

Ecological Impact Assessment

**Ye Olde Leathern Bottel,
Barkham Road, Wokingham**

October 2024

Ecology | Green Space | Community | GIS

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SUMMARY

Purpose of the Report	This Report has been produced by Ethos Environmental Planning on behalf of Monopro Ltd. It provides an assessment of the likely ecological effects associated with the proposed renovation and construction of B&B rooms attached to the existing pub on site.
Description of the scheme	The development proposals for the site include plans for a single-storey pub extension and the construction of a barn building with further B&B rooms. Additional re-landscaping and alterations to the car park are also proposed.
Methodology	A desk study, UK Habitat Classification survey and bat structures inspection were undertaken for the site in May 2024, with further bat ground level assessment of trees and dusk bat emergence surveys occurring in May and June 2024.
Baseline Ecological Conditions	• The site comprises developed land; sealed surface, modified grassland, other neutral grassland, introduced shrub, hedgerows and mature trees. • The site is located adjacent to Priority Habitat woodland. • It is assessed likely that hedgehog, bats, birds and reptiles have the potential to utilise the site in some capacity. • The hedgerows and trees are assessed as suitable habitat for a range of protected species, namely roosting bats, nesting birds and stag beetles. • No bat emergences were recorded from the surveys.
Key impacts and mitigation	The development layout has been designed to avoid impacts on biodiversity through the retention, protection and enhancement of the most valuable ecological features, namely the boundary hedgerows and trees across the site. Mitigation measures are described to ensure compliance with protected species legislation for hedgehog, badger, bats, birds, reptiles and invertebrates, details of which will be provided within a CEMP.
Conclusion	Assuming the implementation of effective mitigation measures, as set out in this report, no significant adverse ecological effects are predicted. The proposed development is therefore in accordance with relevant national and local planning policies in relation to nature conservation and relevant wildlife legislation.

1 INTRODUCTION

- 1.1 This Ecological Impact Assessment (EclA) report has been prepared by Ethos Environmental Planning (Ethos) on behalf of Monopro Ltd. The report was written by Ellie Shearn BSc (Hons), Ecologist, and reviewed by Stephanie Green, MSc BSc MCIEEM. The details and experience of the authors and field survey team are provided in Section 3.13.
- 1.2 The report provides the results of an EclA in relation to the proposed development of Land at Limmerhill Road, Pub Rooms at Ye Old Leathern Bottle (Central Grid Reference SU 79585 67901), hereafter referred to as 'the site' as shown in Figure 1. The site is located in the town of Wokingham, Berkshire.
- 1.3 The site is 0.62 hectares and includes developed land, sealed surface, modified grassland, other neutral grassland, introduced shrub, hedgerows and mature trees.

Figure 1 Site Location



- 1.4 The site is proposed for development of a single storey extension to the existing Ye Old Leathern Pub building (circa. 4-6 rooms) and the construction of a barn building with (circa. 8 rooms) as a bed and breakfast accommodation, alongside alterations to existing car parking facilities and landscaping.

- 1.5 This report has been produced following the approach set out in CIEEM's 'Guidelines for Ecological Report Writing' (CIEEM, 2017).

2 POLICY AND LEGISLATION

2.1 National Policy

- 2.1.1 The **National Planning Policy Framework (NPPF)** sets out national planning policy, including policies of relevance to conserving and enhancing the natural environment. Policies of relevance to the proposed development (parts of paragraphs 180 and 185) have been summarised below:

Para 180: When determining planning applications, local planning authorities should apply the following principles, notably:

- a) protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils (in a manner commensurate with their statutory status or identified quality in the development plan).*
- d) minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures.*

Para 185: To protect and enhance biodiversity and geodiversity, plans should:

- b) promote the conservation, restoration and enhancement of priority habitats, ecological networks and the protection and recovery of priority species; and identify and pursue opportunities for securing measurable net gains for biodiversity.*

Para 186: if significant harm to biodiversity resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, then planning permission should be refused.

Para 191: c) limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation.

2.2 Local Policy

- 2.2.1 The relevant policies have been taken from The Wokingham Borough Council's Core Strategy (adopted 2010):

CP7 – Biodiversity

- 2.2.2 Sites designated as of importance for nature conservation at an international or national level will be conserved and enhanced and inappropriate development will be resisted. The degree of protection given will be appropriate to the status of the site in terms of its international or national importance.

Development:

A) Which may harm county designated sites (Local Wildlife Sites in Berkshire), whether directly or indirectly, or

B) Which may harm habitats or, species of principle importance in England for nature conservation, veteran trees or features of the landscape that are of major importance for wild flora and fauna (including wildlife and river corridors), whether directly or indirectly, or

C) That compromises the implementation of the national, regional, county and local biodiversity action plans will be only permitted if it has been clearly demonstrated that the need for the proposal outweighs the need to safeguard the nature conservation importance, that no alternative site that would result in less or no harm is available which will meet the need, and:

i) Mitigation measures can be put in place to prevent damaging impacts; or

ii) Appropriate compensation measures to offset the scale and kind of losses are provided.

2.3 Relevant Legislation

2.3.1 The following pieces of legislation have been considered within this assessment with an explanation of their relevance provided.

Table 1 Summary of legislation

Legislation	Relevance
The Habitats Directive (together with the Birds Directive) forms the cornerstone of Europe's nature conservation policy. It is built around two pillars: the Natura 2000 network of protected sites and the strict system of species protection. All in all, the Directive protects over 1,000 animals and plant species and over 200 "habitat types" (e.g. special types of forests, meadows, wetlands, etc.), which are of European importance. The Habitats Directive and parts of the Birds Directive are transposed into legislation by The Conservation of Species and Habitat Regulations 2017 (as amended) .	Presence of foraging and commuting bats on site. Presence of structures and trees suitable to support bats.
Wildlife and Countryside Act 1981 (as amended, including by the Countryside and Rights of Way Act 2000), which provides legislative protection for certain species. The Act also prohibits the spread of invasive plant species, as well as providing the mechanism for the designation and protection of Sites of Special Scientific Interest;	Potential presence of breeding birds on site and reptiles confirmed nearby.
The Natural Environment and Rural Communities Act 2006 (the NERC act) places a duty on all public authorities, including local planning authorities, to consider biodiversity in their work. Local planning authorities are to ensure that there is no net loss of biodiversity on a site, no net loss in habitat connectivity and aims to enhance biodiversity.	Potential presence of hedgehog on site. Enhancements for biodiversity.

3 METHODOLOGY

3.1 Background Data Search

- 3.1.1 A background data search was received from Thames Valley Environmental Records Centre (TVERC) on 22nd April 2024. The search area included records of non-statutory designated sites and protected and notable species within 2km of the proposed development site.
- 3.1.2 An additional search for statutory designated sites within 2km of the development site and granted European Protected Species (EPS) licences within 1km of the site boundary was undertaken using publicly available information (DEFRA Magic map).

3.2 UK Habitat Classification Survey

- 3.2.1 A UKHab survey was undertaken on 29th May 2024. The survey incorporated detailed assessment of the land within the development boundary, including a description and mapping of all key features and habitat types. The survey was carried out to identify the range of habitats within the site and the predominant and notable species of flora. This survey was informed by the UKHab classification Version 2 (UKHab Ltd., 2023).

3.3 NERC S. 41 Mammals

- 3.3.1 The survey included an assessment of the habitats on site for their potential to support NERC Section 41 species such as hedgehog (*Erinaceus europaeus*), polecat (*Mustela putorius*), harvest mouse (*Micromys minutus*) and brown hare (*Lepus europaeus*). This included a search for nests, runs, latrines, paw prints, and live specimens.

3.4 Badger

- 3.4.1 The survey for badger (*Meles meles*) included a search of the development site and surrounding habitats for any evidence of badgers, including setts, foraging signs (snuffle holes), runs and latrines.

3.5 Hazel Dormouse

- 3.5.1 The survey included an assessment of the potential of the site to support hazel dormouse (*Muscardinus avellanarius*), focusing on the connectivity and suitability of the habitat on site.

3.6 Riparian Mammals

- 3.6.1 The survey included an assessment of the site to support riparian mammals such as otter (*Lutra lutra*) and water vole (*Arvicola amphibius*). This focused on the connectivity of the site with riparian habitat in the wider environment.

3.7 Bats

- 3.7.1 The methodology for the bat survey has been informed by the Bat Conservation Trust *Bat Surveys Good Practice Guidelines* (Collins, 2016).
- 3.7.2 The habitats on site were assessed for their suitability to support foraging and commuting bats. This assessment was also contextualized through examination of suitable habitat and features in the wider landscape and possible flight-lines across the proposed site following natural linear features such as hedgerows.

Preliminary roost inspection

- 3.7.3 Physical external and internal inspection of the buildings were undertaken on 2nd May (external) and 29th May 2024 (internal) using the equipment described below to assist the inspection. Approximately 4 hours of search effort were expended.
- 3.7.4 The physical search includes a search for live animals and a search for other signs that give an indication of past or present occupancy as outlined below. In the case of bats, typical indicators include droppings (which are characteristic and can often be speciated or at least be indicative of species type), signs of staining, urine splashing, characteristic odours, and accumulations of discarded prey remains.
- 3.7.5 Where required, the search included an endoscope search of features with potential for bats. Equipment included a Rigid micro-CA-350 Inspection Camera with micro 6mm extension, camera, laser measure, and binoculars.

Ground level assessment of trees

- 3.7.6 The methodology draws upon guidance within Collins (2023) and the Bat Tree Habitat Key (2018). The surveys were undertaken using binoculars and a high-powered torch to view features from the ground. Details on the potential roosting features were recorded as well as information to identify the specific trees.
- 3.7.7 Potential roosting features on trees were identified as any feature within a tree that could provide shelter for a roosting bat. These features result from the following three mechanisms:
- Disease and Decay;
 - Damage; and,
 - Associations.
- 3.7.8 Tree with no potential roost features were assessed as having 'negligible' potential for roosting bats and no further surveys were carried out. Potential features have been categorised following the guidelines set out in table 6.2 (extract below):

Table 6.2. Guidelines for categorising the potential suitability of PRFs on a proposed development site for bats, to be applied using professional judgement.

Suitability	Description
PRF-I	PRF is only suitable for individual bats or very small numbers of bats either due to size or lack of suitable surrounding habitats.
PRF-M	PRF is suitable for multiple bats and may therefore be used by a maternity colony.

- 3.7.9 Trees with features suitable for roosting bats were assessed as having ‘PRF-I’ or ‘PRF-M’ suitability for bats. Trees with ‘PRF-I’ potential for roosting bats were not subject to additional survey, in line with BCT survey guidelines. Justification is provided, in the form of a detailed description and photographic evidence, to demonstrate how the classification of ‘PRF-I potential’ had been made. Recommendations will be made as necessary if any trees with low potential are to be impacted.
- 3.7.10 Trees assessed as containing PRF-M and considered likely to be impacted by the development (e.g., directly through removal or indirectly from light spill) were subject to further Potential Roost Features (PRF) inspections or Aerial Inspection Surveys as detailed below.

Dusk emergence survey

- 3.7.11 Two dusk emergence surveys were undertaken on 29th May and 25th June 2024.
- 3.7.12 The emergence surveys commenced 15 minutes before sunset and finished approximately 1.5 – 2 hours after sunset.
- 3.7.13 Five surveyors were positioned to view all aspects of the structure where potential roost features have been observed.
- 3.7.14 Echo Meter Touch (EMT) bat detectors were used for the survey. All calls recorded were analysed using the Echo Meter Touch app software. All calls recorded were cross referenced to a call reference collection library of known bat species to confirm species presence.
- 3.7.15 Thermal imaging cameras were used as a survey aids on both surveys, but not in all positions, as demonstrated in Appendix 2. For these surveys, thermal imaging was used as a ‘survey aid’ in accordance with the Thermal Imaging Bat Survey Guidelines (Fawcett Williams, 2021).
- 3.7.16 Flir T540 thermal imaging cameras with were used and videos were recorded as non-radiometric files. This camera has a thermal resolution of 464 × 348 with a 42° lens which allows for the detection of bats up to a distance of 51m. The video files were transferred into standard video analysis software for later analysis.

- 3.7.17 A Flir E54 Thermal Camera was used and videos were recorded as non-radiometric files. This camera has a thermal resolution of 320 x 240 Pixels with a 24° lens which allows for the detection of bats up to a distance of 62m. The video files were transferred into standard video analysis software for later analysis.

3.8 Birds

- 3.8.1 The bird survey included an assessment of the habitats on site for their potential to support protected and notable species of bird as well as their potential to support breeding birds.

3.9 Reptiles

- 3.9.1 The potential presence of reptiles on site was assessed considering the habitats present (availability of refugia and basking areas) and suitability of surrounding environment. Where possible, attempts to confirm reptile presence on site were made following *Froglife Advice Sheet 10 – Surveying for Reptiles* through direct observation in reptile “hotspots” and checking of any existing refugia.

3.10 Amphibians

- 3.10.1 Surveys for great crested newt were informed by the *Great Crested Newt Conservation Handbook*, Froglife 2001.
- 3.10.2 The site was examined for suitable waterbodies and for breeding terrestrial habitat. Terrestrial habitats providing sufficiently structured vegetation in which amphibians may forage or hibernate over winter were also surveyed for.
- 3.10.3 In addition to the on-site assessment, *Great Crested Newt Mitigation Guidelines* (English Nature, 2001) recommend that a desktop analysis of ponds within 500m of the site be undertaken, to identify any potential breeding ponds which may require further survey. Ponds within 500m of the site were mapped on GIS with an OS OpenData base map at 1:10,000 resolution.

3.11 Invertebrates

- 3.11.1 Due to the many invertebrate taxonomic groups that exist, the often-large differences in invertebrate diversity between habitats and the many survey techniques available, invertebrate surveys are highly specific to individual sites. Therefore, an assessment of the potential site for invertebrates was undertaken, including the need for targeted surveys.

3.12 Limitations

- 3.12.1 No significant limitations to this assessment have been identified, however for safety reasons some of the loft voids were not fully access given the current high volume

storage use of the space (V3) and the ventilation system in place within the vent above the kitchen (V4). Visual access was granted to these areas and given the inspection and the further surveys that were carried out, it has been concluded that this was not a significant limitation to the assessment.

3.13 Personnel

3.13.1 The qualifications and experience of the surveyors on site and the report authors have been detailed below in Table 2.

