           Bechnaru elegants         Bue-tailed Damsellty         Redukt_Clobal_post2001_LC           Lathyrus limitolus         Blicw-velch         Redukt_Clobal_post2001-LC           Lathyrus infolda         Grass Vochfing         Lessis           Lathyrus infoldance         Brown Hare         IBAP, Redukt_ELE, Cabotal post2001-LC, WCAS, 9           Lissorition helvericas         Paines News         Redukt_Clobal_post2001_LC, WCAS, 9           Lissorition helvericas         Smooth Newt         Redukt_Clobal_post2001_LC, WCAS, 9           Lissorition vulgaris         Smooth Newt         Redukt_Clobal_post2001_LC, WCAS, 9           Mergus megnones         Gorsadre         NS           Mergus megnones         Gorsadre         NS           Matoromy minulus         Harvesi Mouse         LEAP, Redukt_Clobal_post2001-NT, S41, WCAP           Motacilla abla         Pod Wagial         UCAL bL C           Motacilla abla subsp. yarrolli         Pod Wagial         UCAL bL C           Motacilla abla         Nou Wagial         UCAL bL C           Motacilla abla subsp. yarrolli         Pod Wagial         UCAL bL C           Motacilla abla         Nou Wagial         HabRegg2, HabReget LEAP, S41, WCAS, WCAS, 9           Myolis multicarbinothumi         <		_	
Itechnum elegins         Bue stalled Damsetify         Red List_CNG_post2001_L C           Lathyrus Inisolus         Bitter vectoh         Red List_CNG_post2001-NT           Lathyrus Inisolus         Bitter vectoh         Red List_CNG_post2001-NT           Libeula quadrimaculats         Four spetted Chaser         Red List_Clobal_post2001-LC, Red List_GR_post2001-LC, WCA5_9           Libeula quadrimaculats         Four spetted Chaser         Red List_Clobal_post2001_LC, WCA5_9           Lissottion Ineversion         Painate Newt         Red List_Clobal_post2001_LC, WCA5_9           Lissottion Ineversion         Red Intra Clobal_post2001_LC, WCA5_9         Lissottion Ineversion           Mediar         Red List_Clobal_post2001_LC, WCA5_9         Lissottion Ineversion           Mediar         Red List_Clobal_post2001_LC, WCA5_9         Lissottion Ineversion           Mediar         Nis         Mediar         Nis           Merorys inmuica         Mediar         Nis         Nis           Merorys inmuica         Mediar         Nis         Nis           Motacilla aba subsp. yaroll         Mediar Wagali         IUCN_br Lic           Mediar diabation         Nation's Bat         HabRogs2, HabRogs4, LBAP, S41, WCA5, WCA5_9           Myosis instront         Nation's Bat         HabRogs2, HabRogs4, LBAP, S41, WCA5, WCA5_9	, , , ,		
Lathyrus linifolius         Bitter vetch         RedList_ENG_post2001.NT           Lathyrus linifolius         Grass Victifing         LR4P.           Labyrus missolia         Grass Victifing         LR4P.           Libelula quadrimaculati         Four-spotled Chaser         RedList_Global_post2001.LC, RodList_Glob_QL02001.LC, WGA5.9           Libelula quadrimaculati         Four-spotled Chaser         RedList_Global_post2001_LC, WGA5.9           Libelula quadrimaculati         Grast Pond Snall         RedList_Global_post2001_LC, WGA5.9           Lymnaca stagnals         Grast Pond Snall         RedList_Global_post2001_LC, WGA5.9           Lymnaca stagnals         Grast Pond Snall         RedList_Global_post2001_LC, WGA5.9           Mesmeles         Furasian Batiger         BAd           Mergus megrams         Gross Pond         IUCN_D ILC           Mespuls agrannatica         Mediar         NS           Mergus megrams         Baduentons Bat         HabRegs2, HaBRegs4, LBAP, S41, WGA5, WCA5, 9           Myots mistacinus/andii         WistercetificandTs Bat         HabRegs2, HaBRegs4, LBAP, S41, WCA5, WCA5, 9           Numenics arquata         Curlew         Bad BRSPB1, UCN_D Tr C           Ordenmar Oncomeral         Natterer's Bat         HabRegs2, HaBRegs4, LBAP, S41, WCA5, WCA5, 9           Numenics arquata         Curlew		Blue-tailed Damselfly	RedList Global post2001 LC
Lathyrus nisoliaGrass VeichlingLR86Lopus curcipaousBrown HareLBAP, RecList_Europ_post2001-LC, RotList_BL_post2001-LGLebulka quadrinaculataFour spotted ChestRedList_Global_post2001_LC, WCA5, 9Lissottrion vulgarisSmooth NewtRedList_Global_post2001_LC, WCA5, 9Lissottrion vulgarisSmooth NewtRedList_Global_post2001_LCMegis megistriseGoosanderIUCN_Int LCMergus merganiseriGoosanderIUCN_Int LCMergus merganiseriGoosanderIUCN_Int LCMergus merganiseriHarvest MousoLBAP, RedList_Global_post2001_NT, 541, UKBAPMoterilla albaPied WagitalIUCN_Unt LCMoterilla albaPied WagitalIUCN_Unt LCMoterilla albaPied WagitalIUCN_Unt LCMyolis daubentoniDaubenton's BatHabRegs2, HabRegs4, LBAP, 541, WCA5, WCA5, 9Myolis mystechus/brandmilWinktered/Brand's BatHabRegs2, HabRegs4, LBAP, 541, WCA5, WCA5, 9Myolis mystechus/brandmilNotucle BatHabRegs2, HabRegs4, LBAP, 541, WCA5, WCA5, 9Numentus arquataCurlewBRd [RSPB], IUCN_In En, S41, UKBAPOceandre forcomena)Codemora (Oncomena)Redlist_Europ_post2001-VU, RedList_GB_post2001-VU, S41, UKBAPOenanthe forsionsStore forcomena)Redlist_Europ_post2001-VU, RedList_GB_post2001-VU, S41, UKBAPOenanthe forsionsStore forcomena)Redlist_Europ_post2001-VU, RedList_GB_post2001-VU, S41, UKBAPOenanthe forsionsStore forcomena)Redlist_Europ_post2001-VU, RedList_GB_post2001-VU, S41, UKBAPOenanthe forsio		5	
Lepus europaeus         Brown Hare         LBAP. RedList_Europe_pesi2001-LC, RedList_GBL_post2001-NE, S41, UKBAP           Libeluit quadrimaculata         Four-spotted Chaser         RedList_Global_post2001_LC, WCAS_9           Lissorition hovidgaris         Smooth Newt         RedList_Global_post2001_LC, WCAS_9           Lissorition hovidgaris         Smooth Newt         RedList_Global_post2001_LC, WCAS_9           Lissorition hovidgaris         Great Fond Snall         RedList_Global_post2001_LC, WCAS_9           Mergins merganser         Gosander         UCN_phr LC           Mergins merganser         Gosander         UCN_phr LC           Metalitia alba         Pied Wagalit         UCN_phr LC           Motecilla alba         Pied Wagalit         UCN_phr LC           Motacilla alba subps, yarellit         Pied Wagalit         UCN_phr LC           Motacilla alba subps, yarellit         Pied Wagalit         UCN_phr LC           Motacilla alba subps, yarellit         Pied Wagalit         UCN_phr LC           Myolis instaterint         Natherer's Bat         Habrego2, Habrego4, LBAP, S41, WCA5, WCA5, 9           Numenius arquata         Curlew         Brd [RSPB], UCN_phr En, S41, UKBAP           Notale Bat         Habrego2, Habrego4, LBAP, S41, WCA5, WCA5, WCA5, 9           Nater Stansord         Rotice redinaris Bat         Habrego2,	-		
Libelida quadrimaculata         Faur-sported Chaser         RedLikt_Cickal_post2001_LC           Lissortion helveticus         Patraite Newl         RedLikt_Cickal_post2001_LC, WCA5_9           Lissortion nelveticus         Smooth Newl         RedLikt_Cickal_post2001_LC, WCA5_9           Lissortion vulgaris         Great Pond Snall         RedLikt_Cickal_post2001_LC           Meles         Eurasina Badger         BAct           Margus merganser         Gonsander         IUCN_ptr LC           Mespilus germanica         Medial         NS           Motacilla alba         Pied Wagilal         IUCN_ptr LC           Motacilla alba         Pied Wagilal         IUCN_ptr LC           Motacilla alba         Pied Wagilal         IUCN_ptr LC           Motacilla alba         Pied Wagilal         IUEN_ptr LC           Motacilla alba         Daubenton's Bal         Habregs2, HabRgs4, LBAP, S41, WCA5, WCA5, 9           Myotis natureri         Natieror's Bat         Habregs2, HabRgs4, LBAP, S41, WCA5, WCA5, 9           Myotis natureri         Norture Bat         Habregs2, HabRgs4, LBAP, S41, WCA5, WCA5, 9           Myotis natureri         Norture Bat         Habregs2, HabRgs4, LBAP, S41, WCA5, WCA5, 9           Morter Statiosa         Curlew         Red Ikit_ENC_Gost2001-VU, Red LS4, 9           Nyetalse noctula <td></td> <td></td> <td></td>			
Lissorition helvelicus         Paimate Newl         RedList_Global_post2001_LC, WCA5_9           Lissorition vulgaris         Smooth Newl         RedList_Global_post2001_LC, WCA5_9           Jumaea stagnalis         Great Pord Snall         RedList_Global_post2001_LC           Meles males         Eurasian Badger         BAct           Mergus merganser         Goosander         IUCN_rbit LC           Mergus merganser         Goosander         IUCN_rbit LC           Mergus merganser         Harvest Mouse         IEAP, RedList_GB_post2001-NT, S41, UKBAP           Mitcromys minutus         Harvest Mouse         IEAP, RedList_GB_post2001-NT, S41, UKBAP           Motacilia alba         Pied Wagial         IUCN_rbit LC           Molatis mustacinus/trandli         Whiskered/Brand's Bat         HaBRogs2, HaBRogs4, LBAP, S41, WCA5, WCA5, 9           Myolis mystacinus/trandli         Whiskered/Brand's Bat         HaBRogs2, HaBRogs4, LBAP, S41, WCA5, WCA5, 9           Myolis mustacinus/trandli         Noteke Bat         HaBRogs2, HaBRogs4, LBAP, S41, WCA5, WCA5, 9           Nyetalus notula         Noteke Bat         HaBRogs2, HaBRogs4, LBAP, S41, WCA5, WCA5, 9           Ordenmera (Dincomera)         Emoralis         Finoralis           Greenalith         Vehelaer         RedList_LEUROP, LOS, POS2001-VU, S40, UKBAP           Oreanthe ooranithe			
Lisorition vulgaris         Smooth Newt         RedList_Global_post2001_LC, WCA5_9           Lymnees stagnalis         Great Prod Snall         RedList_Global_post2001_LC           Meles meles         Eurasian Badger         BAct           Mergus meganser         Goosander         IUCN_hrt LC           Mesgus meganser         Goosander         IUCN_hrt LC           Mergus meganser         Mediar         NS           Mergus meganser         Medial         IUCN_hrt LC           Motacilla alba         Pied Wagtail         IUCN_hrt LC           Motacilla alba subsp. yarrellii         Pied Wagtail         IUCN_hrt LC           Motacilla alba subsp. yarrellii         Pied Wagtail         IUCN_hrt LC           Myolis dudentonii         Daubenton's Bat         HabRegs2, HabRegs4, LBAP, S41, WCA5, WCA5, 9           Myolis mystacinus/brandlii         Whiskered/Brandt's Bat         HabRegs2, S41, WCA5           Myolis materiar         Nattor's Bat         HabRegs2, HabRegs4, LBAP, S41, WCA5, WCA5, 9           Numenius arquata         Curlew         BRd [RSPB], UCN_br LC           Oceamarie forucarias         Ordemar (Oncomera) femoralis         Note_B, NS           Oenanthe fistulosa         Tubular Water-dropwort         RedList_LMG_post2001-VU, RedList_GB_post2001-VU, S41, UKBAP           Orenantie fistulos			
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Meles         Eurasian Badger         BAct           Mergus merganser         Goosander         IUCN_nbr LC           Mergus merganser         Goosander         IUCN_nbr LC           Mergus germanica         Mediar         NS           Micromys minutus         Harvest Mouse         LBAP, RedList_GB_post2001-NT, St1, UKBAP           Motacilla alba         Pied Wagtall         IUCN_br LC           Motacilla alba subsp. yarrellii         Pied Wagtall         IUCN_br LC           Myolis mysicinus/brandtii         Daubenton's Bat         HabRegs2, HabRegs4, LBAP, S41, WCA5, WCA5_9           Myolis mysicinus/brandtii         Nathered/Brandt's Bat         HabRegs2, HabRegs4, LBAP, S41, WCA5, WCA5_9           Myolis mysicinus/brandtii         Notclie Bat         HabRegs2, HabRegs4, LBAP, S41, WCA5, WCA5_9           Numenlus arquata         Curlew         BRd (RSPB), IUCN_br LC, NCA5, WCA5_9           Ocenerare (Oncomera)         Ocenerare (Oncomera)         Note_B, NS           Cenanthe fishulosa         Tubulari Water-dropwort         RedList_ENG_post2001-VU, RedList_GB_post2001-VU, S41, UKBAP           Cenanthe cenanthe         Wheatear         Bam (RSPB), IUCN_br LC         Prove_post2001-NE, RedList_GBLpost2001-NE, RedList_GBLpost2001-NE           Cryctolagus curiculus         European Rabbit         RedList_Enospat2001-NE, RedList_GBLpost2001-NE, RedList_Global			
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Micromys minutus         Harvest Mouse         LBAP, RedLIsL_GB_posi2001-NT, S41, UKBAP           Motacilia alba         Pied Wagtail         IUCN_br LC           Motacilia alba subsp. yarelli         Pied Wagtail         IUCN_br LC           Motacilia alba subsp. yarelli         Pied Wagtail         IUCN_br LC           Mota daubentonii         Daubenton's Bat         HabRegs2, HaBRegs4, LBAP, S41, WCA5, WCA5, 9           Myolis mystachus/brandii         Whiskered/Brand's Bat         HabRegs2, HaBRegs4, LBAP, S41, WCA5, WCA5, 9           Myotis natereri         Natterer's Bat         HabRegs2, HaBRegs4, LBAP, S41, WCA5, WCA5, 9           Notula         Nocule Bat         HabRegs2, HaBRegs4, LBAP, S41, UKBAP, WCA5, WCA5, 9           Odemare (Oncomera) femoralis         Dedemera (Oncomera) femoralis         Note, B         NS           Oenanthe fistulosa         Tubular Water-dropwort         RedList_ENG_post2001-VU, RedList_GB_post2001-VU, S41, UKBAP           Oenanthe fistulosa         Spiny Restharrow         RedList_Erop_post2001-VT, RedList_GB_post2001-NE, RedList_Global_post2001_NT           Oryctolagus cuniculus         European Rabbit         RedList_Erop_post2001-NT, RedList_GB_post2001-NE, RedList_Global_post2001_NT           Parus major         Great Tit         UUCN_br LC           Passer domesilcus         House Sparow         BR4 [RSPB], UCN_br LC           Phylo			
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Oenanthe oenantheWheatearBAM [RSPB], IUCN_br LCOnonis spinosaSpiny RestharrowRedList_ENG_post2001-NTOryctolagus cuniculusEuropean RabbitRedList_Europe_post2001-NT, RedList_GB_post2001-NE, RedList_Global_post2001_NTParus majorGreat TitIUCN_br LCPasser domesticusHouse SparrowBRd [RSPB], IUCN_br LC, LBAP, S41, UKBAPPeriparus aterCoal TitIUCN_br LCPhylloscopus collybitaMinnowRedList_Global_post2001_LCPhylloscopus collybitaChiffchaffIUCN_br LCPhylloscopus trochilusWillow WarblerBAm [RSPB], IUCN_br LCPigareaMagpieIUCN_br LCPijstrellus nathusiiNathusius's PipistrelleHabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrelles agg.Pipistrelle at speciesHabRegs2, HabRegs4, RedList_Global_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pipistrellusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Pipistrellus penipesWhite-legged DamsetflyRedList_Global_post2001_NTPlatycnemis pennipesWhite-legged DamsetflyRedList_Global_post2001_LCPlecutus auritusBiox-poplarHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifolaBlack PoplarEBAP	. ,		Note_B, NS
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Oryctolagus cuniculusEuropean RabbitRedList_Europe_post2001-NT, RedList_GB_post2001-NE, RedList_Global_post2001_NTParus majorGreat TitIUCN_br LCPasser domesticusHouse SparrowBRd [RSPB], IUCN_br LC, LBAP, S41, UKBAPPeriparus aterCoal TitIUCN_br LCPhoxinus phoxinusMinowRedList_Global_post2001_LCPhylloscopus collybitaChiffchaffUCN_br LCPhylloscopus trochiusWillow WarblerBAm [RSPB], IUCN_br LCPigarelus athusiiMagpieIUCN_br LCPipistrellus nathusiiNathusius's PipistrelleHabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrellusOmmon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pipistrellusSorano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Pipistrellus pipistrellusMite-legged DamselflyRedList_Global_post2001_LCPiopulus nigraMont Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Pipulus nigraBick-popiarHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Pipulus nigra <td>Oenanthe oenanthe</td> <td>Wheatear</td> <td>BAm [RSPB], IUCN_br LC</td>	Oenanthe oenanthe	Wheatear	BAm [RSPB], IUCN_br LC
Parus majorGreat TitIUCN_br LCPasser domesticusHouse SparrowBRd [RSPB], IUCN_br LC, LBAP, S41, UKBAPPeriparus aterCoal TitIUCN_br LCPhoxinus phoxinusMinnowRedList_Global_post2001_LCPhoxinus phoxinusMinowRedList_Global_post2001_LCPhylloscopus collybitaChiffchaffIUCN_br LCPhylloscopus trochilusWillow WarblerBAm [RSPB], IUCN_br LCPica picaMagpieIUCN_br LCPipistrellus nathusiiNathusiu's PipistrelleHabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrelles agg.Pipistrelle bat speciesHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Pipistrellus pipistrellusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9PipatomediaHoary PlantainRedList_Global_post2001_LCPicotus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigra subsp. betulifolBack PoplarIBAP	Ononis spinosa	Spiny Restharrow	RedList_ENG_post2001-NT
Passer domesticusHouse SparrowBRd [RSPB], IUCN_br LC, LBAP, S41, UKBAPPeriparus aterCoal TitIUCN_br LCPhoxinus phoxinusMinnowRedList_Global_post2001_LCPhylloscopus collybitaChiffchaffIUCN_br LCPhylloscopus trochilusWillow WarblerBAm [RSPB], IUCN_br LCPigaricaMagpieIUCN_br LCPipistrellus nathusiiNathusius's PipistrelleHabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrelles agg.Pipistrelle bat speciesHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Pipistrellus pipistrellusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Platago mediaHoary PlantainRedList_Global_post2001_LCPlatyenemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlecotus auritusBack-poplarHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigra subsp. betulifoliaBack PoplarIBAP	Oryctolagus cuniculus	European Rabbit	RedList_Europe_post2001-NT, RedList_GB_post2001-NE, RedList_Global_post2001_NT
Periparus aterCoal TitIUCN_br LCPhoxinus phoxinusMinnowRedList_Global_post2001_LCPhylloscopus collybitaChiffchaffIUCN_br LCPhylloscopus trochilusWillow WarblerBAm [RSPB], IUCN_br LCPica picaMagpieIUCN_br LCPipistrellus nathusiiNathusius's PipistrelleHabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrelles agg.Pipistrelle bat speciesHabRegs2, LBAP, S41, WCA5Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pipistrellusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Plantago mediaHoary PlantainRedList_ENG_post2001-NTPlatycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlecotus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifoliaBlack PoplarIBAP	Parus major	Great Tit	IUCN_br LC
Phoxinus phoxinusMinnowRedList_Global_post2001_LCPhylloscopus collybitaChiffchaffIUCN_br LCPhylloscopus trochilusWillow WarblerBAm [RSPB], IUCN_br LCPica picaMagpieIUCN_br LCPipistrellus nathusiiNathusius's PipistrelleHabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrelles agg.Pipistrelle bat speciesHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pygmaeusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Plantago mediaHoary PlantainRedList_Global_post2001_NTPlaycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlopulus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betuifidiBlack PoplarIBAP	Passer domesticus	House Sparrow	BRd [RSPB], IUCN_br LC, LBAP, S41, UKBAP
Phylloscopus collybitaChiffchaffIUCN_br LCPhylloscopus trochilusWillow WarblerBAm [RSPB], IUCN_br LCPica picaMagpieIUCN_br LCPipistrellus nathusiiNathusius's PipistrelleHabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrelles agg.Pipistrelle bat speciesHabRegs2, LBAP, S41, WCA5Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pipistrellusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Plantago mediaHoary PlantainRedList_ENG_post2001_NTPlatycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPloctus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifoiaBlack PoplarIBAP	Periparus ater	Coal Tit	IUCN_br LC
Phylloscopus trochilusWillow WarblerBAm [RSPB], IUCN_br LCPica picaMagpieIUCN_br LCPipistrellus nathusiiNathusius's PipistrelleHabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrelles agg.Pipistrelle bat speciesHabRegs2, LBAP, S41, WCA5Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pipistrellusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Plantago mediaHoary PlantainRedList_ENG_post2001_NTPlatycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlecotus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifoliaBlack PoplarIBAP	Phoxinus phoxinus	Minnow	RedList_Global_post2001_LC
Pica picaMagpieIUCN_br LCPipistrellus nathusiiNathusius's PipistrelleHabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrelles agg.Pipistrelle bat speciesHabRegs2, LBAP, S41, WCA5Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pipistrellusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Plantago mediaHoary PlantainRedList_ENG_post2001-NTPlatycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlecotus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifoliaBlack PoplarBAP	Phylloscopus collybita	Chiffchaff	IUCN_br LC
Pipistrellus nathusiiNathusius's PipistrelleHabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9Pipistrellus pipistrelles agg.Pipistrelle bat speciesHabRegs2, LBAP, S41, WCA5Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pygmaeusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Plantago mediaHoary PlantainRedList_ENG_post2001-NTPlatycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlecotus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifoliaBlack PoplarLBAP	Phylloscopus trochilus	Willow Warbler	BAm [RSPB], IUCN_br LC
Pipistrellus pipistrelles agg.Pipistrelle bat speciesHabRegs2, LBAP, S41, WCA5Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pygmaeusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Plantago mediaHoary PlantainRedList_ENG_post2001-NTPlatycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlecotus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifoliaBlack PoplarLBAP	Pica pica	Magpie	IUCN_br LC
Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pygmaeusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Plantago mediaHoary PlantainRedList_ENG_post2001-NTPlatycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlecotus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifoliaBlack PoplarLBAP	Pipistrellus nathusii	Nathusius's Pipistrelle	HabRegs2, HabRegs4, RedList_GB_post2001-NT, S41, WCA5, WCA5_9
Pipistrellus pipistrellusCommon PipistrelleHabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9Pipistrellus pygmaeusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Plantago mediaHoary PlantainRedList_ENG_post2001-NTPlatycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlecotus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifoliaBlack PoplarLBAP	Pipistrellus pipistrelles agg.	Pipistrelle bat species	HabRegs2, LBAP, S41, WCA5
Pipistrellus pygmaeusSoprano PipistrelleHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Plantago mediaHoary PlantainRedList_ENG_post2001-NTPlatycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlecotus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifoiBlack PoplarLBAP	Pipistrellus pipistrellus	Common Pipistrelle	HabRegs2, HabRegs4, RedList_Global_post2001_LC, S41, WCA5, WCA5_9
Plantago mediaHoary PlantainRedList_ENG_post2001-NTPlatycnemis pennipesWhite-legged DamselflyRedList_Global_post2001_LCPlecotus auritusBrown Long-eared BatHabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9Populus nigraBlack-poplarRedList_Global_post2001_LCPopulus nigra subsp. betulifoliaBlack PoplarLBAP	Pipistrellus pygmaeus	Soprano Pipistrelle	
Platycnemis pennipes     White-legged Damselfly     RedList_Global_post2001_LC       Plecotus auritus     Brown Long-eared Bat     HabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9       Populus nigra     Black-poplar     RedList_Global_post2001_LC       Populus nigra subsp. betulifolia     Black Poplar     LBAP	Plantago media	Hoary Plantain	
Plecotus auritus     Brown Long-eared Bat     HabRegs2, HabRegs4, LBAP, S41, UKBAP, WCA5, WCA5_9       Populus nigra     Black-poplar     RedList_Global_post2001_LC       Populus nigra subsp. betulifoia     Black Poplar     LBAP	Platycnemis pennipes	White-legged Damselfly	
Populus nigra     Black-poplar     RedList_Global_post2001_LC       Populus nigra subsp. betulifolia     Black Poplar     LBAP			
Populus nigra subsp. betulifolia Black Poplar LBAP		-	
	Potamogeton pusillus		

