



**BiOME**  
CONSULTING

# Sheering Lower Road, Sawbridgeworth

GEOSMART INFORMATION

## Extended Phase 1 Habitat Survey

Final

VERSION 2

17 January 2018

**BiOME Consulting Limited, Horseshoe Barn, Halvergate, Norfolk, NR13 3AJ**  
[www.BiOMEconsulting.com](http://www.BiOMEconsulting.com)

**COPYRIGHT:** The concepts and information contained in this document are the property of BiOME Consulting Limited. Use or copying of this document in whole or in part without the written permission of BiOME Consulting Limited constitutes an infringement of copyright.

**LIMITATION:** This report has been prepared on behalf of and for the exclusive use of BiOME Consulting Limited's Client, and is subject to and issued in connection with the provisions of the agreement between BiOME Consulting Limited and its Client. BiOME Consulting Limited accepts no liability or responsibility whatsoever for or in respect of any use of or reliance upon this report by any third party.

## Document History and Status

Revision	Date Issued	Reviewed By	Approved By	Date Approved	Revision Type
1	18/01/2018	RM			Draft for Technical Review
2	18/01/2018	RM	RM	19/01/2018	Final

<b>File Name</b>	BiOME_Sheering Lower Road_EP1HS_v2_final
<b>Author</b>	Martyn Owen
<b>Project Manager</b>	Martyn Owen
<b>Client</b>	GeoSmart Information
<b>Name of Project</b>	Sheering Lower Road
<b>Name of Document</b>	Extended Phase 1 Habitat Survey
<b>Document Version</b>	2
<b>Document Status</b>	Final

## Contents

<b>Executive Summary</b>	<b>1</b>
<b>1. Introduction</b>	<b>3</b>
1.1. Site Description	3
<b>2. Methodologies</b>	<b>4</b>
2.1. Desk Study	4
2.2. Extended Phase 1 Habitat Survey	4
2.3. Bats	5
2.4. Limitations	6
<b>3. Results</b>	<b>7</b>
3.1. Desk Study	7
3.2. Site Survey	9
3.2.1. Scattered Trees; Broad-Leaved	10
3.2.2. Scrub; Dense/Continuous	10
3.2.3. Poor Semi-Improved Grassland	10
3.2.4. Amenity Grassland	10
3.2.5. Tall Ruderal	10
3.2.6. Arable	10
3.2.7. Hedges and Trees; Species Poor	10
3.2.8. Fence	11
3.3. Habitat Evaluation	11
3.4. Protected and Notable Species	11
3.4.1. Water Vole and Otter	11
3.4.2. Badger	12
3.4.3. Bats	12
3.4.4. Other Section 41 Terrestrial Mammals	13
3.4.5. Amphibians	14
3.4.6. Reptiles	15
3.4.7. Birds	15
3.4.8. Invertebrates	16
3.4.9. Invasive Plants	16

<b>4. Conclusions and Recommendations</b>	<b>18</b>
<b>4.1. Designated Sites</b>	<b>18</b>
<b>4.2. Habitats</b>	<b>18</b>
<b>4.3. Protected and Notable Species</b>	<b>18</b>
4.3.1. Water Vole and Otter	18
4.3.2. Badgers	18
4.3.3. Bats	19
4.3.4. Section 41 Terrestrial Mammals	19
4.3.5. Amphibians	20
4.3.6. Reptiles	20
4.3.7. Breeding Birds	20
4.3.8. Invertebrates	21
4.3.9. Other Species	21
<b>4.4. Opportunities for Enhancement</b>	<b>21</b>

## **Figures**

- Figure 1 Site Location**
- Figure 2 Survey Results**

**Appendix A Ecological Records Data**

**Appendix B Site Photographs**

## Executive Summary

BiOME Consulting Ltd. was commissioned by GeoSmart Information in January 2018 to undertake an Extended Phase 1 Habitat Survey (EP1HS) at a site off Sheering Lower Road, Sawbridgeworth ('the site'), Hertfordshire, which is proposed for redevelopment.

This survey was undertaken in order to establish the baseline ecological conditions of the site, and immediately adjacent areas with particular attention given to the possible presence of protected or otherwise notable species. The results of the EP1HS have been used to identify potential constraints to the proposed development and recommend further ecological work required to inform a planning application, when required.

In relation to the proposed development of the site, the following potential ecological issues were identified, with consequent recommendations:

- One statutorily designated site was present within 2km of the site; Sawbridgeworth Marsh SSSI (0.65km away) and a number of non-statutorily designated sites were also present within the search area. All are designated primarily due to the habitats they support. During construction works, measures will need to be employed to ensure that works are completed in line with environmental management best practice to ensure that no impacts to these sites occurs. These measures should be documented in a Construction Environmental Management Plan, to be produced prior to the start of site works.
- The site provides suitable foraging habitat for Badgers although no evidence of this species was present. Taking into account the nature of habitats around the sites periphery (although not in close proximity) it is possible that Badger setts are present just outside of the site, and mitigation measures are recommended to ensure that no Badgers are harmed during construction.
- No trees with the potential to support roosting bats were identified within or adjacent to the site and the desk study returned few records of bats. The site supported some habitats and linkages to the wider environment (i.e. hedges) which bats could use for commuting, as well as foraging. Development lighting should be sympathetic, and to minimise the potential for disturbance to bats lighting at the sites periphery should be minimised to avoid light trespass into the environment.