Table 2 Survey team qualifications

Ecologist	Position	Qualifications/ Licences	Experience	Role in Assessment
Sarah Forsyth	Principal Ecologist	MSc DIC BSc (Hons), ACIEEM Class 1 GCN Licence Tree Climbing and Rescue, City and Guilds NPTC Level 2 Award (206 and 306)	Sarah has a broad range of experience in ecological management and assessment, both in consultancy and the public sector. Sarah is responsible for leading on ecological assessments and overseeing projects through various stages of planning and implementation.	Bat surveyor
Steph Green	Principal Ecologist	MSc BSc (Hons), MCIEEM Class 1 GCN Licence Class 1 Hazel Dormouse Licence	Steph has over ten years' experience in ecological field survey and consultancy. Steph is responsible for leading and undertaking comprehensive ecological impact assessments, protected species surveys and is a licensed GCN and dormouse worker, as well as a Full Member of CIEEM.	Bat surveyor, report checker, UKHab surveyor
Martin Smith	Senior BNG Consultant	BSc (Hons), Grad CIEEM Class 2 Bat Licence (NE) Class 1 dormouse licence (NE) Class 1 GCN Licence	Martin's focus at Ethos is biodiversity restoration and enhancement. This includes project design, providing advice to clients on BNG, and having a good understanding of BNG metric, principles, and associated guidance. Martin specialises in providing management plans for developments and biodiversity offsetting sites and has worked on numerous project which have delivered a range of habitats. Martin manages a variety of projects and has delivered of mid-	Bat surveyor

Ecologist	Position	Qualifications/ Licences	Experience	Role in Assessment
			scale development projects and is a field surveyor at Ethos with over six years of field work experience	
George Clutterbuck	Senior Environmental Analyst	Level 2 Certificate and Diploma in Work-based Environmental Conservation	George has over eight years' experience in ecological field survey and consultancy. George's expertise lies in Biodiversity Net Gain, for which he is in a leading role at Ethos. Much of George's time is spent advising clients regarding BNG to achieve the best outcomes for both the client and the environment.	Bat surveyor
Holly Atkinson	GIS Officer	MSc, BSc (Hons)	Holly has worked for two ecological consultancies in the Southwest and currently supports the Ethos team by producing GIS maps for a wide range of projects. Her GIS skills have been enhanced through use of the software both during her Master's and while carrying out ecological research abroad. She also has experience in the field performing ecological surveys, primarily of bats.	Bat surveyor
Arthur Kettley	Ecological Assistant	Level 3 Diploma	Arthur assists with bat surveying and GIS. He also has experience with different ecological field surveys, including protected species surveys and habitat assessments.	Bat surveyor
Emily Preston	Senior Environmental Consultant	BSc (Hons)	Emily has five years' experience in environmental consultancy and specialises in consultation and engagement. Emily assists with ecological field surveys included protected species surveys, mainly bats.	Bat surveyor
Kate Downes	Ecologist	MSc, BSc (Hons), ACIEEM	Kate has over two years' experience in consultancy with a further eight years in conservation fieldwork and nature education, with a special interest and relevant field experience in ornithology. Kate is responsible for managing projects and undertaking habitat and protected species surveys.	Bat surveyor, UKHab surveyor
Ellie Shearn	Ecologist	BSc (Hons), Qualifying CIEEM	Ellie is an ecologist at Ethos with three years' relevant experience in ecological field survey. Ellie undertakes a range of protected	Report author, bats structures inspector

Ecologist	Position	Qualifications/ Licences	Experience	Role in Assessment
			species surveys including bat surveys and assessment. Ellie managed the bat call data analysis within Ethos.	
Katie Munday	Ecologist	MSc, BSc (Hons), Qualifying CIEEM	Katie has two years' experience in ecological consultancy. She undertakes a variety of surveys, including protected species surveys and habitat assessments, and she assists with bat call data analysis.	Bat structures inspector

4 BASELINE ECOLOGICAL CONDITIONS

4.1 Previous Surveys on Adjacent Site

4.1.1 Ethos Environmental Planning has been commissioned to undertake a range of ecological surveys for the adjacent field, located directly to the north of the site in relation to a separate planning application. The following outlines the results of these surveys:

- The surveys identified a range of bat species utilising the site and commuting along the hedgerows and boundaries.
- Moderate numbers of slow worm were identified.
- Stag beetles were recorded on site.
- The boundary hedgerows and trees were assessed as suitable habitat for invertebrates and birds.

4.2 Designated Sites

Statutory designated sites

- 4.2.1 Holt Copse and Joel Park is a Local Nature Reserve (LNR) located 1.47km from northeast of the site; it is also an ancient woodland. This site is considered to be sufficiently distant with no habitat links to the site and is therefore not considered further in this assessment.
- 4.2.2 Three parcels of ancient woodland are present within 1km of the site, as shown in Figure 2. The ancient woodland at Fox Hill (which is also linked to Round Hill) is located over 500m to the northwest of the site. There is also an ancient woodland at Bottle Copse located 55 metres to the south of the site. Due to the proximity of the Bottle Copse woodland to the site, there could be potential impacts from the proposed development, and it will be considered further within this assessment only in relation to Bottle Copse. The other woodlands are not considered to be sufficiently linked to be impacted. Ancient Woodland is of **County importance** for nature conservation.

Figure 2 Statutory wildlife sites within a 2km radius



Non-statutory designated sites

- 4.2.3 One Local Wildlife Site (LWS) is present within 1km of the site (Figure 3), located 20m south of the site on the other side of Barkham Road. Bottle Copse is dominated by broadleaved woodland, part of which is listed as ancient woodland; the rest of the site comprises bracken, bramble scrub and a pocket of grassland as well as mesic and wet communities within the woodland. Impacts on the LWS have been assessed under its designation as an ancient woodland, above.
- 4.2.4 One Proposed LWS is present 1.2km north of the site Emm Brook, Woosehill. The site includes a brook that passes through parkland comprising woodland, riparian scrub and other stream vegetation, given the distance from the site to this parcel, it has been determined that there are unlikely to be any impacts as the parcel is outside the zone of influence of the site, therefore it will not be considered further in the assessment.

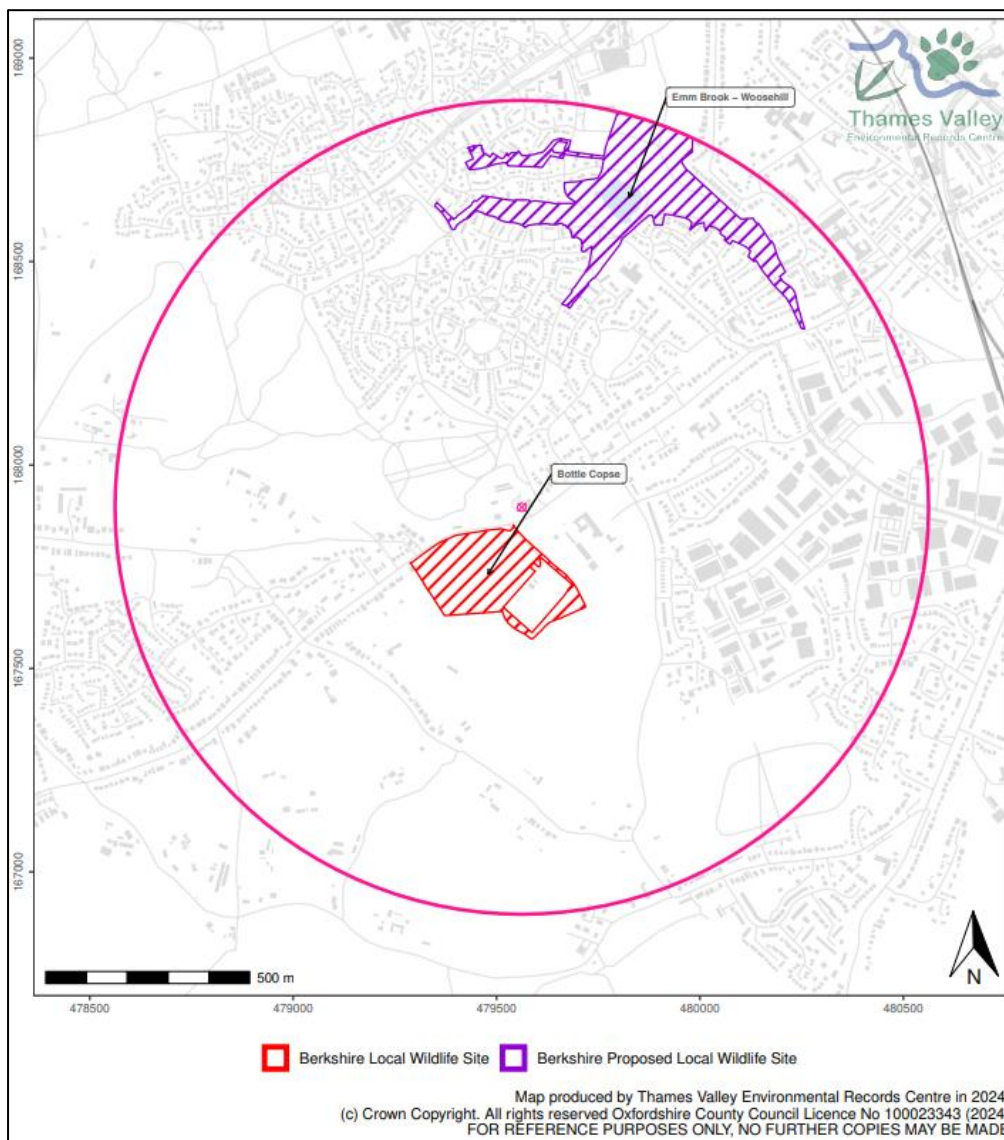


Figure 3 Non-statutory designated sites

Priority Habitats

- 4.2.5 There are no priority habitats on the site, but deciduous woodland habitats (also ancient woodland) are present within close proximity to the site (see Figure 4). The priority deciduous woodland parcel located closest to the site, Bottle Copse, has been assessed to be within the zone of influence and therefore will be assessed further. The parcel has been assessed to be of **Local** importance for nature conservation.
- 4.2.6 All other parcels of priority habitat within proximity to the site have been assessed to be outside of the zone of influence of the proposed development, and therefore are not considered further within the assessment.

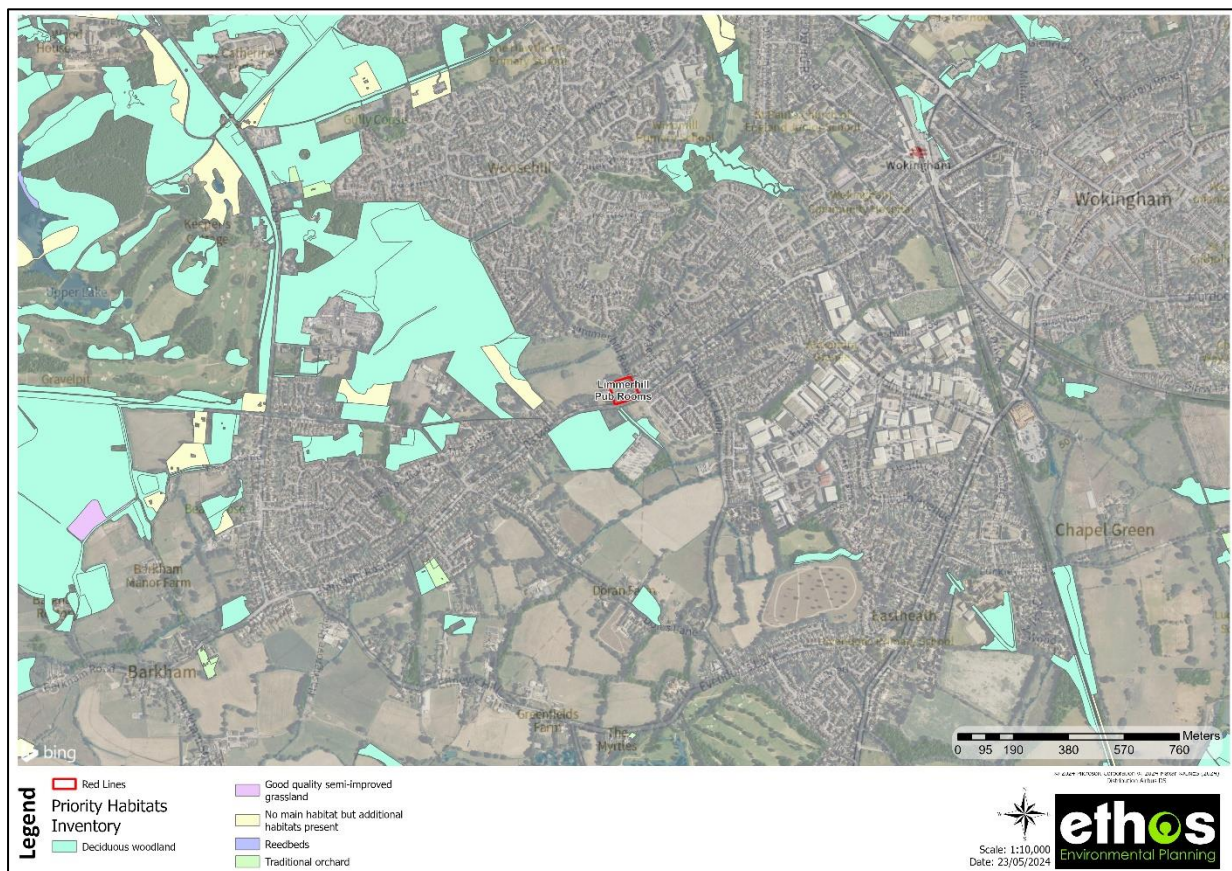


Figure 4 Priority habitats adjacent to the site

4.3 Habitats

Site overview and context

- 4.3.1 The site is dominated by developed land, sealed surface with an old and modern extended pub building, modified grassland, other neutral grassland, introduced shrub and mature individual trees. The site is located adjacent to Barkham Road.
- 4.3.2 The context of the site includes the suburban residential and commercial areas of Wokingham with areas of open fields, woodland and networks of hedgerows.

UKHab Survey

4.3.3 The detailed habitat information and photos using the UK Habitat classifications are included below in Figure 5. Habitats present comprise:

- Modified grassland
- Other neutral grassland
- Ruderal/ephemeral
- Introduced shrub
- Developed land, sealed surface
- Individual urban trees
- Native hedgerow with trees
- Ornamental non-native hedgerow



Figure 5 UKHab survey

Modified grassland (A1)

4.3.4 An area of the site comprises short sward modified grassland (Photos 1 and 2) that is dominated by Yorkshire fog (*Holcus lanatus*) and white clover (*Trifolium repens*) with perennial ryegrass (*Lolium perenne*), common daisy (*Bellis perennis*) dandelion (*Taxacum spp*), plantain (*Plantago spp*), creeping thistle (*Cirsium arvense*), annual meadow grass (*Poa annua*), self-heal (*Prunella vulgaris*), cranesbill (*Geranium spp*) and creeping buttercup (*Ranunculus repens*).

- 4.3.5 The modified grassland is not considered to be of any significant ecological importance and is only considered further in this assessment in relation to protected species potential and biodiversity enhancement.



Photo 1 Modified grassland



Photo 2 Modified grassland

Other neutral grassland (A2)

- 4.3.6 A small section of the grassland on site has been left to grow and has been unmanaged within the modified grassland section (Photo 3). The following species were recorded in this area: annual meadow grass, white clover, Yorkshire fog, cut leaved cranesbill (*Geranium dissectum*), teasel (*Dipsacus fullonum*), hawks' bit (*Leontodon spp*), common forget-me-not (*Myosotis arvensis*), yarrow (*Achillea millefolium*), nigella (*Nigella spp*), oak saplings (*Quercus spp*), bramble (*Rubus fruticosas*) and self-heal.
- 4.3.7 The other neutral grassland is not considered to be of any significant ecological importance as the parcel is small in size, within the modified grassland and common and widespread in the local area.
- 4.3.8 This parcel is only considered further in this assessment in relation to protected species potential and biodiversity enhancement.



Photo 3 Other neutral grassland

Ruderal/ephemeral (A3)

- 4.3.9 The verge adjacent to the car park along the northern boundary of the site comprises ruderal vegetation with a close-boarded fence present (Photos 4 and 5). The species present within this area include bramble, cleavers (*Galium aparine*), creeping buttercup, common hogweed (*Heracleum sphondylium*), white clover, common nettle (*Urtica dioica*), curly dock (*Rumex crispus*), Yorkshire fog, broad leaved dock (*Rumex obtusifolius*) and sycamore (*Acer pseudoplatanus*) saplings.
- 4.3.10 The ruderal vegetation is not considered to be of any significant ecological importance and is only considered further in this assessment in relation to protected species potential.