Scientific_name	Common_name	Designation
Potentilla palustris	Marsh Cinquefoil	RedList_ENG_post2001-NT
Prunella modularis	Dunnock	BAm [RSPB], IUCN_br LC
Pyrrhula pyrrhula	Bullfinch	BAm [RSPB], IUCN_br LC, LBAP
Quercus cerris	Turkey Oak	INNS
Rana temporaria	Common Frog	HabRegs5, RedList_Global_post2001_LC, WCA5_9
Ranunculus flammula	Lesser Spearwort	RedList_ENG_post2001-VU
Regulus regulus	Goldcrest	IUCN_br LC
Rhododendron ponticum	Rhododendron ponticum	INNS
Robinia pseudoacacia	False-acacia	INNS
Rosa rugosa	Japanese Rose	INNS
Ruscus aculeatus	Butcher's-broom	HabRegs5
Salmo trutta	Brown/Sea Trout	RedList_Global_post2001_LC, S41, UKBAP
Sanicula europaea	Sanicle	RedList_ENG_post2001-NT
Sarcophaga subulata	Sarcophaga subulata	Note
Sciurus carolinensis	Eastern Grey Squirrel	RedList_GB_post2001-NE, RedList_Global_post2001_LC
Senecio aquaticus	Marsh Ragwort	RedList_ENG_post2001-NT
Silene flos-cuculi	Ragged-Robin	RedList_ENG_post2001-NT
Streptopelia decaocto	Collared Dove	IUCN_br NT
Strix aluco	Tawny Owl	BAm [RSPB], IUCN_br NT
Sturnus vulgaris	Starling	BRd [RSPB], IUCN_br Vul, IUCN_nbr LC, LBAP
Succisa pratensis	Devil's-bit Scabious	RedList_ENG_post2001-NT
Sylvia atricapilla	Blackcap	IUCN_br LC
Sylvia borin	Garden Warbler	IUCN_br LC
Sylvia communis	Whitethroat	BAm [RSPB], IUCN_br LC
Sylvia curruca	Lesser Whitethroat	IUCN_br LC
Sympetrum sanguineum	Ruddy Darter	RedList_Global_post2001_LC
Sympetrum striolatum	Common Darter	RedList_Global_post2001_LC
Taxus baccata	Yew	RedList_Global_post94-LC
Thymallus thymallus	Grayling	HabRegs4, HabRegs5, RedList_Global_post2001_LC
Triglochin palustre	Marsh Arrowgrass	RedList_ENG_post2001-NT
Triturus cristatus	Great Crested Newt	HabRegs2, HabRegs4, LBAP, RedList_Global_post2001_LC, S41, UKBAP, WCA5_9
Troglodytes troglodytes	Wren	BAm [RSPB], IUCN_br LC
Turdus iliacus	Redwing	BAm [RSPB], IUCN_br CE, IUCN_nbr LC, WCA1_1
Turdus merula	Blackbird	IUCN_br LC
Turdus philomelos	Song Thrush	BAm [RSPB], IUCN_br LC, LBAP
Turdus pilaris	Fieldfare	BRd [RSPB], IUCN_br CEPe, IUCN_nbr LC, WCA1_1
Turdus viscivorus	Mistle Thrush	BRd [RSPB], IUCN_br Vul
Tyto alba	Barn Owl	BAm [RSPB], IUCN_br LC, LBAP, WCA1_1
Valeriana officinalis	Common Valerian	IUCN_WL, RedList_ENG_post2001-NT
Vanellus vanellus	Lapwing	BRd [RSPB], IUCN_br En, IUCN_nbr Vul, LBAP, S41, UKBAP
Vicia sativa subsp. segetalis	Common Vetch	IUCN_WL