- Habitats within the site with the potential to support breeding birds will be lost to the development. To mitigate for this loss, the installation of five bird boxes to benefit species of conservation concern is recommended.
- If possible, vegetation/tree clearance should be completed outside the bird nesting season (1 March to 31 July), although it should be noted that the nesting period may extend beyond these dates (for example, pigeons can breed in any month of the year in the UK). If vegetation clearance must be undertaken during the nesting season, a survey to identify any nests which may be impacted will be required. This survey should be undertaken by a suitably experienced person. Should an occupied nest or nest under construction be found, works must cease in this area until the birds have fledged or the nest has been abandoned.
- Opportunities exist to create small areas of enhanced habitat, increase habitat connectivity through the filling of hedgerow gaps and to use native species in any landscape planting. Such measures would be beneficial to nature conservation and show compliance with the latest policy guidance.

## 1. Introduction

BiOME Consulting Ltd was commissioned by GeoSmart Information in January 2018 to undertake an Extended Phase 1 Habitat (EP1HS) survey at a parcel of land off Sheering Lower Road, Sawbridgeworth.

These surveys were undertaken in order to establish the baseline ecological conditions of the site, and adjacent areas, to be effected by the proposed works, with particular attention given to the possible presence of protected or otherwise notable species. The results of the survey have been used to identify potential constraints to the proposed development and recommend any further ecological work required to inform a planning application, when required.

### 1.1. Site Description

The site is situated on the eastern edge of Sawbridgeworth, Hertfordshire, centred on National Grid Reference (NGR) TL 49193 14981. The site is predominantly grassland, which is thought to have been grazed by horses in the recent past. Scrub and hedgerows bound the site, which have been cut recently.

Residential housing is present off site to the south, with housing and woodland (over Sheering Lower Road) to the west and farmland to the north and east.

## 2. Methodologies

### 2.1. Desk Study

Biological records data were obtained from both Essex Wildlife Trust (EWT) and Hertfordshire Environmental Records Centre (HERC) as the 2km buffer zone included areas covered by each. The provided data included:

- Protected and notable species records with 2km since 2006.
- Information in relation to non-statutorily designated sites within 2km.
- Information in relation to nationally and internationally designated sites within 2km.

Habitats and Species of Principal Importance<sup>1</sup> and the Local Biodiversity Action Plan (LBAP) priority habitats and species were reviewed to compare to those habitats and species either recorded within the site during the survey, or recorded as having potential to be present. The LBAP which covers this site is the Hertfordshire Biodiversity Action Plan<sup>2</sup>.

### 2.2. Extended Phase 1 Habitat Survey

A Phase 1 Habitat Survey (JNCC, 2010)<sup>3</sup> was undertaken on 15 January 2018, by an experienced ecologist, Martyn Owen MCIEEM, in suitable weather conditions (overcast, occasional light showers). In addition, an extended Phase 1 Survey broadly following the 'Extended Phase 1' methodology as set out in the IEA (1995)<sup>4</sup> guidance 'Guidelines for Baseline Ecological Assessment' was carried out both within the site and in the immediate surrounding area concurrently. Phase 1 Habitat Survey is a standard technique for rapidly obtaining baseline ecological information over a large area of land. It is primarily a mapping technique and uses a standard set of habitat definitions for classifying areas of land on the basis of the vegetation present.

During the survey, all areas within the parts of the site and accessible areas within c.20m were walked and habitat types recorded, along with predominant floral

---

1 Habitats and Species of Principal Importance are listed under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006.

2 Hertfordshire Environmental Forum (2006) *A Biodiversity Action Plan for Hertfordshire*

3 Joint Nature Conservation Council (2010) *Handbook for Phase 1 Habitat Survey – A Technique for Environmental Audit* (ISBN 0 86139 636 7).

4 IEA. (1995). *Guidelines for Baseline Ecological Assessment. Institute of Environmental Assessment.*

species within each habitat. Signs of protected species, invasive plants and other notable species were also searched for during the survey, as well as noting habitats considered to have the potential to support protected species.

The ultimate purpose of this EP1HS was to map key habitats and plant species assemblages, and identify the presence and/or potential for protected/notable/invasive species. This report presents an initial assessment of the ecological significance of the features currently present on the site, and the likelihood that the area supports species of conservation interest which may be affected by the proposed development. These are made by using target notes (TNs) to record species composition within habitats and to highlight features of ecological interest.

Prior to the completion of the site survey aerial imagery of the site was reviewed<sup>5</sup> to provide an indication of previous and current site uses and habitat types present in the area.

### 2.3. Bats

The identification of trees with the potential to support roosting bats within the site prompted the completion of surveys to assess presence/likely absence of bat roosts. These surveys were completed in line with relevant guidance<sup>6</sup>, as detailed below.

Preliminary ground level roost assessment surveys of all trees within and in close proximity (within c.10m) to the site were completed to determine their potential suitability for roosting bats. This assessment involved the detailed inspection of the exterior of each tree from ground level using binoculars and a high-powered torch (to illuminate Potential Roost Features (PRFs), where appropriate) to identify features that may support roosting bats. The species of each tree, the presence/absence of potentially suitable roost features, and if present, the nature of the feature and height above ground level were recorded. Where features were identified they were allocated to one of the categories detailed within **Table 1**.