Photo 4 Ruderal vegetation



Photo 5 Ruderal vegetation

Introduced shrub (A5)

- 4.3.11 Areas of the site, predominantly around the roads and paths, contain ornamental and introduced shrubs including laurel (*Laurus spp*), privet (*Ligustrum spp*), cotoneaster (*Cotoneaster spp*) and various ornamental sycamore (*Acer pseudoplatanus*) with other non-native species present (see Photos 6 – 9).
- 4.3.12 The introduced shrub is not considered to be of any significant ecological importance and is only considered further in this assessment in relation to protected species potential.



Photo 6 Ornamental shrub



Photo 7 Ornamental shrub



Photo 8 Ornamental shrub



Photo 9 Ornamental shrub

Individual trees

- 4.3.13 There are several mature trees located in the centre of the site and immediately adjacent to the northern boundary of the site, as shown in Photos 10 to 13 and Figure 6. The trees present on site include oak, sycamore, ash (*Fraxius excelsior*), cherry (*Prunus avium*), yew (*Taxus baccata*), maple (*Acer spp*) and London plane (*Platanus hispanica*).
- 4.3.14 One line of trees is present on site (Photo 10), located along the access road into the car park. The line of trees contains four mature cherry trees, one ash and one yew.

- 4.3.15 Several of the trees are mature and will provide ecological benefits to the site and some are small and provide less valuable habitat for protected and notable species.
- 4.3.16 It is noted that as per Figure 6 below, trees T1 and T2 are no longer present on site and have been removed.
- 4.3.17 T3 has been classed as a veteran tree as per the Woodland Trust Ancient Tree Inventory.
- 4.3.18 The trees will be discussed in Section 4.7 in relation to bat roost potential. The individual trees on site are not habitats of principal importance, are not assessed to be of particular importance for nature conservation and therefore will not be considered further in this assessment.

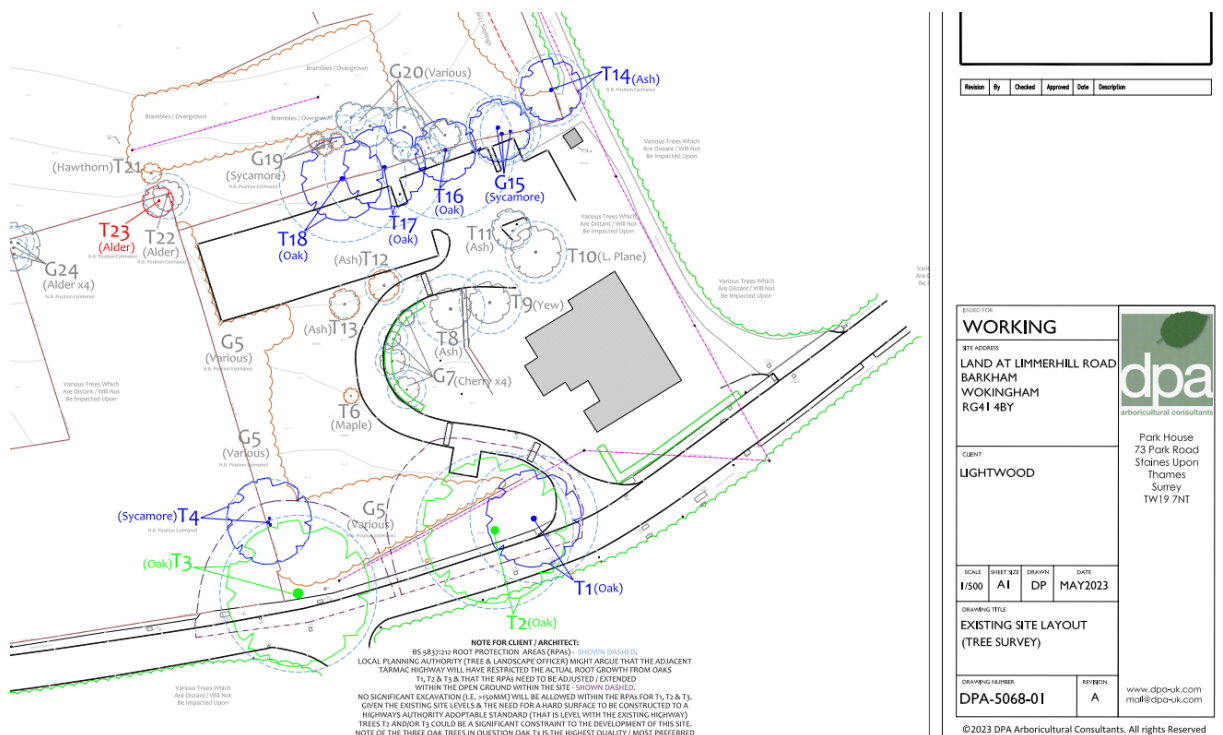


Figure 6 Tree survey (2023, dpa)



Photo 10 Trees on site



Photo 11 Trees on site



Photo 12 Trees on site



Photo 13 Trees located just off the north site boundary

Native hedgerow with trees (H3)

- 4.3.19 The eastern boundary of the site comprises a native hedgerow with trees with mature sycamore, hazel (*Corylus avellana*), bramble and cypress (*Cupressus sempervirens*). The hedgerow has an understorey of bramble with common nettle.
- 4.3.20 All native hedgerows are habitats of principal importance in England and therefore the eastern boundary hedgerow is assessed to be of **Local importance** for nature conservation. Impacts on the hedgerow will be considered further within this assessment.



Photo 14 Native hedgerow with trees



Photo 15 Native hedgerow with trees

Hedgerow – ornamental non-native (H1, H2)

- 4.3.21 Two ornamental hedgerows are located on site, along the west and southern site boundaries. The western hedgerow contains mainly cherry laurel (*Prunus laurocerasus*), with sycamore, English oak (*Quercus robur*), hawthorn (*Crateagus monogyna*), cotoneaster spp (*Cotoneaster spp*), bramble, hazel and field maple (*Acer campestre*).
- 4.3.22 The southern boundary hedgerow contains mostly cherry laurel with silver birch (*Betula pendula*), hazel, hawthorn, bay laurel (*Laurus nobilis*) and field maple.
- 4.3.23 Ornamental hedgerows are not habitats of principal importance and therefore will only be considered further in relation to protected species potential.



Photo 16 Western hedgerow



Photo 17 Southern hedgerow

Developed land/sealed surface (A4)

- 4.3.24 The site includes areas of developed land, sealed surface in the form of a concrete driveway and car parking area, a patio and one large pub structure.

4.3.25 This habitat has negligible value for wildlife and therefore will not be considered further within this assessment.



Photo 18 Developed land, sealed surface



Photo 19 Developed land, sealed surface



Photo 20 Developed land, sealed surface



Photo 21 Developed land, sealed surface

4.4 NERC S. 41 Mammals

4.4.1 There were twenty records of hedgehog returned in the data search, from 2010 to 2019. The closest record located 300m north of the site.

4.4.2 The site comprises developed land, sealed with short sward grassland. Overall, the site provides negligible-low suitability for NERC S.41 mammals, however it is well-connected to other suitable habitats for hedgehog off-site such as fields and residential gardens, and it is therefore considered likely that this species is present on site. Any hedgehog utilising the site are likely part of a wider local population of **Local importance** for nature conservation.

4.4.3 Overall, the site has negligible potential for brown hare, polecat and harvest mouse due to a lack of suitable habitat. Therefore, these species have been assessed to be likely absent from the site and will not be considered further in this assessment.

4.5



4.6 Hazel Dormouse

- 4.6.1 The background data search returned no records of hazel dormouse within 2km of the site.
- 4.6.2 No signs of dormouse were recorded during the targeted surveys undertaken throughout 2023 on the adjacent site located within the field directly to the north of the site.
- 4.6.3 The site contains ornamental hedgerows on the western and southern boundary, which are largely unsuitable for dormouse as they do not contain the variety of species known to be an important food source for dormouse. The hedgerow on the eastern boundary and the northern line of trees contains some suitable species to support dormouse.
- 4.6.4 The surrounding landscape includes extensive areas of woodland to the north and south of the site. There is an extensive network of hedgerows which provide ecological connectivity for the species to disperse throughout the wider environment.
- 4.6.5 Due to the lack of desk study records of dormouse and lack of evidence of dormouse identified during the 2023 surveys on the adjacent site, dormouse are assessed to be likely absent and are not considered further within this assessment.

4.7 Riparian Mammals

- 4.7.1 The background data search returned no records of riparian mammals within 2km of the site.

- 4.7.2 There are no riparian habitats on the site and therefore, no suitable habitat for otter or water vole. The ditch located in the middle of the fields with the hedgerow running east to west, located directly to the north of the site on the adjacent site provides limited suitable habitat for riparian mammals. The ditch could be used on occasion for wide-ranging species such as otter to move through the landscape. The woodland and field network located on the southern side of Barkham Road (Bottle Copse) close to the site also contains a network of ditches and waterways that could be used on occasion for wide-ranging species such as otter to move through the landscape.
- 4.7.3 No signs of otter or water vole were recorded on site during the surveys.
- 4.7.4 Overall, despite the presence of some suitable habitat adjacent to the site, it was considered that the habitat on the proposed development site provides negligible habitat for otters. Therefore, otter will not be considered further within this assessment.
- 4.7.5 Due to the lack of suitable habitat for water vole on or adjacent to the site, lack of evidence of species presence and lack of desk study records, water vole are considered likely absent from the site and are not considered further in this assessment.

4.8 Bats

Data search

- 4.8.1 198 bat records were returned from the background data search, including: brown long-eared (*Plecotus auritus*), common pipistrelle (*Pipistrellus pipistrellus*), Leisler's bat (*Nyctalus leisleri*), Nathusius's bat (*Pipistrellus nathusii*), noctule (*Nyctalus noctula*), unknown Myotis (*Myotis spp*), unknown pipistrelle (*Pipistrellus spp*), serotine (*Eptesicus serotinus*), soprano pipistrelle (*Pipistrellus pygmaeus*) and unknown bat. Records were dated 2005 – 2023.
- 4.8.2 There were two granted EPS licence identified within 1km of the site for bats, which related to the destruction of a resting place:
- (2014-2425-EPS-MIT) in relation to brown long-eared bat and common pipistrelle bat, from 2014 to 2015 located 100m west of the site.
 - (2014-964-EPS-MIT) in relation to brown long-eared bat from April 2014 – September 2014, located 100m west of the site.

Habitats

- 4.8.3 The habitats on site consist of developed land; sealed surface with modified and other neutral grassland, introduced shrub, mature trees and hedgerows. These habitats contain some suitable foraging and commuting habitats for bats.
- 4.8.4 The lines of trees and native and ornamental hedgerows around the boundaries of the site provide potential commuting corridors for bats. The artificial lighting within the car

park and around the pub building is likely to act as a deterrent to light-sensitive species foraging or commuting across the site.

- 4.8.5 The site is immediately surrounded by residential properties, woodland and grassland, with associated hedgerows providing a network of commuting features for bats. This connects the site to habitats in the wider area including extensive areas of woodland to the north, which may provide suitable foraging and roosting habitats.

Roosting (Trees)

- 4.8.6 The trees on site were assessed for their bat roosting potential and the following results were recorded.
- 4.8.7 The only trees proposed for removal are G5 and T6 as per the dpa Arboricultural Consultants tree survey (see Photos 22 to 24).
- 4.8.8 T6 was confirmed to have negligible bat roost potential and there were several trees within the G5 introduced shrub section that were assessed. All trees were found to have negligible bat roost potential with generally smaller diameter tree stems and were recorded to be young – middle aged trees.
- 4.8.9 T3 and a mature coniferous tree along the eastern boundary of the site were the only trees assessed to have bat roost potential, both assessed as low;
- 4.8.10 T3 is a mature, potentially veteran oak tree with three potential roost features (PRF's) present and recorded, see Photos 23 - 30. The mature coniferous tree has one potential bat roost feature present at roughly 1m height with areas of lifted bark that have come away from the main stem. No other PRF's were recorded.
- 4.8.11 Both trees are being retained as part of the development proposals and therefore no significant harm will be incurred from the proposed development. Precautionary mitigation measures including tree protections and sensitive lighting will be discussed further in the report.



Photo 22 T6 tree for removal, negligible bat roost potential



Photo 23 Tree within G5 assessed to be negligible



Photo 24 Silver birch trees within G5 assessed to be negligible



Photo 25 T3



Photo 26 T3 PRF



Photo 27 T3 PRF



Photo 28 T3 PRF



Photo 29 Coniferous tree



Photo 30 Coniferous tree PRF

is cold and uninsulated. Minimal cobwebbing is present. No evidence of bats was identified; however, the surveyors could not fully enter the structure for safety reasons given the current ventilation system and storage usage of two of the loft voids.

- 4.8.15 The newer section of the structure contains three loft voids: V2, V3 and V4. V2 (Photo 38) is separated from V3 by a brick wall with exterior walls of breeze block construction. The void is small, approximately 1m high by 4m wide. Rat and mouse droppings are present within the void. Wooden rafters with sarking are present and are ripped in several areas. Light ingress is present from the office underneath, occurring due to a hole in the ceiling and from a wall where cables enter the void.
- 4.8.16 V3 (Photo 39) comprises wooden rafters with sarking that is ripped in several areas. The loft void is dark with no obvious light ingress or access points for bats. Minimal cobwebbing is present. The void is assessed to be suitable for roosting bats. **No evidence of bats** was identified during the structure inspection, with mouse dropping recorded. However, full access to the V3 loft void was not possible for safety reasons given the current high volume storage usage of the space, full access was not possible.
- 4.8.17 V4 (Photo 40) comprises the same structure as V3, however the void was inaccessible due to the presence of the kitchen ventilation system.
- 4.8.18 The cellar (Photo 41) is in active use for storage and is well-lit from artificial lighting. The area contains breezeblock walls and boilers, with no potential access points for bats and **no evidence of bats** recorded during the inspection. As the cellar is light and frequently disturbed, with no access points identified, it has been assessed as unsuitable for bats.
- 4.8.19 Overall, due to the condition of the roof of the older section of the pub and presence of several access points into the loft voids, it has been determined that the structure contains **high potential for roosting bats**. **No evidence of bats** was identified during the structure inspection, although there were limitations to the survey due to the inaccessibility of some areas of the loft voids.



Photo 31 NW elevation

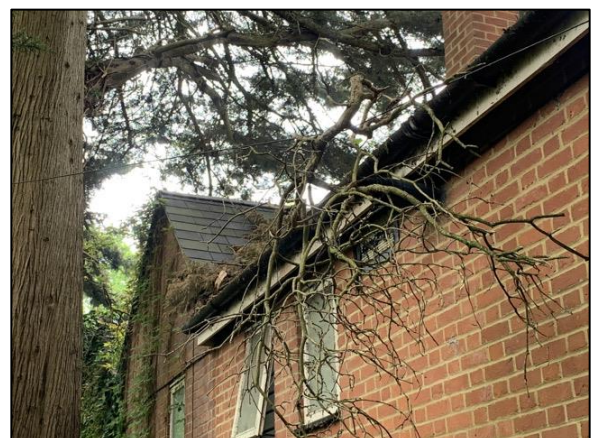


Photo 32 E elevation, newer section



Photo 33 E elevation, older section



Photo 34 S elevation



Photo 35 W elevation, older section



Photo 36 W elevation, newer section



Photo 37 V1



Photo 38 V2



Photo 39 V3



Photo 40 V4



Photo 41 Cellar

Dusk emergence surveys

- 4.8.20 Two dusk emergence surveys have been undertaken on the site on 29th May 2024 and 25th June 2024 with several surveyors and thermal cameras utilised as survey aids. Full details of the emergence surveys are located in Appendix 2.
- 4.8.21 The two dusk emergence surveys undertaken on 29th May and 25th June 2024 **did not identify any bats emerging from the structure**. Minimal bat activity was recorded across the site, consisting of noctule and common pipistrelle bats foraging around the site and the adjacent vegetated site boundaries. It was noted during the emergence surveys that there was significant artificial lighting (See Appendix 2) below the roof of the building, from lighting around the walls of the pub. This therefore reduced the suitability of the building for bats, and it was downgraded from high to **moderate potential for bats**.
- 4.8.22 Overall, the building is assessed to not currently support roosting bats and can be demolished without the requirement for further survey or mitigation for bats.

