

P e l l F r i s c h m a n n

**Former Hazel Grove School  
Playing Fields Site,  
Filbert Close, Hatfield**

**Preliminary Ecological Appraisal**

August 2019  
RE70091V001B

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## Revision Record

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# 1 Introduction

Pell Frischmann have been commissioned by Hertfordshire County Council (HCC) to undertake a Preliminary Ecological Appraisal to determine the ecological status of land at the former Hazel Grove School playing fields site, Filbert Close, Hatfield.

The requirement for the appraisal arises from HCC interest in creating a residential development on the land.

This report has been updated following receipt of an updated masterplan in August 2019. Baseline surveys undertaken in 2017 and 2018 have not been updated at this stage; due to the location and nature of the Site, it is considered that these baseline surveys are still accurate for their purpose.

## 1.1 Appraisal Objectives

The objectives of the Preliminary Ecological Appraisal are to ascertain the habitat types and key ecological issues relating to the development proposal. This includes identifying potential impacts upon designated species and habitats and determining whether there is a need for more detailed surveys of notable plant and animal species.

This report identifies the ecological constraints at the site and makes recommendations for further ecological surveys. Likely ecological impacts have been assessed based on the development proposals. Recommendations for suitable mitigation have also been made.

The adoption of the mitigation proposals will enable the project to satisfy current UK and European legal wildlife requirements, as well as national and local planning regulations. All public bodies have statutory obligations under the Natural Environment and Rural Communities Act 2006 to conserve and enhance biodiversity.

## 1.2 Scope of Works

Sufficient ecological information is required to fully inform the design of the development and the associated construction works. The Preliminary Ecological Appraisal comprises the following elements:

- Desktop study of available site information;
- Phase 1 Habitat survey of the site;
- Assessment of the potential impacts of the proposed scheme;
- Appraisal of the requirements for further survey work; and
- Appraisal of the requirements for mitigation and potential for enhancement measures.

## 1.3 Site Location and Description

The proposed development plot (approximately 0.95 ha), hereafter referred to as the Site, is located on the former Hazel Grove School playing fields on the south-western edge of the urban area of Hatfield.

The National Grid Reference of the approx. centre of the Site is TL 217 066. The Site location is shown in Figure 1.

The Site is adjacent to residential properties to the north, east and west. The southern boundary of the Site is a tree line leading to a park with areas of broadleaf woodland. These woodland areas form a continuous tree belt along the A1. The A1 road is approximately 120m to the south of the Site and separates the park from open fields.

## 1.4 Proposed Development

A residential development is proposed for the Site of a character which is in keeping with the surrounding area (attached in Appendix A) .

Figure 1: Site Location Plan



Google Earth Imagery - License Number JCPMB2ZBMMAWBHP



Ordnance Survey Maps - License Number 100004912

## 2 National Legislation

The Wildlife and Countryside Act (WCA) 1981 (as amended) is the principal mechanism for the legislative protection of wildlife in the UK and is divided into four parts, the first section of which details the protection of wildlife. This legislation protects wild animals listed on Schedule 5 and wildflowers which are listed on Schedule 8. All wild birds and their eggs and nests are protected, with special protection for birds listed on Schedule 1. Invasive plants listed on Schedule 9 must not be spread or propagated in any way.

The Conservation of Habitats and Species Regulations 2017 protects animals listed on Schedule 2 and plants listed on Schedule 5, also known as European Protected Species. The Regulations allow the designation and protection of Special Areas of Conservation (SACs), Special Protection Areas (SPA's) and RAMSAR sites. These are collectively known as Natura 2000 sites. A development which would have an adverse effect on the conservation interests for which a Natura 2000 area has been designated should only be permitted where:

- There is no alternative solution; and
- There are imperative reasons of over-riding public interest, including those of a social or economic nature.

Where a priority habitat or species (as defined in Article 1 of the Habitats Directive) would be affected, prior consultation with the European Commission is required unless the development is necessary for public health or safety reasons. These conditions also apply to any European protected species that may be present.

The Protection of Badgers Act 1992 provides protection to badgers and their setts from injury/fatality, damage and any form of disturbance; however, this does not extend to the protection of other habitats badgers may utilise.

The Natural Environment and Rural Communities (NERC) Act 2006 places an obligation on all Local Planning Authorities to conserve and protect biological diversity and the natural environment. Section 40 of the Act concerns biodiversity and states: 'Every public authority must, in exercising its functions, have regard, so far as is consistent with the proper exercising of those functions, to the purpose of conserving biodiversity.' The Act states that: 'it is important that public authorities seek not only to protect important habitats and species, but actively seek opportunities to enhance biodiversity through development proposals, where appropriate.' This legislation also details those species for each county that are of Principal Importance for Conservation of Biological Diversity.

UK Biodiversity Action Plans (UK BAP) do not provide any legal protection for the habitats or species listed but highlights those that are of conservation concern, detailing why they are of concern and the actions required to prevent further declines and to encourage habitat/population expansion. Three types of Action Plan (Species Action Plans (SAPs), Habitat Action Plans (HAPs) and Local Biodiversity Action Plans (LBAPs)) have been developed by the UK Biodiversity Action Plan steering group which set priorities for nationally and locally important habitats and wildlife. It is this BAP framework that forms the basis of the habitat and, to a certain extent, the species surveyed for this scheme.



The statutory basis for species and habitats listed in BAPs is provided by Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006. The UK and Hertfordshire Biodiversity Action Plans are relevant to the area surveyed.

Species of principal importance for the conservation of biodiversity in England (as identified under the Countryside and Rights of Way Act, 2000 (CROW Act, 2000)) should be protected from adverse impacts of development. To ensure that the habitats of these species are not adversely impacted upon, the planning authority may impose planning conditions or obligations.

## 2.1 Planning Policy

The National Planning Policy Framework (NPPF 2019) has been updated since revision A of this report and paragraphs 170 to 177 set out the Government's policies on protection of biodiversity through the planning system. These policies are expected to be incorporated into development planning documents at regional and local scales and are also of material worth in considering individual planning applications.

In relation to biodiversity, the NPPF states that '*Planning policies and decisions should contribute to and enhance the natural and local environment by:*

- 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);*
- b) recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland;*
- c) maintaining the character of the undeveloped coast, while improving public access to it where appropriate;*
- 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.*

The NPPF advises that the following principles should be applied by the Local Planning Authority when determining planning applications:

- a) 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;*
- b) development on land within or outside a Site of Special Scientific Interest, and which is likely to have an adverse effect on it (either individually or in combination with other developments), should not normally be permitted. The only exception is where the benefits of the development in the location proposed clearly outweigh both its likely impact on the features of the site that make it of special scientific interest, and any broader impacts on the national network of Sites of Special Scientific Interest;*



- c) *development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) should be refused, unless there are wholly exceptional reasons and a suitable compensation strategy exists; and*
- d) *development whose primary objective is to conserve or enhance biodiversity should be supported; while opportunities to incorporate biodiversity improvements in and around developments should be encouraged, especially where this can secure measurable net gains for biodiversity.*

## 3 Assessment Methodology

### 3.1 Desktop Study

To accurately assess the potential ecological impacts of the scheme, a desktop study has been undertaken to identify the presence of sensitive ecological receptors at the site and within the surrounding area. Data has been obtained from a range of information sources including:

- Multi-Agency Geographic Information for the Countryside (MAGIC);
- National Biodiversity Network (NBN);
- Hertfordshire Ecological Records Centre (HERC)

MAGIC maps have been used to obtain information relating to statutory and non-statutory conservation designation within close proximity to the site, with additional information supplied by the Hertfordshire Ecological Records Centre (HERC). Ecological data obtained from NBN and HERC provides data relating to protected and notable species recorded within the local area. Records made available by HERC can be found in Appendix B.

### 3.2 Ecological Walkover Survey

This assessment follows the methodology of a Phase 1 Habitat Survey, which aims to identify habitat features of value to different plant and animal groups. The methodology used for this survey implements those detailed by the Institute of Environmental Assessment (IEA) (1995) and the Joint Nature Conservation Committee (JNCC) (2010).

A site visit was completed to map general habitats present in the area. The survey also aimed to record any evidence of the species groups outlined below, including habitat features with the potential to support them:

- Nesting birds, particularly specially protected species;
- Animal species protected under UK legislation and European legislation;
- Invasive species, particularly Japanese Knotweed and Giant Hogweed which are listed under UK legislation.

This information allowed the requirement for more detailed species surveys to be evaluated.

## 4 Desktop Study

### 4.1 Statutory Designated Sites

#### Oxleys Wood Local Nature reserve (LNR)

Oxleys Wood LNR is approximately 1.1km to the north east of the Site. It has been identified an important site for woodland plants. Oak, ash, elm, willow and poplar are present and support a range of insects and bird species. A pond is present in the northern section of the wood which is wetter and often floods.

#### Colney Heath local Nature Reserve (LNR)

Colney Heath LNR is approximately 1.4km to the south west of the Site. This LNR is acid heathland and one of the few remaining in Hertfordshire. The site is 60ha in size and also classed as a Hertfordshire Heritage Site. The site is managed to maintain acid grassland.

#### Howe Dell Local Nature Reserve (LNR)

Howe Dell LNR is approximately 1.5km to the north east of the Site. This LNR is predominantly woodland comprising of mature hornbeam, oak and beech. There is a stream within the valley and during wetter months a lake forms from flood waters before draining into chalk aquifers. Wildflowers are present with the hay meadow only being cut once a year in the autumn.

#### 4.1.1 SSSI Impact Risk Zone

The Site is situated within an SSSI Impact Risk Zone for Water End Swallow Holes SSSI approximately 2.4km to the south east of the Site. We have considered the details of the Proposed Development and consultation with Natural England is not required for any residential proposals.

## 4.2 Non-Statutory

### 4.2.1 Local Wildlife Sites

There are twenty Local Wildlife Sites (LWS) within a 2km radius of the Site. Full details of these are attached in Appendix B. The closest LWS is Hazel Grove approximately 320m to the north of the Site.

### 4.2.2 Ancient Woodlands

There are three series listed on the Ancient Woodland Inventory within 2km of the Site. The nearest of these is Hazel Grove, approximately 320m to the north of the Site.

Ancient semi natural woodland consists of any wooded area which has been wooded continuously since at least 1600 AD and has protection under the National Planning Policy Framework. Ancient Woodlands are described as irreplaceable habitats as per Natural

England's standing advice which states 'Planning authorities should refuse planning permission for developments that would lead to loss or deterioration of irreplaceable habitats unless the need for, and benefits of, the development in that location clearly outweigh the loss'.

#### **4.2.3 Green Belt**

The Green Belt, as identified in the Welwyn Hatfield Local Plan, is approximately 150m to the south west of the Site.

#### **4.2.4 Community Forests**

The Site is within the north-east section of the Watling Chase Community Forest. Watling Chase extends over 18,840ha in Hertfordshire and the northern fringes of London and although predominantly rural, extends into several sizable settlements. Watling Chase edges most of south western Hatfield with only small section of the town within the Forest boundary.

### **4.3 Species Records**

Records of protected and notable species which have been identified within a boundary of the site have been provided by Hertfordshire Ecological Records Centre (HERC). Records submitted within a 2km radius of the Site since 1999 have been described below.

#### **4.3.1 European Protected Species**

##### **4.3.1.1 Mammals**

There are thirty-three records for bats within a 2km radius of the Site, including natterer's, noctule, common pipistrelle, soprano pipistrelle and brown long eared bats. The most recent records are from 2011.

##### **4.3.1.2 Amphibians**

There are fifty-eight records for great crested newts (GCN) within 2km of the Site. The most recent of these records is from 2011.

#### **4.3.2 Other Protected Species**

##### **4.3.2.1 Reptiles**

There are two records of slow-worm from 1999, one record of common lizard from 2004, and two records for grass-snake with the most recent being 2004. The closest records are approximately 1.5km to the south of the Site.

##### **4.3.2.2 Mammals**

There are nine records for badger within 2km of the Site. The most recent records are from 2014.

There are three records for West European hedgehog with the most recent being from 2015 approximately 800m to the north east of the Site.

#### **4.3.2.3 Birds**

One hundred and fifty-two species of bird have been recorded within 2km of the Site since 1999. Thirty-four of these species are protected under Schedule 1, Part 1 of the Wildlife and Countryside Act 1981 (as amended) and as such cannot be disturbed while they are breeding. It is illegal to intentionally damage or destroy the nest of all species of breeding bird.

### **4.4 Tree Preservation Orders (TPOs)**

Information obtained from the Welwyn Hatfield Council Interactive Website indicates that there are no tree preservation orders within, or immediately adjacent to the Site. The Site is not within any Conservation Areas.

This information can found online at: <http://www.welhat.gov.uk/index.aspx?articleid=2075>.

## 5 Site Survey Findings and Potential Impacts

A walkover survey was undertaken on the 13<sup>th</sup> July 2017 by a suitably qualified ecologist in fair weather conditions.

### 5.1 Habitats

Habitats recorded during the site survey have been categorised in line with JNCC Phase 1 Habitat Classification. The distribution of habitats across the sites is shown on the Phase 1 Habitat Plans attached in Appendix C. These habitat types are described within the following sub sections.

A selection of photographs taken during the walkover survey are included in Figure 2.