---

<sup>5</sup> Google Maps [online] available at: <https://www.google.co.uk/maps> (accessed 14 January 2018)

<sup>6</sup> Collins, J. (ed.) (2016) *Bat Surveys for Professional Ecologists: Good Practice Guidelines* (3rd edn). The Bat Conservation Trust, London. ISBN-13 978-1-872745-96-1

**Table 1. Bat Roost Potential (BRP) category descriptions**

BRP Category		Description
0	Negligible	Negligible features likely to be used by roosting bats.
1	Low	A structure with one or more potential roost sites that could be used by individual bats opportunistically. However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of bats (i.e. unlikely to be suitable for maternity or hibernation). A tree of sufficient size and age to contain PRFs but with none seen from the ground or features seen with only very limited roosting potential.
2	Moderate	A structure or tree with one or more potential roost sites that could be used by bats due to their size, shelter, protection, conditions and surrounding habitat but unlikely to support a roost of high conservation status (with respect to roost type only – the assessments are made irrespective of species conservation status, which is established after presence is confirmed).
3	High	A structure or tree with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis and potentially for longer periods of time due to their size, shelter, protection, conditions and surrounding habitat.

#### 2.4. Limitations

The findings presented in this study represent those at the time of survey and reporting, and data collected from available sources. Ecological surveys are limited by factors which affect the presence of plants and animals, such as the time of year, migration patterns and behaviour.

The site survey was completed outside the optimal time window for the completion of EP1HS. However, taking into account the uniform nature of the site this is not considered a significant constraint. Completing the survey during the winter months enabled the detailed assessment of trees (in relation to bats) and scrub (in relation to Badgers *Meles meles*), which would have been difficult if vegetation was dense.

### 3. Results

The results of the desk study (Section 3.1) and the survey (Section 3.2) are presented below.

#### 3.1. Desk Study

Information in relation to statutorily and non-statutorily ecologically designated sites within 2km of the site centre area provided within Table 2.

Appendix A includes all species records returned during the desk study. Where relevant, these records are summarised within the following sections of this report.

**Table 2** Designated site details

Site	Approx. Distance from Site Centre	Description
<b>Statutory Sites</b>		
Sawbridgeworth Marsh Site of Species Scientific Interest (SSSI)	0.65km	One of the few remaining intact river valley marshes in Hertfordshire comprising habitats now much reduced in extent in southern Britain owing to drainage and agricultural improvement. The neutral alluvium of the River Stort's narrow flood plain here supports a diverse wetland flora. The habitat grades from reed bed and tall mixed fen communities through acid marshy grassland dominated by rushes, to neutral grassland on drier sloping ground. The flora supports an important invertebrate fauna.
<b>Non-Statutory Sites</b>		
Scrub E. of Railway, Sawbridgeworth Local Wildlife Site (LWS)	0.14km	Area of mixed species scrub with rank grassland in the north and remnant rank tall fen vegetation in the south.

Site	Approx. Distance from Site Centre	Description
Sawbridgeworth Meadows LWS	0.20km	A large area of old neutral grassland, of varying wetness, along the Stort valley. The grassland is generally rank and contains uneven tussocky ground with areas of scrub, marsh and swamp, and a network of ditches partly lined with Crack Willow <i>Salix fragilis</i> and shrubs.
Sawbridgeworth Marsh South & North East LWS	0.48km	This site has been left as a result of removing SSSIs from Wildlife Sites. It will be reviewed once survey data and a site assessment have been carried out.
Spill Timbers Wood LWS	0.75km	The flora and physical characteristic of this wood suggest that it is ancient, but it is too small to have been considered within the county Inventory.
Tednambury Meadows LWS	0.82km	A complex of unimproved, wet, neutral grassland with areas of marsh, tall fen, raised, dry disturbed grassland, scrub and areas of dry and wet broadleaved woodland.
Oak Spring LWS	1.00km	This ancient woodland has a rather open, "high forest" structure and has seemingly been heavily thinned and disturbed. The flora and structural composition suggest that this wood is ancient, although too small to appear on the Ancient Woodland Inventory.
Little Hyde Hall LWS	1.00km	This small woodland has a composition of mainly Hornbeam <i>Carpinus betulus</i> standards with some coppice.
Round Spring LWS	1.10km	This ancient wood remnant comprises abundant Hornbeam tree-sized coppice stools, with occasional Ash <i>Fraxinus excelsior</i> , Field Maple <i>Acer campestre</i> and Hazel <i>Corylus avellana</i> coppice and Pedunculate Oak <i>Quercus robur</i> standards.

Site	Approx. Distance from Site Centre	Description
Stort Meads LWS	1.15km	A series of alluvial damp to marshy semi-improved grasslands alongside the River Stort and Stort Navigation. The area is important for riparian mammals with both Water Vole <i>Arvicola amphibius</i> and Otter <i>Lutra lutra</i> recorded in the area.
Pishiobury Park LWS	1.27km	Parkland (probable a former deer park) with a pasture-woodland structure and elements of herb-rich grassland. Although the grassland shows some signs of improvement, extensive areas of unimproved neutral to calcareous grassland communities still persist.
The Osier Bed, Pishiobury Park LWS	1.38km	Old Alder <i>Alnus glutinosa</i> wood/plantation which is wet below, particularly towards the River Stort and along numerous internal drains.
River Stort Pishiobury Meander LWS	1.52km	A widened, meandering section of a River Stort back channel with records of Otter.
Rivers Nursery LWS	1.69km	A former nursery site supporting a mosaic of habitats including semi-improved neutral grassland, scrub and old orchard trees. The grassland is reasonably diverse.
Eighteenacre/Wren's Spring LWS	1.75km	This ancient wood comprises three fragments, with the large central section and a smaller area directly to the south being linked by a pond and a scattered band of secondary wood.