However, as there are suitable foraging and commuting habitats for bats on site (hedgerows) and low numbers of bats were identified during the surveys, bats are considered further on a precautionary basis.

4.9 Birds

- 4.9.1 There were 1,046 bird records returned in the data search, from 2000 to 2023. Species protected under Schedule 1 of the Wildlife and Countryside Act 1981 and species on the Birds of Conservation Concern (BoCC) Red and Amber lists were identified, as shown in Appendix 3. Common species of bird related to garden and brownfield locations currently on the BoCC green list were also identified within the data search but are not included in the table.
- 4.9.2 The site contains areas of grassland, introduced shrub, trees and hedgerows which provides opportunities for foraging birds. The hedgerows were assessed to be the key feature on site and were assessed to provide suitable breeding as well as foraging habitats for a range of common bird species.
- 4.9.3 No evidence of nesting birds was recorded during the structure's inspection.
- 4.9.4 Overall, the assemblage of birds likely to be present on site is not assessed to be of particular importance for nature conservation. Due to their legal protection under the Wildlife and Countryside Act 1981 whilst nesting, birds are considered further on a precautionary basis during vegetation clearance.

4.10 Reptiles

- 4.10.1 There were 49 records of reptile returned in the data search for grass snake (*Natrix helvetica*), one for common lizard (*Zootoca vivipara*) and 32 records of slow worm (*Anguis fragilis*), all of which are Species of Principal Importance (SPI) under the NERC Act 2006.
- 4.10.2 Previous surveys undertaken on the adjacent fields directly to the north of the site for a separate application identified a 'good' slow worm population present.
- 4.10.3 The site is dominated by developed land; sealed surface and introduced shrub, with small areas of modified and other neutral grassland and scrub. The ruderal vegetation and infrequently managed other neutral grassland have the potential to support low numbers of reptiles, however these areas are small and unlikely to support a significant population of reptiles. Given the small amount of suitable habitat on site and the knowledge of slow worm presence within the field to the north of the site from the previous surveys, reptiles have been considered further on a precautionary basis during construction.

4.11 Amphibians

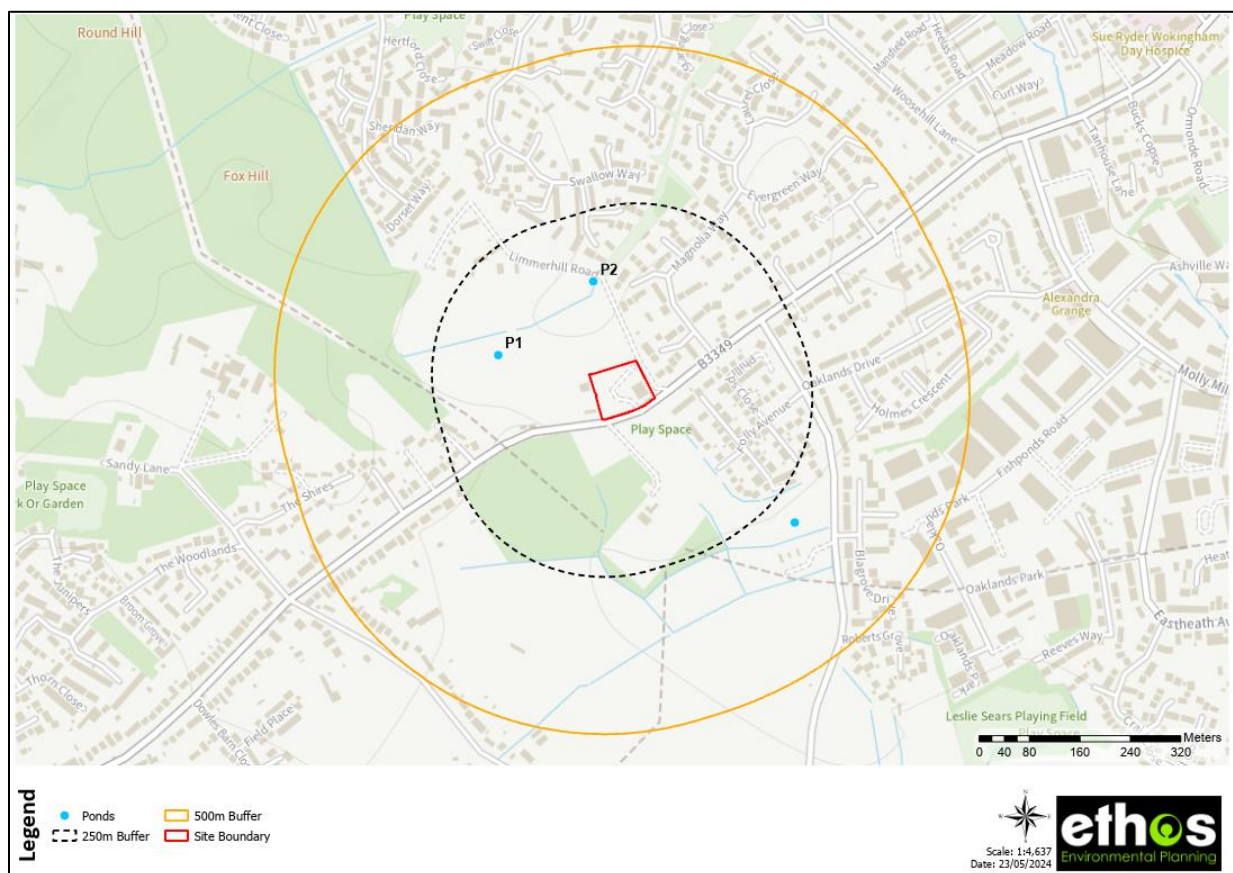
Data search

- 4.11.1 There were three records of amphibians returned in the data search, two records for smooth newt (*Lissotriton vulgaris*) in 2005 and 2019 and one record of great crested newt (GCN) from 2019. The GCN record was located over 450m southwest of the site.
- 4.11.2 No granted EPS licences for great crested newt were identified within 1km of the site boundary.

Habitat assessment

- 4.11.3 The site does not contain any standing water or suitable riparian habitats to provide breeding habitat for amphibians.
- 4.11.4 A search for ponds identified three ponds within 500m of the site, as shown in Figure 5. P1 and P2 are located on the adjacent proposed development site and were subject to eDNA surveys in 2023, which returned a negative result for GCN (For full results, Land West of Limmerhill Road, Wokingham, Ecological Impact Assessment February 2024) see . Therefore, GCN and other amphibians are assessed to be likely absent from the site and are not considered further in this assessment.

Figure 5 Ponds within 500m



4.12 Invertebrates

- 4.12.1 Seventy-nine invertebrate records were returned within the data search. This included the median wasp (*Dolichovespula media*), red-girdled mining bee (*Andrena labiata*), an unknown beetle (*Nephus quadrimaculatus*), 63 records of stag beetle (*Lucanus cervus*), small health (*Coenonympha pamphilus*), wall (*Lasiommata megera*), white admiral (*Limenitis camilla*) and a true fly (*Gymnosoma rotundatum*).
- 4.12.2 The habitats on site are dominated by developed land, sealed surface with short sward modified grassland and introduced shrub, which provide low value habitat for invertebrates. The most valuable habitat for invertebrates on site are assessed to be the mature trees and native hedgerows.
- 4.12.3 Stag beetles were recorded in the field immediately north of the site as well as the road to the east of the site (Ethos, 2024). The site contains habitat suitable for stag beetle such as the hedgerows and deadwood associated.
- 4.12.4 Overall, the site is considered likely to support a notable assemblage of invertebrates of **Local** significance importance for nature conservation, therefore invertebrates are considered further in this assessment.

4.13 Invasive Species

- 4.13.1 No invasive species were identified during the site visits, and it was assessed that invasive species were likely absent from the site.

4.14 Summary

- 4.14.1 The important ecological features of relevance to this assessment and their importance are summarised in Table 3.

Table 3 Summary of important ecological features

Important Ecological Features	Scale of Importance
Bottle Copse Ancient Woodland and LNR	County
Native hedgerow (H3)	Local
Hedgehog	Local
Badger	N/a – Precautionary only
Commuting and foraging bats	N/a- Precautionary only
Breeding birds	N/a- Precautionary only
Reptiles	N/a- Precautionary only
Invertebrates – Stag beetles	Local

5 DESCRIPTION OF THE PROPOSED DEVELOPMENT

- 5.1 The development proposals comprise the development of a single storey extension to the existing Ye Old Leathern Pub building (circa. 4-6 rooms) and the construction of a barn building with (circa. 8 rooms) as a bed and breakfast accommodation with alterations to the existing car parking facilities and landscaping, as shown in Figure 14 below.
- 5.2 The layout of the development has been developed to minimise impacts on ecology by:
- The main development footprint is situated on existing hard standing, modified grassland and introduced shrub, which are not assessed to be important for nature conservation.
 - Retention of the majority of the existing trees and the eastern hedgerow on site.



Figure 8 Development proposals (Stage 2 – Prelim, April 2024, Matthew Allchurch Architects)

6 ASSESSMENT OF IMPACTS AND MITIGATION MEASURES

6.1 Bottle Copse Ancient Woodland / LNR

- 6.1.1 The site is located 55m from Bottle Copse at its closest point, which is an area of ancient woodland and LNR. No direct impacts on the designated site are predicted however indirect impacts could be incurred via the proposed development.
- 6.1.2 Given the proposed development, it has been determined that there will be no additional impacts predicted from residential pressures, the only potential indirect impact will be in relation to any potential lighting and construction pollution i.e, dust deposition and surface water runoff, which can be mitigation with a Construction Environment Management Plan (CEMP).

6.2 Native Hedgerows

Construction impacts

- 6.2.1 In the absence of mitigation, potential impacts could include damage to retained hedgerows during construction as a result of accidental damage, inappropriate storage of materials and impacts of construction pollution or security lighting. To avoid impacts on hedgerows, tree protection fencing will be installed, and pollution prevention controls implemented during the construction period. These measures will be set out within a CEMP, which can be secured by planning condition.
- 6.2.2 Overall, with the implementation of precautionary mitigation during construction **no significant impacts** on hedgerows are predicted as a result of the proposed development.

6.3 Hedgehog

Construction impacts

- 6.3.1 The site has the potential to support hedgehog and in the absence of mitigation, impacts on hedgehog could occur during site clearance, comprising injury or mortality of hedgehog present on site. Good practice measures to avoid impacts on hedgehog comprise appropriate storage of materials to avoid creating refugia, protection of retained hedgehog habitat (hedgerows) and a sensitive construction lighting plan. These measures will be set out within the CEMP, which can be secured through planning condition.

Operational impacts

- 6.3.2 Given the retention of the site's boundary features, the proposed development is not expected to have a significant adverse effect on hedgehogs. To ensure the site remains permeable to hedgehog post-construction, non-permeable fencing (e.g. close-boarded

fencing) will contain suitable holes at the base to ensure hedgehog can continue to commute and forage across the site. The locations of the fencing or hedgehog holes will be marked on the landscape plan and included within an Ecological Enhancement Plan (EEP), which can be secured through planning condition.

- 6.3.3 Overall, with the implementation of suitable mitigation during and post-construction, **no significant impacts** on hedgehog are predicted as a result of the development.

6.4

6.4.1

6.5 Commuting and Foraging Bats

Construction impacts

- 6.5.1 Potential impacts on foraging and commuting bats could occur as a result of insensitive construction lighting. Sensitive construction lighting will be required during construction, which can be set out within the CEMP and secured through planning condition.
- 6.5.2 Protection of native hedgerows (detailed in Section 6.2 above) will be required to ensure foraging and commuting habitat is retained and protected during the construction period.

Operational impacts

- 6.5.3 Bat activity across the site was very low and mainly light-tolerant pipistrelle species were identified. It is recommended that a sensitive lighting plan is produced which demonstrates that the boundaries of the site are not subject to increased lighting levels post-construction, to ensure bats can continue to forage and commute across the boundaries of the site.

6.6 Birds

Construction impacts

- 6.6.1 Vegetation considered suitable for nesting birds which requires removal to facilitate construction, such as scrub, shrub, hedgerows and trees, should be removed outside

of the breeding bird season (March – August inclusive) or be subject to a pre-works check by a Suitably Qualified Ecologist (SQE). The SQE will identify the presence of any nests and set up an exclusion zone until the chicks have fledged.

6.7 Reptiles

Construction impacts

- 6.7.1 As reptiles were recorded on the adjacent field to the north of the site boundary, it has been determined that precautionary reptile mitigation is required during construction to ensure no potentially present individuals are harmed.
- 6.7.2 Details of the mitigation required such as timing of works and phased habitat clearance in required will be detailed in the CEMP. If any individuals are found during construction, they will be relocated to a designated area, safely away from the works, this location will be detailed within the CEMP.

6.8 Invertebrates – Stag Beetles

Construction impacts

- 6.8.1 As stag beetles were recorded in the adjacent area and in the background data search, being a legally protected species, they will require mitigation measures from the proposed development; this will include sensitive working practices, vegetation management and sensitive timings of works. This will be detailed within the CEMP.

Operational impacts

- 6.8.2 The eastern boundary hedgerow will be required to undertake habitat management in line with that required for stag beetles including retaining areas of standing deadwood and beetle loggeries as it is the most optimal habitat on site for stag beetles. The details of these prescriptions and locations will be included within the EEP.

6.9 Summary

- 6.9.1 Table 4 below provides a summary of the important ecological features on site, mitigation required and mechanisms for securing the mitigation delivery as part of the development.

Table 4 Summary of significance of effects and mitigation/compensation

Ecological Feature	Significance of effects	Mitigation/Compensation	Mechanism for securing delivery	Residual Effects
Bottle Copse Ancient Woodland and LNR	County	- Sensitive lighting is required - Construction pollutions mitigation measures	CEMP secured by condition	None
Native hedgerows	Local	- Tree protection fencing - Pollution prevention measures	CEMP secured by condition	None
Hedgehog	Local	- Good practice working measures - Sensitive lighting plan - Retain permeability post-construction	CEMP secured by condition EEP secured by condition	None
Bats	Precautionary	Sensitive lighting during and post-construction	CEMP secured by condition Sensitive lighting plan secured by condition	N/a
Birds	Precautionary	Precautionary mitigation measures	CEMP secured by condition	N/a
Reptiles	Precautionary	Precautionary mitigation measures	CEMP secured by condition	N/a

Ecological Feature	Significance of effects	Mitigation/Compensation	Mechanism for securing delivery	Residual Effects
Invertebrates – Stag beetle	Local	• Sensitive timings of works and vegetation management. • Implementation of enhance invertebrate habitat.	CEMP secured by condition EEP secured by condition	None

7 ENHANCEMENTS

7.1 Enhancements for the site include the increase in areas of tussocky other neutral grassland which should be seeded with an appropriate native wildflower and grass mix. An increase in native hedgerows will provide enhancement across the site.