Figure 2: Photographs taken during the Site Walkover Survey



Area of tarmac and concrete hardstanding in the north-western section of the Site is of negligible ecological experience



Improved grassland in the northern section of the Site



Cherry suckers growing from a dominant adult tree within broadleaf woodland



Tall ruderal surrounded by woodland



### 5.1.1 Improved Grassland (JNCC Code: B4)

The northern section of the Site is dominated by improved grassland, previously used as amenity school playing fields. There is a strip of nettles approximately 2-3m depth from the garden boundaries on the eastern edge of the Site. Species present include:

- |                       |                              |
|-----------------------|------------------------------|
| • Cocksfoot           | <i>Dactylis glomerata</i>    |
| • Field bindweed      | <i>Convolvulus arvensis</i>  |
| • Hedge bindweed      | <i>Calystegia sepium</i>     |
| • Hogweed             | <i>Heracleum sphondylium</i> |
| • Long-leaf plantain  | <i>Plantago major</i>        |
| • Mallow              | <i>Malva sylvestris</i>      |
| • Common nettles      | <i>Urtica dioica</i>         |
| • Perennial rye grass | <i>Lolium perenne</i>        |
| • Ragwort             | <i>Jacobaea vulgaris</i>     |
| • Red clover          | <i>Trifolium pratense</i>    |
| • Spear thistle       | <i>Cirsium vulgare</i>       |
| • Yarrow              | <i>Achillea millefolium</i>  |

### 5.1.2 Tall Ruderal (JNCC Code: C3.1)

Nettles dominate an area approximately 780m<sup>2</sup> within the southern section of the Site, with some cocksfoot, perennial rye grass, spear thistle and hedge bindweed. These species are of value to pollinating species such as butterflies and bees which were also recorded during the survey.

### 5.1.3 Broadleaf Plantation (JNCC Code: A1.1.2) and Semi-Natural Woodland (JNCC Code: A1.1.1)

Areas of trees have been planted within the Site and are currently transitioning into semi-natural woodland with a scrubby understory. Mature cherry trees have produced suckers over extensive areas. An old hedgerow divides the Site into two distinct section, this has been unmanaged and is now a row of trees along a metal fence including Norway maple, hawthorn and ash.

Trees recorded within the Site include:

- |                |                           |
|----------------|---------------------------|
| • Ash          | <i>Fraxinus excelsior</i> |
| • Dogwood      | <i>Cornus sanguinea</i>   |
| • English oak  | <i>Quercus robur</i>      |
| • Field maple  | <i>Acer campestre</i>     |
| • Hawthorn     | <i>Crataegus monogyna</i> |
| • Hazel        | <i>Corylus avellana</i>   |
| • Holly        | <i>Illex spp.</i>         |
| • Hornbeam     | <i>Carpinus betulus</i>   |
| • Norway maple | <i>Acer platanoides</i>   |
| • Plum         | <i>Prunus spp.</i>        |
| • Silver birch | <i>Betula pendula</i>     |
| • Wild cherry  | <i>Prunus avium</i>       |



#### 5.1.4 Scattered Broadleaf Parkland Trees (A3.1)

There is a mature red oak (*Quercus rubra*) tree in the north-western section of the Site, and a copper beech in the garden adjacent to the eastern boundary. A row of hornbeam, Norway maple, sycamore and ash have been planted within the park along the southern boundary of the Site. Branches from these trees overhang the site boundary. These trees are all of good ecological value and have been described further in the Arboricultural Survey Report (RE70091V002).

#### 5.1.5 Species Poor Broadleaf Hedgerow (JNCC Code: J2.1.2)

A hawthorn hedgerow forms the north-western boundary of the Site. This has been regularly managed. A hedgerow made up of hawthorn, field maple, elder and hedge bindweed forms the boundary between the Site and residential properties to the east.

#### 5.1.6 Hard Standing (JNCC Code: J4)

An area approximately 350m<sup>2</sup> of tarmac and concrete hardstanding is present. This is of negligible ecological value and is not considered further within the ecology report.

### 5.2 Species

#### 5.2.1 Breeding Birds

Trees and shrub vegetation are of value to nesting birds. One nest was identified in a large field maple tree and was observed for signs of adults or fledglings. It is unconfirmed if this nest is currently in use.

Bird activity recorded during the survey included blackbird, wood pigeon, wren, and robin. High levels of activity could be heard within the woodland areas of the Site during the survey.

All nesting birds are protected under the Wildlife and Countryside Act 1981 (as amended).

#### 5.2.2 Bats

There are no buildings within the Site, although surrounding houses could provide potential roosting sites. One field maple showed potential roost features for small crevice dwelling species and is within a cluttered section of woodland. The Site has potential for foraging bats along the southern boundary which forms a continuous linear feature within the surrounding landscape.

All species of bat in the UK receive full protection under Schedule 2 of the Conservation of Habitats and Species Regulations (2017) and Schedule 5 of the Wildlife and Countryside Act 1981 (as amended).

#### 5.2.3 Reptiles

No reptiles were identified during the walkover survey but there is some suitable habitat within the Site. Areas of grassland adjacent to gardens may provide suitable basking habitat for common species such as slow worm or common lizard.

All reptiles are protected under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended) against intentional killing or injuring.

#### **5.2.4 Great Crested Newts**

No ponds were identified within the Site or within 500m of the boundary. The nearest ponds have been located via online OS maps approximately 720m to the south west, and 850m to the south east. GCN have a range of approximately 500m between breeding ponds and terrestrial hibernation habitat.

Due to the distance of these ponds from the Site, and presence of barriers in the form of large busy roads, GCN have been scoped out within the Site.

#### **5.2.5 Badgers**

No signs of badgers were observed within the Site. An extended walkover was completed through the park to the south of the Site and within woodland areas. No setts were identified; however, the landscape provides a matrix of habitats that are beneficial to foraging badgers and they are likely present.

Badgers and their setts are protected under the Protection of Badgers Act 1992 from injury/fatality, damage and any form of disturbance.

## 6 Likely Impacts

The survey identified ecological features within the Site boundary. The Site consists of improved grassland, tall ruderal, broadleaf woodland and a small area of hardstanding.

Current proposals for the Site include residential development with associated carparking and landscaping. The southern section of the Site is being considered for a SuDS scheme. An updated Masterplan is attached in Appendix A and has been used as a basis for assessing the likely impacts within the Site.

### 6.1 Designated Sites

There are no likely impacts on statutory designated sites of nature conservation, however there may be some minor recreational impacts to local wildlife sites. These are considered to be negligible due to the marginal scale of possible development within the Site.

### 6.2 Habitats

The construction of a residential development will impact on the following habitats within the Site:

- Improved grassland
- Hardstanding
- Broadleaf woodland
- Broadleaf hedgerow
- Tall ruderal

### 6.3 Species

The removal of trees and woodland will likely impact on breeding birds. There is also the potential to impact upon foraging bats from the removal of trees, and additional lighting during construction. Cracks and broken limbs of trees are potential roosting features for smaller bat species and therefore removal of these trees may impact these species.

Construction may impact upon foraging badgers which are likely present in the surrounding landscape. No further surveys are required, however suitable mitigation measures have been recommended in Section 8.

## 7 Further Survey Requirements

Further to the impacts identified in Section 6, protected species surveys with respect of roosting bats are required if any of the larger trees are to be removed. Further surveys for reptiles are also recommended.

### 7.1 Bats

Mature trees should be checked by a licenced bat ecologist for any signs of bats including droppings, oil staining or bats themselves prior to removal.

### 7.2 Reptiles

A series of 7-day presence/absence surveys was previously recommended around the perimeter of the playing field and along the south western section the Site where suitable reptile habitat has been identified. 5-10 survey refugia made of 0.5m<sup>2</sup> roofing felt or corrugated tin will be placed per hectare of suitable reptile habitat. Suitable locations include the Site boundaries, and alongside areas of woodland where they are suitably connected to the wider environment. This will provide data on the number and range of species present. An accurate impact assessment of the scheme can then be undertaken, and suitable mitigation measures drawn up.

These survey recommendations are in accordance with the Herpetofauna Workers manual (2003) and Froglife Advice Sheet 10 (1999). The results of these surveys will also identify the presence of any common amphibian species.

\*note – further surveys for reptiles were completed in 2018 and identified likely absence within the Site (full details in the Protected Species Survey report – RE70091V003)

## 8 Mitigation and Ecological Enhancement Measures

### 8.1 Mitigation Measures

The following mitigation measures have been proposed to minimise the potential ecological impacts during construction and redevelopment of the Site. These will need to be updated on receipt of the final development plan if there are any substantial changes.

If any protected species, including birds' nests, are found during the works, construction in that area should stop immediately and an ecological specialist should be consulted. This is in line with UK legislation.

#### 8.1.1 Trees and Woodland

Tree and vegetation clearance should be completed outside of the breeding bird season (March to September) and correspond with the mitigation outlined below in section 8.2.

Where trees are to be retained, the root protection areas should be protected with suitable fencing. Protective fencing may also be required to protect scattered trees which are located within the park during construction works. Full details regarding tree protection have been outlined within the Arboricultural Survey (RE70091V002).

To mitigate for the loss of any trees removed, replanting of native species of tree and shrubs should be considered within the design plans. This will also mitigate towards the loss of breeding bird habitat.

#### 8.1.2 Breeding Birds

Trees and woodland have the potential to support breeding birds. Any construction or clearance works impacting on these areas should be completed outside of the breeding bird season (March- September).

If this is not possible then the works will require an ecological brief to ensure that the structures are clear of nests. If any active nests are located, then works will be required to stop until a 5m radius around the nest has been screened off from construction. Any works within this area will only be permitted to continue after the chicks have fledged.

Mitigation for the loss of breeding bird habitat will be required within the landscaping plan through the inclusion of native trees and shrubs. In addition, bird boxes will be required while replacement planting matures. The Schwegler 1B Bird Box (Figure 3) can be affixed to retained trees and they are suitable for smaller species such as house sparrows and great tits.

It is recommended that bird bricks should be built into houses which have a north east facing wall. They should be built at 2 - 5m from the ground to avoid predators, facing between north and east to avoid direct sunlight or rain during heavy winds. Suitable designs can be found at Bird Brick Houses (<http://www.birdbrickhouses.co.uk/shop/>) and are available in a range of suitable designs to fit in with the proposed development. Figure 4 below or similar would be suitable for smaller birds such as house sparrows and members of the tit family.

Figure 3: Schwegler 1B Bird Box



Figure 4: Bird brick suitable for small bird species such as tree sparrows



### 8.1.3 Reptiles

Further surveys for reptiles were completed in 2018 and identified likely absence within the Site (full details in the Protected Species Survey report – RE70091V003). Therefore, no mitigation for common reptile species is required.

### 8.1.4 Badgers

Contractors should be made aware of the possible presence of badgers both within and adjacent to the Site. The Site should be kept clean and tidy overnight to discourage badgers from trying to enter construction zones. Food should be kept locked away. If ditches are left open overnight, a piece of scaffold board should be angled within the ditch so that animals can escape and do not get trapped if they fall in.

## 8.2 Ecological Enhancement

The following recommendations have been made to further enhance the ecological value of the Site in line with the current National Planning Policy Framework (2019).

Examples of ecological enhancement include –

- Planting of trees and shrubs in addition to that required for mitigation;
- Wildflower planting to enhance the site for pollinating insects such as bumble bees and butterflies; and
- Invertebrate log piles could also be created using timber from trees felled within the proposed development.



## 9 Summary

The Site is located within a SSSI Impact Risk Zone. We have considered potential impacts and consultation with Natural England will not be required.

The Site extends to approximately 0.95 ha and consists of improved grassland, broadleaf scattered trees, woodland and hedgerows, hard standing, and tall ruderal species.

An outline development proposal includes residential properties with associated roadways, gardens, parking areas and landscaping. A SuDS area is being considered within the southern section of the Site.

Areas suitable for breeding birds were recorded during the walkover survey. No further surveys are required, and mitigation measures have been drawn up.

Suitable habitat for reptiles has been identified within the Site. Further presence/absence surveys were completed in 2018 and identified that common reptile species are likely absent from the Site.

Additional surveys have been recommended with regards to roosting bats prior to any mature trees being removed.

No evidence of badgers was identified within the Site or immediate surrounding parkland; however, a suitable matrix of habitats for badger foraging is present. Suitable mitigation to avoid harming badgers that may enter the Site during construction have been recommended.

Mitigation measures have been considered in relation to potential impacts and will require updating upon receipt of the final design plans.

## 10 Ecological Report Limitations

The information reported herein is based only, on the interpretation of data collected during the desk study investigations and the site visit. This work pertains specifically to the identification of protected species on the proposed site. Information provided to Pell Frischmann by Hertfordshire Ecological Records Centre and other statutory information sources has been accepted as being accurate and valid.

This report has been prepared by Pell Frischmann with all reasonable skill, care and diligence, and taking account of the manpower and resources devoted to it by agreement with the client.

The evaluation and conclusions do not preclude the existence of protected species, which could not reasonably have been revealed by the comprehensive desk studies and site visit. Hence, this report should be used for information purposes only and should not be construed as a comprehensive characterisation of all site habitats.

In addition, this report details only the conditions on site, at the time of reporting. The dynamic nature of the natural environment will result in changes to the surrounding environment as seasons change. No responsibility is taken by Pell Frischmann to the existence of additional species identified on this site at a later date.

This report has been prepared solely for the use of Hertfordshire County Council and may not be relied upon by other parties without written consent from Pell Frischmann. In addition, it must be understood that this report does not constitute legal advice.

Pell Frischmann disclaims any responsibility to the client and others in respect of any matters outside the agreed scope of the work.

## 11 References

HERC Ecological Data Search Ref 201707\_009 (07/07/2017)

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Welwyn Hatfield Local Plan [Online].