### 3.2. Site Survey

A total of eight habitat/boundary types were identified within site. The locations of these habitats are illustrated in Figure 2 with a selection of photographs included as Appendix B.

### 3.2.1. Scattered Trees; Broad-Leaved

Occasional immature and semi-mature Ash *Fraxinus Excelsior*, Elder *Sambucus nigra*, Sycamore *Acer Pseudoplatanus* trees were scattered across the site (Photograph 1).

### 3.2.2. Scrub; Dense/Continuous

Bramble *Rubus* sp. scrub was present along the northern site boundary and in the southwest of the site. This habitat would have been more widespread within the site but had been recently cut in a number of areas.

### 3.2.3. Poor Semi-Improved Grassland

The site was dominated by poor semi-improved grassland (Photograph 1), which appeared to have been used as horse-grazing pasture in the relatively recent past (evidenced by a derelict wooden stable-type structure in the south of the site (Photograph 2)). This habitat was succumbing to scrub around the site boundaries although this had been recently cut (Photograph 3).

### 3.2.4. Amenity Grassland

A strip of closely mown amenity grassland was present off site, adjacent to the north and western site boundary (along Sheering Lower Road).

### 3.2.5. Tall Ruderal

Tall ruderal vegetation was present within the site where scrub had been cleared. This had allowed Nettles *Urtica dioica* and to a lesser extent docks *Rumex* spp. and thistles *Cirsium* sp. to colonise. Present adjacent to the eastern and southern site boundaries, forming the interface between poor semi-improved grassland and hedges in these areas (Photograph 4)

### 3.2.6. Arable

An arable field, which had been recently ploughed at the time of the site survey, was present adjacent to the eastern site boundary.

### 3.2.7. Hedges and Trees; Species Poor

Hedges were present in a number of areas around the site boundary (Photograph 5). These hedges were dominated by Hawthorn and Blackthorn *Prunus spinosa*, with occasional isolated Ash, Elder, Sycamore and Elm *Ulmus minor*.

### 3.2.8. Fence

A wooden fence, which had collapsed in places, was present in the south of the site. Additionally, wire stock fencing was present around the site boundary although this has not been mapped. This fencing was in a poor state of repair along the eastern site boundary although intact in all other areas.

### 3.3. Habitat Evaluation

All of the habitats found within the site are common across England. The majority of the site had been subjected to intensive management in the recent past, and as such, any potentially valuable wildlife habitats have either been removed or had little time to develop.

One LBAP Priority Habitat was present immediately adjacent to the site boundary; Farmland. Arable field margins are also a S41 Priority Habitat.

Hedgerows are a S41 Priority Habitat, of which there are a number on site. These onsite hedgerows, which will likely be removed to facilitate development, are of low diversity (being dominated by Hawthorn and Blackthorn) and fragmented, rendering them of low ecological value.

### 3.4. Protected and Notable Species

A number of habitat features were identified within the survey area that were considered to have the potential to support legally protected species.

#### 3.4.1. Water Vole and Otter

Water Voles are protected under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended), making it an offence to kill, disturb or take this species. Their breeding and resting places are protected from damage, destruction or obstruction. Water Vole is also listed as a S41 and LBAP priority species.

The desk study returned four records of Otter, two in 2014 from Sawbridgeworth Marsh Nature Reserve, at least 0.65km from the site and two from a location at least 20m from the site (at an accuracy of 1.0km) in 2016. There was one record of Water Vole, at Sawbridgeworth Marsh in 2017.

A watercourse was identified on the Ordnance Survey (OS) map covering the area, approximately 10m to the north of the site boundary (Figure 2, TN1). However, this was found to be dry, despite much recent rain (Photograph 6).

### 3.4.2. Badger

Badgers are protected through the Protection of Badgers Act 1992, which makes it an offence to recklessly take, injure or kill a Badger or cause disturbance to its sett. Furthermore, Badgers are afforded protection from cruel ill-treatment, which has been defined to include preventing a Badger accessing its sett, as well as causing the loss of significant foraging resources within a Badger territory. Badgers are also protected through this species' inclusion on Schedule 6 of the Wildlife and Countryside Act 1981 (as amended), which prohibits their killing or taking by certain methods.

All areas within the site and up to c.20m from the site boundary were surveyed for signs of Badgers, and no setts or other evidence of Badgers was identified.

No Badger records were returned during the desk study.

Nevertheless, suitable habitats for this species are present around the site and the occasional presence of foraging Badgers within the site cannot therefore be discounted.

### 3.4.3. Bats

All bat species are European Protected Species (EPS) protected under the Conservation of Habitats and Species Regulations 2010 and receive protection under the Wildlife and Countryside Act 1981 (as amended). A number of bat species are also S41 and LBAP priority species.

A number of semi-mature trees were present within and adjacent to the site, all of which were assessed to consider their potential to support roosting bats. All trees were classed as having negligible potential (see Table 1), with no potential roost features identified.

The site supports some habitats and linkages (i.e. hedgerows) to the wider environment which bats could use for commuting and/or foraging.