7.2 No enhancements for protected species are currently proposed, however the following is a list of example enhancements that would provide gains across the site:

- Hedgehog home;
- Integrated bird boxes or nests on the proposed development suitable for a variety of species;
- Integrated bat boxes on the proposed development suitable for crevice dwelling species; and
- Invertebrate home/refugia in the north of the site.
- Stag beetle loggeries within the eastern boundary hedgerow.

8 MONITORING

- 8.1 The mitigation measures set out in Section 6 which will be supervised by an Ecological Clerk of Works (ECoW) will be recorded as a 'site note' by the ECoW, and if required made available to the LPA.
- 8.2 The provision of the ecological enhancements as set out in Section 7 will be subject to an ecological compliance report undertaken by the ECoW.
- 8.3 The habitat on site provided for biodiversity net gain will be monitored for success every five years for 30 years. This will be the responsibility of the management company who will appoint an ecologist to undertake this.

9 CONCLUSIONS

- 9.1 The ecological baseline of the site has been obtained and appropriate mitigation measures have been provided given the development proposals for the site.
- 9.2 The layout of the proposed development ensures retention of the majority of the existing trees on site and retains the native hedgerow along the eastern boundary of the site. The proposals include an increase in other neutral grassland on site and removes ornamental, non-native planting.
- 9.3 Mitigation for designated sites and habitats have been included, namely for the Bottle Copse, trees and the eastern hedgerow.
- 9.4 Mitigation measures for protected species have been included, namely for bats, birds, reptiles, invertebrates and mammals.
- 9.5 The mitigation and enhancement measures described could be secured by way of appropriately worded planning conditions. The proposed development is therefore in accordance with relevant national and local planning policies in relation to nature conservation and relevant wildlife legislation, as set out in Section 2.

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APPENDIX 1 – POTENTIAL ROOST FEATURES

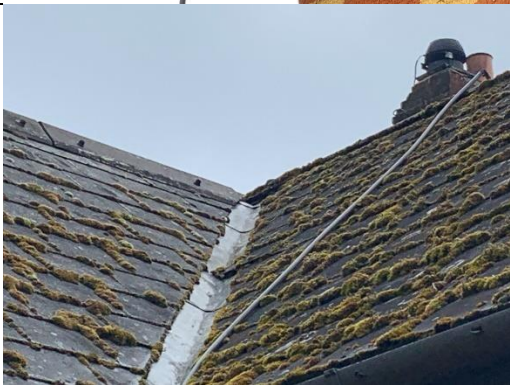
9.6 Below are the images of the PRF's recorded on the structure from the structures inspection.



Figure 9 PRF's and locations

Table 5 PRF's on structure and information

PRF Number	Section of Structure	Notes	Photo
1	New section	Lifted ridge tile	

2	New section	Gaps under eaves. Looks as though they provide access into voids.		
3	New section	Gap under end ridge tile at gable on N elevation.		
4	New section	Gap between barge board and roof at corner of gable.		
5	New section	Overlapping tiles in valley facing NW. can't tell size of gap but they don't look completely flush.		

6	W elevation new section pub	Hole in wooden barge board behind down pipe. Light shone inward, no recess found.	
7	New section	Gaps under tiles within valley.	
8	SW elevation old orange brick	Lots of lifted tiles and lifted lead flashing. Gaps where different roof elevations join and pipes go in.	
9	Old section	Lots of lifted tiles.	

10	Old S elevation	Lots of lifted tiles and lead flashing around chimney	
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APPENDIX 2 – BAT EMERGENCE SURVEY RESULTS

The following section details the results of the bat surveys at the site. Codes used in the description of bat species are as follows:

CP	Common pipistrelle (<i>Pipistrellus pipitrellus</i>)
SP	Soprano pipistrelle (<i>Pipistrellus pygmaeus</i>)
NP	Nathusius's pipistrelle (<i>Pipistrellus nathusii</i>)
PIP	Pipistrelle species (<i>Pipistrellus sp.</i>)
NOC	Noctule bat (<i>Nyctalus noctula</i>)
LEI	Leisler's bat (<i>Nyctalus leisleri</i>)
SER	Serotine bat (<i>Eptesicus serotinus</i>)
MYOBEC	Bechstein's bat (<i>Myotis bechsteinii</i>)
MYODAU	Daubenton's bat (<i>Myotis daubentonii</i>)
MYONATT	Natterer's bat (<i>Myotis nattereri</i>)
WHI/BRA	Whiskered/Brandt's bat (<i>Myotis mystacinus/ brandti</i>)
BLE	Brown long-eared bat (<i>Plecotus auritus</i>)
BARB	Barbastelle bat (<i>Barbastella barbastellus</i>)
LHS	Lesser horseshoe bat (<i>Rhinolophus hipposideros</i>)
GHS	Greater horseshoe bat (<i>Rhinolophus ferrumequinum</i>)

HNS Heard Not Seen, Calls were heard, but the bat was not seen.

A summary of the bat emergence surveys is included below, and the environmental variables recorded during the surveys are shown in Table 6. The location of the surveyors are shown below with images from the thermal cameras when they were used where possible on the surveys. Not all surveyors had thermal cameras given capacity and scheduling.

Table 6 Bat emergence survey environmental

Date		29/05/2024	25/06/2024
Sunset/Sunrise		21:09	21:24
Time	Start	21:00	21:09
	End	22:39	23:29
Temperature (°C)	Start	17.6	23
	End	16	19
Humidity (%)	Start	66	66
	End	69	76
Cloud Cover (oktas)	Start	8	1
	End	2	2
	Start	0	0

Avg. Wind speed (m/s)	End	0.6	0
Rain		Yesterday	None



Figure 10 Bat emergence surveyor locations

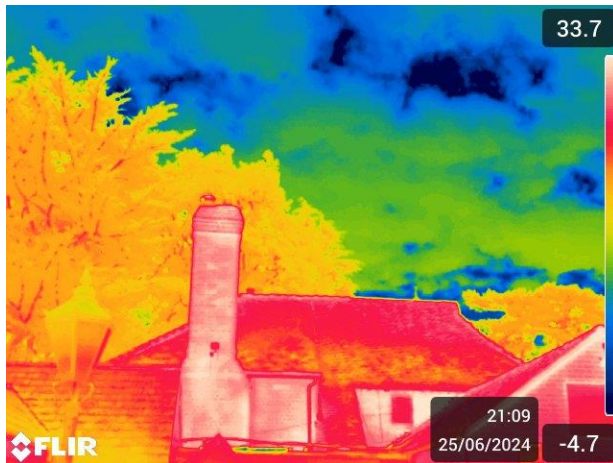


Photo 42 P1 thermal

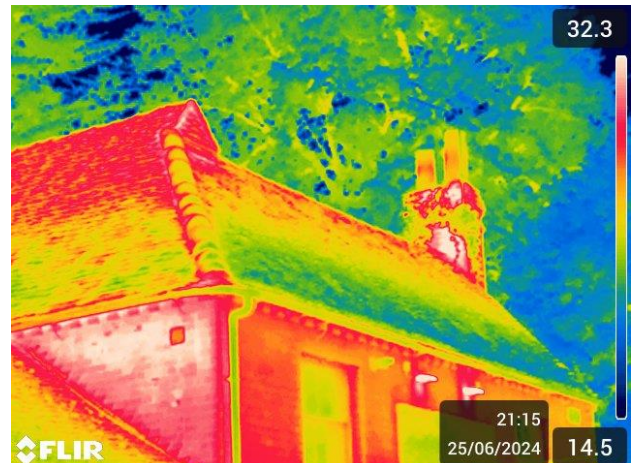


Photo 43 P2 thermal



Photo 44 P2 thermal

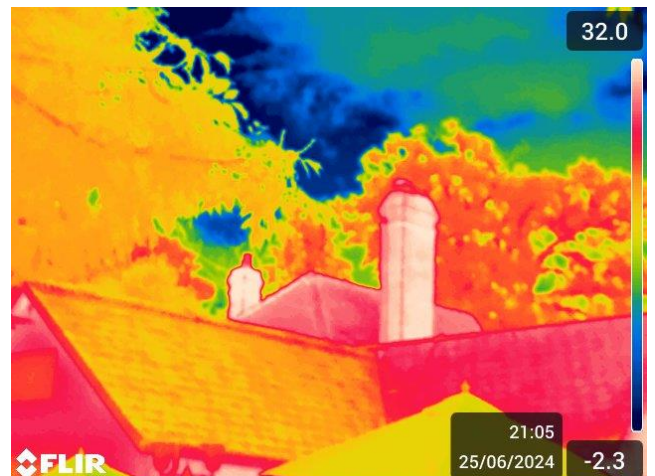


Photo 45 P4 thermal



Photo 46 View from P1



Photo 47 View from P2



Photo 48 View from P3



Photo 49 View from P4



Photo 50 View from P5



Photo 51 Significant artificial lighting recorded around the site

29/05/2024 Emergence Survey Results

P1

No bats recorded throughout the whole survey.

P2

No bats recorded throughout the whole survey.

P3

Very quiet. One faint CP call 15 min after sunset. No other bats heard or seen.

P4

No bats recorded throughout the whole survey.

P5

Gable is quite lit from adjacent outdoor lamp. Very quiet survey - couple of early pips but none were seen, I assume they were foraging / commuting behind me by the mature tree line, nothing moving over the building or emerging. No other bats seen, 1 faint LEI possibly.

25/06/2024 Emergence Survey Results

P1

Very quiet survey, noctule circling early on but no other bats.

P2

No emergences. Noctule commutes early in survey, occasional common pip passes (not seen). Overall, very quiet.

P3

Very quiet only a couple pips pass and one noctule. No emergences

P4

Lots of noctule activity nearby/above me (HNS) but nothing from or above the building

P5

No emergence and only very low levels noctule and common pip in the surrounding vicinity.

APPENDIX 3 – BACKGROUND DATA SEARCH BIRD RECORDS

Table 7 Red and Amber List ird records from background data search

Common Name	Latin Name	Abundance/Sex/Stage	Year	Other Designations
Black Redstart	Phoenicurus ochruros	1 Individual; possible breeding	2021	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	50 Individuals	2013	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	7 Individuals	2014	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	1 Individual	2015	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	1 Individual	2020	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	3 Individuals	2018	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	1 Individual	2020	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	1 Individual	2020	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	1 Individual	2020	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	2 Individuals	2019	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	2 Individuals	2019	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	1 Individual	2020	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	10 Individuals	2018	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	1 Individual	2020	Bird-Amber
Black-headed Gull	Chroicocephalus ridibundus	1 Individual	2019	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1	2010	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1	2003	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	2 Individuals	2013	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2013	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2013	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	2 Individuals	2013	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2013	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2013	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2014	Bird-Amber

Bullfinch	Pyrrhula pyrrhula	1 Individual	2014	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	3 Individuals	2015	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	2 Individuals	2015	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	3 Individuals	2015	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2015	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	4 Individuals	2015	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2016	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	4 Individuals	2016	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2017	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2017	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	3 Individuals	2017	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	3 Individuals	2017	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2017	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2017	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	5 Individuals	2017	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	2 Individuals	2017	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2017	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	4 Individuals	2017	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2019	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2020	Bird-Amber
Bullfinch	Pyrrhula pyrrhula	1 Individual	2020	Bird-Amber
Common Gull	Larus canus	4 Individuals	2014	Bird-Amber
Common Gull	Larus canus	1 Individual	2014	Bird-Amber
Common Gull	Larus canus	1 Individual	2015	Bird-Amber
Common Gull	Larus canus	1 Individual	2016	Bird-Amber
Common Gull	Larus canus	1 Individual	2016	Bird-Amber
Common Gull	Larus canus	1 Individual	2016	Bird-Amber
Common Tern	Sterna hirundo	1 Individual	2013	Bird-Amber
Common Tern	Sterna hirundo	1 Individual	2013	Bird-Amber

Common Tern	Sterna hirundo	1 Individual	2013	Bird-Amber
Common Tern	Sterna hirundo	2 Individuals	2014	Bird-Amber
Common Tern	Sterna hirundo	1 Individual	2020	Bird-Amber
Common Tern	Sterna hirundo	1 Individual	2020	Bird-Amber
Common Tern	Sterna hirundo	1 Individual	2020	Bird-Amber
Cuckoo	Cuculus canorus	1 Individual	2014	Bird-Red
Dunnock	Prunella modularis	1 Individual	2014	Bird-Amber
Dunnock	Prunella modularis	1 Individual	2013	Bird-Amber
Dunnock	Prunella modularis	2 Individuals	2013	Bird-Amber
Dunnock	Prunella modularis	1 Individual	2013	Bird-Amber
Dunnock	Prunella modularis	1 Individual	2014	Bird-Amber
Dunnock	Prunella modularis	1 Individual	2014	Bird-Amber
Dunnock	Prunella modularis	1 Individual	2014	Bird-Amber
Dunnock	Prunella modularis	1 possible breeding	2014	Bird-Amber
Dunnock	Prunella modularis	1 possible breeding	2014	Bird-Amber
Dunnock	Prunella modularis	1 possible breeding	2014	Bird-Amber
Dunnock	Prunella modularis	1 possible breeding	2014	Bird-Amber
Dunnock	Prunella modularis	1 possible breeding	2014	Bird-Amber
Dunnock	Prunella modularis	2 Individuals	2014	Bird-Amber
Dunnock	Prunella modularis	1 possible breeding	2014	Bird-Amber
Dunnock	Prunella modularis	1 Individual	2014	Bird-Amber
Dunnock	Prunella modularis	1 possible breeding	2014	Bird-Amber
Dunnock	Prunella modularis	1 possible breeding	2014	Bird-Amber
Dunnock	Prunella modularis	1 Individual	2020	Bird-Amber
Dunnock	Prunella modularis	3 Individuals	2023	Bird-Amber
Dunnock	Prunella modularis	1 Individual	2019	Bird-Amber
Dunnock	Prunella modularis	1 Individual	2020	Bird-Amber
Dunnock	Prunella modularis	1 Individual	2020	Bird-Amber
Dunnock	Prunella modularis	1 Individual; possible breeding	2019	Bird-Amber