Available: <http://welhat.gov.uk/localplanbackground>

# Appendix A

## Masterplan





**schedule of accommodation**

unit type	gfa
1-bed flat	45 sq.m
2-bed flat	63 sq.m
2-bed house	67 sq.m
3-bed house	85 sq.m
4-bed house	120 sq.m

**total number of units: 39**

**mix ratio:**  
04x1-bed flats = 10%  
16x 2-bed flats = 41%  
06x2-bed house = 15%  
08x3-bed house = 21%  
05x4-bed house = 13%

**total number of parking spaces: 71**

**Key**

- Cat. A tree to be retained
- Cat. B tree to be removed
- Cat. B tree to be retained
- Proposed Tree
- Existing Service Water Pipe
- Existing Public Sewer Pipe
- Swale
- Retention Basin

apartment block , first floor plan  
1:500

rev	date	by	description	chkd

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job title  
**Filbert Close  
Hatfield**  
drawing title  
**Site Plan as Proposed**

drawing status  
**PLANNING SUBMISSION**

drawn by	date	chk'd by	scale
RL	17/08/2018	SM	1:250

job no.	drawing no.	revision	media
8230	70-008	P3	A1

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Do not scale from drawing, use figured dimensions only.  
All dimensions to be checked on site.  
ISO 9001: 2015. Quality Management  
ISO 14001: 2015. Environmental Management  
PAS 1192-2: 2013. Building Information Modelling



## **Appendix B**

### Ecological Data Records

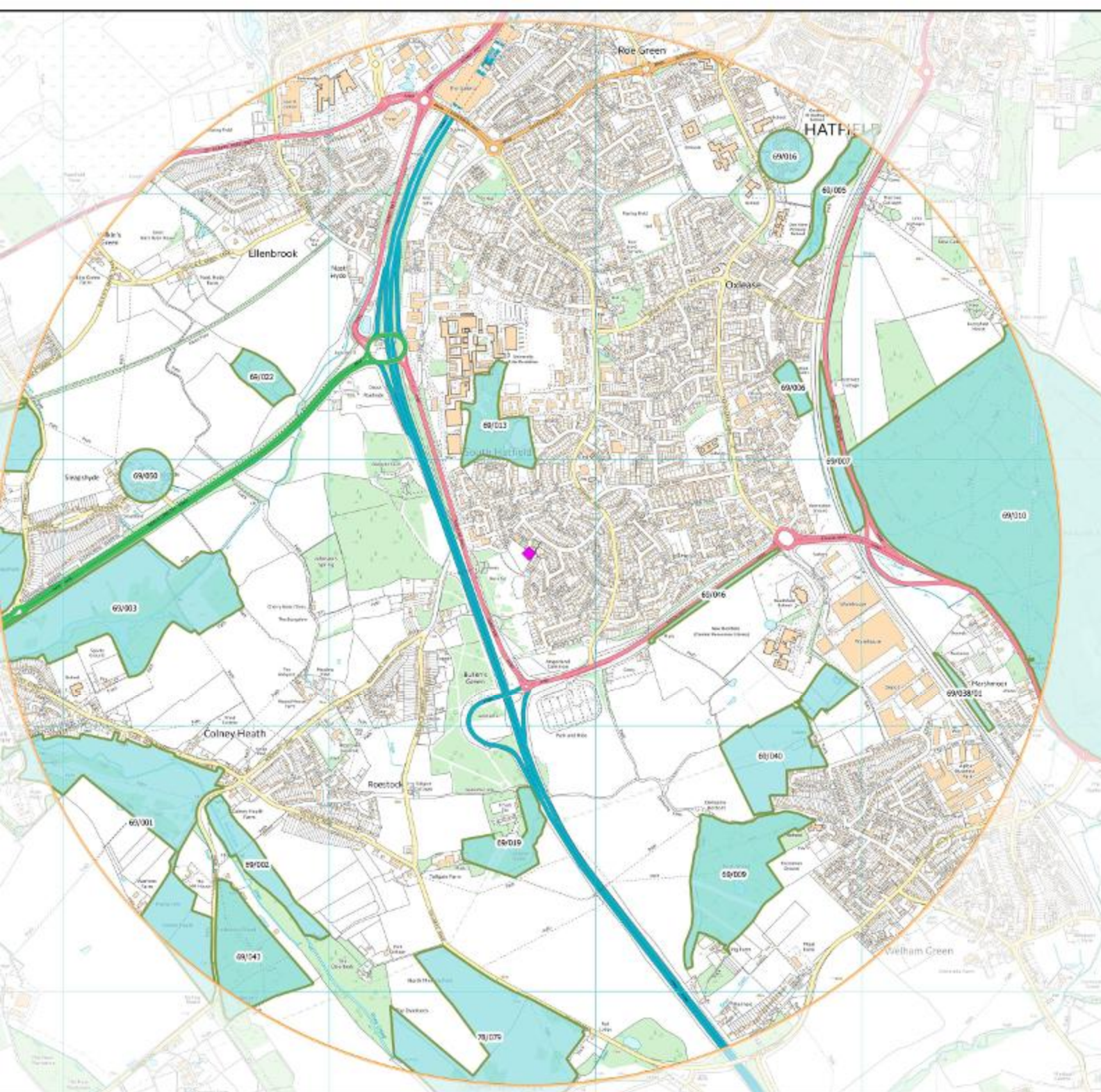
## Local Sites Map 1

### Search Information

-  Search area
-  Search point

### Local Sites

-  Local Wildlife Sites



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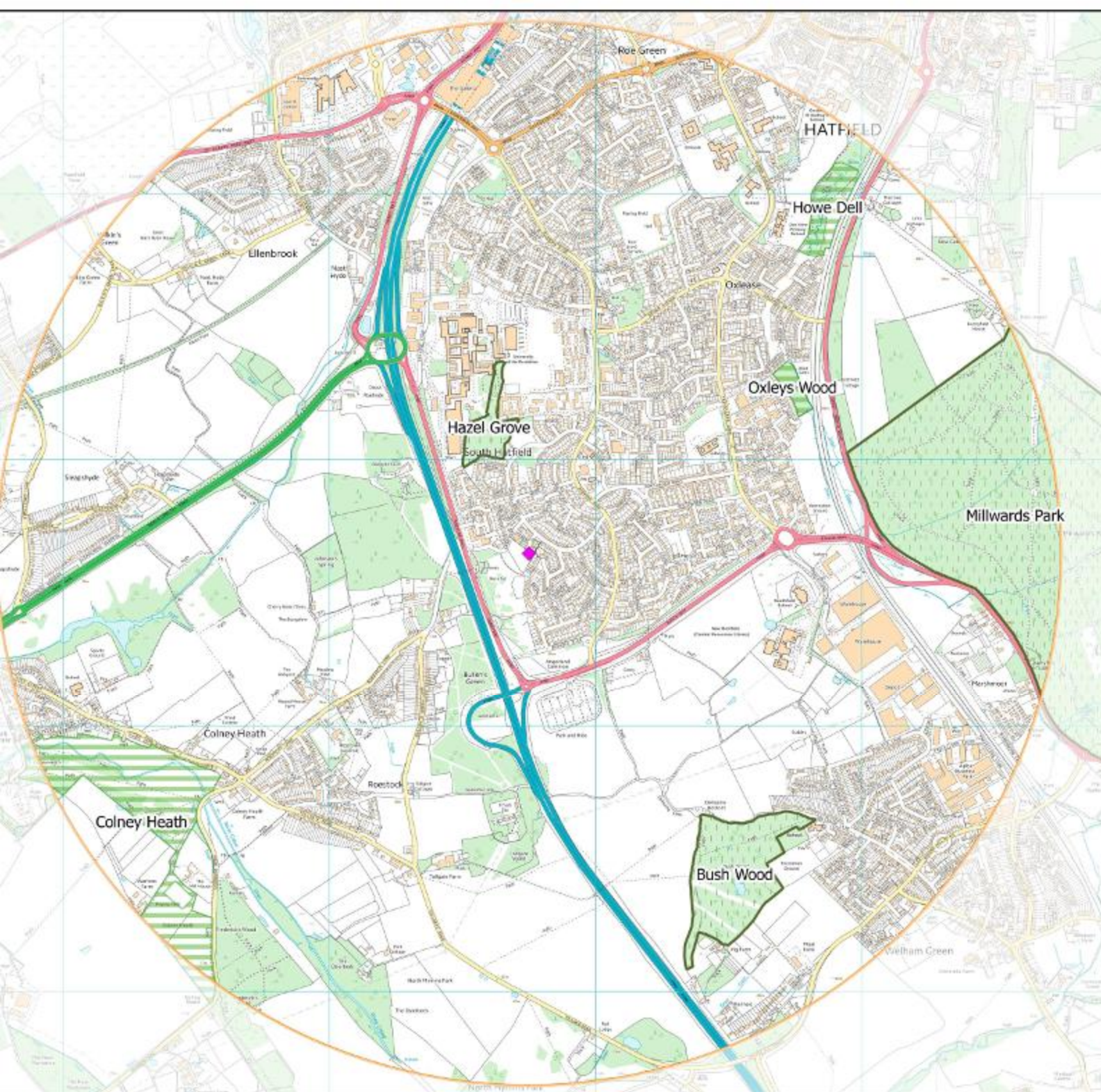
## National Sites Map 1

### Search Information

-  Search area
-  Search point

### National Sites

-  Ancient Woodland Inventory
-  Statutory Sites
-  LNR



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# Herts Environmental Record Centre

Distance (m)	Common Name	Scientific Name	Taxon Group	Grid Reference	Earliest Record	Latest Record	Number of Records	European	UK Legal	NERC	BAP2007	IUCN	Scarce Rare	Berne Bonn Birds Dir	Local Status	WCA9	Status Designations
100	White-letter Hairstreak	<i>Satyrrium w-album</i>	insect - butterfly	TL217065	24/07/1998	24/07/1998	2			x	x	x					Sect.41;BAP-2007;RLGB.EN
360	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL215063	08/07/1998	08/07/1998	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
430	Swift	<i>Apus apus</i>	bird	TL21370643	01/01/2010	01/01/2010	2					x					BAmb
510	Field Scabious	<i>Knautia arvensis</i>	flowering plant	TL212067	08/07/1988	08/07/1988	1					x					RDBEN.NT
560	Red Kite	<i>Milvus milvus</i>	bird	TL213062	08/01/2011	08/01/2011	1	x						x		x	WCA1i;BD1, CMS_A2;WCA9
560	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	TL213062	21/04/2003	21/04/2003	1					x					BAmb
560	Redwing	<i>Turdus iliacus</i>	bird	TL213062	17/10/2011	17/10/2011	1	x			x						WCA1i;BRed
560	Fieldfare	<i>Turdus pilaris</i>	bird	TL213062	19/01/2012	19/01/2012	1	x			x						WCA1i;BRed
610	Song Thrush	<i>Turdus philomelos</i>	bird	TL216072	17/01/2006	17/01/2006	1				x	x					LBAP;BRed
610	White-letter Hairstreak	<i>Satyrrium w-album</i>	insect - butterfly	TL216072	09/07/1999	09/07/1999	2			x	x	x					Sect.41;BAP-2007;RLGB.EN
630	Marsh Ragwort	<i>Senecio aquaticus</i>	flowering plant	TL215060	21/08/1994	21/08/1994	1					x					RDBEN.NT
640	White-letter Hairstreak	<i>Satyrrium w-album</i>	insect - butterfly	TL212062	15/06/2011	15/06/2011	1			x	x	x					Sect.41;BAP-2007;RLGB.EN
780	Red Kite	<i>Milvus milvus</i>	bird	TL211071	03/04/2014	03/04/2014	1	x						x		x	WCA1i;BD1, CMS_A2;WCA9
800	Cornflower	<i>Centaurea cyanus</i>	flowering plant	TL209066	05/08/1989	05/08/1989	1			x	x						Sect.41;BAP-2007, LBAP
810	Pelodytes caesus	<i>Pelodytes caesus</i>	insect - beetle (Coleoptera)	TL224062	16/05/2001	16/05/2001	1						x				NS-excludes
830	Red Kite	<i>Milvus milvus</i>	bird	TL215074	22/10/2015	22/10/2015	1	x						x		x	WCA1i;BD1, CMS_A2;WCA9
830	Grey Wagtail	<i>Motacilla cinerea</i>	bird	TL215074	18/03/2014	18/03/2014	1					x		x			BRed;Bern2
830	Osprey	<i>Pandion haliaetus</i>	bird	TL215074	19/01/2003	14/02/2003	2	x				x		x			WCA1i;BAmb;BD1, CMS_A2
830	Firecrest	<i>Regulus ignicapilla</i>	bird	TL215074	19/01/2003	19/01/2003	1	x						x			WCA1i;Bern2
830	Tawny Owl	<i>Strix aluco</i>	bird	TL215074	09/02/2003	09/02/2003	1					x		x			BAmb;Bern2
890	Pelodytes caesus	<i>Pelodytes caesus</i>	insect - beetle (Coleoptera)	TL225062	03/11/2000	03/11/2000	1						x				NS-excludes
900	West European Hedgehog	<i>Erinaceus europaeus</i>	terrestrial mammal	TL221074	29/07/2015	29/07/2015	1			x	x						Sect.41;BAP-2007
920	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL210060	20/08/2011	20/08/2011	1			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
950	Pied Wagtail	<i>Motacilla alba subsp. yarrellii</i>	bird	TL214075	23/03/2015	23/03/2015	1							x			Bern2
1000	Shepherd's-needle	<i>Scandix pecten-veneris</i>	flowering plant	TL207066	01/06/1993	1996	2			x	x	x					Sect.41;BAP-2007;RDBEN.EN
1000	Song Thrush	<i>Turdus philomelos</i>	bird	TL216056	08/08/2000	08/08/2000	1				x	x					LBAP;BRed
1000	Tree Sparrow	<i>Passer montanus</i>	bird	TL225060	12/08/1986	12/08/1986	1			x	x	x					Sect.41;BAP-2007, LBAP;BRed
1000	Canadian Waterweed	<i>Elodea canadensis</i>	flowering plant	TL225060	12/08/2004	12/08/2004	1									x	WCA9
1000	Medlar	<i>Mespilus germanica</i>	flowering plant	TL225060	12/08/2004	12/08/2004	1						x				NS-excludes
1030	Blunt-leaved Pondweed	<i>Potamogeton obtusifolius</i>	flowering plant	TL212075	24/06/1992	24/06/1992	1								x		Herts Rare
1080	Scarodytes halensis	<i>Scarodytes halensis</i>	insect - beetle (Coleoptera)	TL211075	16/09/2002	16/09/2002	1						x				NS-excludes
1100	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL206065	08/08/1997	08/08/1997	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1100	Bramble	<i>Rubus britannicus</i>	flowering plant	TL217055	08/08/2000	08/08/2000	1					x					NR-excludes
1100	Swift	<i>Apus apus</i>	bird	TL22260761	16/07/2013	16/07/2013	4					x					BAmb
1120	Swift	<i>Apus apus</i>	bird	TL22410754	01/01/2007	01/01/2007	1					x					BAmb
1140	Swift	<i>Apus apus</i>	bird	TL220077	2008	2008	1					x					BAmb
1140	Greenfinch	<i>Chloris chloris</i>	bird	TL220077	2008	2008	1							x			Bern2
1140	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	bird	TL220077	2008	2008	1					x					BAmb
1140	Stock Dove	<i>Columba oenas</i>	bird	TL220077	2008	2008	1					x					BAmb
1140	Blue Tit	<i>Cyanistes caeruleus</i>	bird	TL220077	2008	2008	1							x			Bern2
1140	Robin	<i>Erithacus rubecula</i>	bird	TL220077	2008	2008	1							x			Bern2
1140	Green Woodpecker	<i>Picus viridis</i>	bird	TL220077	2008	2008	1							x			Bern2
1140	Dunnoch	<i>Prunella modularis</i>	bird	TL220077	2008	2008	1					x		x			BAmb;Bern2
1140	Song Thrush	<i>Turdus philomelos</i>	bird	TL220077	2008	2008	1				x	x					LBAP;BRed
1140	Field Pepperwort	<i>Lepidium campestre</i>	flowering plant	TL228063	25/05/1996	25/05/1996	1					x					RDBEN.NT
1170	Shepherd's-needle	<i>Scandix pecten-veneris</i>	flowering plant	TL206062	1992	1992	1			x	x	x					Sect.41;BAP-2007;RDBEN.EN