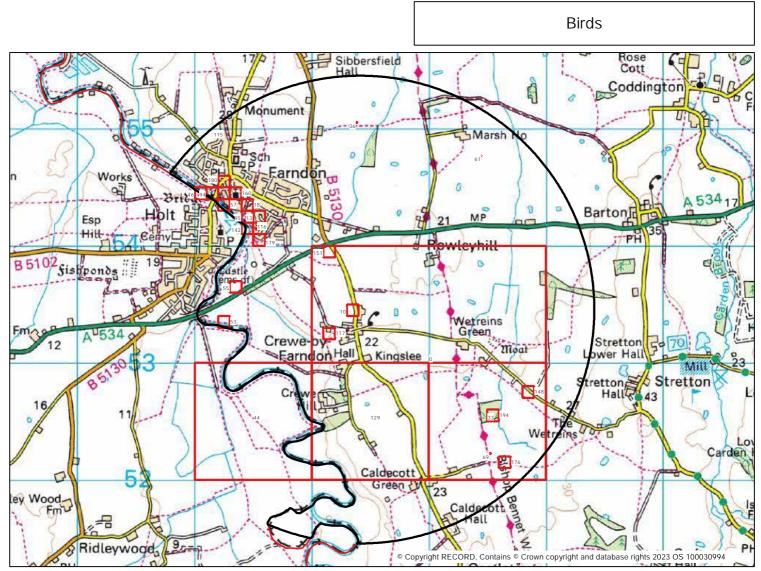
## SPECIES SEARCH REPORT



Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Bufo bufo	Common Toad	SJ435525	2011	2018	194
Bufo bufo	Common Toad	SJ435523	2010	2012	43
Bufo bufo	Common Toad	SJ415542	2012	2012	13
Bufo bufo	Common Toad	SJ43755202	2012	2012	170
Bufo bufo	Common Toad	SJ436524	2010	2010	188
Bufo bufo	Common Toad	SJ416545	2005	2005	9
Bufo bufo	Common Toad	SJ437520	2010	2018	139
Bufo bufo	Common Toad	SJ436521	2012	2012	176
Lissotriton helveticus	Palmate Newt	SJ43755202	2012	2012	170
Lissotriton vulgaris	Smooth Newt	SJ435523	2010	2010	43
Lissotriton vulgaris	Smooth Newt	SJ436521	2012	2012	176
Rana temporaria	Common Frog	SJ43755202	2012	2012	170
Rana temporaria	Common Frog	SJ416545	2005	2005	9
Rana temporaria	Common Frog	SJ436521	2012	2012	176
Rana temporaria	Common Frog	SJ435525	2011	2017	194
Triturus cristatus	Great Crested Newt	SJ422531	2016	2016	54
Triturus cristatus	Great Crested Newt	SJ424526	2016	2016	56
Triturus cristatus	Great Crested Newt	SJ437520	2010	2018	139
Triturus cristatus	Great Crested Newt	SJ423527	2016	2016	15
Triturus cristatus	Great Crested Newt	SJ419553	2017	2017	187
Triturus cristatus	Great Crested Newt	SJ435523	2010	2012	43
Triturus cristatus	Great Crested Newt	SJ42435359	2017	2017	77
Triturus cristatus	Great Crested Newt	SJ422534	2016	2016	78

Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Triturus cristatus	Great Crested Newt	SJ424534	2016	2016	119
Triturus cristatus	Great Crested Newt	SJ436521	2012	2012	176
Triturus cristatus	Great Crested Newt	SJ423529	2016	2016	164
Triturus cristatus	Great Crested Newt	SJ43755202	2012	2012	170
Triturus cristatus	Great Crested Newt	SJ423531	2016	2016	21
Triturus cristatus	Great Crested Newt	SJ435525	2012	2017	194

## SPECIES SEARCH REPORT

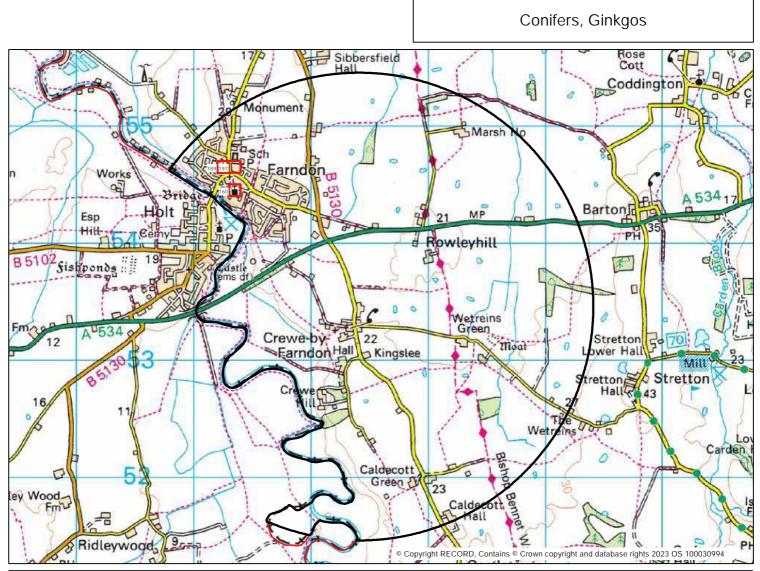


Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Accipiter nisus	Sparrowhawk	SJ4352	2010	2010	33
Aegithalos caudatus	Long-tailed Tit	SJ45G	2012	2012	0
Aegithalos caudatus	Long-tailed Tit	SJ4352	2009	2009	33
Aegithalos caudatus	Long-tailed Tit	SJ43525222	2021	2021	69
Anas platyrhynchos	Mallard	SJ4352	2009	2009	33
Anas platyrhynchos	Mallard	SJ414541	2011	2011	142
Anas platyrhynchos	Mallard	SJ411544	2011	2011	94
Anas platyrhynchos	Mallard	SJ436521	2012	2012	176
Anas platyrhynchos	Mallard	SJ45G	2012	2012	0
Apus apus	Swift	SJ412545	2016	2016	180
Apus apus	Swift	SJ4352	2010	2010	33
Apus apus	Swift	SJ4152	2003	2003	44
Ardea cinerea	Grey Heron	SJ45G	2012	2012	0
Ardea cinerea	Grey Heron	SJ4352	2010	2010	33
Branta canadensis	Canada Goose	SJ4352	2009	2009	33
Branta canadensis	Canada Goose	SJ436521	2012	2012	176
Buteo buteo	Buzzard	SJ4352	2009	2009	33
Buteo buteo	Buzzard	SJ413536	2012	2012	55
Buteo buteo	Buzzard	SJ4252	2007	2007	129
Buteo buteo	Buzzard	SJ435525	2012	2012	194
Buteo buteo	Buzzard	SJ45G	2012	2012	0
Carduelis carduelis	Goldfinch	SJ4352	2009	2009	33
Carduelis carduelis	Goldfinch	SJ45G	2012	2012	0

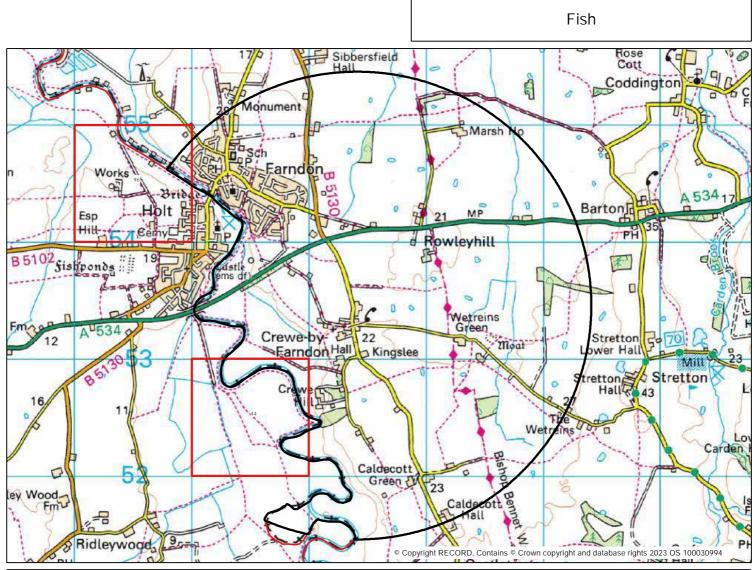
Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Certhia familiaris	Treecreeper	SJ45G	2012	2012	0
Certhia familiaris	Treecreeper	SJ4352	2010	2010	33
Chloris chloris	Greenfinch	SJ412543	2016	2016	57
Chloris chloris	Greenfinch	SJ413544	2016	2016	160
Chloris chloris	Greenfinch	SJ421532	2012	2012	117
Chloris chloris	Greenfinch	SJ43525222	2021	2021	69
Columba palumbus	Woodpigeon	SJ413544	2016	2016	160
Columba palumbus	Woodpigeon	SJ412543	2016	2017	57
Columba palumbus	Woodpigeon	SJ45G	2012	2012	0
Columba palumbus	Woodpigeon	SJ4352	2009	2010	33
Corvus corax	Raven	SJ45G	2012	2012	0
Corvus corone	Carrion Crow	SJ45G	2012	2012	0
Corvus frugilegus	Rook	SJ45G	2012	2012	0
Corvus monedula	Jackdaw	SJ412543	2020	2020	57
Corvus monedula	Jackdaw	SJ423534	2012	2012	10
Cuculus canorus	Cuckoo	SJ45G	2012	2012	0
Cuculus canorus	Cuckoo	SJ4352	2012	2012	33
Cyanistes caeruleus	Blue Tit	SJ435525	2012	2012	194
Cyanistes caeruleus	Blue Tit	SJ45G	2012	2012	0
Cyanistes caeruleus	Blue Tit	SJ413544	2016	2016	160
Cyanistes caeruleus	Blue Tit	SJ43525222	2021	2021	69
Cyanistes caeruleus	Blue Tit	SJ4352	2009	2010	33
Cygnus olor	Mute Swan	SJ45G	2012	2012	0
Cygnus olor	Mute Swan	SJ4352	2009	2009	33
Dendrocopos major	Great Spotted Woodpecker	SJ43525222	2021	2021	69
Dendrocopos major	Great Spotted Woodpecker	SJ421532	2010	2010	117
Dendrocopos major	Great Spotted Woodpecker	SJ4352	2009	2010	33
Dendrocopos major	Great Spotted Woodpecker	SJ45G	2012	2012	0
Emberiza schoeniclus	Reed Bunting	SJ45G	2012	2012	0
Erithacus rubecula	Robin	SJ413544	2016	2016	160
Erithacus rubecula	Robin	SJ43525222	2021	2021	69
Erithacus rubecula	Robin	SJ4124754980	2014	2014	115
Erithacus rubecula	Robin	SJ45G	2012	2012	0
Erithacus rubecula	Robin	SJ415540	2016	2020	179
Erithacus rubecula	Robin	SJ4352	2009	2010	33
Falco subbuteo	Hobby	SJ4152	2003	2003	44
Falco tinnunculus	Kestrel	SJ45G	2012	2012	0
Falco tinnunculus	Kestrel	SJ410544	2020	2020	46
Falco tinnunculus	Kestrel	SJ436521	2012	2012	176
Fringilla coelebs	Chaffinch	SJ45G	2012	2012	0
Fringilla coelebs	Chaffinch	SJ4352	2012	2012	33
Fringilla coelebs	Chaffinch	SJ4352	2010	2021	69
•					
Fulica atra	Coot	SJ436521	2012	2012	176
Fulica atra	Coot	SJ45G	2012	2012	0
Gallinago gallinago	Snipe	SJ4352	2009	2010	33
Gallinago gallinago	Snipe	SJ45G	2012	2012	0
Gallinago gallinago	Snipe	SJ436521	2012	2012	176
Gallinula chloropus	Moorhen	SJ45G	2012	2012	0
Gallinula chloropus	Moorhen	SJ4352	2010	2010	33
Gallinula chloropus	Moorhen	SJ436521	2012	2012	176
Gallinula chloropus	Moorhen	SJ43525222	2021	2021	69
Garrulus glandarius	Jay	SJ4352	2009	2009	33
Garrulus glandarius	Jay	SJ45G	2012	2012	0
Garrulus glandarius	Jay	SJ4344954770	2009	2009	61
Hirundo rustica	Swallow	SJ4124754980	2014	2014	115
Hirundo rustica	Swallow	SJ45G	2012	2012	0
Hirundo rustica	Swallow	SJ4352	2009	2010	33

Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Mergus merganser	Goosander	SJ412533	2020	2020	53
Motacilla alba	Pied Wagtail	SJ414543	2011	2011	18
Motacilla alba	Pied Wagtail	SJ421539	2012	2012	151
Motacilla alba	Pied Wagtail	SJ415542	2012	2012	13
Motacilla alba subsp. yarrellii	Pied Wagtail	SJ45G	2012	2012	0
Numenius arquata	Curlew	SJ45G	2012	2012	0
Oenanthe oenanthe	Wheatear	SJ45G	2012	2012	0
Parus major	Great Tit	SJ45G	2012	2012	0
Parus major	Great Tit	SJ413544	2016	2016	160
Parus major	Great Tit	SJ4352	2009	2010	33
Parus major	Great Tit	SJ43525222	2021	2021	69
Parus major	Great Tit	SJ435525	2012	2012	194
Parus major	Great Tit	SJ414541	2011	2011	142
Passer domesticus	House Sparrow	SJ411544	2011	2011	94
Periparus ater	Coal Tit	SJ45G	2012	2012	0
Phylloscopus collybita	Chiffchaff	SJ4352	2010	2010	33
Phylloscopus collybita	Chiffchaff	SJ435525	2012	2012	194
Phylloscopus collybita	Chiffchaff	SJ412543	2016	2016	57
Phylloscopus collybita	Chiffchaff	SJ45G	2012	2012	0
Phylloscopus trochilus	Willow Warbler	SJ45G	2012	2012	0
Pica pica	Magpie	SJ45G	2012	2012	0
Pica pica	Magpie	SJ43525222	2012	2021	69
Prunella modularis	Dunnock	SJ45G	2012	2012	0
Prunella modularis	Dunnock	SJ41525414	2012	2012	116
Prunella modularis	Dunnock	SJ415540	2012	2012	179
		SJ43525222	2010	2018	69
Prunella modularis	Dunnock Dunnock		2021	2021	115
Prunella modularis		SJ4124754980	2014	2014	33
Pyrrhula pyrrhula	Bullfinch	SJ4352			
Pyrrhula pyrrhula	Bullfinch	SJ45G	2012	2012	0
Regulus regulus	Goldcrest	SJ4352	2010	2010	33
Regulus regulus	Goldcrest	SJ45G	2012	2012	0
Streptopelia decaocto	Collared Dove	SJ45G	2012	2012	0
Strix aluco	Tawny Owl	SJ4352	2009	2009	33
Strix aluco	Tawny Owl	SJ45G	2012	2012	0
Sturnus vulgaris	Starling	SJ45G	2012	2012	0
Sylvia atricapilla	Blackcap	SJ45G	2012	2012	0
Sylvia borin	Garden Warbler	SJ45G	2012	2012	0
Sylvia communis	Whitethroat	SJ45G	2012	2012	0
Sylvia curruca	Lesser Whitethroat	SJ45G	2012	2012	0
Troglodytes troglodytes	Wren	SJ4352	2009	2010	33
Troglodytes troglodytes	Wren	SJ413544	2016	2016	160
Troglodytes troglodytes	Wren	SJ414542	2016	2016	95
Troglodytes troglodytes	Wren	SJ45G	2012	2012	0
Troglodytes troglodytes	Wren	SJ4124754980	2014	2014	115
Turdus iliacus	Redwing	SJ45G	2012	2012	0
Turdus iliacus	Redwing	SJ438527	2011	2011	148
Turdus iliacus	Redwing	SJ4352	2009	2009	33
Turdus merula	Blackbird	SJ415540	2020	2020	179
Turdus merula	Blackbird	SJ4352	2009	2010	33
Turdus merula	Blackbird	SJ4124754980	2014	2014	115
Turdus merula	Blackbird	SJ411544	2011	2011	94
Turdus merula	Blackbird	SJ413544	2016	2016	160
Turdus merula	Blackbird	SJ43525222	2021	2021	69
Turdus merula	Blackbird	SJ45G	2012	2012	0
Turdus merula	Blackbird	SJ412543	2016	2016	57
Turdus philomelos	Song Thrush	SJ45G	2012	2012	0
Turdus philomelos	Song Thrush	SJ43525222	2021	2021	69

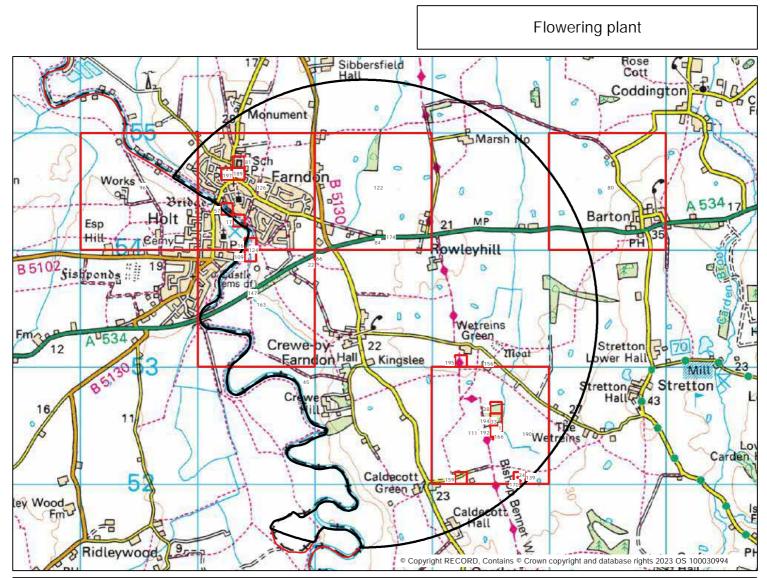
Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Turdus philomelos	Song Thrush	SJ4352	2009	2009	33
Turdus pilaris	Fieldfare	SJ438527	2011	2011	148
Turdus pilaris	Fieldfare	SJ45G	2012	2012	0
Turdus pilaris	Fieldfare	SJ4352	2009	2010	33
Turdus viscivorus	Mistle Thrush	SJ438527	2011	2011	148
Tyto alba	Barn Owl	SJ45G	2012	2012	0
Vanellus vanellus	Lapwing	SJ45G	2012	2012	0
Vanellus vanellus	Lapwing	SJ42385505	2011	2011	36



Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Taxus baccata	Yew	SJ413546	2016	2016	197
Taxus baccata	Yew	SJ412546	2019	2019	189
Taxus baccata	Yew	SJ413544	2016	2016	160



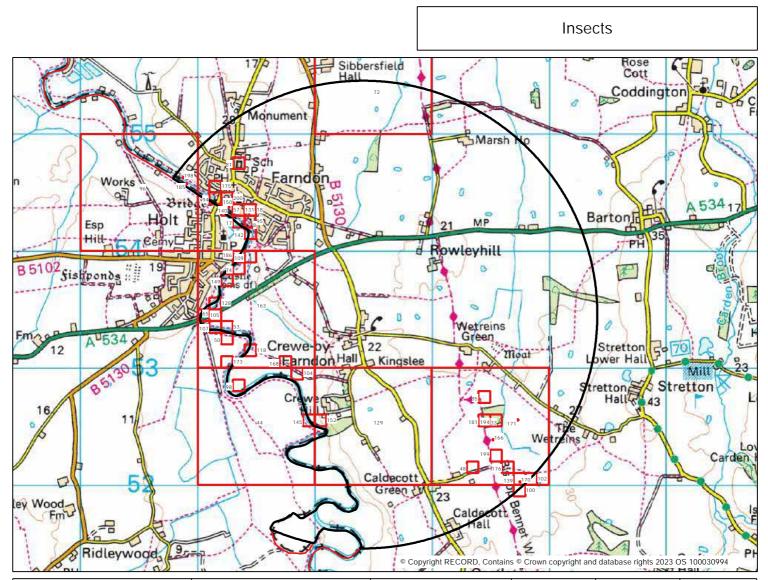
Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Phoxinus phoxinus	Minnow	SJ4152	2003	2003	44
Salmo trutta	Brown/Sea Trout	SJ4054	2003	2003	96
Thymallus thymallus	Grayling	SJ4054	2003	2003	96



Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Alnus glutinosa	Alder	SJ4352	2020	2020	33
Alnus glutinosa	Alder	SJ435525	2018	2018	194
Alnus glutinosa	Alder	SJ4254	2003	2003	122
Alnus glutinosa	Alder	SJ4454	2003	2003	80
Anthemis arvensis	Corn Chamomile	SJ435525	2018	2018	194
Apium inundatum	Lesser Marshwort	SJ4254	2003	2003	122
Baldellia ranunculoides	Lesser Water-plantain	SJ4254	2003	2003	122
Bromus racemosus	Smooth Brome	SJ435525	2018	2018	194
Bromus racemosus	Smooth Brome	SJ4352	2020	2020	33
Calluna vulgaris	Heather	SJ412546	2019	2019	189
Centaurea cyanus	Cornflower	SJ435525	2018	2018	194
Crocosmia pottsii x aurea = C. x crocosmiiflora	Montbretia	SJ4153	2008	2008	163
Cruciata laevipes	Crosswort	SJ4352	2020	2020	33
Cruciata laevipes	Crosswort	SJ4254	2004	2004	122
Cruciata laevipes	Crosswort	SJ435525	2018	2018	194
Cruciata laevipes	Crosswort	SJ437520	2012	2012	139
Cruciata laevipes	Crosswort	SJ4054	2003	2003	96
Epipactis palustris	Marsh Helleborine	SJ43525238	2012	2012	166
Fallopia japonica	Japanese Knotweed	SJ4154	2010	2014	126
Fallopia japonica	Japanese Knotweed	SJ414539	2015	2015	109
Genista tinctoria	Dyer's Greenweed	SJ4352	2020	2020	33
Genista tinctoria	Dyer's Greenweed	SJ435525	2018	2018	194
Glebionis segetum	Corn Marigold	SJ435525	2018	2018	194

Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Heracleum mantegazzianum	Giant Hogweed	SJ4254	2005	2005	122
Hyacinthoides non-scripta	Bluebell	SJ412546	2019	2019	189
Hyacinthoides non-scripta	Bluebell	SJ4352	2020	2020	33
Hyacinthoides non-scripta	Bluebell	SJ435525	2018	2018	194
Hydrocharis morsus-ranae	Frogbit	SJ435525	2018	2018	194
Hydrocharis morsus-ranae	Frogbit	SJ4254	2003	2003	122
Hydrocharis morsus-ranae	Frogbit	SJ437520	2012	2012	139
Hydrocharis morsus-ranae	Frogbit	SJ4352	2020	2020	33
Hydrocotyle vulgaris	Marsh Pennywort	SJ4254	2003	2003	122
Impatiens glandulifera	Indian Balsam	SJ4454	2003	2003	80
Impatiens glandulifera	Indian Balsam	SJ414540	2017	2017	16
					126
Impatiens glandulifera	Indian Balsam	SJ4154	2010	2010	
Impatiens glandulifera	Indian Balsam	SJ412543	2017	2017	57
Impatiens glandulifera	Indian Balsam	SJ4195852898	2013	2013	45
Impatiens glandulifera	Indian Balsam	SJ4143453982	2013	2013	124
Impatiens glandulifera	Indian Balsam	SJ4142453611	2013	2013	147
Lathyrus linifolius	Bitter-vetch	SJ4352	2020	2020	33
Lathyrus linifolius	Bitter-vetch	SJ435525	2018	2018	194
Lathyrus linifolius	Bitter-vetch	SJ437520	2012	2012	139
Lathyrus nissolia	Grass Vetchling	SJ435525	2018	2018	194
Lathyrus nissolia	Grass Vetchling	SJ432520	2012	2012	159
Lathyrus nissolia	Grass Vetchling	SJ4352	2020	2020	33
Mespilus germanica	Medlar	SJ413546	2016	2016	197
Oenanthe fistulosa	Tubular Water-dropwort	SJ4254	2003	2003	122
Ononis spinosa	Spiny Restharrow	SJ435525	2018	2018	194
Plantago media	Hoary Plantain	SJ4352	2020	2020	33
	Black-poplar	SJ432530	2014	2014	195
Populus nigra				2014	38
Populus nigra	Black-poplar	SJ435526	2010		
Populus nigra subsp. betulifolia	Black Poplar	SJ4257054090	2005	2005	84
Populus nigra subsp. betulifolia	Black Poplar	SJ4260654091	2016	2016	174
Populus nigra subsp. betulifolia	Black Poplar	SJ4386052450	2005	2005	190
Populus nigra subsp. betulifolia	Black Poplar	SJ4200053900	2005	2010	22
Populus nigra subsp. betulifolia	Black Poplar	SJ4200153901	2016	2016	201
Populus nigra subsp. betulifolia	Black Poplar	SJ4200053920	2010	2010	110
Populus nigra subsp. betulifolia	Black Poplar	SJ4360052505	2016	2016	1
Populus nigra subsp. betulifolia	Black Poplar	SJ4339552460	2016	2016	111
Populus nigra subsp. betulifolia	Black Poplar	SJ4353253056	2016	2016	156
Populus nigra subsp. betulifolia	Black Poplar	SJ4200953907	2016	2016	66
Potamogeton pusillus	Lesser Pondweed	SJ43755202	2012	2012	170
Potamogeton pusillus	Lesser Pondweed	SJ43735205	2013	2013	24
Potentilla palustris	Marsh Cinquefoil	SJ4254	2003	2003	122
Quercus cerris	Turkey Oak	SJ4454	2003	2003	80
	-				
Ranunculus flammula	Lesser Spearwort	SJ435525	2018	2018	194
Ranunculus flammula	Lesser Spearwort	SJ4352	2020	2020	33
Rhododendron ponticum	Rhododendron ponticum	SJ412546	2019	2019	189
Rhododendron ponticum	Rhododendron ponticum	SJ4454	2004	2004	80
Robinia pseudoacacia	False-acacia	SJ413547	2016	2016	81
Rosa rugosa	Japanese Rose	SJ413542	2017	2017	17
Ruscus aculeatus	Butcher's-broom	SJ4254	2004	2004	122
Sanicula europaea	Sanicle	SJ435525	2018	2018	194
Sanicula europaea	Sanicle	SJ4352	2020	2020	33
Senecio aquaticus	Marsh Ragwort	SJ4454	2003	2003	80
Senecio aquaticus	Marsh Ragwort	SJ435525	2018	2018	194
Senecio aquaticus	Marsh Ragwort	SJ435524	2010	2010	192
Senecio aquaticus	Marsh Ragwort	SJ4352	2020	2020	33
Senecio aquaticus	Marsh Ragwort	SJ4254	2003	2003	122
esticolo aqualicas	maish nugwolt	007207	2000	2000	1

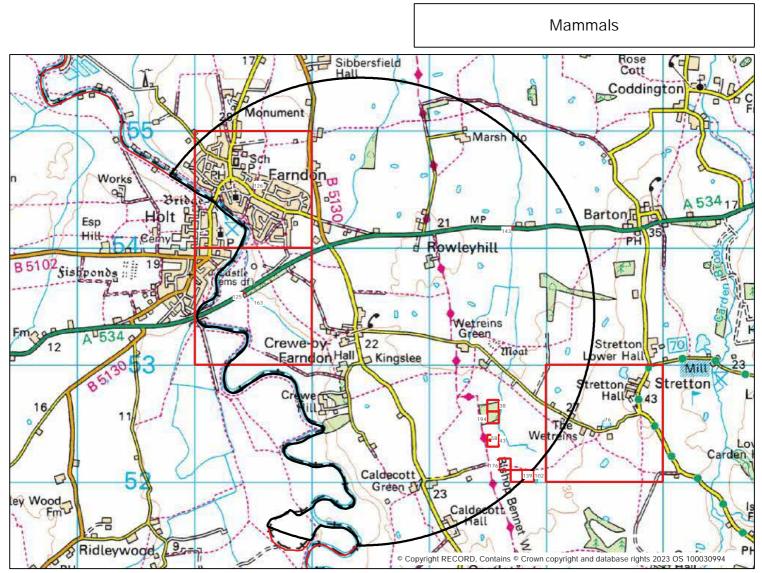
Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Silene flos-cuculi	Ragged-Robin	SJ435525	2018	2018	194
Succisa pratensis	Devil's-bit Scabious	SJ4352	2020	2020	33
Succisa pratensis	Devil's-bit Scabious	SJ435525	2018	2018	194
Triglochin palustre	Marsh Arrowgrass	SJ435525	2018	2018	194
Triglochin palustre	Marsh Arrowgrass	SJ4352	2020	2020	33
Valeriana officinalis	Common Valerian	SJ4154	2007	2007	126
Valeriana officinalis	Common Valerian	SJ435525	2018	2018	194
Vicia sativa subsp. segetalis	Common Vetch	SJ4254	2004	2004	122
Vicia sativa subsp. segetalis	Common Vetch	SJ4454	2003	2003	80



Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Acronicta psi	Grey Dagger	SJ4255	2002	2002	72
Aeshna grandis	Brown Hawker	SJ43525238	2012	2012	166
Aeshna grandis	Brown Hawker	SJ437520	2010	2018	139
Aeshna grandis	Brown Hawker	SJ43735255	2012	2012	171
Anax imperator	Emperor Dragonfly	SJ437520	2010	2020	139
Aphantopus hyperantus	Ringlet	SJ4352	2015	2015	33
Aphantopus hyperantus	Ringlet	SJ436521	2018	2018	176
Aphantopus hyperantus	Ringlet	SJ43755202	2020	2020	170
Aphantopus hyperantus	Ringlet	SJ437519	2012	2012	100
Aphantopus hyperantus	Ringlet	SJ434527	2011	2011	85
Aphantopus hyperantus	Ringlet	SJ434525	2011	2011	181
Aphantopus hyperantus	Ringlet	SJ438520	2012	2012	102
Aphantopus hyperantus	Ringlet	SJ4150554246	2018	2018	8
Aphantopus hyperantus	Ringlet	SJ435522	2018	2019	199
Aphantopus hyperantus	Ringlet	SJ433521	2011	2011	48
Atherix ibis	Yellow-legged Water-snipefly	SJ4152	2003	2003	44
Calopteryx splendens	Banded Demoiselle	SJ413538	2006	2006	74
Calopteryx splendens	Banded Demoiselle	SJ420525	2008	2008	152
Calopteryx splendens	Banded Demoiselle	SJ4153	2002	2002	163
Calopteryx splendens	Banded Demoiselle	SJ411533	2007	2015	107
Calopteryx splendens	Banded Demoiselle	SJ4054	2002	2002	96
Calopteryx splendens	Banded Demoiselle	SJ40905457	2013	2013	185
Calopteryx splendens	Banded Demoiselle	SJ414543	2006	2006	18