The desk study returned the following records:

- Common Pipistrelle *Pipistrellus pipistrellus*; eight records, most recent in 2016 and all in excess of 190m from the site.
- Pipistrelle bat species; one record in 2010, located 0.8km from the site.
- Brown Long-eared Bat *Plecotus auritus*; two records, most recent in 2014 and all in excess of 190m from the site.

- Noctule *Nyctalus noctula*; one record in 2014, located in excess of 190m from the site.

#### 3.4.4. Other Section 41 Terrestrial Mammals

In England many of the rarest and most threatened species are included within Section 41 of the 2006 Natural Environment and Rural Communities Act. Although these species are afforded no additional legal protection, their rarity renders them an important consideration for planning applications. Section 40(1) of this Act imposes a duty to conserve biodiversity; '*Every public authority must, in exercising its function, have regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity*'. Section 40(3) of the Act explains that '*Conserving biodiversity includes, in relation to living organism or type of habitat, restoring or enhancing a population or habitat*'.

It is considered possible that the survey focus area could support occasional foraging Hedgehogs *Erinaceus europaeus*. This species is most abundant where grassland is in close proximity to woodland, scrub or hedgerows and is most common in suburban environments<sup>7</sup>. The desk study did not return any records of this species, although it is considered likely that this species is present in the area.

Recent surveys have found that the Polecat *Mustela putorius* is currently expanding its range across much of the Britain, and are now more widespread than at any time in the last 100 years<sup>8</sup>. No *Mustela* evidence of any sort was recorded during the site survey (although such evidence is easily overlooked). Given the habitats present on the survey focus area, it is considered unlikely that this species occurs with any regularity. Furthermore, there were no records of this species returned during the desk study.

Brown Hare *Lepus europaeus* were not recorded during the site visit. This species is most common in arable areas, where cereal growing predominates<sup>7</sup>. Given the nature of the site, it is considered unlikely that this species occurs with any regularity. This is supported by the results of the desk study, which did not return any records of this species.

Harvest Mice *Micromys minutus* require areas of tall, dense grassy vegetation and favour agricultural areas<sup>7</sup>; such habitats were absent from the site. No evidence

---

<sup>7</sup> Harris, S. & Yalden, D.W. (eds.) (2008). *Mammals of the British Isles: Handbook*, 4<sup>th</sup> Edition. The Mammal Society

<sup>8</sup> Croose, E. (2016). *The Distribution and Status of the Polecat (*Mustela putorius*) in Britain 2014-2015*. The Vincent Wildlife Trust

of this species was recorded and it is considered unlikely to occur within the site. The desk study returned one record of this species, from 2007 located at Sawbridgeworth Marsh, at least 0.65km from the site. It is considered highly unlikely that this species is present within or in close proximity to the site.

Hazel Dormouse *Muscardinus avellanarius* favours deciduous woodland with a well-developed shrub layer, overgrown hedgerows, scrub and plantations where the shrub layer is suitable. No such habitats were present within the site, and no records of this species were returned during the desk study; this species is therefore considered highly unlikely to be present.

The site is well outside of the known ranges of Mountain Hare *Lepus timidus*, Pine Marten *Martes martes* and Red Squirrel *Sciurus vulgaris*.

### 3.4.5. Amphibians

A number of amphibian species are legally protected under Section 9 of the Wildlife and Countryside Act 1981, as listed under Schedule 5. GCN are given additional protection as a EPS, as defined under the EC Habitats and Species Directive 92/43/EEC. Common Toad *Bufo bufo*, Natterjack Toad *Epidalea calamita*, Pool Frog *Pelophylax lessonae* and Great Crested Newt *Triturus cristatus* are S41 species with newts (all UK resident species) and Natterjack Toad also included as LBAP priority species.

No ponds were present within the site, and the one water feature in close proximity was found to be dry at the time of the site survey. The nearest pond identified on the relevant OS map was located in an inaccessible area in excess of 0.3km to the north, although aerial imagery suggested this pond was no longer present. This pond, if present, is located on the opposite side of a busy road (Sawbridgeworth Road) and bordered to the east by deciduous woodland. It is therefore considered highly unlikely that should this pond support any populations of amphibians they would occur within the site.

The desk study returned one record of Great Crested Newt *Triturus cristatus*, in excess of 1.5km from the site in 2017.

Given the absence of water bodies within the site and nearby, combined with the results of the desk study, it is considered highly unlikely that significant populations of amphibians occur on or near to the site.

### 3.4.6. Reptiles

Reptiles are protected under Schedule 5 of the Wildlife and Countryside Act 1981. Section 9(1) of the Wildlife and Countryside Act 1981 prohibits the killing, injuring or taking by any method. All native reptiles are also S41 priority species.

Habitats favoured by reptiles tend to be sunny, well-drained and often south-facing. Typical habitats include grass and heather-dominated heathland, chalk downland, coppiced woodland, sand dunes, disused allotments, suburban wasteland, road/railway embankments, golf course roughs, rough grassland, open woodland and woodland edge, immature plantation forestry, sea cliffs, moorland, disused quarries, non-intensive farmland and wild gardens. In addition, Grass Snakes *Natrix natrix* favour damp habitats<sup>9</sup>.