# Herts Environmental Record Centre

Distance (m)	Common Name	Scientific Name	Taxon Group	Grid Reference	Earliest Record	Latest Record	Number of Records	European	UK Legal	NERC	BAP2007	IUCN	Scarce Rare	Berne Bonn Birds Dir	Local Status	WCA9	Status Designations
1200	Aquarius paludum	<i>Aquarius paludum</i>	insect - true bug (Hemiptera)	TL205065	1947	1947	1						x				Nb
1200	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL205066	18/06/1996	Jul-96	4			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1200	Mat-grass	<i>Nardus stricta</i>	flowering plant	TL205067	1988	1988	1					x					RDBEN.NT
1200	Ragged-Robin	<i>Lychnis flos-cuculi</i>	flowering plant	TL229067	1989	1989	1					x					RDBEN.NT
1200	Lesser Spearwort	<i>Ranunculus flammula</i>	flowering plant	TL229067	1989	1989	1					x					RDBEN.VU
1200	Marsh Ragwort	<i>Senecio aquaticus</i>	flowering plant	TL229067	1989	1989	1					x					RDBEN.NT
1220	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	TL207073	13/07/1988	14/08/1996	2		x								WCA8
1220	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	TL227073	19/05/2005	19/05/2005	1		x								WCA8
1220	Whorled Water-milfoil	<i>Myriophyllum verticillatum</i>	flowering plant	TL227073	19/05/2005	19/05/2005	2					x					RDBEN.NT
1220	Ragged-Robin	<i>Lychnis flos-cuculi</i>	flowering plant	TL229068	June 1989 - August 1989	June 1989 - August 1989	1					x					RDBEN.NT
1230	Swift	<i>Apus apus</i>	bird	TL22690743	01/01/2011	01/01/2011	1					x					BAmb
1240	West European Hedgehog	<i>Erinaceus europaeus</i>	terrestrial mammal	TL214078	15/09/1999	15/09/1999	1			x	x						Sect.41;BAP-2007
1240	Three-cornered Garlic	<i>Allium triquetrum</i>	flowering plant	TL229063	Jun-88	Jun-88	1									x	WCA9
1250	Bramble	<i>Rubus norvicensis</i>	flowering plant	TL223055	21/07/2003	21/07/2003	1								x		Herts Rare
1250	White-letter Hairstreak	<i>Satyrus w-album</i>	insect - butterfly	TL228072	24/07/1998	24/07/1998	2			x	x	x					Sect.41;BAP-2007;RLGB.EN
1270	West European Hedgehog	<i>Erinaceus europaeus</i>	terrestrial mammal	TL213078	02/08/2000	02/08/2000	1			x	x						Sect.41;BAP-2007
1270	Harebell	<i>Campanula rotundifolia</i>	flowering plant	TL229070	05/08/1988	05/08/1988	1					x					RDBEN.NT
1270	Ragged-Robin	<i>Lychnis flos-cuculi</i>	flowering plant	TL229070	05/08/1988	05/08/1988	1					x					RDBEN.NT
1270	Lesser Spearwort	<i>Ranunculus flammula</i>	flowering plant	TL229070	05/08/1988	05/08/1988	1					x					RDBEN.VU
1280	Goldfinch	<i>Carduelis carduelis</i>	bird	TL227058	06/08/2015	06/08/2015	1							x			Bern2
1280	Swallow	<i>Hirundo rustica</i>	bird	TL227058	06/08/2015	06/08/2015	1							x			Bern2
1280	House Sparrow	<i>Passer domesticus</i>	bird	TL227058	06/08/2015	06/08/2015	1			x	x	x					Sect.41;BAP-2007;BRed
1280	Green Woodpecker	<i>Picus viridis</i>	bird	TL227058	06/08/2015	06/08/2015	1							x			Bern2
1280	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	TL227058	06/08/2015	06/08/2015	1			x	x						Sect.41;BAP-2007
1300	Sharp-toothed Hawkweed	<i>Hieracium sabaudum</i>	flowering plant	TL204065	Aug-92	Aug-92	1					x					RDBEN.EN
1300	Silver Hair-grass	<i>Aira caryophyllea</i>	flowering plant	TL230065	1988	1988	1								x		Herts Vulnerable
1300	Field Pepperwort	<i>Lepidium campestre</i>	flowering plant	TL230065	1988	1988	1					x					RDBEN.NT
1310	Lesser Redpoll	<i>Acanthis cabaret</i>	bird	TL204064	22/03/2011	17/12/2015	10			x	x	x					Sect.41;BAP-2007;BRed
1310	Common (Mealy) Redpoll	<i>Acanthis flammea</i>	bird	TL204064	02/02/2014	02/02/2014	1							x			Bern2
1310	Sparrowhawk	<i>Accipiter nisus</i>	bird	TL204064	10/04/2011	17/10/2015	3							x			CMS_A2
1310	Kingfisher	<i>Alcedo atthis</i>	bird	TL204064	12/01/2014	29/08/2015	4		x			x		x			WCA1i;BAmb;BD1, Bern2
1310	Meadow Pipit	<i>Anthus pratensis</i>	bird	TL204064	16/02/2001	16/02/2001	1					x		x			BAmb;Bern2
1310	Swift	<i>Apus apus</i>	bird	TL204064	10/05/2011	08/05/2014	3					x					BAmb
1310	Little Owl	<i>Athene noctua</i>	bird	TL204064	28/09/2011	23/03/2015	4							x			Bern2
1310	Tufted Duck	<i>Aythya fuligula</i>	bird	TL204064	18/08/2013	18/08/2013	1							x			CMS_A2
1310	Buzzard	<i>Buteo buteo</i>	bird	TL204064	14/09/2003	22/09/2014	28							x			CMS_A2
1310	Goldfinch	<i>Carduelis carduelis</i>	bird	TL204064	01/01/2001	06/02/2015	6							x			Bern2
1310	Treecreeper	<i>Certhia familiaris</i>	bird	TL204064	09/07/2011	02/02/2015	3							x			Bern2
1310	Greenfinch	<i>Chloris chloris</i>	bird	TL204064	29/01/2011	29/01/2011	1							x			Bern2
1310	Cuckoo	<i>Cuculus canorus</i>	bird	TL204064	20/04/2011	28/04/2013	2			x	x	x					Sect.41;BAP-2007;BRed
1310	House Martin	<i>Delichon urbicum</i>	bird	TL204064	20/08/2015	20/08/2015	1					x		x			BAmb;Bern2
1310	Little Egret	<i>Egretta garzetta</i>	bird	TL204064	24/01/2011	30/12/2015	26							x			BD1, Bern2
1310	Yellowhammer	<i>Emberiza citrinella</i>	bird	TL204064	05/06/2012	05/06/2012	1			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2
1310	Reed Bunting	<i>Emberiza schoeniclus</i>	bird	TL204064	19/01/2013	20/01/2013	2			x	x	x		x			Sect.41;BAP-2007;BAmb;Bern2
1310	Hobby	<i>Falco subbuteo</i>	bird	TL204064	10/09/2003	10/07/2013	9		x					x			WCA1i;Bern2, CMS_A2
1310	Brambling	<i>Fringilla montifringilla</i>	bird	TL204064	28/03/2013	11/04/2013	9		x								WCA1i