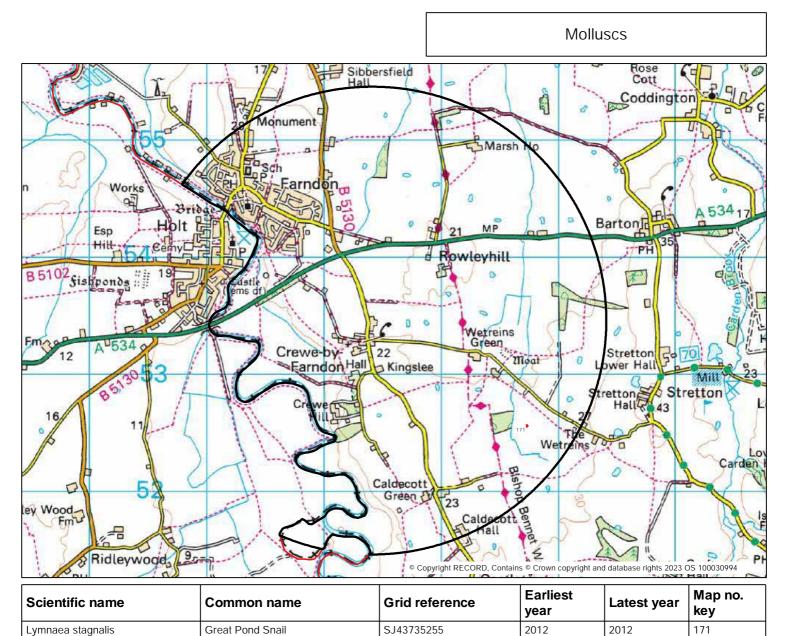
Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Calopteryx splendens	Banded Demoiselle	SJ414541	2002	2002	142
Calopteryx splendens	Banded Demoiselle	SJ412530	2002	2003	173
Calopteryx splendens	Banded Demoiselle	SJ412544	2002	2006	200
Calopteryx splendens	Banded Demoiselle	SJ437520	2010	2010	139
Calopteryx splendens	Banded Demoiselle	SJ411545	2005	2005	175
Calopteryx splendens	Banded Demoiselle	SJ411535	2008	2008	128
Calopteryx splendens	Banded Demoiselle	SJ419525	2008	2008	145
Calopteryx splendens	Banded Demoiselle	SJ412543	2003	2003	57
Calopteryx splendens	Banded Demoiselle	SJ40875462	2003	2003	198
Coenagrion pulchellum	Variable Damselfly	SJ437520	2011	2018	139
Enallagma cyathigerum	Common Blue Damselfly	SJ4054	2002	2002	96
Enallagma cyathigerum	Common Blue Damselfly	SJ412530	2003	2003	173
Enallagma cyathigerum	Common Blue Damselfly	SJ437520	2010	2020	139
Gabrius velox	Gabrius velox	SJ414539	2004	2004	109
Gomphus vulgatissimus	Common Club-tail	SJ4054	2004	2004	96
	Common Club-tail	SJ4034 SJ412544		2002	200
Gomphus vulgatissimus			2002		-
Gomphus vulgatissimus	Common Club-tail	SJ411533	2011	2015	107
Gomphus vulgatissimus	Common Club-tail	SJ412533	2006	2006	53
Gomphus vulgatissimus	Common Club-tail	SJ414531	2002	2002	118
Gomphus vulgatissimus	Common Club-tail	SJ411534	2002	2002	65
Gomphus vulgatissimus	Common Club-tail	SJ412537	2002	2002	149
Gomphus vulgatissimus	Common Club-tail	SJ410534	2010	2010	105
Gomphus vulgatissimus	Common Club-tail	SJ419525	2008	2008	145
Gomphus vulgatissimus	Common Club-tail	SJ411545	2005	2005	175
Gomphus vulgatissimus	Common Club-tail	SJ412532	2002	2002	50
Gomphus vulgatissimus	Common Club-tail	SJ412543	2002	2003	57
Gomphus vulgatissimus	Common Club-tail	SJ412530	2002	2003	173
Gomphus vulgatissimus	Common Club-tail	SJ414542	2002	2002	95
Gomphus vulgatissimus	Common Club-tail	SJ41205439	2002	2002	150
Gomphus vulgatissimus	Common Club-tail	SJ417530	2011	2011	168
Gomphus vulgatissimus	Common Club-tail	SJ420525	2008	2008	152
Gomphus vulgatissimus	Common Club-tail	SJ411544	2005	2005	94
Gomphus vulgatissimus	Common Club-tail	SJ413543	2002	2002	131
Gomphus vulgatissimus	Common Club-tail	SJ413538	2006	2006	74
Gomphus vulgatissimus	Common Club-tail	SJ41265437	2003	2003	140
Gomphus vulgatissimus	Common Club-tail	SJ41253437	2010	2010	98
Gomphus vulgatissimus	Common Club-tail	SJ411535	2002	2002	128
1 5		SJ411353	2002	2002	81
Hippodamia (Adonia) variegata	Adonis' Ladybird				
Ischnura elegans	Blue-tailed Damselfly	SJ411535	2008	2008	128
schnura elegans	Blue-tailed Damselfly	SJ411533	2007	2007	107
lschnura elegans	Blue-tailed Damselfly	SJ412530	2003	2003	173
lschnura elegans	Blue-tailed Damselfly	SJ437520	2010	2018	139
schnura elegans	Blue-tailed Damselfly	SJ4252	2006	2006	129
lschnura elegans	Blue-tailed Damselfly	SJ412544	2006	2006	200
Libellula quadrimaculata	Four-spotted Chaser	SJ4252	2006	2006	129
Libellula quadrimaculata	Four-spotted Chaser	SJ437520	2010	2020	139
Oedemera (Oncomera) femoralis	Oedemera (Oncomera) femoralis	SJ435525	2019	2019	194
Platycnemis pennipes	White-legged Damselfly	SJ414542	2008	2008	95
Platycnemis pennipes	White-legged Damselfly	SJ413539	2008	2008	186
Platycnemis pennipes	White-legged Damselfly	SJ420525	2008	2008	152
Platycnemis pennipes	White-legged Damselfly	SJ411533	2007	2011	107
Platycnemis pennipes	White-legged Damselfly	SJ418529	2008	2008	104
Platycnemis pennipes	White-legged Damselfly	SJ411535	2008	2008	128
Platycnemis pennipes	White-legged Damselfly	SJ419525	2008	2008	145
Platycnemis pennipes	White-legged Damselfly	SJ413542	2007	2007	17
Sarcophaga subulata	Sarcophaga subulata	SJ435525	2019	2019	194
Sympetrum sanguineum	Ruddy Darter	SJ437520	2010	2018	139

Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Sympetrum striolatum	Common Darter	SJ437520	2010	2018	139

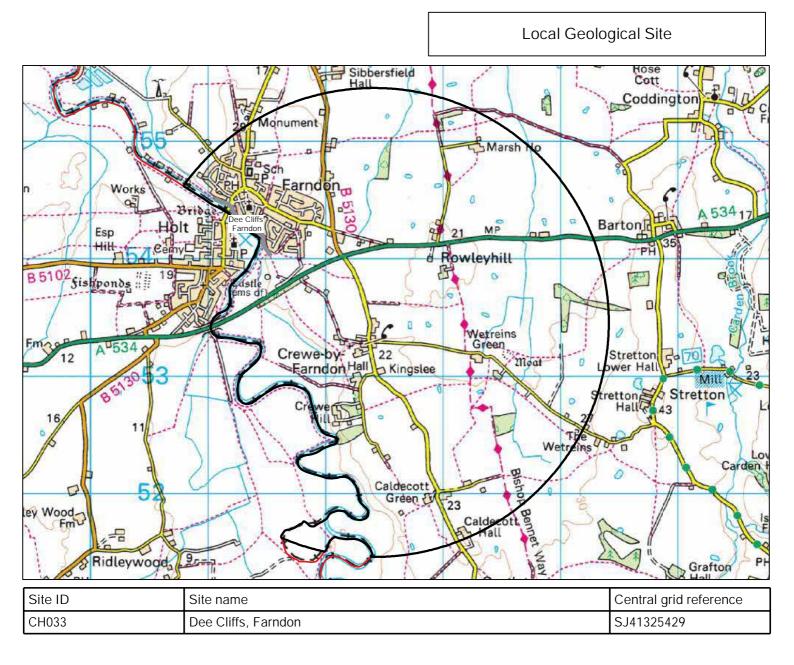


Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Lepus europaeus	Brown Hare	SJ435523	2012	2012	43
Lepus europaeus	Brown Hare	SJ437520	2010	2010	139
Meles meles	Eurasian Badger	SJ41415361	2016	2016	125
Meles meles	Eurasian Badger	SJ43715417	2015	2015	143
Meles meles	Eurasian Badger	SJ438520	2009	2010	102
Meles meles	Eurasian Badger	SJ4452	2018	2018	76
Meles meles	Eurasian Badger	SJ4153	2012	2012	163
Micromys minutus	Harvest Mouse	SJ43525235	2022	2022	58
Micromys minutus	Harvest Mouse	SJ436521	2012	2012	176
Micromys minutus	Harvest Mouse	SJ435525	2011	2011	194
Myotis daubentonii	Daubenton's Bat	SJ437520	2011	2018	139
Myotis mystacinus/brandtii	Whiskered/Brandt's Bat	SJ437520	2015	2016	139
Myotis nattereri	Natterer's Bat	SJ437520	2011	2018	139
Nyctalus noctula	Noctule Bat	SJ437520	2011	2018	139
Nyctalus noctula	Noctule Bat	SJ436521	2010	2010	176
Oryctolagus cuniculus	European Rabbit	SJ435525	2009	2012	194
Oryctolagus cuniculus	European Rabbit	SJ435523	2012	2012	43
Pipistrellus nathusii	Nathusius's Pipistrelle	SJ437520	2016	2016	139
Pipistrellus pipistrelles agg.	Pipistrelle bat species	SJ4154	2005	2005	126
Pipistrellus pipistrellus	Common Pipistrelle	SJ437520	2010	2018	139
Pipistrellus pipistrellus	Common Pipistrelle	SJ435525	2009	2009	194
Pipistrellus pipistrellus	Common Pipistrelle	SJ435523	2012	2012	43
Pipistrellus pygmaeus	Soprano Pipistrelle	SJ435523	2012	2012	43

Scientific name	Common name	Grid reference	Earliest year	Latest year	Map no. key
Pipistrellus pygmaeus	Soprano Pipistrelle	SJ437520	2010	2018	139
Plecotus auritus	Brown Long-eared Bat	SJ437520	2010	2018	139
Plecotus auritus	Brown Long-eared Bat	SJ435525	2009	2009	194
Sciurus carolinensis	Eastern Grey Squirrel	SJ435525	2009	2012	194
Sciurus carolinensis	Eastern Grey Squirrel	SJ435526	2010	2010	38