The desk study returned the following records:

- Common Lizard *Zootoca vivipara*; two records from Sawbridgwoth Marsh NR (at least 0.65km from the site), most recently in 2017.
- Grass Snake; one record from Sawbridgwoth Marrsh NR (at least 0.65km from the site), most recently in 2017.

Habitats within the site were considered largely unsuitable for reptiles being predominately north facing, intensively managed and subject to much disturbance in the past.

### 3.4.7. Birds

All wild birds (defined as species which are resident or are visitors to the UK, but generally not game birds) are protected by the Wildlife and Countryside Act 1981 (as amended). As far as planning and development is concerned, it is an offence to kill, injure or take any wild bird. Some species, listed in Schedule 1 of the Act, are protected by special provisions because of their rarity and it would constitute an offence to disturb them while nesting (which includes nest building). It is also an offence to disturb dependent young of a Schedule 1 bird. A number of bird species are also included within S41.

---

<sup>9</sup> Froglife (1999). *Froglife Advice Sheet 10; Reptile Survey. An introduction to planning, conducting and interpreting surveys for snake and lizard conservation*

The desk study returned records of a number of birds of conservation concern, as well as records of eight Schedule 1 (of the Wildlife and Countryside Act 1981 (as amended)) species.

Bird species recorded on, or in close proximity to, the survey focus area during the survey comprised Wood Pigeon *Columba palumbus*, Blackbird *Turdus merula*, Dunnock *Prunella modularis*, Goldcrest *Regulus regulus* and Wren *Troglodytes troglodytes*.

No features or habitats were identified that were considered to have the potential to support breeding birds that are included on Schedule 1 of the Wildlife & Countryside Act 1981 (as amended).

Habitats around the periphery of the site have the potential to support a range of breeding birds, including a number of species of conservation concern (i.e. species include on the Red or Amber list<sup>10</sup>).

#### 3.4.8. Invertebrates

A number of invertebrate species are afforded legal protection under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended). These species are protected from intentional killing, injuring or taking, possession or control, intentional damage/destruction of any structure or place used for shelter or protection, intentional disturbance while occupying such a structure/place, selling or offering for sale or buying. Numerous species are also included on S41 of the NERC Act. The desk study returned records of a variety of invertebrates (Appendix A), predominately moths from nearby locally and nationally designated sites (Pishiobury Park LWS/Sawbridgeworth Marsh SSSI, see Table 2).

Taking into account the uniform nature of the habitats within the site and the abundance of similar habitats in the area it is considered highly unlikely that significant populations or species of invertebrates are present.

#### 3.4.9. Invasive Plants

No non-native invasive plants listed on Schedule 9 of the Wildlife & Countryside Act 1981 (as amended), e.g. Himalayan Balsam *Impatiens glandulifera*, Giant

---

<sup>10</sup> Eaton, M., Aebischer, N., Brown, A., Hearn, R., Lock, L., Musgrove, A., Noble, D., Stroud, D., and Gregory, R, (2015). *Birds of Conservation Concern 4: the population status of birds in the UK, Channel Islands and Isle of May*. British Birds 108, 708-746

Hogweed *Heracleum sphondylium*, Japanese knotweed etc. were observed during the survey.

## 4. Conclusions and Recommendations

### 4.1. Designated Sites

One statutorily designated site was present within 2km of the site; Sawbridgeworth Marsh SSSI (0.65km away). A number of non-statutorily designated sites were also present within the search area, the closest of which were Scrub E. of Railway, Sawbridgeworth LWS (0.14km), Sawbridgeworth Meadows LWS (0.20km), Sawbridgeworth Marsh South & North East LWS (0.48km) with all other sites in excess of 0.75km from the site. All are designated primarily due to the habitats they support.

During construction works, measures will need to be employed to ensure that works are completed in line with environmental management best practice to ensure that no impacts to these sites occurs. These measures should be documented in a Construction Environmental Management Plan (CEMP), to be produced prior to the start of site works.

Assuming the precautions detailed within the CEMP are adhered to, taking into account the distance of these designated sites from the development site, combined with the reasons for which they are designated, no significant impacts are anticipated in relation to designated sites.

### 4.2. Habitats

None of the habitats identified on-site are considered to be of significant ecological value, and are not considered to represent a significant constraint to the future redevelopment of the site.

### 4.3. Protected and Notable Species

#### 4.3.1. Water Vole and Otter

Taking into account the results of the site survey and desk study, these species are considered absent from the site and adjacent areas. No impacts or breaches of legislation are anticipated and no further works deemed necessary.

#### 4.3.2. Badgers

The site provides foraging habitat for this species although no evidence of this species was recorded. Taking into account the nature of habitats around the site periphery (although not in close proximity) it is possible that Badgers setts are

present in these areas and it would therefore be prudent to consider this species during development of the site, this may include:

- covering trenches (if required) at the conclusion of each working day, or include a means of escape for any animal falling into excavations, and
- any temporarily exposed open pipe system (if required) should be capped in such a way as to prevent Badgers gaining access.

Assuming these precautions are taken, no significant impacts or breaches of legislation in relation to Badgers are anticipated.

#### 4.3.3. Bats

No trees with the potential to support roosting bats were identified within or adjacent to the site and the desk study returned few records. The site supported some habitats and linkages to the wider environment (*i.e.* hedges) which bats could use for commuting, as well as foraging.

Development lighting (during construction and operation) should be sympathetic to bats. To minimise the potential for disturbance, lighting at the sites periphery should be minimised to avoid light trespass into the environment<sup>11</sup>.