# Herts Environmental Record Centre

Distance (m)	Common Name	Scientific Name	Taxon Group	Grid Reference	Earliest Record	Latest Record	Number of Records	European	UK Legal	NERC	BAP 2007	IUCN	Scarce Rare	Berne Bonn Birds Dir	Local Status	WCA9	Status Designations
1310	Snipe	<i>Gallinago gallinago</i>	bird	TL204064	04/02/2012	04/02/2012	1					x		x			BAmb;CMS_A2
1310	Oystercatcher	<i>Haematopus ostralegus</i>	bird	TL204064	23/06/2012	23/06/2012	1					x					BAmb
1310	Swallow	<i>Hirundo rustica</i>	bird	TL204064	21/04/2012	12/04/2015	4							x			Bern2
1310	Linnet	<i>Linaria cannabina</i>	bird	TL204064	21/04/2011	21/04/2011	1					x		x			BRed;Bern2
1310	Red Kite	<i>Milvus milvus</i>	bird	TL204064	04/01/2011	30/12/2015	80	x						x		x	WCA1i;BD1, CMS_A2;WCA9
1310	Grey Wagtail	<i>Motacilla cinerea</i>	bird	TL204064	12/05/2014	20/03/2015	2					x		x			BRed;Bern2
1310	Monk Parakeet	<i>Myiopsitta monachus</i>	bird	TL204064	08/07/2003	08/07/2003	1									x	WCA9
1310	Wheatear	<i>Oenanthe oenanthe</i>	bird	TL204064	16/04/2013	04/05/2015	2							x			Bern2
1310	Osprey	<i>Pandion haliaetus</i>	bird	TL204064	01/07/2014	01/07/2014	1	x				x		x			WCA1i;BAmb;BD1, CMS_A2
1310	Tree Sparrow	<i>Passer montanus</i>	bird	TL204064	08/02/2011	13/04/2015	34			x	x	x					Sect.41;BAP-2007, LBAP;BRed
1310	Redstart	<i>Phoenicurus phoenicurus</i>	bird	TL204064	13/04/2014	13/04/2014	1					x		x			BAmb;Bern2
1310	Green Woodpecker	<i>Picus viridis</i>	bird	TL204064	12/01/2014	12/01/2014	1							x			Bern2
1310	Golden Plover	<i>Pluvialis apricaria</i>	bird	TL204064	11/01/2003	04/02/2003	2							x			BD1, CMS_A2
1310	Grey Plover	<i>Pluvialis squatarola</i>	bird	TL204064	03/02/2011	03/02/2011	1					x		x			BAmb;CMS_A2
1310	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	TL204064	21/04/2003	09/05/2015	9					x					BAmb
1310	Firecrest	<i>Regulus ignicapilla</i>	bird	TL204064	10/04/2013	10/04/2013	1	x						x			WCA1i;Bern2
1310	Goldcrest	<i>Regulus regulus</i>	bird	TL204064	28/05/2011	12/12/2014	2							x			Bern2
1310	Stonechat	<i>Saxicola rubicola</i>	bird	TL204064	26/02/2001	26/02/2001	1							x			Bern2
1310	Nuthatch	<i>Sitta europaea</i>	bird	TL204064	01/10/2003	15/11/2003	2							x			Bern2
1310	Siskin	<i>Spinus spinus</i>	bird	TL204064	01/01/2011	19/12/2015	43							x			Bern2
1310	Starling	<i>Sturnus vulgaris</i>	bird	TL204064	09/07/2003	09/07/2003	1					x					BRed
1310	Green Sandpiper	<i>Tringa ochropus</i>	bird	TL204064	08/12/2012	11/10/2015	6	x				x		x			WCA1i;BAmb;Bern2, CMS_A2
1310	Redwing	<i>Turdus iliacus</i>	bird	TL204064	24/01/2011	21/12/2015	8	x				x					WCA1i;BRed
1310	Song Thrush	<i>Turdus philomelos</i>	bird	TL204064	08/01/2011	08/01/2011	1					x	x				LBAP;BRed
1310	Fieldfare	<i>Turdus pilaris</i>	bird	TL204064	08/01/2011	02/12/2015	19	x				x					WCA1i;BRed
1310	Barn Owl	<i>Tyto alba</i>	bird	TL204064	02/02/2003	02/02/2003	1	x						x			WCA1i;Bern2
1310	Lapwing	<i>Vanellus vanellus</i>	bird	TL204064	08/04/2013	08/04/2013	1			x	x	x		x			Sect.41;BAP-2007;BRed;CMS_A2
1310	White-letter Hairstreak	<i>Satyrion w-album</i>	insect - butterfly	TL216079	24/07/2013	24/07/2013	1			x	x	x					Sect.41;BAP-2007;RLGB.EN
1310	Leek Moth	<i>Acrolepiopsis assectella</i>	insect - moth	TL216079	18/07/2008	18/07/2008	1								x		Herts Rare (M)
1310	Grey Dagger	<i>Acrionicta psi</i>	insect - moth	TL216079	26/05/2009	17/06/2012	3			x	x						Sect.41;BAP-2007
1310	Knot Grass	<i>Acrionicta rumicis</i>	insect - moth	TL216079	01/08/2009	14/05/2014	4			x	x						Sect.41;BAP-2007
1310	Green-brindled Crescent	<i>Allophyas oxyacanthae</i>	insect - moth	TL216079	11/10/2008	30/10/2014	7			x	x						Sect.41;BAP-2007
1310	Mouse Moth	<i>Amphipyra tragopoginis</i>	insect - moth	TL216079	05/08/2009	04/09/2014	4			x	x						Sect.41;BAP-2007
1310	Large Nutmeg	<i>Apamea anceps</i>	insect - moth	TL216079	01/06/2008	27/06/2012	3			x	x						Sect.41;BAP-2007
1310	Dusky Brocade	<i>Apamea remissa</i>	insect - moth	TL216079	14/06/2009	01/07/2013	2			x	x						Sect.41;BAP-2007
1310	Deep-brown Dart	<i>Aporophylla luteola</i>	insect - moth	TL216079	07/10/2008	26/09/2014	3			x	x						Sect.41;BAP-2007
1310	Bulrush Veneer	<i>Calamotropha paludella</i>	insect - moth	TL216079	22/07/2013	22/07/2013	1						x				Nb
1310	Maple Slender	<i>Caloptilia semifascia</i>	insect - moth	TL216079	10/03/2012	25/07/2012	2								x		Herts Rare (M)
1310	Mottled Rustic	<i>Caradrina morpheus</i>	insect - moth	TL216079	25/07/2012	03/07/2014	7			x	x						Sect.41;BAP-2007
1310	Dusky-lemon Sallow	<i>Cirrhia gilvago</i>	insect - moth	TL216079	25/09/2008	25/09/2008	1			x	x				x		Sect.41;BAP-2007;Herts End 3 (M)
1310	Small Square-spot	<i>Diarsia rubi</i>	insect - moth	TL216079	23/05/2008	14/06/2009	6			x	x						Sect.41;BAP-2007
1310	Figure of Eight	<i>Diloba caeruleocephala</i>	insect - moth	TL216079	23/10/2012	30/10/2014	2			x	x				x		Sect.41;BAP-2007;Herts Vul 2 (M)
1310	Small Phoenix	<i>Ecliptopera silaceata</i>	insect - moth	TL216079	16/08/2013	16/08/2013	1			x	x						Sect.41;BAP-2007
1310	Ghost Moth	<i>Hepialus humuli</i>	insect - moth	TL216079	17/07/2013	17/07/2013	1			x	x						Sect.41;BAP-2007
1310	Rosy Rustic	<i>Hydraecia micacea</i>	insect - moth	TL216079	17/09/2008	25/09/2009	2			x	x						Sect.41;BAP-2007
1310	Scarce Tissue	<i>Hydria cervalis</i>	insect - moth	TL216079	15/05/2008	15/05/2008	1								x		Herts Threat 1 (M)



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1310	Shoulder-striped Wainscot	<i>Leucania comma</i>	insect - moth	TL216079	13/06/2014	13/06/2014	1			x	x						Sect.41;BAP-2007
1310	White Satin Moth	<i>Leucoma salicis</i>	insect - moth	TL216079	14/07/2008	19/07/2014	4			x	x				x		Herts Threat 3 (M)
1310	Gypsy Moth	<i>Lymantria dispar</i>	insect - moth	TL216079	28/07/2014	28/07/2014	1					x					RDBGB.EX
1310	Dotted Fan-foot	<i>Macrocampa cribrumalis</i>	insect - moth	TL216079	16/07/2013	16/07/2013	1								x		Herts Vul 3 (M)
1310	Dot Moth	<i>Melanchra persicariae</i>	insect - moth	TL216079	14/07/2013	19/07/2014	4			x	x						Sect.41;BAP-2007
1310	Powdered Quaker	<i>Orthosia gracilis</i>	insect - moth	TL216079	05/05/2008	09/04/2014	4			x	x						Sect.41;BAP-2007
1310	White Ermine	<i>Spilosoma lubricipeda</i>	insect - moth	TL216079	23/05/2008	13/06/2014	15			x	x						Sect.41;BAP-2007
1310	Buff Ermine	<i>Spilosoma lutea</i>	insect - moth	TL216079	08/06/2008	03/07/2014	11			x	x						Sect.41;BAP-2007
1310	Blood-Vein	<i>Timandra comae</i>	insect - moth	TL216079	03/08/2009	13/06/2014	3			x	x						Sect.41;BAP-2007
1310	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	TL216079	14/05/2008	13/06/2014	29			x	x						Sect.41;BAP-2007
1310	Oak Hook-tip	<i>Watsonalla binaria</i>	insect - moth	TL216079	20/08/2012	28/07/2014	2			x	x						Sect.41;BAP-2007
1310	Water-violet	<i>Hottonia palustris</i>	flowering plant	TL228073	16/11/1990	16/11/1990	1					x					RDBEN.VU
1320	Harebell	<i>Campanula rotundifolia</i>	flowering plant	TL230068	16/07/1989	16/07/1989	1					x					RDBEN.NT
1350	Swift	<i>Apus apus</i>	bird	TL21100783	01/01/2010	01/01/2010	1					x					BAmb
1360	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL206058	28/07/2011	28/07/2011	1			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1360	Corn Marigold	<i>Glebionis segetum</i>	flowering plant	TL213079	01/09/1991	01/09/1991	1					x					RDBEN.VU
1400	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	TL231066	05/08/1988	05/08/1988	1			x	x						Sect.41;BAP-2007
1410	Heather	<i>Calluna vulgaris</i>	flowering plant	TL231068	1992	1992	1					x					RDBEN.NT
1430	Corn Marigold	<i>Glebionis segetum</i>	flowering plant	TL203063	08/08/1991	08/08/1991	1					x					RDBEN.VU
1430	Field Scabious	<i>Knautia arvensis</i>	flowering plant	TL203063	30/06/1988	30/06/1988	1					x					RDBEN.NT
1430	White-letter Hairstreak	<i>Satyrus w-album</i>	insect - butterfly	TL214080	22/06/2011	22/06/2011	1			x	x	x					Sect.41;BAP-2007;RLGB.EN
1430	Lesser Redpoll	<i>Acanthis cabaret</i>	bird	TL220080	18/03/2011	07/01/2014	3			x	x	x					Sect.41;BAP-2007;BRed
1430	Sparrowhawk	<i>Accipiter nisus</i>	bird	TL220080	21/01/2003	26/11/2013	21							x			CMS_A2
1430	Mandarin Duck	<i>Aix galericulata</i>	bird	TL220080	09/03/2003	06/04/2014	3							x			CMS_A2
1430	Skylark	<i>Alauda arvensis</i>	bird	TL220080	15/04/2003	30/03/2011	10			x		x					Sect.41;BRed
1430	Kingfisher	<i>Alcedo atthis</i>	bird	TL220080	01/02/2003	31/08/2013	2		x			x		x			WCA1i;BAmb;BD1, Bern2
1430	Mallard	<i>Anas platyrhynchos</i>	bird	TL220080	10/06/2003	17/06/2003	2					x		x			BAmb;CMS_A2
1430	Swift	<i>Apus apus</i>	bird	TL220080	06/05/2003	15/05/2014	15					x					BAmb
1430	Waxwing	<i>Bombus garrulus</i>	bird	TL220080	18/02/2003	18/01/2013	21							x			Bern2
1430	Canada Goose	<i>Branta canadensis</i>	bird	TL220080	06/05/2003	02/12/2003	6							x			CMS_A2
1430	Buzzard	<i>Buteo buteo</i>	bird	TL220080	18/01/2003	13/08/2013	12							x			CMS_A2
1430	Goldfinch	<i>Carduelis carduelis</i>	bird	TL220080	11/03/2003	18/11/2003	7							x			Bern2
1430	Treecreeper	<i>Certhia familiaris</i>	bird	TL220080	28/01/2013	28/01/2013	1							x			Bern2
1430	Little Ringed Plover	<i>Charadrius dubius</i>	bird	TL220080	26/03/2011	26/03/2011	1		x					x			WCA1i;Bern2, CMS_A2
1430	Ringed Plover	<i>Charadrius hiaticula</i>	bird	TL220080	26/03/2011	26/03/2011	1					x		x			BRed;Bern2, CMS_A2
1430	Greenfinch	<i>Chloris chloris</i>	bird	TL220080	14/01/2003	15/12/2013	48							x			Bern2
1430	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	bird	TL220080	07/01/2003	31/12/2003	28					x					BAmb
1430	Stock Dove	<i>Columba oenas</i>	bird	TL220080	30/04/2013	30/04/2013	1					x					BAmb
1430	Cuckoo	<i>Cuculus canorus</i>	bird	TL220080	27/05/2003	27/05/2003	1			x	x	x					Sect.41;BAP-2007;BRed
1430	Blue Tit	<i>Cyanistes caeruleus</i>	bird	TL220080	07/01/2003	31/12/2003	50							x			Bern2
1430	House Martin	<i>Delichon urbicum</i>	bird	TL220080	08/07/2003	22/07/2015	10					x		x			BAmb;Bern2
1430	Great Spotted Woodpecker	<i>Dendrocopos major</i>	bird	TL220080	07/01/2003	31/12/2003	25							x			Bern2
1430	Little Egret	<i>Egretta garzetta</i>	bird	TL220080	19/04/2013	30/12/2014	2							x			BD1, Bern2
1430	Robin	<i>Erithacus rubecula</i>	bird	TL220080	07/01/2003	31/12/2003	49							x			Bern2
1430	Peregrine	<i>Falco peregrinus</i>	bird	TL220080	14/12/2003	14/12/2003	1		x					x			WCA1i;BD1, Bern2, CMS_A2
1430	Hobby	<i>Falco subbuteo</i>	bird	TL220080	06/03/2003	23/08/2003	3		x					x			WCA1i;Bern2, CMS_A2