Dunnoch	Prunella modularis	1 Individual	2019	Bird-Amber
Dunnoch	Prunella modularis	NA	2021	Bird-Amber
Dunnoch	Prunella modularis	14 Territories	2020	Bird-Amber
Dunnoch	Prunella modularis	1 Individual	2021	Bird-Amber
Fieldfare	Turdus pilaris	13 Individuals	2013	Bird-Red
Fieldfare	Turdus pilaris	1 Individual	2014	Bird-Red
Fieldfare	Turdus pilaris	5 Individuals	2015	Bird-Red
Fieldfare	Turdus pilaris	4 Individuals	2015	Bird-Red
Fieldfare	Turdus pilaris	3 Individuals	2015	Bird-Red
Fieldfare	Turdus pilaris	11 Individuals	2015	Bird-Red
Fieldfare	Turdus pilaris	20 Individuals	2016	Bird-Red
Fieldfare	Turdus pilaris	6 Individuals	2016	Bird-Red
Fieldfare	Turdus pilaris	1 Individual	2016	Bird-Red
Fieldfare	Turdus pilaris	40 Individuals	2016	Bird-Red
Fieldfare	Turdus pilaris	15 Individuals	2016	Bird-Red
Fieldfare	Turdus pilaris	100 Individuals	2017	Bird-Red
Fieldfare	Turdus pilaris	30 Individuals	2013	Bird-Red
Fieldfare	Turdus pilaris	11 Individuals	2013	Bird-Red
Fieldfare	Turdus pilaris	11 Individuals	2013	Bird-Red
Fieldfare	Turdus pilaris	5 Individuals	2013	Bird-Red
Fieldfare	Turdus pilaris	20 Individuals	2017	Bird-Red
Fieldfare	Turdus pilaris	57 Individuals	2017	Bird-Red
Fieldfare	Turdus pilaris	30 Individuals	2017	Bird-Red
Fieldfare	Turdus pilaris	4 Individuals	2017	Bird-Red
Fieldfare	Turdus pilaris	1 Individual	2017	Bird-Red
Fieldfare	Turdus pilaris	3 Individuals	2017	Bird-Red
Fieldfare	Turdus pilaris	20 Individuals	2017	Bird-Red
Fieldfare	Turdus pilaris	3 Individuals	2017	Bird-Red
Fieldfare	Turdus pilaris	29	2018	Bird-Red

Fieldfare	Turdus pilaris	1 Individual	2018	Bird-Red
Fieldfare	Turdus pilaris	75 Individuals	2018	Bird-Red
Fieldfare	Turdus pilaris	60 Individuals	2018	Bird-Red
Fieldfare	Turdus pilaris	2 Individuals	2018	Bird-Red
Fieldfare	Turdus pilaris	45 Individuals	2018	Bird-Red
Fieldfare	Turdus pilaris	10 Individuals	2018	Bird-Red
Fieldfare	Turdus pilaris	7 Individuals	2019	Bird-Red
Fieldfare	Turdus pilaris	15 Individuals	2019	Bird-Red
Fieldfare	Turdus pilaris	5 Individuals	2019	Bird-Red
Fieldfare	Turdus pilaris	6 Individuals	2020	Bird-Red
Fieldfare	Turdus pilaris	5 Individuals	2020	Bird-Red
Fieldfare	Turdus pilaris	8 Individuals	2020	Bird-Red
Fieldfare	Turdus pilaris	2 Individuals	2020	Bird-Red
Fieldfare	Turdus pilaris	5 Individuals	2020	Bird-Red
Fieldfare	Turdus pilaris	4 Individuals	2020	Bird-Red
Great Black-backed Gull	Larus marinus	1 Individual	2013	Bird-Amber
Great Black-backed Gull	Larus marinus	3 Individuals	2014	Bird-Amber
Greenfinch	Chloris chloris	1 Individual	2016	Bird-Red
Greenfinch	Chloris chloris	1 Individual	2016	Bird-Red
Greenfinch	Chloris chloris	5 Individuals	2017	Bird-Red
Greenfinch	Chloris chloris	1 possible breeding	2014	Bird-Red
Greenfinch	Chloris chloris	1 Individual	2018	Bird-Red
Greenfinch	Chloris chloris	2 Individuals	2020	Bird-Red
Greenfinch	Chloris chloris	1 Individual	2020	Bird-Red
Greenfinch	Chloris chloris	NA	2021	Bird-Red
Grey Wagtail	Motacilla cinerea	1 Individual	2014	Bird-Amber
Grey Wagtail	Motacilla cinerea	1 Individual	2014	Bird-Amber
Grey Wagtail	Motacilla cinerea	1 Individual	2014	Bird-Amber
Grey Wagtail	Motacilla cinerea	1 Individual	2015	Bird-Amber

Grey Wagtail	Motacilla cinerea	2 Individuals	2017	Bird-Amber
Grey Wagtail	Motacilla cinerea	1 Individual	2020	Bird-Amber
Grey Wagtail	Motacilla cinerea	2	2020	Bird-Amber
Grey Wagtail	Motacilla cinerea	1 Individual	2018	Bird-Amber
Grey Wagtail	Motacilla cinerea	1 Individual	2020	Bird-Amber
Greylag Goose	Anser anser	4 Individuals	2013	Bird-Amber
Greylag Goose	Anser anser	2 Individuals	2016	Bird-Amber
Greylag Goose	Anser anser	3 Individuals	2017	Bird-Amber
Greylag Goose	Anser anser	1 Individual	2020	Bird-Amber
Greylag Goose	Anser anser	1 Individual	2020	Bird-Amber
Hawfinch	Coccothraustes coccothraustes	5 Individuals	2017	Bird-Red
Hawfinch	Coccothraustes coccothraustes	1 Individual	2017	Bird-Red
Hawfinch	Coccothraustes coccothraustes	5 Individuals	2017	Bird-Red
Hawfinch	Coccothraustes coccothraustes	1 Individual	2017	Bird-Red
Hawfinch	Coccothraustes coccothraustes	1 Individual	2017	Bird-Red
Hawfinch	Coccothraustes coccothraustes	13 Individuals	2017	Bird-Red
Hawfinch	Coccothraustes coccothraustes	2 Individuals	2017	Bird-Red
Hawfinch	Coccothraustes coccothraustes	4 Individuals	2017	Bird-Red
Hawfinch	Coccothraustes coccothraustes	2 Individuals	2017	Bird-Red
Herring Gull	Larus argentatus	2 Individuals	2015	Bird-Red
Herring Gull	Larus argentatus	2 Individuals	2015	Bird-Red
Herring Gull	Larus argentatus	13 Individuals	2015	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2017	Bird-Red
Herring Gull	Larus argentatus	1 Flying Over	2013	Bird-Red
Herring Gull	Larus argentatus	1 Flying Over	2013	Bird-Red
Herring Gull	Larus argentatus	2 Individuals	2013	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2013	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2013	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2015	Bird-Red

Herring Gull	Larus argentatus	2 Individuals	2019	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2020	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2019	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2020	Bird-Red
Herring Gull	Larus argentatus	3 Individuals	2019	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2020	Bird-Red
Herring Gull	Larus argentatus	6 Individuals	2020	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2020	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2020	Bird-Red
Herring Gull	Larus argentatus	2 Individuals	2020	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2020	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2020	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2020	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2019	Bird-Red
Herring Gull	Larus argentatus	2 Individuals	2020	Bird-Red
Herring Gull	Larus argentatus	4 Individuals	2018	Bird-Red
Herring Gull	Larus argentatus	1 Individual	2020	Bird-Red
Herring Gull	Larus argentatus	3 Individuals	2020	Bird-Red
Herring Gull	Larus argentatus	2 Individuals	2020	Bird-Red
Herring Gull	Larus argentatus	2 Individuals	2020	Bird-Red
House Martin	Delichon urbicum	3 Individuals	2013	Bird-Red
House Martin	Delichon urbicum	1 Individual	2013	Bird-Red
House Martin	Delichon urbicum	2 Individuals	2013	Bird-Red
House Martin	Delichon urbicum	27 Individuals	2013	Bird-Red
House Martin	Delichon urbicum	1 Individual	2014	Bird-Red
House Martin	Delichon urbicum	1 Individual	2014	Bird-Red
House Martin	Delichon urbicum	2 Individuals	2014	Bird-Red
House Martin	Delichon urbicum	5 Individuals	2014	Bird-Red
House Martin	Delichon urbicum	12 Individuals	2014	Bird-Red

House Martin	Delichon urbicum	2 Individuals	2015	Bird-Red
House Martin	Delichon urbicum	3 Individuals	2015	Bird-Red
House Martin	Delichon urbicum	100 Individuals	2015	Bird-Red
House Martin	Delichon urbicum	3 Individuals	2016	Bird-Red
House Martin	Delichon urbicum	6 Individuals	2016	Bird-Red
House Martin	Delichon urbicum	1 Individual	2016	Bird-Red
House Martin	Delichon urbicum	20 Individuals	2016	Bird-Red
House Martin	Delichon urbicum	1 Individual	2016	Bird-Red
House Martin	Delichon urbicum	1 Individual	2017	Bird-Red
House Martin	Delichon urbicum	15 Individuals	2017	Bird-Red
House Martin	Delichon urbicum	1 Individual	2017	Bird-Red
House Martin	Delichon urbicum	1 Individual	2020	Bird-Red
House Martin	Delichon urbicum	2 Individuals	2020	Bird-Red
House Martin	Delichon urbicum	1 Individual	2020	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	8 possible breeding	2014	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	10 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	4 possible breeding	2014	Bird-Red
House Sparrow	Passer domesticus	5 Breeding probable	2014	Bird-Red
House Sparrow	Passer domesticus	27 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	13 Individuals	2013	Bird-Red
House Sparrow	Passer domesticus	17 Individuals	2013	Bird-Red
House Sparrow	Passer domesticus	15 Individuals	2013	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2013	Bird-Red
House Sparrow	Passer domesticus	20 Individuals	2013	Bird-Red
House Sparrow	Passer domesticus	13 Individuals	2013	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2013	Bird-Red

House Sparrow	Passer domesticus	5 Individuals	2013	Bird-Red
House Sparrow	Passer domesticus	17 Individuals	2013	Bird-Red
House Sparrow	Passer domesticus	12 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	7 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	6 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	7 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	6 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	5 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	9 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	7 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	10 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	9 Breeding probable	2014	Bird-Red
House Sparrow	Passer domesticus	6 Individuals	2014	Bird-Red
House Sparrow	Passer domesticus	5 Individuals	2019	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2019	Bird-Red
House Sparrow	Passer domesticus	20 Individuals	2018	Bird-Red
House Sparrow	Passer domesticus	12 Individuals	2018	Bird-Red
House Sparrow	Passer domesticus	4 Individuals	2018	Bird-Red
House Sparrow	Passer domesticus	2 Individuals	2019	Bird-Red
House Sparrow	Passer domesticus	7 Individuals	2020	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2019	Bird-Red
House Sparrow	Passer domesticus	8 Individuals; Breeding probable	2019	Bird-Red
House Sparrow	Passer domesticus	10+ Individuals	2023	Bird-Red
House Sparrow	Passer domesticus	4 Individuals	2020	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2019	Bird-Red
House Sparrow	Passer domesticus	6 Individuals	2018	Bird-Red
House Sparrow	Passer domesticus	16 Individuals	2019	Bird-Red
House Sparrow	Passer domesticus	17 Individuals	2019	Bird-Red

House Sparrow	Passer domesticus	6 Individuals	2019	Bird-Red
House Sparrow	Passer domesticus	3 Individuals	2020	Bird-Red
House Sparrow	Passer domesticus	12 Individuals	2019	Bird-Red
House Sparrow	Passer domesticus	12 Individuals; Breeding probable	2019	Bird-Red
House Sparrow	Passer domesticus	14 Individuals	2018	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2020	Bird-Red
House Sparrow	Passer domesticus	8 Individuals	2019	Bird-Red
House Sparrow	Passer domesticus	10 Individuals	2019	Bird-Red
House Sparrow	Passer domesticus	NA	2021	Bird-Red
House Sparrow	Passer domesticus	<5 Individuals	2020	Bird-Red
Kestrel	Falco tinnunculus	1 Individual	2013	Bird-Amber
Kestrel	Falco tinnunculus	1 Individual	2015	Bird-Amber
Kestrel	Falco tinnunculus	1 Individual	2015	Bird-Amber
Kestrel	Falco tinnunculus	1 Individual	2016	Bird-Amber
Kestrel	Falco tinnunculus	1 Individual	2017	Bird-Amber
Kestrel	Falco tinnunculus	1 Individual	2017	Bird-Amber
Kestrel	Falco tinnunculus	1 Individual	2017	Bird-Amber
Kestrel	Falco tinnunculus	1 Individual	2017	Bird-Amber
Kestrel	Falco tinnunculus	1 Individual	2017	Bird-Amber
Kestrel	Falco tinnunculus	1 Flying	2020	Bird-Amber
Kestrel	Falco tinnunculus	1 Flying	2019	Bird-Amber
Kestrel	Falco tinnunculus	NA	2006	Bird-Amber
Lapwing	Vanellus vanellus	2 Individuals	2016	Bird-Red
Lapwing	Vanellus vanellus	1 Individual	2020	Bird-Red
Lapwing	Vanellus vanellus	1 Individual	2020	Bird-Red
Lesser Black-backed Gull	Larus fuscus	5 Individuals	2013	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2014	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2014	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	2 Individuals	2016	Bird-Amber

Lesser Black-backed Gull	Larus fuscus	1 Flying Over	2013	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2013	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2019	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2019	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2020	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2020	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2019	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2020	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	2 Individuals	2018	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	2 Individuals	2020	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2018	Bird-Amber
Lesser Black-backed Gull	Larus fuscus	1 Individual	2020	Bird-Amber
Linnet	Linaria cannabina	2 Individuals	2013	Bird-Red
Linnet	Linaria cannabina	1 Individual	2013	Bird-Red
Linnet	Linaria cannabina	2 Individuals	2013	Bird-Red
Linnet	Linaria cannabina	3 Individuals	2013	Bird-Red
Linnet	Linaria cannabina	1 Individual	2013	Bird-Red
Linnet	Linaria cannabina	7 Individuals	2013	Bird-Red
Linnet	Linaria cannabina	1 Individual	2013	Bird-Red
Linnet	Linaria cannabina	1 Individual	2014	Bird-Red
Linnet	Linaria cannabina	1 Individual	2014	Bird-Red
Linnet	Linaria cannabina	10 Individuals	2014	Bird-Red
Linnet	Linaria cannabina	1 Individual	2015	Bird-Red
Linnet	Linaria cannabina	3 Individuals	2015	Bird-Red
Linnet	Linaria cannabina	2 Individuals	2015	Bird-Red
Linnet	Linaria cannabina	1 Individual	2016	Bird-Red
Linnet	Linaria cannabina	1 Individual	2016	Bird-Red
Linnet	Linaria cannabina	3 Individuals	2016	Bird-Red
Linnet	Linaria cannabina	4 Individuals	2016	Bird-Red

Linnet	Linaria cannabina	1 Individual	2017	Bird-Red
Linnet	Linaria cannabina	1 Individual	2017	Bird-Red
Linnet	Linaria cannabina	10 Individuals	2017	Bird-Red
Linnet	Linaria cannabina	18 Individuals	2017	Bird-Red
Linnet	Linaria cannabina	4 Individuals	2017	Bird-Red
Linnet	Linaria cannabina	1 Individual	2018	Bird-Red
Linnet	Linaria cannabina	1 Individual	2018	Bird-Red
Linnet	Linaria cannabina	3 Individuals	2018	Bird-Red
Linnet	Linaria cannabina	1 Individual	2020	Bird-Red
Linnet	Linaria cannabina	6 Individuals	2020	Bird-Red
Linnet	Linaria cannabina	2 Individuals	2020	Bird-Red
Linnet	Linaria cannabina	1 Individual	2020	Bird-Red
Mallard	Anas platyrhynchos	2 Individuals	2016	Bird-Amber
Mallard	Anas platyrhynchos	2 Individuals	2020	Bird-Amber
Mallard	Anas platyrhynchos	1 Individual	2020	Bird-Amber
Mallard	Anas platyrhynchos	1 Individual	2020	Bird-Amber
Mallard	Anas platyrhynchos	2 Individuals; Breeding probable	2019	Bird-Amber
Mallard	Anas platyrhynchos	2 Individuals; Breeding probable	2019	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2013	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2013	Bird-Amber
Meadow Pipit	Anthus pratensis	22 Individuals	2013	Bird-Amber
Meadow Pipit	Anthus pratensis	9 Individuals	2013	Bird-Amber
Meadow Pipit	Anthus pratensis	7 Individuals	2013	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2013	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2013	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2013	Bird-Amber
Meadow Pipit	Anthus pratensis	3 Individuals	2013	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2014	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2014	Bird-Amber