Taking into account the nature of the surrounding habitats, the loss of commuting/foraging habitats within the site is not considered to represent a significant negative effect.

Assuming the above mitigation is employed, no significant impacts or breaches of legislation in relation to bats are anticipated.

#### 4.3.4. Section 41 Terrestrial Mammals

It is possible that Hedgehog occurs within the site, although the desk study results suggest that it is not common in the area, with no records returned. No other Section 41 terrestrial mammals are thought likely to occur within the site with any regularity. No significant impacts are therefore anticipated in relation to these species, and not further works deemed necessary.

---

<sup>11</sup> Stone, E.L. (2013) *Bats and lighting: Overview of current evidence and mitigation guidance*

#### 4.3.5. Amphibians

Given the absence of water bodies within the site and nearby, combined with the results of the desk study, it is considered highly unlikely that significant populations of amphibians occur on or near to the site. No significant impacts or breaches of legislation are therefore anticipated in relation to amphibians, and no further works are deemed necessary.

#### 4.3.6. Reptiles

Habitats within the site were considered largely unsuitable for reptiles being predominately north facing, intensively managed and subject to much disturbance in the past. This combined with the results of desk study, which did not return any reptile records in close proximity to the site, suggests strongly that reptiles are likely absent from the site.

No significant impacts or breaches of legislation are therefore anticipated in relation to reptiles, and no further works are deemed necessary. However, in the highly unlikely event that reptiles are encountered, all works must cease and the advice of an appropriately qualified ecologist sought.

#### 4.3.7. Breeding Birds

Habitats within the site with the potential to support breeding birds will be lost to the development. To mitigate for this loss, the installation of five bird boxes to benefit species of conservation concern (e.g. Swift *Apus apus* and/or House Sparrow *Passer domesticus* on built structures) is recommended.

If possible, vegetation/site clearance should be completed outside the bird nesting season (1 March to 31 July), although it should be noted that the nesting period may extend beyond these dates (for example, pigeons can breed in any month of the year in the UK). Should an occupied bird nest or a nest in the process of being constructed be encountered during works, clearance must cease in this area and should only re-commence once the birds have fledged or the nest is abandoned.

If vegetation clearance must be undertaken during the nesting season, a survey to identify any nests which may be impacted will be required. This survey should be undertaken by a suitably experienced person. Again, should an occupied nest or nest under construction be found, works must cease in this area until the birds have fledged or the nest has been abandoned.

#### 4.3.8. Invertebrates

Taking into account the results of the site survey and desk study, significant species/populations of invertebrates are considered absent from the site and adjacent areas. No impacts or breaches of legislation are anticipated and no further works are deemed necessary.

#### 4.3.9. Other Species

Taking into account the results of the site walkover survey, the nature of the site and the results of the desk study, no further works in relation to other species are considered necessary at this time.

#### 4.4. Opportunities for Enhancement

The National Planning Policy Framework (NPPF) sets out national planning policies for the protection of biodiversity (and geological) conservation through the planning system. A key principle of NPPF is that, 'Opportunities to incorporate biodiversity in and around developments should be encouraged'. Taking the requirements of NPPF into account, opportunities should be sought where possible for nature conservation enhancement at this site.

Opportunities exist to create small areas of enhanced habitat, increase habitat connectivity through the filling of hedgerow gaps around the site periphery if retained and to use native species in any landscape planting. Such measures would be beneficial to nature conservation and show compliance with the latest policy guidance.

## Figures

Figure 1 Site Location

Figure 2 Survey Results



**Sheering Lower Road,  
Sawbridgeworth  
Extended Phase 1  
Habitat Survey**

Site Boundary

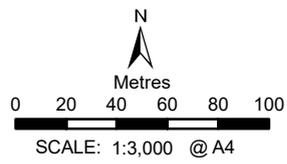


Figure 1  
Site Location

CONTENT: MO  
 CHECKED: MO  
 DRAWN: JG  
 VER: 1.0  
 DATE: 24/01/2018



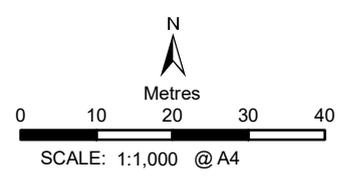


- Key**
- A3.1 - Broad-leaved scattered trees
  - ▨ A2.1 - Dense continuous scrub
  - SI B6 - Poor semi-improved grassland
  - ▨ C3.1 - Tall ruderal
  - A J1.1 - Arable
  - ▲ J1.2 - Amenity Grassland
  - ▨ J2.3.2 Species poor hedges and trees
  - |||| J2.4 - Fence
  - ⊙ Target Note
  - ▭ Site Boundary

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**Sheering Lower Road,  
Sawbridgeworth  
Extended Phase 1  
Habitat Survey**