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1430	Kestrel	<i>Falco tinnunculus</i>	bird	TL220080	22/07/2003	16/07/2013	3					x		x			BAmb;Bern2, CMS_A2
1430	Swallow	<i>Hirundo rustica</i>	bird	TL220080	29/04/2003	09/09/2003	7					x		x			Bern2
1430	Common Gull	<i>Larus canus</i>	bird	TL220080	14/01/2003	31/12/2003	10					x					BAmb
1430	Lesser Black-backed Gull	<i>Larus fuscus</i>	bird	TL220080	21/01/2003	14/10/2003	2					x					BAmb
1430	Red Kite	<i>Milvus milvus</i>	bird	TL220080	08/01/2011	04/04/2015	49	x						x	x		WCA1i;BD1, CMS_A2;WCA9
1430	Pied Wagtail	<i>Motacilla alba</i>	bird	TL220080	07/01/2003	25/11/2003	7							x			Bern2
1430	Grey Wagtail	<i>Motacilla cinerea</i>	bird	TL220080	15/11/2003	15/10/2014	4					x		x			BRed;Bern2
1430	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	TL220080	23/07/2015	23/07/2015	1			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2, CMS_A2
1430	Wheatear	<i>Oenanthe oenanthe</i>	bird	TL220080	11/09/2012	11/09/2012	1							x			Bern2
1430	Osprey	<i>Pandion haliaetus</i>	bird	TL220080	16/03/2014	16/03/2014	1		x			x		x			WCA1i;BAmb;BD1, CMS_A2
1430	Great Tit	<i>Parus major</i>	bird	TL220080	07/01/2003	31/12/2003	37							x			Bern2
1430	House Sparrow	<i>Passer domesticus</i>	bird	TL220080	07/01/2003	05/03/2013	52			x	x	x					Sect.41;BAP-2007;BRed
1430	Grey Partridge	<i>Perdix perdix</i>	bird	TL220080	16/10/2003	16/10/2003	1			x	x	x					Sect.41;BAP-2007;BRed
1430	Coal Tit	<i>Pariparus ater</i>	bird	TL220080	07/01/2003	31/12/2003	28							x			Bern2
1430	Black Redstart	<i>Phoenicurus ochruros</i>	bird	TL220080	20/03/2011	20/03/2011	1		x			x		x			WCA1i;BRed;Bern2
1430	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	TL220080	13/05/2003	19/08/2003	3					x					BAmb
1430	Green Woodpecker	<i>Picus viridis</i>	bird	TL220080	07/01/2003	09/12/2003	7							x			Bern2
1430	Golden Plover	<i>Pluvialis apricaria</i>	bird	TL220080	04/11/2003	18/11/2003	2							x			BD1, CMS_A2
1430	Grey Plover	<i>Pluvialis squatarola</i>	bird	TL220080	20/11/2012	03/11/2014	2					x		x			BAmb;CMS_A2
1430	Willow Tit	<i>Poecile montana</i>	bird	TL220080	22/03/2003	22/03/2003	1					x		x			BRed;Bern2
1430	Duncock	<i>Prunella modularis</i>	bird	TL220080	07/01/2003	27/01/2011	50					x		x			BAmb;Bern2
1430	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	TL220080	25/01/2003	31/03/2015	7					x					BAmb
1430	Goldcrest	<i>Regulus regulus</i>	bird	TL220080	18/02/2003	18/12/2015	21							x			Bern2
1430	Sand Martin	<i>Riparia riparia</i>	bird	TL220080	30/03/2003	30/03/2003	1							x			Bern2
1430	Stonechat	<i>Saxicola rubicola</i>	bird	TL220080	11/01/2003	11/01/2003	1							x			Bern2
1430	Woodcock	<i>Scolopax rusticola</i>	bird	TL220080	08/03/2011	08/03/2011	1					x		x			BRed;CMS_A2
1430	Nuthatch	<i>Sitta europaea</i>	bird	TL220080	12/08/2003	12/08/2003	1							x			Bern2
1430	Siskin	<i>Spinus spinus</i>	bird	TL220080	22/03/2003	11/12/2012	3							x			Bern2
1430	Common Tern	<i>Sterna hirundo</i>	bird	TL220080	10/07/2013	28/04/2014	3					x		x			BAmb;BD1, Bern2
1430	Starling	<i>Sturnus vulgaris</i>	bird	TL220080	07/01/2003	17/08/2014	49					x					BRed
1430	Green Sandpiper	<i>Tringa ochropus</i>	bird	TL220080	26/03/2011	26/03/2011	1		x			x		x			WCA1i;BAmb;Bern2, CMS_A2
1430	Wren	<i>Troglodytes troglodytes</i>	bird	TL220080	28/01/2003	18/11/2003	25							x			Bern2
1430	Redwing	<i>Turdus iliacus</i>	bird	TL220080	14/01/2003	08/01/2014	4		x			x					WCA1i;BRed
1430	Song Thrush	<i>Turdus philomelos</i>	bird	TL220080	14/01/2003	31/12/2003	30				x	x					LBAP;BRed
1430	Fieldfare	<i>Turdus pilaris</i>	bird	TL220080	31/01/2003	31/12/2003	9		x			x					WCA1i;BRed
1430	Mistle Thrush	<i>Turdus viscivorus</i>	bird	TL220080	28/01/2003	02/12/2003	6					x					BRed
1430	Barn Owl	<i>Tyto alba</i>	bird	TL220080	01/02/2003	06/03/2014	2		x					x			WCA1i;Bern2
1430	Lapwing	<i>Vanellus vanellus</i>	bird	TL220080	08/01/2011	05/03/2013	3			x	x	x		x			Sect.41;BAP-2007;BRed;CMS_A2
1430	Bramble	<i>Rubus diversus</i>	flowering plant	TL223053	21/07/2003	21/07/2003	1								x		Herts Rare
1440	Fine-leaved Water-dropwort	<i>Oenanthe aquatica</i>	flowering plant	TL225054	29/06/2003	01/07/2003	2								x		Herts Rare
1440	Bramble	<i>Rubus britannicus</i>	flowering plant	TL225054	01/07/2003	01/07/2003	1					x					NR-excludes
1460	Mat-grass	<i>Nardus stricta</i>	flowering plant	TL231062	1988	1988	1					x					RD BEN.NT
1480	Lady's-Mantle	<i>Alchemilla filicaulis subsp. vestita</i>	flowering plant	TL207055	Jul-90	10/07/1991	2								x		Herts Vulnerable
1490	White-letter Hairstreak	<i>Satyrrium w-album</i>	insect - butterfly	TL228076	22/06/2011	22/06/2011	1			x	x	x					Sect.41;BAP-2007;RLGB.EN
1500	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL202065	16/08/1996	21/06/1998	12			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1500	Bullhead	<i>Cottus gobio</i>	bony fish (Actinopterygii)	TL2049105827	02/04/2015	02/04/2015	1	x									HSD2p



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1500	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL205057	23/06/1995	23/06/1995	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1500	Knot Grass	<i>Acrionicta rumicis</i>	insect - moth	TL217081	03/09/1965	03/09/1965	1			x	x						Sect.41;BAP-2007
1500	Flounced Chestnut	<i>Agrochola helvola</i>	insect - moth	TL217081	09/10/1966	13/01/1967	3			x	x				x		Sect.41;BAP-2007;Herts End 3 (M)
1500	Brown-spot Pinion	<i>Agrochola litura</i>	insect - moth	TL217081	13/09/1964	17/09/1967	8			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1500	Beaded Chestnut	<i>Agrochola lychnidis</i>	insect - moth	TL217081	01/10/1964	08/10/1967	8			x	x						Sect.41;BAP-2007
1500	Green-brindled Crescent	<i>Allophyas oxyacanthae</i>	insect - moth	TL217081	31/10/1964	11/10/1967	9			x	x						Sect.41;BAP-2007
1500	Mouse Moth	<i>Amphipyra tragopoginis</i>	insect - moth	TL217081	08/08/1964	30/08/1966	7			x	x						Sect.41;BAP-2007
1500	Dusky Brocade	<i>Apamea remissa</i>	insect - moth	TL217081	10/08/1964	10/08/1964	1			x	x						Sect.41;BAP-2007
1500	Garden Tiger	<i>Arctia caja</i>	insect - moth	TL217081	29/06/1964	28/07/1965	12			x	x				x		Sect.41;BAP-2007;Herts End 2 (M)
1500	Plain Golden Y	<i>Autographa jota</i>	insect - moth	TL217081	01/07/1964	29/09/1967	11								x		Herts Threat 3 (M)
1500	Mottled Rustic	<i>Caradrina morpheus</i>	insect - moth	TL217081	11/06/1964	13/09/1967	85			x	x						Sect.41;BAP-2007
1500	Latticed Heath	<i>Chiasmia clathrata</i>	insect - moth	TL217081	31/07/1966	31/07/1966	1			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1500	Sallow	<i>Cirrhia icteritia</i>	insect - moth	TL217081	18/09/1966	18/09/1966	1			x	x						Sect.41;BAP-2007
1500	Small Square-spot	<i>Diarsia rubi</i>	insect - moth	TL217081	08/06/1965	12/09/1967	8			x	x						Sect.41;BAP-2007
1500	Small Phoenix	<i>Ecliptopera silaceata</i>	insect - moth	TL217081	21/08/1966	11/07/1967	4			x	x						Sect.41;BAP-2007
1500	September Thorn	<i>Ennomos erosaria</i>	insect - moth	TL217081	05/09/1964	05/09/1964	1			x	x				x		Sect.41;BAP-2007;Herts Threat 1 (M)
1500	August Thorn	<i>Ennomos quercinaria</i>	insect - moth	TL217081	01/08/1964	16/08/1966	6			x	x						Sect.41;BAP-2007
1500	Spinach	<i>Eulithis mellinata</i>	insect - moth	TL217081	29/06/1966	08/07/1967	2			x	x				x		Sect.41;BAP-2007;Herts Vul 2 (M)
1500	Sharp-angled Carpet	<i>Euphyia unangulata</i>	insect - moth	TL217081	19/07/1964	10/07/1966	2								x		Herts Rare (M)
1500	Double Dart	<i>Graphiphora augur</i>	insect - moth	TL217081	06/07/1964	03/07/1966	4			x	x				x		Sect.41;BAP-2007;Herts End 3 (M)
1500	Rustic	<i>Hoplodrina blanda</i>	insect - moth	TL217081	26/06/1965	27/08/1967	41			x	x						Sect.41;BAP-2007
1500	Rosy Rustic	<i>Hydraecia micacea</i>	insect - moth	TL217081	28/08/1964	03/10/1967	18			x	x						Sect.41;BAP-2007
1500	Little Emerald	<i>Jodis lactearia</i>	insect - moth	TL217081	28/06/1964	07/07/1966	3								x		Herts Threat 3 (M)
1500	White Satin Moth	<i>Leucoma salicis</i>	insect - moth	TL217081	28/07/1965	06/08/1965	2								x		Herts Threat 3 (M)
1500	Brindled Beauty	<i>Lycia hirtaria</i>	insect - moth	TL217081	09/04/1964	12/05/1967	36			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1500	V-Moth	<i>Macaria wauaria</i>	insect - moth	TL217081	28/06/1964	18/07/1967	7			x	x				x		Sect.41;BAP-2007;Herts End 2 (M)
1500	Lackey	<i>Malacosoma neustria</i>	insect - moth	TL217081	02/07/1964	02/08/1967	87			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1500	Dot Moth	<i>Melanchra persicariae</i>	insect - moth	TL217081	28/06/1964	14/07/1967	21			x	x						Sect.41;BAP-2007
1500	Dark Brocade	<i>Mniotype adusta</i>	insect - moth	TL217081	25/07/1966	25/07/1966	1			x	x				x		Sect.41;BAP-2007;Herts Vul 2 (M)
1500	Gothic	<i>Naenia typica</i>	insect - moth	TL217081	09/07/1964	13/07/1967	5								x		Herts Vul 2 (M)
1500	Powdered Quaker	<i>Orthosia gracilis</i>	insect - moth	TL217081	11/05/1964	17/04/1965	2			x	x						Sect.41;BAP-2007
1500	Lunar Thorn	<i>Selenia lunularia</i>	insect - moth	TL217081	06/05/1965	20/07/1965	2								x		Herts Threat 1 (M)
1500	White Ermine	<i>Spilosoma lubricipeda</i>	insect - moth	TL217081	28/05/1964	04/07/1967	17			x	x						Sect.41;BAP-2007
1500	Buff Ermine	<i>Spilosoma lutea</i>	insect - moth	TL217081	06/06/1964	18/07/1967	42			x	x						Sect.41;BAP-2007
1500	Blood-Vein	<i>Timandra comae</i>	insect - moth	TL217081	12/06/1964	22/08/1966	16			x	x						Sect.41;BAP-2007
1500	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	TL217081	21/06/1965	23/07/1965	3			x	x						Sect.41;BAP-2007
1500	Oak Hook-tip	<i>Watsonalla binaria</i>	insect - moth	TL217081	18/08/1964	18/08/1964	1			x	x						Sect.41;BAP-2007
1500	Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i>	insect - moth	TL217081	12/05/1964	26/09/1967	62			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1520	Field Pepperwort	<i>Lepidium campestre</i>	flowering plant	TL215081	1987	1987	1					x					RDBEN.NT
1530	Bullhead	<i>Cottus gobio</i>	bony fish (Actinopterygii)	TL2044205856	27/03/2013	27/03/2013	1	x									HSD2p
1530	Goldcrest	<i>Regulus regulus</i>	bird	TL20910792	13/04/2015	13/04/2015	1							x			Bern2
1560	Swift	<i>Apus apus</i>	bird	TL20210692	01/01/2010	01/01/2010	1					x					BAmb
1560	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL205056	12/07/1997	12/07/1997	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1560	Bramble	<i>Rubus phaeocarpus</i>	flowering plant	TL224052	21/07/2003	21/07/2003	1								x		Herts Rare
1610	Heather	<i>Calluna vulgaris</i>	flowering plant	TL203058	15/07/1988	15/07/1988	2					x					RDBEN.NT
1610	Harebell	<i>Campanula rotundifolia</i>	flowering plant	TL203058	15/07/1988	15/07/1988	2					x					RDBEN.NT