Meadow Pipit	Anthus pratensis	7 Individuals	2014	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2015	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2015	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2016	Bird-Amber
Meadow Pipit	Anthus pratensis	10 Individuals	2016	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2016	Bird-Amber
Meadow Pipit	Anthus pratensis	5 Individuals	2016	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2016	Bird-Amber
Meadow Pipit	Anthus pratensis	3 Individuals	2016	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2017	Bird-Amber
Meadow Pipit	Anthus pratensis	8 Individuals	2017	Bird-Amber
Meadow Pipit	Anthus pratensis	4 Individuals	2017	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2017	Bird-Amber
Meadow Pipit	Anthus pratensis	8 Individuals	2017	Bird-Amber
Meadow Pipit	Anthus pratensis	12 Individuals	2017	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2017	Bird-Amber
Meadow Pipit	Anthus pratensis	10 Individuals	2017	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2017	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2017	Bird-Amber
Meadow Pipit	Anthus pratensis	4	2018	Bird-Amber
Meadow Pipit	Anthus pratensis	10	2019	Bird-Amber
Meadow Pipit	Anthus pratensis	4 Individuals	2020	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2018	Bird-Amber
Meadow Pipit	Anthus pratensis	80 Individuals	2018	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2018	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2018	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2019	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2019	Bird-Amber
Meadow Pipit	Anthus pratensis	1 Individual	2020	Bird-Amber

Meadow Pipit	Anthus pratensis	5 Individuals	2020	Bird-Amber
Meadow Pipit	Anthus pratensis	2 Individuals	2020	Bird-Amber
Mediterranean Gull	Ichthyaetus melanocephalus	1 Individual	2020	Bird-Amber
Mistle Thrush	Turdus viscivorus	1 Individual	2013	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2014	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2014	Bird-Red
Mistle Thrush	Turdus viscivorus	3 Individuals	2015	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2015	Bird-Red
Mistle Thrush	Turdus viscivorus	2 Individuals	2016	Bird-Red
Mistle Thrush	Turdus viscivorus	2 Individuals	2016	Bird-Red
Mistle Thrush	Turdus viscivorus	5 Individuals	2016	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2016	Bird-Red
Mistle Thrush	Turdus viscivorus	2 Individuals	2017	Bird-Red
Mistle Thrush	Turdus viscivorus	2 Individuals	2017	Bird-Red
Mistle Thrush	Turdus viscivorus	2 Individuals	2017	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2017	Bird-Red
Mistle Thrush	Turdus viscivorus	3 Individuals	2017	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2017	Bird-Red
Mistle Thrush	Turdus viscivorus	3 Individuals	2017	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2020	Bird-Red
Mistle Thrush	Turdus viscivorus	1	2020	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2018	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2020	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2020	Bird-Red
Mistle Thrush	Turdus viscivorus	3 Individuals	2021	Bird-Red
Mistle Thrush	Turdus viscivorus	1 Individual	2021	Bird-Red
Moorhen	Gallinula chloropus	1 possible breeding	2013	Bird-Amber
Moorhen	Gallinula chloropus	1 Individual	2015	Bird-Amber
Moorhen	Gallinula chloropus	1 Individual	2015	Bird-Amber

Moorhen	Gallinula chloropus	1 Individual	2016	Bird-Amber
Moorhen	Gallinula chloropus	1 Individual	2017	Bird-Amber
Moorhen	Gallinula chloropus	1 Individual	2020	Bird-Amber
Oystercatcher	Haematopus ostralegus	1 Individual	2020	Bird-Amber
Pintail	Anas acuta	2 Individuals	2013	Bird-Amber
Redwing	Turdus iliacus	4 Individuals	2013	Bird-Amber
Redwing	Turdus iliacus	2 Individuals	2013	Bird-Amber
Redwing	Turdus iliacus	1 Individual	2013	Bird-Amber
Redwing	Turdus iliacus	280 Individuals	2013	Bird-Amber
Redwing	Turdus iliacus	20 Individuals	2013	Bird-Amber
Redwing	Turdus iliacus	2 Individuals	2014	Bird-Amber
Redwing	Turdus iliacus	2 Individuals	2014	Bird-Amber
Redwing	Turdus iliacus	1 Individual	2014	Bird-Amber
Redwing	Turdus iliacus	3 Individuals	2014	Bird-Amber
Redwing	Turdus iliacus	1 Individual	2014	Bird-Amber
Redwing	Turdus iliacus	1 Individual	2014	Bird-Amber
Redwing	Turdus iliacus	1 Individual	2015	Bird-Amber
Redwing	Turdus iliacus	5 Individuals	2015	Bird-Amber
Redwing	Turdus iliacus	3 Individuals	2015	Bird-Amber
Redwing	Turdus iliacus	10 Individuals	2015	Bird-Amber
Redwing	Turdus iliacus	1 Individual	2015	Bird-Amber
Redwing	Turdus iliacus	16 Individuals	2016	Bird-Amber
Redwing	Turdus iliacus	3 Individuals	2016	Bird-Amber
Redwing	Turdus iliacus	50 Individuals	2016	Bird-Amber
Redwing	Turdus iliacus	6 Individuals	2016	Bird-Amber
Redwing	Turdus iliacus	15 Individuals	2016	Bird-Amber
Redwing	Turdus iliacus	15 Individuals	2016	Bird-Amber
Redwing	Turdus iliacus	25 Individuals	2016	Bird-Amber
Redwing	Turdus iliacus	15 Individuals	2016	Bird-Amber

Redwing	Turdus iliacus	3 Individuals	2013	Bird-Amber
Redwing	Turdus iliacus	1 Individual	2014	Bird-Amber
Redwing	Turdus iliacus	1 Individual	2014	Bird-Amber
Redwing	Turdus iliacus	1 Individual	2014	Bird-Amber
Redwing	Turdus iliacus	8 Individuals	2014	Bird-Amber
Redwing	Turdus iliacus	1 Individual	2015	Bird-Amber
Redwing	Turdus iliacus	5 Individuals	2017	Bird-Amber
Redwing	Turdus iliacus	3 Individuals	2017	Bird-Amber
Redwing	Turdus iliacus	15 Individuals	2017	Bird-Amber
Redwing	Turdus iliacus	15 Individuals	2017	Bird-Amber
Redwing	Turdus iliacus	125 Individuals	2017	Bird-Amber
Redwing	Turdus iliacus	54 Individuals	2017	Bird-Amber
Redwing	Turdus iliacus	59 Individuals	2017	Bird-Amber
Redwing	Turdus iliacus	22 Individuals	2017	Bird-Amber
Redwing	Turdus iliacus	45 Individuals	2017	Bird-Amber
Redwing	Turdus iliacus	100 Individuals	2017	Bird-Amber
Redwing	Turdus iliacus	3 Individuals	2019	Bird-Amber
Redwing	Turdus iliacus	47 Individuals	2020	Bird-Amber
Redwing	Turdus iliacus	14 Individuals	2019	Bird-Amber
Redwing	Turdus iliacus	40	2018	Bird-Amber
Redwing	Turdus iliacus	2 Individuals	2018	Bird-Amber
Redwing	Turdus iliacus	300 Individuals	2019	Bird-Amber
Redwing	Turdus iliacus	5 Individuals	2020	Bird-Amber
Redwing	Turdus iliacus	900 Individuals	2020	Bird-Amber
Redwing	Turdus iliacus	197 Individuals	2020	Bird-Amber
Redwing	Turdus iliacus	350 Individuals	2020	Bird-Amber
Redwing	Turdus iliacus	15 Individuals	2019	Bird-Amber
Redwing	Turdus iliacus	8 Individuals	2020	Bird-Amber
Redwing	Turdus iliacus	Feeding	2021	Bird-Amber

Reed Bunting	Emberiza schoeniclus	1 Individual	2020	Bird-Amber
Ring Ouzel	Turdus torquatus	1 Individual	2021	Bird-Red
Rook	Corvus frugilegus	2 Individuals	2014	Bird-Amber
Rook	Corvus frugilegus	1 Individual	2016	Bird-Amber
Rook	Corvus frugilegus	2 Individuals	2016	Bird-Amber
Rook	Corvus frugilegus	1 Individual	2016	Bird-Amber
Rook	Corvus frugilegus	1 Individual	2016	Bird-Amber
Rook	Corvus frugilegus	11 Individuals	2017	Bird-Amber
Rook	Corvus frugilegus	20 Individuals	2019	Bird-Amber
Rook	Corvus frugilegus	2	2020	Bird-Amber
Rook	Corvus frugilegus	1	2020	Bird-Amber
Rook	Corvus frugilegus	2 Individuals	2018	Bird-Amber
Rook	Corvus frugilegus	2 Individuals	2019	Bird-Amber
Rook	Corvus frugilegus	1 Individual	2020	Bird-Amber
Rook	Corvus frugilegus	1 Individual	2020	Bird-Amber
Rook	Corvus frugilegus	3 Individuals	2020	Bird-Amber
Rook	Corvus frugilegus	1 Individual	2020	Bird-Amber
Rook	Corvus frugilegus	2 Individuals	2020	Bird-Amber
Shoveler	Spatula clypeata	1 Individual	2020	Bird-Amber
Skylark	Alauda arvensis	Nesting Pairs	2003	Bird-Red
Skylark	Alauda arvensis	3 Individuals	2013	Bird-Red
Skylark	Alauda arvensis	1 Individual	2013	Bird-Red
Skylark	Alauda arvensis	3 Individuals	2013	Bird-Red
Skylark	Alauda arvensis	2 Individuals	2014	Bird-Red
Skylark	Alauda arvensis	2 Individuals	2014	Bird-Red
Skylark	Alauda arvensis	1 Individual	2015	Bird-Red
Skylark	Alauda arvensis	5 Individuals	2015	Bird-Red
Skylark	Alauda arvensis	1 Individual	2016	Bird-Red
Skylark	Alauda arvensis	1 Individual	2016	Bird-Red

Skylark	Alauda arvensis	1 Individual	2016	Bird-Red
Skylark	Alauda arvensis	1 Individual	2017	Bird-Red
Skylark	Alauda arvensis	4 Individuals	2017	Bird-Red
Skylark	Alauda arvensis	6 Individuals	2017	Bird-Red
Skylark	Alauda arvensis	1 Individual	2017	Bird-Red
Skylark	Alauda arvensis	2	2020	Bird-Red
Skylark	Alauda arvensis	3	2018	Bird-Red
Skylark	Alauda arvensis	2	2020	Bird-Red
Skylark	Alauda arvensis	1 Individual	2020	Bird-Red
Skylark	Alauda arvensis	1 Individual	2018	Bird-Red
Skylark	Alauda arvensis	1 Individual	2018	Bird-Red
Snipe	Gallinago gallinago	2 Individuals	2019	Bird-Amber
Snipe	Gallinago gallinago	1 Individual	2021	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2013	Bird-Amber
Song Thrush	Turdus philomelos	6 Individuals	2013	Bird-Amber
Song Thrush	Turdus philomelos	4 Individuals	2013	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2014	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2014	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2015	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2015	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2015	Bird-Amber
Song Thrush	Turdus philomelos	3 Individuals	2015	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2016	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2016	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2016	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2016	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2016	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2016	Bird-Amber
Song Thrush	Turdus philomelos	10 Individuals	2016	Bird-Amber

Song Thrush	Turdus philomelos	7 Individuals	2016	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2016	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2016	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2016	Bird-Amber
Song Thrush	Turdus philomelos	1 possible breeding	2013	Bird-Amber
Song Thrush	Turdus philomelos	1 possible breeding	2013	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2013	Bird-Amber
Song Thrush	Turdus philomelos	1 possible breeding	2013	Bird-Amber
Song Thrush	Turdus philomelos	1 possible breeding	2013	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2013	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2013	Bird-Amber
Song Thrush	Turdus philomelos	1 possible breeding	2014	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2014	Bird-Amber
Song Thrush	Turdus philomelos	1 possible breeding	2014	Bird-Amber
Song Thrush	Turdus philomelos	1 possible breeding	2014	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2014	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2017	Bird-Amber
Song Thrush	Turdus philomelos	3 Individuals	2017	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2017	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2017	Bird-Amber
Song Thrush	Turdus philomelos	3 Individuals	2017	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2017	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2017	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2019	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2020	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals	2023	Bird-Amber
Song Thrush	Turdus philomelos	1 Adult; 1 singing/ mating call; 1 nest building/ gathering material	2000	Bird-Amber
Song Thrush	Turdus philomelos	1 Adult; 1 feeding; 1 in flight	2000	Bird-Amber
Song Thrush	Turdus philomelos	1 Adult; 1 feeding	2000	Bird-Amber

Song Thrush	Turdus philomelos	1 Individual	2020	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual; possible breeding	2019	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2020	Bird-Amber
Song Thrush	Turdus philomelos	2 Individuals; possible breeding	2019	Bird-Amber
Song Thrush	Turdus philomelos	1	2018	Bird-Amber
Song Thrush	Turdus philomelos	5	2020	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2018	Bird-Amber
Song Thrush	Turdus philomelos	NA	2021	Bird-Amber
Song Thrush	Turdus philomelos	9 Territories	2020	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual	2021	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual; possible breeding	2021	Bird-Amber
Song Thrush	Turdus philomelos	1 Individual; possible breeding	2021	Bird-Amber
Sparrowhawk	Accipiter nisus	NA	2012	Bird-Amber
Sparrowhawk	Accipiter nisus	1 Individual	2015	Bird-Amber
Sparrowhawk	Accipiter nisus	1 Individual	2016	Bird-Amber
Sparrowhawk	Accipiter nisus	1 Breeding confirmed	2016	Bird-Amber
Sparrowhawk	Accipiter nisus	1 Individual	2016	Bird-Amber
Sparrowhawk	Accipiter nisus	1 Individual	2013	Bird-Amber
Sparrowhawk	Accipiter nisus	1 Individual	2013	Bird-Amber
Sparrowhawk	Accipiter nisus	1 Individual	2015	Bird-Amber
Starling	Sturnus vulgaris	55 Individuals	2013	Bird-Red
Starling	Sturnus vulgaris	10 Individuals	2015	Bird-Red
Starling	Sturnus vulgaris	40 Individuals	2013	Bird-Red
Starling	Sturnus vulgaris	20 possible breeding	2013	Bird-Red
Starling	Sturnus vulgaris	1 Individual	2013	Bird-Red
Starling	Sturnus vulgaris	40 Individuals	2013	Bird-Red
Starling	Sturnus vulgaris	1 Individual	2013	Bird-Red
Starling	Sturnus vulgaris	7 Individuals	2013	Bird-Red
Starling	Sturnus vulgaris	1 Breeding probable	2013	Bird-Red