## SITES SEARCH REPORT



# APPENDICES

Appendix 1 - Designations key

Appendix 1 - Designations key	
DESIGNATION_CODE	DESIGNATION
BAct	Protection of Badgers Act 1992
BAm [RSPB]	Birds of Conservation Concern - Amber
BRd [RSPB]	Birds of Conservation Concern - Red
HabRegs2	Conservation (Habs & Sp) Regulations 2010 - Sch. 2
HabRegs4	Conservation (Habs & Sp) Regulations 2010 - Sch. 4
HabRegs5	Conservation (Habs & Sp) Regulations 2010 - Sch. 5
INNS	Invasive Non-Native Species
IR	Internationally Rare
IUCN Re	GB Red List - Regionally Extinct
IUCN_br	GB Red List (breeding) - Extinct
IUCN_br CE	GB Red List (breeding) - Critically Endangered
IUCN_br CEPe	GB Red List (breeding) - Critically Endangered (poss. Extinct)
IUCN_br En	GB Red List (breeding) - Endangered
IUCN_br LC	GB Red List (breeding) - Least Concern
IUCN_br NT	GB Red List (breeding) - Near Threatened
IUCN_br Re	GB Red List (breeding) - Regionally Extinct
IUCN_br Vul	GB Red List (breeding) - Vulnerable
IUCN_nbr CE	GB Red List (non-breeding) - Critically Endangered
IUCN_nbr En	GB Red List (non-breeding) - Endangered
IUCN_nbr LC	GB Red List (non-breeding) - Least Concern
IUCN_nbr NT	GB Red List (non-breeding) - Near Threatened
IUCN_nbr Vul	GB Red List (non-breeding) - Vulnerable
IUCN_WL	Red listing based on 2001 IUCN guidelines Waiting List
LBAP	Local BAP Species
LRaSc	Locally Rare & Scare
Note	Rare and scarce species - Notable
Note_B	Rare and scarce species - Notable B
Note-A	Rare and scarce species - Notable A
NR	Nationally Rare
NR Marine	Nationally Rare - Marine
NS	Nationally Scarce
NS Marine	Nationally Scarce - Marine
OSP	OSPAR
RedList_ENG_post2001-CR	ENG Red List - Critically Endangered
RedList_ENG_post2001-DD	ENG Red List - Data Deficient
RedList_ENG_post2001-EN	ENG Red List - Endangered
RedList_ENG_post2001-NT	ENG Red List - Near Threatened
RedList_ENG_post2001-RE	ENG Red List - Regionally Extinct
RedList_ENG_post2001-VU	ENG Red List - Vulnerable
RedList_Europe_post2001-LC	EU Red List - Least Concern
RedList_Europe_post2001-NT	EU Red List - Near Threatened
RedList_GB_post2001-CR	GB Red List - Critically Endangered
,	

DESIGNATION_CODE	DESIGNATION
RedList_GB_post2001-CR(PE)	GB Red List - Critically Endangered (poss. Extinct)
RedList_GB_post2001-DD	GB Red List - Data Deficient
RedList_GB_post2001-EN	GB Red List - Endangered
RedList_GB_post2001-EW	GB Red List - Extinct in the Wild
RedList_GB_post2001-EX	GB Red List - Extinct
RedList_GB_post2001-NE	GB Red List -Not Evaluated
RedList_GB_post2001-NT	GB Red List - Near Threatened
RedList_GB_post2001-RE	GB Red List - Regionally Extinct
RedList_GB_post2001-VU	GB Red List - Vulnerable
RedList_GB_post94-CR	GB Red List (IUCN 1994) - Critically Endangered
RedList_GB_post94-DD	GB Red List (IUCN 1994) - Data Deficient
RedList_GB_post94-EN	GB Red List (IUCN 1994) - Endangered
RedList_GB_post94-EX	GB Red List (IUCN 1994) - Extinct
RedList_GB_post94-NT	GB Red List (IUCN 1994) - Near Threatened
RedList_GB_post94-VU	GB Red List (IUCN 1994) - Vulnerable
RedList_Global_post2001_DD	IUCN Global Red List - Data Deficient
RedList_Global_post2001_EX	IUCN Global Red List - Extinct
RedList_Global_post2001_LC	IUCN Global Red List - Least Concern
RedList_Global_post2001_NT	IUCN Global Red List - Near Threatened
RedList_Global_post2001-CR	IUCN Global Red List - Critically Endangered
RedList_Global_post2001-EN	IUCN Global Red List - Endangered
RedList_Global_post2001-VU	IUCN Global Red List - Vulnerable
RedList_Global_post94-CR	IUCN Global Red List (1994 guidelines) - Critically Endangered
RedList_Global_post94-DD	IUCN Global Red List (1994 guidelines) - Data Deficient
RedList_Global_post94-EN	IUCN Global Red List (1994 guidelines) - Endangered
RedList_Global_post94-LC	IUCN Global Red List (1994 guidelines) - Least Concern
RedList_Global_post94-LR(cd)	IUCN Global Red List (1994 guidelines) - Lower Risk (Conservation Dependent)
RedList_Global_post94-NT	IUCN Global Red List (1994 guidelines) - Near Threatened
RedList_Global_post94-VU	IUCN Global Red List (1994 guidelines) - Vulnerable
S41	NERC S41
SpAm	Nationally Scarce, Nationally Rare and Other Species - Spider Amber List
UKBAP	UK BAP Priority Species
WCA1_1	Wildlife & Countryside Act 1981 - Sch. 1 - Part 1
WCA5	Wildlife & Countryside Act - Schedule 5
WCA5_9	Wildlife & Countryside Act Sch. 5. Sect. 9
WCA8	Wildlife & Countryside Act - Sch. 8



Landscape, Arboricultural & Ecological Solutions for the Built Environment

# **Appendix 4**

# Appendix 4: Relevant Legislation

### **European Legislation**

The following Directives have been adopted by the European Union and provide protection for fauna and flora species of European importance and the habitats which support them:

Directive 2009/147/EC on the Conservation of Wild Birds (Birds Directive);

Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (Habitats Directive).

## **UK** Legislation

The Habitats Directive has been transposed into national legislation through the Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019 (The Habitats Regulations). This provides for the designation and protection of 'European Sites' (SPAs, SACs and Ramsar Sites, including proposed or potential European Sites) and the protection of 'European Protected Species'.

The key UK legislation relating to nature conservation is the Wildlife and Countryside Act 1981 (as amended) (W&C Act). This Act is supplemented, inter alia, by provision in the Countryside and Rights of Way (CRoW) Act 2000, and the Natural Environment and Rural Communities Act 2006 (NERC Act). Additional species and habitat specific UK legislation includes the Protection of Badgers Act 1992 and the Hedgerow Regulations 1997.

The Environment Act sets out how the UK will maintain environmental standards following leaving of the EU. The Bill builds on the vision of the 25 Year Environment Plan, with the ambition from the government to leave the environment in a better state than it was when inherited.

The Defra Biodiversity Metric is being implemented to work alongside the Environment Act. This tool calculates potential biodiversity impacts as a result of development and identifies mitigation and compensation requirements to ensure no net loss of biodiversity. In addition, it identifies measures that can be implemented in order to meet Biodiversity gain as a result of development. Defra released a beta version of the biodiversity metric in July 2019 with the latest update being released in March 2023. This metric is likely to be the default metric used by councils.

The National Planning Policy Framework (NPPF) 2021 has been published to provide further planning guidance. Wildlife, biodiversity and ecological networks are referred to in Section 15 'Conserving and enhancing the natural environment'. The NPPF states that the planning system should contribute to and enhance the natural and local environment by: recognising the wider benefits of ecosystem services, minimising impacts on biodiversity and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures. Further guidance is provided within Government Circular 06/05: Biodiversity and Geological Conservation - Statutory Obligations and Their Impact Within the Planning System.

### Species and Habitats of Principal Importance

Species and Habitats of Principal Importance are listed under section 41 of the NERC Act and are a material consideration in planning decisions. Planners require relevant, up to date information from ecological surveys in order to assess the effects of a proposed development on biodiversity as Councils have a statutory obligation under section 40 of the NERC Act to consider biodiversity conservation in the determination of planning applications.

Background information about the lists of priority habitats and species (Species and Habitats of Principal Importance) can be found within the UK Biodiversity Action Plan (UK BAP). Although this has been succeeded by the 'UK Post-2010 Biodiversity Framework', many of UK BAP tools are still relevant. BAPs identify habitats and species of nature conservation priority on a UK (UK BAP) and Local (LBAP) scale. Most BAP priority habitats and species have Habitat Action Plans (HAP) and Species Action Plans (SAP) and there are also "grouped action plans" for groups of related species with similar conservation requirements. The LBAP relating to this Site is the Cheshire Biodiversity Action Plan.

Bats

In England, all bats and their roosts are protected under the Conservation of Habitats and Species Regulations 2017 and the Wildlife & Countryside Act 1981 (as amended). Several species of bat are also highlighted as Priority Species under the UK Biodiversity Action Plan and within the Local BAP.

Under the current legislation as summarised on pages 8 and 9 of the Bat Surveys for Professional Ecologists Good Practice Guidelines – 3rd Edition (2016) it is a criminal offence to:

"To kill, capture, injure or take a wild bat;

To damage or destroy a place used by a bat for breeding or resting. All offences of this nature are identified within the Habitats Regulations. This offence is unique in that it can be committed accidently. No element of intentional, reckless or deliberate action needs to be evidenced; To disturb bats anywhere (roosts, flight lines or foraging areas) if levels of disturbance can be shown to impair their ability to survive, to breed or reproduce, to rear or nurture their young, to hibernate or migrate or to affect significantly local distribution or abundance;

To intentionally or recklessly disturb a bat, whilst it is occupying a place of shelter or protection; To intentionally or recklessly obstruct access to any place used by a bat for shelter or protection; and To be in possession or control of a bat alive or dead (or any part of a bat or anything derived from a bat, although bat droppings are generally considered to be acceptable), or to transport a bat, to sell or exchange a bat or to offer to sell or exchange a bat taken from the wild."

### **Breeding Birds**

Breeding Birds are protected under the Wildlife and Countryside Act which make it an offence to: intentionally kill, injure or take any wild bird or take, damage or destroy the nest of any wild bird whilst it is in use or being built;

intentionally take or destroy the egg of any wild bird;

have in one's possession or control any wild bird, dead or alive, or any part of a wild bird (including eggs), which has been taken in contravention of the Act or the Protection of Birds Act 1954;

intentionally or recklessly disturb any wild bird listed on Schedule 1 while it is nest building, or at a nest containing eggs or young, or disturb the dependent young of such a bird.

### Local Policy

The site lies within Crewe by Farndon and is covered by Chester West and Cheshire and is subject to the Cheshire West and Chester Local Plan Part 1 (adopted 29 January 2015). Policy ENV 4 deals with Biodiversity and Geological Conservation and is the policy of relevance and has been taken into account when preparing this report.



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# **Appendix 5**

# Appendix 5: Photographs





Photograph 1: Ventilation gap along the ridgeline on eastern elevation of B5 with bats recorded emerging

Photograph 2: Gap under tile on eastern elevation with a single bat recorded re-entering building B5



Photograph 3: Gap under door on B5 with bats recorded emerging and re-entering