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1610	Cornflower	<i>Centaurea cyanus</i>	flowering plant	TL203058	Aug-99	Aug-99	1			x	x						Sect.41;BAP-2007, LBAP
1610	Canadian Waterweed	<i>Elodea canadensis</i>	flowering plant	TL203058	15/07/1988	15/07/1988	1								x		WCA9
1610	Petty Whin	<i>Genista anglica</i>	flowering plant	TL203058	15/07/1988	15/07/1988	2					x					RDBEN.VU
1610	Opposite-leaved Pondweed	<i>Groenlandia densa</i>	flowering plant	TL203058	12/07/1977	15/07/1988	2					x					RDBEN.VU
1610	Ragged-Robin	<i>Lychnis flos-cuculi</i>	flowering plant	TL203058	12/07/1977	12/07/1977	1					x					RDBEN.NT
1610	Tormentil	<i>Potentilla erecta</i>	flowering plant	TL203058	15/07/1988	15/07/1988	2					x					RDBEN.NT
1610	Lesser Spearwort	<i>Ranunculus flammula</i>	flowering plant	TL203058	15/07/1988	15/07/1988	2					x					RDBEN.VU
1610	Bramble	<i>Rubus rhombifolius</i>	flowering plant	TL203058	06/07/2001	06/07/2001	1								x		Herts Rare
1610	Dwarf Gorse	<i>Ulex minor</i>	flowering plant	TL203058	15/07/1988	15/07/1988	2								x		Herts Rare
1610	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL203058	21/06/1987	21/06/1987	1			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1610	White-letter Hairstreak	<i>Satyrus w-album</i>	insect - butterfly	TL203058	22/07/1991	22/07/1991	1			x	x	x					Sect.41;BAP-2007;RLGB.EN
1610	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	TL203058	21/06/1987	21/06/1987	1			x	x						Sect.41;BAP-2007
1610	Grass Snake	<i>Natrix natrix</i>	reptile	TL203058	1985	29/08/2004	3										Sect.41;BAP-2007
1610	Common Lizard	<i>Zootoca vivipara</i>	reptile	TL203058	1988	1988	2		x	x	x						WCA5/9.1k/I;Sect.41;BAP-2007
1610	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL203058	12/07/1977	12/07/1977	1		x	x	x						WCA5/9.4.a, WCA5/9.4.b;Sect.41;BAP-2007, LBAP
1630	Hoary Plantain	<i>Plantago media</i>	flowering plant	TL205055	23/06/1987	23/06/1987	1					x					RDBEN.NT
1630	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL205055	21/09/2008	21/09/2008	1			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1640	Dwarf Gorse	<i>Ulex minor</i>	flowering plant	TL204056	09/07/1989	09/07/1989	1								x		Herts Rare
1640	Common Cudweed	<i>Filago vulgaris</i>	flowering plant	TL227053	27/06/1988	27/06/1988	1					x					RDBEN.NT
1650	Crosswort	<i>Cruciata laevipes</i>	flowering plant	TL202059	09/07/1989	09/07/1989	1					x					RDBEN.NT
1660	House Sparrow	<i>Passer domesticus</i>	bird	TL203057	28/07/2011	28/07/2011	2			x	x	x					Sect.41;BAP-2007;BRed
1660	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL203057	30/05/1995	16/08/2009	115			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1660	Grass Snake	<i>Natrix natrix</i>	reptile	TL203057	17/11/1998	17/11/1998	1			x	x						Sect.41;BAP-2007
1660	Grey Wagtail	<i>Motacilla cinerea</i>	bird	TL20870805	13/04/2015	13/04/2015	1					x		x			BRed;Bern2
1670	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL208080	12/07/1996	12/07/1996	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1670	Wall	<i>Lasiommata megera</i>	insect - butterfly	TL208080	Oct-90	Oct-90	1			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1670	Lichen Button	<i>Acleris literana</i>	insect - moth	TL208080	08/03/2014	08/03/2014	1								x		Herts Rare (M)
1670	Leek Moth	<i>Acrolepiopsis assectella</i>	insect - moth	TL208080	11/06/2014	11/06/2014	1								x		Herts Rare (M)
1670	Green-brindled Crescent	<i>Allophyes oxyacanthae</i>	insect - moth	TL208080	19/10/2014	12/11/2014	4			x	x						Sect.41;BAP-2007
1670	Mouse Moth	<i>Amphipyra tragopoginis</i>	insect - moth	TL208080	21/08/2014	18/09/2014	10			x	x						Sect.41;BAP-2007
1670	Spruce Argent	<i>Argyresthia glabratella</i>	insect - moth	TL208080	04/09/2014	04/09/2014	1								x		Herts Extinct (M)
1670	Apple Pith Moth	<i>Blastodacna atra</i>	insect - moth	TL208080	23/05/2014	24/05/2014	2								x		Herts Rare (M)
1670	Polished Groundling	<i>Bryotropha politella</i>	insect - moth	TL208080	28/07/2014	28/07/2014	1								x		Herts Extinct (M)
1670	Mottled Rustic	<i>Caradrina morpheus</i>	insect - moth	TL208080	21/04/2014	18/07/2014	24			x	x						Sect.41;BAP-2007
1670	Brown Pine Ermel	<i>Cedestis subfasciella</i>	insect - moth	TL208080	16/09/2014	16/09/2014	1								x		Herts Rare (M)
1670	Latticed Heath	<i>Chiasmia clathrata subsp. clathrata</i>	insect - moth	TL208080	13/07/2014	28/07/2014	3			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1670	Sallow	<i>Cirrhia icteritia</i>	insect - moth	TL208080	31/10/2014	31/10/2014	1			x	x						Sect.41;BAP-2007
1670	Four-dotted Footman	<i>Cybosia mesomella</i>	insect - moth	TL208080	14/07/2014	17/07/2014	3								x		Herts End 3 (M)
1670	Small Square-spot	<i>Diarsia rubi</i>	insect - moth	TL208080	11/08/2014	17/08/2014	4			x	x						Sect.41;BAP-2007
1670	Small Phoenix	<i>Ecliptopera silaceata</i>	insect - moth	TL208080	21/07/2014	22/07/2014	2			x	x						Sect.41;BAP-2007
1670	Ragwort Bell	<i>Epiblema costipunctana</i>	insect - moth	TL208080	18/07/2014	18/07/2014	1								x		Herts Rare (M)
1670	Comfrey Ermel	<i>Ethmia quadrillella</i>	insect - moth	TL208080	16/07/2014	16/07/2014	1						x				Na
1670	Red-fringed Conch	<i>Falseuncaria ruficiliana</i>	insect - moth	TL208080	21/05/2014	21/05/2014	1								x		Herts Extinct (M)
1670	Webb's Wainscot	<i>Globia sparganii</i>	insect - moth	TL208080	13/08/2014	16/08/2014	2								x		Herts Vul 3 (M)
1670	Small Emerald	<i>Hemistola chrysoprasaria</i>	insect - moth	TL208080	30/06/2014	30/06/2014	1			x	x						Sect.41;BAP-2007
1670	Rustic	<i>Hoplodrina blanda</i>	insect - moth	TL208080	20/05/2014	23/09/2014	73			x	x						Sect.41;BAP-2007



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1670	Rosy Rustic	<i>Hydraecia micacea</i>	insect - moth	TL208080	31/08/2014	02/09/2014	2			x	x						Sect.41;BAP-2007
1670	Shoulder-striped Wainscot	<i>Leucania comma</i>	insect - moth	TL208080	22/06/2014	22/06/2014	1			x	x						Sect.41;BAP-2007
1670	Dotted Fan-foot	<i>Macrochilo cribrumalis</i>	insect - moth	TL208080	15/06/2014	15/06/2014	1								x		Herts Vul 3 (M)
1670	Kentish Cosmet	<i>Mompha sturnipennella</i>	insect - moth	TL208080	25/05/2014	29/05/2014	2								x		Herts Rare (M)
1670	Wainscot Neb	<i>Monochroa palustrellus</i>	insect - moth	TL208080	20/07/2014	25/07/2014	3						x				Nb
1670	Woodland Marble	<i>Orthotaenia undulana</i>	insect - moth	TL208080	09/07/2014	09/07/2014	1								x		Herts Extinct (M)
1670	Shaded Broad-bar	<i>Scotapteryx chenopodiata</i>	insect - moth	TL208080	17/05/2014	21/07/2014	6			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1670	Black Owlet	<i>Scythris grandipennis</i>	insect - moth	TL208080	24/07/2014	27/07/2014	2								x		Herts Extinct (M)
1670	White Ermine	<i>Spilosoma lubricipeda</i>	insect - moth	TL208080	19/05/2014	11/06/2014	10			x	x						Sect.41;BAP-2007
1670	Buff Ermine	<i>Spilosoma lutea</i>	insect - moth	TL208080	20/05/2014	28/06/2014	17			x	x						Sect.41;BAP-2007
1670	Alder Signal	<i>Stathmopoda pedella</i>	insect - moth	TL208080	03/07/2014	03/07/2014	1						x		x		Nb;Herts Rare (M)
1670	Feathered Gothic	<i>Tholera decimalis</i>	insect - moth	TL208080	06/09/2014	08/09/2014	2			x	x						Sect.41;BAP-2007
1670	Blood-Vein	<i>Timandra comae</i>	insect - moth	TL208080	16/07/2014	07/09/2014	7			x	x						Sect.41;BAP-2007
1670	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	TL208080	20/05/2014	22/06/2014	6			x	x						Sect.41;BAP-2007
1670	Pale Straw Pearl	<i>Udea lutealis</i>	insect - moth	TL208080	19/07/2014	19/07/2014	1								x		Herts Vul 2 (M)
1670	Oak Hook-tip	<i>Watsonalla binaria</i>	insect - moth	TL208080	19/07/2014	26/09/2014	6			x	x						Sect.41;BAP-2007
1670	Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i>	insect - moth	TL208080	27/07/2014	27/07/2014	1			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1700	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL204077	17/07/1996	17/07/1996	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1700	White-letter Hairstreak	<i>Satyrus w-album</i>	insect - butterfly	TL204077	17/07/1996	17/07/1996	2			x	x	x					Sect.41;BAP-2007;RLGB.EN
1700	Swift	<i>Apus apus</i>	bird	TL20690797	22/06/2012	22/06/2012	2					x					BAmb
1710	Three-cornered Garlic	<i>Allium triquetrum</i>	flowering plant	TL223082	1998	1998	1								x		WCA9
1730	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL214083	26/08/1997	26/08/1997	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1750	Harebell	<i>Campanula rotundifolia</i>	flowering plant	TL202057	28/07/2011	28/07/2011	1					x					RDBEN.NT
1750	Crosswort	<i>Cruciata laevipes</i>	flowering plant	TL202057	28/07/2011	28/07/2011	1					x					RDBEN.NT
1750	Tormentil	<i>Potentilla erecta</i>	flowering plant	TL202057	28/07/2011	28/07/2011	1					x					RDBEN.NT
1770	Heather	<i>Calluna vulgaris</i>	flowering plant	TL205053	21/06/1987	21/06/1987	1					x					RDBEN.NT
1770	Tormentil	<i>Potentilla erecta</i>	flowering plant	TL205053	09/07/1989	09/07/1989	1					x					RDBEN.NT
1770	Dwarf Gorse	<i>Ulex minor</i>	flowering plant	TL205053	09/07/1989	09/07/1989	1								x		Herts Rare
1770	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL205053	27/08/2007	16/09/2007	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1770	Common Toad	<i>Bufo bufo</i>	amphibian	TL229079	1983	1985	2			x	x						Sect.41;BAP-2007
1770	Grass Snake	<i>Natrix natrix</i>	reptile	TL229079	1977	1977	1			x	x						Sect.41;BAP-2007
1770	Common Lizard	<i>Zootoca vivipara</i>	reptile	TL229079	18/06/2004	18/06/2004	1		x	x	x						WCAS/9.1k/I;Sect.41;BAP-2007
1780	White-letter Hairstreak	<i>Satyrus w-album</i>	insect - butterfly	TL203077	08/07/1998	06/08/1998	4			x	x	x					Sect.41;BAP-2007;RLGB.EN
1780	White-letter Hairstreak	<i>Satyrus w-album</i>	insect - butterfly	TL206052	2002	2002	2			x	x	x					Sect.41;BAP-2007;RLGB.EN
1800	Good-King-Henry	<i>Chenopodium bonus-henricus</i>	flowering plant	TL199067	02/07/1992	02/07/1992	1					x					RDBEN.VU
1800	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL202056	28/07/2011	30/06/2012	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1800	Sparrowhawk	<i>Accipiter nisus</i>	bird	TL235065	01/05/2003	01/05/2003	1							x			CMS_A2
1800	Buzzard	<i>Buteo buteo</i>	bird	TL235065	08/01/2003	08/01/2003	1							x			CMS_A2
1800	Hobby	<i>Falco subbuteo</i>	bird	TL235065	31/05/2003	31/05/2003	1		x					x			WCA1;Bern2, CMS_A2
1800	Marsh Tit	<i>Poecile palustris</i>	bird	TL235065	29/06/2003	01/07/2003	2					x		x			BRed;Bern2
1810	Lesser Redpoll	<i>Acanthis cabaret</i>	bird	TL215048	03/12/2011	11/11/2012	3			x	x	x					Sect.41;BAP-2007;BRed
1810	Goshawk	<i>Accipiter gentilis</i>	bird	TL215048	12/01/2003	12/01/2003	2		x					x	x		WCA1;CMS_A2;WCA9
1810	Meadow Pipit	<i>Anthus pratensis</i>	bird	TL215048	05/01/2003	04/10/2003	4					x		x			BAmb;Bern2
1810	Tree Pipit	<i>Anthus trivialis</i>	bird	TL215048	14/05/2003	17/06/2003	4			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2
1810	Swift	<i>Apus apus</i>	bird	TL215048	03/07/2003	03/07/2003	1					x					BAmb
1810	Little Owl	<i>Athene noctua</i>	bird	TL215048	17/04/2002	24/12/2003	12							x			Bern2