Starling	Sturnus vulgaris	14 Individuals	2013	Bird-Red
Starling	Sturnus vulgaris	10 Individuals	2013	Bird-Red
Starling	Sturnus vulgaris	140 Individuals	2017	Bird-Red
Starling	Sturnus vulgaris	140 Individuals	2017	Bird-Red
Starling	Sturnus vulgaris	30 Individuals	2013	Bird-Red
Starling	Sturnus vulgaris	5 possible breeding	2014	Bird-Red
Starling	Sturnus vulgaris	16 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	20 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	6 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	17 possible breeding	2014	Bird-Red
Starling	Sturnus vulgaris	6 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	12 possible breeding	2014	Bird-Red
Starling	Sturnus vulgaris	10 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	12 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	11 possible breeding	2014	Bird-Red
Starling	Sturnus vulgaris	12 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	17 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	5 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	3 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	3 possible breeding	2014	Bird-Red
Starling	Sturnus vulgaris	3 Individuals	2014	Bird-Red
Starling	Sturnus vulgaris	11 possible breeding	2014	Bird-Red
Starling	Sturnus vulgaris	8 possible breeding	2014	Bird-Red
Starling	Sturnus vulgaris	1 Individual	2015	Bird-Red
Starling	Sturnus vulgaris	39 Individuals	2019	Bird-Red
Starling	Sturnus vulgaris	42 Individuals	2019	Bird-Red
Starling	Sturnus vulgaris	20 Individuals	2020	Bird-Red
Starling	Sturnus vulgaris	2 Individuals	2018	Bird-Red
Starling	Sturnus vulgaris	60 Individuals	2018	Bird-Red

Starling	Sturnus vulgaris	1 Individual	2018	Bird-Red
Starling	Sturnus vulgaris	3 Individuals	2019	Bird-Red
Starling	Sturnus vulgaris	11 Individuals	2020	Bird-Red
Starling	Sturnus vulgaris	40 Individuals	2019	Bird-Red
Starling	Sturnus vulgaris	1 Individual	2019	Bird-Red
Starling	Sturnus vulgaris	4 Individuals	2023	Bird-Red
Starling	Sturnus vulgaris	20 Individuals	2020	Bird-Red
Starling	Sturnus vulgaris	5 Individuals	2018	Bird-Red
Starling	Sturnus vulgaris	24 Individuals; Breeding confirmed	2020	Bird-Red
Starling	Sturnus vulgaris	5 Individuals	2019	Bird-Red
Starling	Sturnus vulgaris	32 Individuals	2019	Bird-Red
Starling	Sturnus vulgaris	11 Individuals	2020	Bird-Red
Starling	Sturnus vulgaris	41 Individuals	2020	Bird-Red
Starling	Sturnus vulgaris	8 Individuals	2020	Bird-Red
Starling	Sturnus vulgaris	1 Individual	2019	Bird-Red
Starling	Sturnus vulgaris	2 Individuals	2018	Bird-Red
Starling	Sturnus vulgaris	1 Individual	2020	Bird-Red
Starling	Sturnus vulgaris	36 Individuals	2019	Bird-Red
Starling	Sturnus vulgaris	29 Individuals	2019	Bird-Red
Starling	Sturnus vulgaris	40 Individuals	2020	Bird-Red
Starling	Sturnus vulgaris	120	2018	Bird-Red
Starling	Sturnus vulgaris	30 Individuals	2018	Bird-Red
Starling	Sturnus vulgaris	Feeding	2021	Bird-Red
Starling	Sturnus vulgaris	Adults; Juveniles	2020	Bird-Red
Starling	Sturnus vulgaris	4 Individuals	2021	Bird-Red
Stock Dove	Columba oenas	2 Individuals	2013	Bird-Amber
Stock Dove	Columba oenas	3 Individuals	2013	Bird-Amber
Stock Dove	Columba oenas	2 Individuals	2014	Bird-Amber
Stock Dove	Columba oenas	1 Individual	2015	Bird-Amber

Stock Dove	Columba oenas	5 Individuals	2016	Bird-Amber
Stock Dove	Columba oenas	1 Individual	2016	Bird-Amber
Stock Dove	Columba oenas	2 Individuals	2017	Bird-Amber
Stock Dove	Columba oenas	2 Individuals	2017	Bird-Amber
Stock Dove	Columba oenas	1 Singing Male; possible breeding	2020	Bird-Amber
Stock Dove	Columba oenas	5 Singing Males; possible breeding	2020	Bird-Amber
Stock Dove	Columba oenas	4	2020	Bird-Amber
Stock Dove	Columba oenas	1 Adult	2007	Bird-Amber
Stock Dove	Columba oenas	2 Juvenile Females	2007	Bird-Amber
Stock Dove	Columba oenas	1 Adult	2007	Bird-Amber
Stock Dove	Columba oenas	2 Juvenile Females	2007	Bird-Amber
Stock Dove	Columba oenas	6 Territories	2020	Bird-Amber
Stock Dove	Columba oenas	1 Individual; possible breeding	2021	Bird-Amber
Stock Dove	Columba oenas	1 Individual; Breeding probable	2021	Bird-Amber
Stock Dove	Columba oenas	4 Individuals; possible breeding	2021	Bird-Amber
Swift	Apus apus	2 Nests	2007	Bird-Red
Swift	Apus apus	10 Adults	2007	Bird-Red
Swift	Apus apus	4 Adults	2012	Bird-Red
Swift	Apus apus	3	2004	Bird-Red
Swift	Apus apus	6 Individuals	2013	Bird-Red
Swift	Apus apus	7 Individuals	2014	Bird-Red
Swift	Apus apus	1 Individual	2014	Bird-Red
Swift	Apus apus	3 Individuals	2014	Bird-Red
Swift	Apus apus	1 Individual	2014	Bird-Red
Swift	Apus apus	1 Individual	2014	Bird-Red
Swift	Apus apus	12 Individuals	2015	Bird-Red
Swift	Apus apus	2 Individuals	2015	Bird-Red
Swift	Apus apus	8 Individuals	2015	Bird-Red

Swift	Apus apus	4 Individuals	2016	Bird-Red
Swift	Apus apus	6 Individuals	2016	Bird-Red
Swift	Apus apus	14 Individuals	2016	Bird-Red
Swift	Apus apus	5 Individuals	2016	Bird-Red
Swift	Apus apus	4 Individuals	2016	Bird-Red
Swift	Apus apus	1 Individual	2017	Bird-Red
Swift	Apus apus	4 Individuals	2017	Bird-Red
Swift	Apus apus	12 Individuals	2017	Bird-Red
Swift	Apus apus	2 Individuals	2017	Bird-Red
Swift	Apus apus	2 Individuals	2013	Bird-Red
Swift	Apus apus	10 Individuals	2013	Bird-Red
Swift	Apus apus	4 Individuals	2013	Bird-Red
Swift	Apus apus	6 Individuals	2013	Bird-Red
Swift	Apus apus	4 Individuals	2014	Bird-Red
Swift	Apus apus	1 Individual	2020	Bird-Red
Swift	Apus apus	1 Individual	2020	Bird-Red
Swift	Apus apus	7 Individuals	2019	Bird-Red
Swift	Apus apus	3 Individuals	2020	Bird-Red
Swift	Apus apus	12 Individuals	2019	Bird-Red
Swift	Apus apus	3 Flying	2019	Bird-Red
Swift	Apus apus	6 Flying	2019	Bird-Red
Swift	Apus apus	2 Flying	2019	Bird-Red
Swift	Apus apus	3 Individuals	2020	Bird-Red
Swift	Apus apus	1 Individual	2020	Bird-Red
Swift	Apus apus	11 Individuals	2019	Bird-Red
Swift	Apus apus	2 Flying	2020	Bird-Red
Swift	Apus apus	1 Flying	2019	Bird-Red
Swift	Apus apus	5 Flying	2019	Bird-Red
Swift	Apus apus	1 Individual	2020	Bird-Red

Swift	Apus apus	2 Individuals	2018	Bird-Red
Swift	Apus apus	3 Individuals	2020	Bird-Red
Swift	Apus apus	4 Individuals	2020	Bird-Red
Swift	Apus apus	2 Individuals	2020	Bird-Red
Swift	Apus apus	4 Flying	2020	Bird-Red
Swift	Apus apus	6 Flying; Breeding probable	2020	Bird-Red
Swift	Apus apus	2 Flying	2019	Bird-Red
Swift	Apus apus	6 Individuals	2019	Bird-Red
Swift	Apus apus	6 Flying	2019	Bird-Red
Swift	Apus apus	1 Individual	2019	Bird-Red
Swift	Apus apus	4 Individuals	2020	Bird-Red
Swift	Apus apus	2 Flying	2020	Bird-Red
Swift	Apus apus	1 Individual	2020	Bird-Red
Swift	Apus apus	2	2018	Bird-Red
Swift	Apus apus	3 Individuals	2021	Bird-Red
Swift	Apus apus	4 Individuals	2021	Bird-Red
Tawny Owl	Strix aluco	1 Individual	2014	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2016	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2016	Bird-Amber
Tawny Owl	Strix aluco	2 Individuals	2016	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2016	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2017	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2017	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2017	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2017	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2017	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2017	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2013	Bird-Amber
Tawny Owl	Strix aluco	1 Individual	2017	Bird-Amber

Tawny Owl	Strix aluco	1 Individual	2017	Bird-Amber
Teal	Anas crecca	2 Individuals	2018	Bird-Amber
Whitethroat	Curruca communis	1 Individual	2014	Bird-Amber
Whitethroat	Curruca communis	1 Individual	2020	Bird-Amber
Whitethroat	Curruca communis	1 Individual	2020	Bird-Amber
Whitethroat	Curruca communis	2 Territories	2020	Bird-Amber
Willow Warbler	Phylloscopus trochilus	1 Individual	2014	Bird-Amber
Willow Warbler	Phylloscopus trochilus	1 Individual	2014	Bird-Amber
Willow Warbler	Phylloscopus trochilus	1 Individual	2016	Bird-Amber
Willow Warbler	Phylloscopus trochilus	1 Individual	2016	Bird-Amber
Willow Warbler	Phylloscopus trochilus	1 Individual	2017	Bird-Amber
Willow Warbler	Phylloscopus trochilus	1 Individual	2017	Bird-Amber
Willow Warbler	Phylloscopus trochilus	1 Individual	2020	Bird-Amber
Woodcock	Scolopax rusticola	1 Individual	2017	Bird-Red
Woodcock	Scolopax rusticola	1 Individual	2021	Bird-Red
Woodpigeon	Columba palumbus	NA	2012	Bird-Amber
Woodpigeon	Columba palumbus	480 Individuals	2013	Bird-Amber
Woodpigeon	Columba palumbus	1434 Individuals	2013	Bird-Amber
Woodpigeon	Columba palumbus	498 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	880 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	300 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	30 Individuals	2015	Bird-Amber
Woodpigeon	Columba palumbus	50 Individuals	2015	Bird-Amber
Woodpigeon	Columba palumbus	106 Individuals	2015	Bird-Amber
Woodpigeon	Columba palumbus	80 Individuals	2016	Bird-Amber
Woodpigeon	Columba palumbus	650 Individuals	2016	Bird-Amber
Woodpigeon	Columba palumbus	35 Individuals	2016	Bird-Amber
Woodpigeon	Columba palumbus	5 Individuals	2013	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2013	Bird-Amber

Woodpigeon	Columba palumbus	3 possible breeding	2014	Bird-Amber
Woodpigeon	Columba palumbus	1 Individual	2014	Bird-Amber
Woodpigeon	Columba palumbus	3 possible breeding	2014	Bird-Amber
Woodpigeon	Columba palumbus	4 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	1 Individual	2014	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	1 Individual	2014	Bird-Amber
Woodpigeon	Columba palumbus	5 possible breeding	2014	Bird-Amber
Woodpigeon	Columba palumbus	3 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	3 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	1 Individual	2014	Bird-Amber
Woodpigeon	Columba palumbus	2 possible breeding	2014	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	4 Individuals	2014	Bird-Amber
Woodpigeon	Columba palumbus	1 Breeding probable	2014	Bird-Amber
Woodpigeon	Columba palumbus	2 possible breeding	2014	Bird-Amber
Woodpigeon	Columba palumbus	3 possible breeding	2013	Bird-Amber
Woodpigeon	Columba palumbus	3 Individuals	2013	Bird-Amber
Woodpigeon	Columba palumbus	3 Individuals	2013	Bird-Amber
Woodpigeon	Columba palumbus	4 Individuals	2013	Bird-Amber
Woodpigeon	Columba palumbus	3 possible breeding	2013	Bird-Amber
Woodpigeon	Columba palumbus	1 Individual	2013	Bird-Amber
Woodpigeon	Columba palumbus	3 Individuals	2013	Bird-Amber
Woodpigeon	Columba palumbus	60 Individuals	2017	Bird-Amber
Woodpigeon	Columba palumbus	1600 Individuals	2017	Bird-Amber
Woodpigeon	Columba palumbus	240 Individuals	2017	Bird-Amber

Woodpigeon	Columba palumbus	360 Individuals	2017	Bird-Amber
Woodpigeon	Columba palumbus	140 Individuals	2017	Bird-Amber
Woodpigeon	Columba palumbus	4 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	1 Individual	2020	Bird-Amber
Woodpigeon	Columba palumbus	4 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2018	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals; Breeding confirmed	2019	Bird-Amber
Woodpigeon	Columba palumbus	6 Individuals	2018	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals; possible breeding	2020	Bird-Amber
Woodpigeon	Columba palumbus	7 Individuals	2018	Bird-Amber
Woodpigeon	Columba palumbus	1 Individual	2020	Bird-Amber
Woodpigeon	Columba palumbus	30 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2020	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	6 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	5 Individuals	2023	Bird-Amber
Woodpigeon	Columba palumbus	8 Individuals	2020	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	6 Individuals	2018	Bird-Amber
Woodpigeon	Columba palumbus	6 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	3 Individuals	2020	Bird-Amber
Woodpigeon	Columba palumbus	1 Individual	2019	Bird-Amber
Woodpigeon	Columba palumbus	5 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2020	Bird-Amber
Woodpigeon	Columba palumbus	4 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	3 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	4 Individuals	2018	Bird-Amber
Woodpigeon	Columba palumbus	4 Individuals	2019	Bird-Amber

Woodpigeon	Columba palumbus	3 Individuals	2020	Bird-Amber
Woodpigeon	Columba palumbus	1 Individual	2019	Bird-Amber
Woodpigeon	Columba palumbus	2 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	350	2018	Bird-Amber
Woodpigeon	Columba palumbus	10 Individuals	2018	Bird-Amber
Woodpigeon	Columba palumbus	1290 Individuals	2018	Bird-Amber
Woodpigeon	Columba palumbus	125 Individuals	2019	Bird-Amber
Woodpigeon	Columba palumbus	275 Individuals	2020	Bird-Amber
Woodpigeon	Columba palumbus	NA	2021	Bird-Amber
Woodpigeon	Columba palumbus	NA	2020	Bird-Amber
Woodpigeon	Columba palumbus	9 Individuals	2021	Bird-Amber
Wren	Troglodytes troglodytes	NA	2012	Bird-Amber
Wren	Troglodytes troglodytes	3 Individuals	2013	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual	2014	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual	2014	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual	2016	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual	2016	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual	2017	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual	2013	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual	2014	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual	2020	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual; possible breeding	2020	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual	2020	Bird-Amber
Wren	Troglodytes troglodytes	4 Individuals	2023	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual; possible breeding	2019	Bird-Amber
Wren	Troglodytes troglodytes	NA	2021	Bird-Amber
Wren	Troglodytes troglodytes	20 Territories	2020	Bird-Amber
Wren	Troglodytes troglodytes	1 Individual; possible breeding	2021	Bird-Amber
Yellow Wagtail	Motacilla flava	1	2004	Bird-Red

Yellow Wagtail	Motacilla flava	2 Individuals	2016	Bird-Red
Yellow Wagtail	Motacilla flava flavissima	6 Individuals	2020	Bird-Red