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1810	Buzzard	<i>Buteo buteo</i>	bird	TL215048	12/01/2003	23/05/2012	15							x			CMS_A2
1810	Treecreeper	<i>Certhia familiaris</i>	bird	TL215048	19/05/2013	19/05/2013	1							x			Bern2
1810	Cuckoo	<i>Cuculus canorus</i>	bird	TL215048	04/05/2003	14/05/2003	2			x	x	x					Sect.41;BAP-2007;BRed
1810	House Martin	<i>Delichon urbicum</i>	bird	TL215048	26/09/2003	26/09/2003	1					x		x			BAmb;Bern2
1810	Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>	bird	TL215048	12/01/2003	12/01/2003	1					x		x			BRed;Bern2
1810	Little Egret	<i>Egretta garzetta</i>	bird	TL215048	11/11/2012	11/11/2012	1							x			BD1, Bern2
1810	Yellowhammer	<i>Emberiza citrinella</i>	bird	TL215048	07/12/2003	30/05/2012	4			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2
1810	Peregrine	<i>Falco peregrinus</i>	bird	TL215048	03/12/2011	03/12/2011	1		x					x			WCA1i;BD1, Bern2, CMS_A2
1810	Hobby	<i>Falco subbuteo</i>	bird	TL215048	30/07/2003	19/08/2012	10		x					x			WCA1i;Bern2, CMS_A2
1810	Kestrel	<i>Falco tinnunculus</i>	bird	TL215048	11/07/2003	03/08/2003	2					x		x			BAmb;Bern2, CMS_A2
1810	Swallow	<i>Hirundo rustica</i>	bird	TL215048	02/09/2003	26/09/2003	2							x			Bern2
1810	Linnet	<i>Linaria cannabina</i>	bird	TL215048	04/10/2003	04/10/2003	1					x		x			BRed;Bern2
1810	Grasshopper Warbler	<i>Locustella naevia</i>	bird	TL215048	17/06/2003	17/06/2003	1			x	x	x					Sect.41;BAP-2007;BRed
1810	Red Kite	<i>Milvus milvus</i>	bird	TL215048	01/02/2003	11/11/2012	13		x					x		x	WCA1i;BD1, CMS_A2;WCA9
1810	Grey Wagtail	<i>Motacilla cinerea</i>	bird	TL215048	25/01/2003	25/01/2003	2					x		x			BRed;Bern2
1810	Yellow Wagtail	<i>Motacilla flava</i>	bird	TL215048	19/08/2012	19/08/2012	1					x		x			BRed;Bern2
1810	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	TL215048	21/05/2003	19/08/2012	7			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2, CMS_A2
1810	Curlew	<i>Numenius arquata</i>	bird	TL215048	20/02/2011	20/02/2011	1			x	x	x		x			Sect.41;BAP-2007;BRed;CMS_A2
1810	Tree Sparrow	<i>Passer montanus</i>	bird	TL215048	07/12/2003	07/12/2003	1			x	x	x					Sect.41;BAP-2007, LBAP;BRed
1810	Grey Partridge	<i>Perdix perdix</i>	bird	TL215048	21/09/2003	31/03/2011	3			x	x	x					Sect.41;BAP-2007;BRed
1810	Redstart	<i>Phoenicurus phoenicurus</i>	bird	TL215048	24/08/2003	24/08/2003	2					x		x			BAmb;Bern2
1810	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	TL215048	28/04/2003	08/08/2015	5					x					BAmb
1810	Green Woodpecker	<i>Picus viridis</i>	bird	TL215048	15/01/2012	15/01/2012	1							x			Bern2
1810	Golden Plover	<i>Pluvialis apricaria</i>	bird	TL215048	08/11/2003	24/12/2003	3							x			BD1, CMS_A2
1810	Marsh Tit	<i>Poecile palustris</i>	bird	TL215048	12/01/2003	24/12/2003	8					x		x			BRed;Bern2
1810	Dunnock	<i>Prunella modularis</i>	bird	TL215048	25/09/2003	25/09/2003	1					x		x			BAmb;Bern2
1810	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	TL215048	25/01/2003	20/02/2011	5					x					BAmb
1810	Stonechat	<i>Saxicola rubicola</i>	bird	TL215048	15/03/2003	15/03/2003	1							x			Bern2
1810	Woodcock	<i>Scolopax rusticola</i>	bird	TL215048	25/01/2003	11/11/2012	8					x		x			BRed;CMS_A2
1810	Nuthatch	<i>Sitta europaea</i>	bird	TL215048	09/06/2002	09/06/2002	1							x			Bern2
1810	Siskin	<i>Spinus spinus</i>	bird	TL215048	16/02/2003	11/11/2012	3							x			Bern2
1810	Green Sandpiper	<i>Tringa ochropus</i>	bird	TL215048	19/08/2012	19/08/2012	1		x			x		x			WCA1i;BAmb;Bern2, CMS_A2
1810	Wren	<i>Troglodytes troglodytes</i>	bird	TL215048	05/05/2003	05/05/2003	1							x			Bern2
1810	Redwing	<i>Turdus iliacus</i>	bird	TL215048	23/03/2003	18/12/2011	2		x			x					WCA1i;BRed
1810	Fieldfare	<i>Turdus pilaris</i>	bird	TL215048	23/03/2003	16/11/2014	7		x			x					WCA1i;BRed
1810	Mistle Thrush	<i>Turdus viscivorus</i>	bird	TL215048	11/08/2003	11/08/2003	2					x					BRed
1810	Lapwing	<i>Vanellus vanellus</i>	bird	TL215048	07/12/2003	07/12/2003	1			x	x	x		x			Sect.41;BAP-2007;BRed;CMS_A2
1810	Swift	<i>Apus apus</i>	bird	TL22190840	01/01/2010	01/01/2010	1					x					BAmb
1840	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL204053	23/05/1995	07/09/2014	301			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1840	Wall	<i>Lasiommata megera</i>	insect - butterfly	TL204053	02/08/1995	02/08/1995	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1840	White-letter Hairstreak	<i>Satyrion w-album</i>	insect - butterfly	TL204053	05/07/1995	23/07/1997	22			x	x	x					Sect.41;BAP-2007;RLGB.EN
1840	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL205052	22/06/2011	22/06/2011	1			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1840	White-letter Hairstreak	<i>Satyrion w-album</i>	insect - butterfly	TL205052	22/06/2011	22/06/2011	1			x	x	x					Sect.41;BAP-2007;RLGB.EN
1850	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	TL229080	26/04/2005- 09/05/2005	26/04/2005- 09/05/2005	1		x								WCA8
1850	Grass Snake	<i>Natrix natrix</i>	reptile	TL229080	1977		1			x	x						Sect.41;BAP-2007
1860	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL202077	17/07/1996	17/07/1996	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)

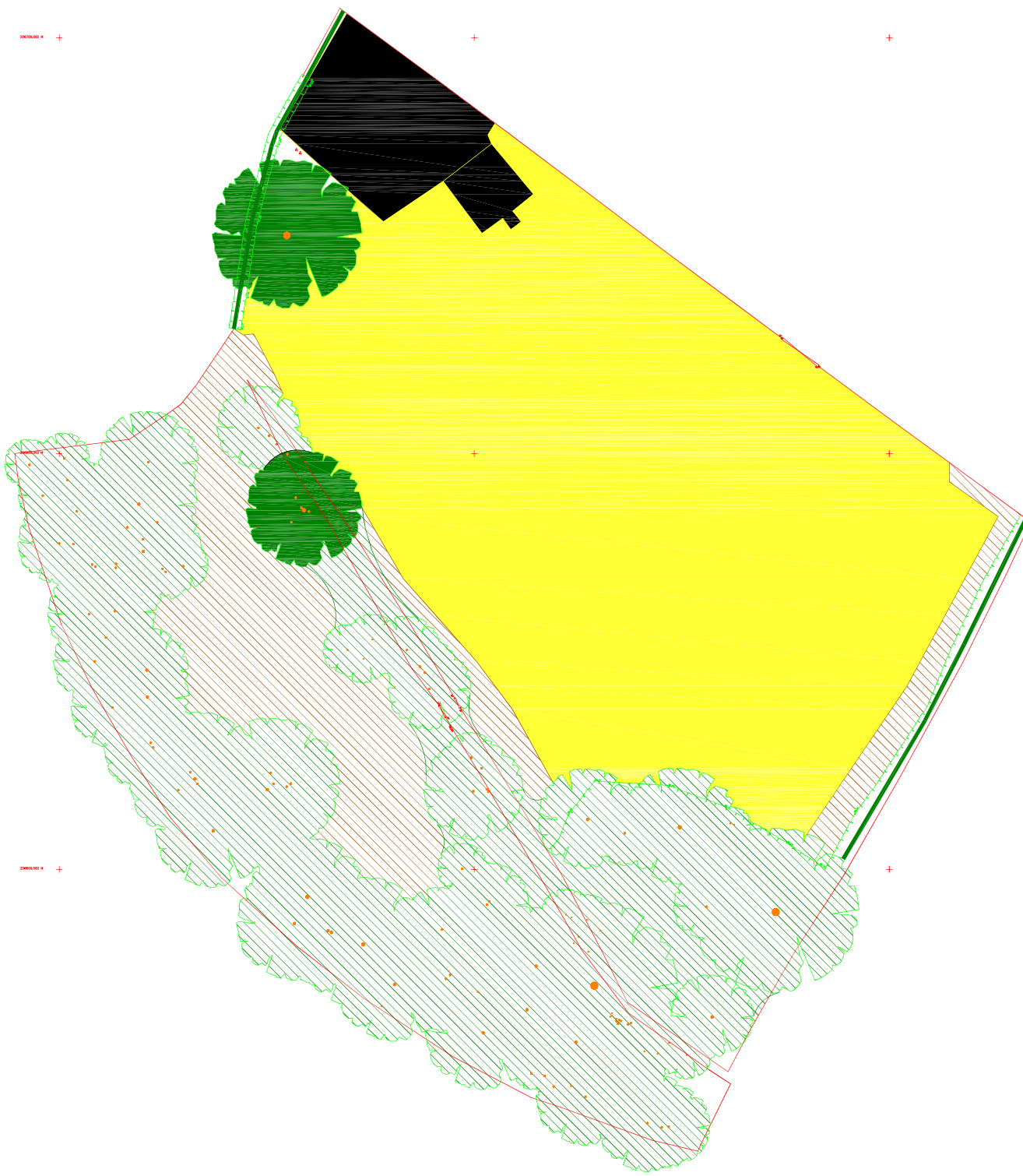


# Herts Environmental Record Centre

Distance (m)	Common Name	Scientific Name	Taxon Group	Grid Reference	Earliest Record	Latest Record	Number of Records	European	UK Legal	NERC	BAP2007	IUCN	Scarce Rare	Berne Bonn Birds Dir	Local Status	WCA9	Status Designations
1860	White-letter Hairstreak	<i>Satyrrium w-album</i>	insect - butterfly	TL202077	10/07/1996	23/07/1997	8			x	x	x					Sect.41;BAP-2007;RLGB.EN
1880	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL200058	Mar-98	Mar-98	1		x	x	x						WCA5/9.4.a, WCA5/9.4b;Sect.41;BAP-2007, LBAP
1900	Barn Owl	<i>Tyto alba</i>	bird	TL198065	20/04/2015	20/04/2015	1		x					x			WCA1i;Bern2
1900	White Admiral	<i>Limenitis camilla</i>	insect - butterfly	TL199060	29/06/2009	29/06/2009	1			x	x	x					Sect.41;BAP-2007;RLGB.VU
1910	Heather	<i>Calluna vulgaris</i>	flowering plant	TL204052	28/07/2011	28/07/2011	1					x					RDBEN.NT
1910	Harebell	<i>Campanula rotundifolia</i>	flowering plant	TL204052	28/07/2011	28/07/2011	1					x					RDBEN.NT
1910	Petty Whin	<i>Genista anglica</i>	flowering plant	TL204052	28/07/2011	28/07/2011	1					x					RDBEN.VU
1910	Tormentil	<i>Potentilla erecta</i>	flowering plant	TL204052	28/07/2011	28/07/2011	1					x					RDBEN.NT
1910	Dwarf Gorse	<i>Ulex minor</i>	flowering plant	TL204052	28/07/2011	28/07/2011	1								x		Herts Rare
1910	Heath Speedwell	<i>Veronica officinalis</i>	flowering plant	TL204052	28/07/2011	28/07/2011	1					x					RDBEN.NT
1910	Heath Dog-violet	<i>Viola canina</i>	flowering plant	TL204052	28/07/2011	28/07/2011	1					x					RDBEN.VU
1920	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL205051	12/06/1985	12/06/1985	1			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1920	Autumn Green Carpet	<i>Chloroclysta miata</i>	insect - moth	TL205051	12/06/1985	12/06/1985	1								x		Herts Extinct (M)
1920	Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i>	insect - moth	TL205051	12/06/1985	12/06/1985	1			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1930	White-clawed Freshwater Crayfish	<i>Austropotamobius pallipes</i>	crustacean	TL199059	11/04/1988	11/04/1988	1	x		x	x	x					HSD2p;Sect.41;BAP-2007, LBAP;RLGLB.EN
1930	Crosswort	<i>Cruciata laevipes</i>	flowering plant	TL199059	29/03/1991	29/03/1991	1					x					RDBEN.NT
1930	Bramble	<i>Rubus rhombifolius</i>	flowering plant	TL199059	06/07/2001	06/07/2001	1								x		Herts Rare
1940	Grey Partridge	<i>Perdix perdix</i>	bird	TL201077	25/05/2004	25/05/2004	1			x	x	x					Sect.41;BAP-2007;BRed
1940	Tormentil	<i>Potentilla erecta</i>	flowering plant	TL236070	24/05/2003	24/05/2003	1					x					RDBEN.NT
1970	Kestrel	<i>Falco tinnunculus</i>	bird	TL198071	21/04/2003	21/04/2003	1					x		x			BAmb;Bern2, CMS_A2
1970	Swallow	<i>Hirundo rustica</i>	bird	TL198071	18/04/2003	18/04/2003	1							x			Bern2
1970	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL198071	16/08/1997	16/08/1997	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1970	White-letter Hairstreak	<i>Satyrrium w-album</i>	insect - butterfly	TL198071	21/07/1996	21/07/1996	2			x	x	x					Sect.41;BAP-2007;RLGB.EN
1970	Heath Dog-violet	<i>Viola canina</i>	flowering plant	TL236071	24/05/2003	24/05/2003	1					x					RDBEN.VU
1990	Hygrotus (Coelambus) nigrolineatus	<i>Hygrotus (Coelambus) nigrolineatus</i>	insect - beetle (Coleoptera)	TL223047	13/07/2001	13/07/2001	1						x				NS-excludes

## Appendix C

### Phase 1 Habitat Map



**A**