Figure 2  
Survey Results



CONTENT: MO  
 CHECKED: MO  
 DRAWN: JG  
 VER: 1.0  
 DATE: 24/01/2018

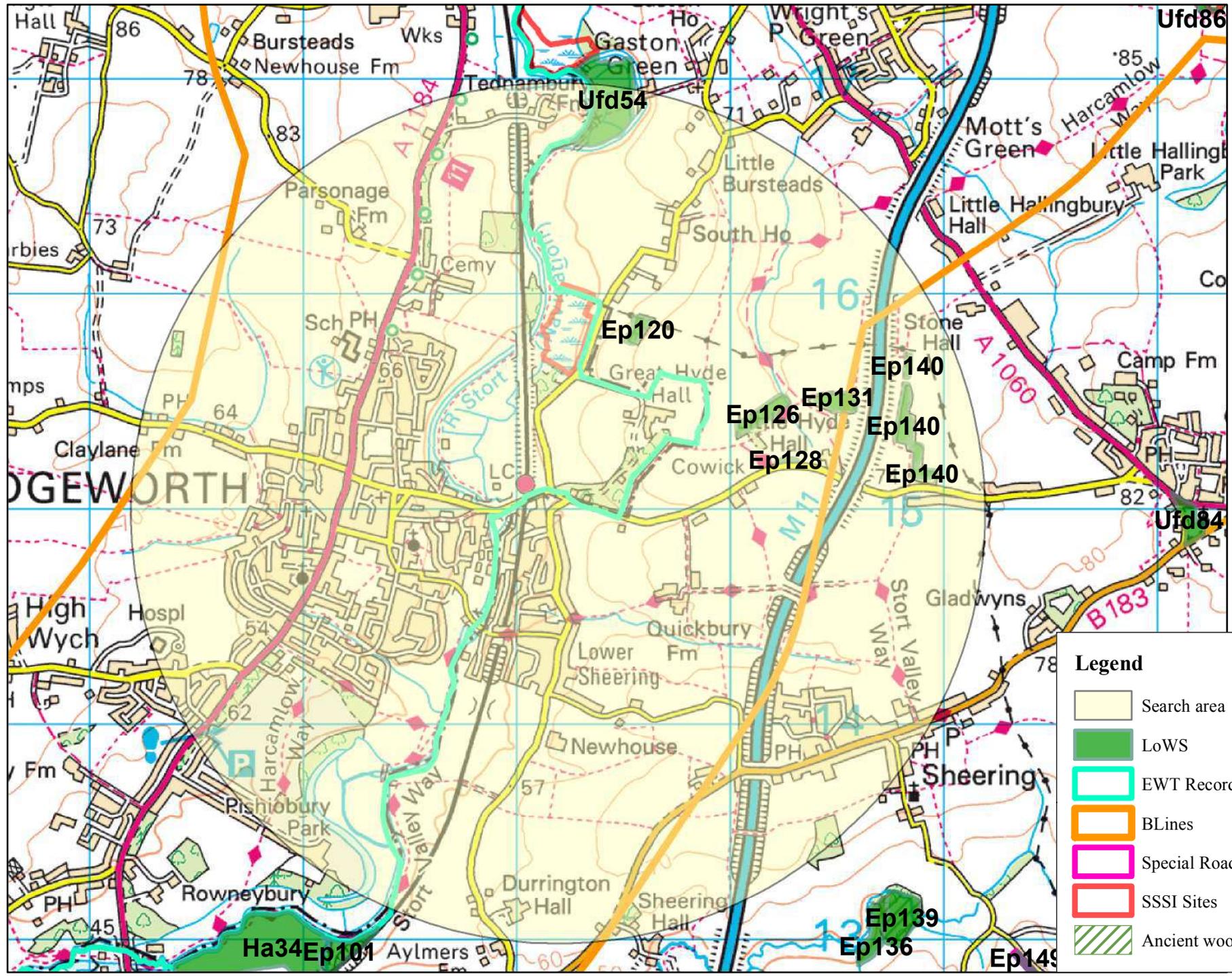


## Appendix A Ecological Records Data

Essex Wildlife Trust Records Centre data search - designated sites within search boundary for Lower Sheering Road, Sawbridgeworth area



Essex Wildlife Trust  
 Biological Records Centre  
 Abbots Hall Farm  
 Great Wigborough  
 Essex  
 CO5 7RZ  
  
[www.essexwtrecords.org.uk](http://www.essexwtrecords.org.uk)  
[records@essexwt.org.uk](mailto:records@essexwt.org.uk)  
[@EssexWTrecords](https://twitter.com/EssexWTrecords)



**Legend**

- Search area
- LoWS
- EWT Records centre boundary
- BLines
- Special Roadside Verges
- SSSI Sites
- Ancient woodland

0 0.25 0.5 1 Kilometers

1:24,000

Crown Copyright ©. All Rights Reserved.  
 Ordnance Survey Licence Number: 100025798

Date: 16/01/2018

Created by : Dana Knollova

Lower Sheering Road,  
Sawbridgeworth area  
2km radius around Grid ref.TL  
49193 14981

**TED AND DESIGNATED SPECIES RECORDS, INCLUDING SPIE (Species of Principal Importance in England, formerly BAP) RECORDS**

may appear on the legally protected and designated species list  
one where a site has been surveyed and no signs were seen on that occasion

Taxon Name	Common Name	Sample Date	Location	Spatial Reference	Abundance
Hoplodrina blanda	Rustic	21/07/2007	Sawbridgeworth Marsh EssexWT	TL49221573	1 Count
Micromys minutus	Harvest Mouse	22/12/2007	Sawbridgeworth Marsh EssexWT.Great Valet Homes	TL49091556	Present Count of Adult
Poecile montana	Willow Tit	26/04/2007	Sawbridgeworth Marsh EssexWT.North Mead	TL49211584	1 Count of Adult
Natrix natrix	Grass Snake	01/06/2004 - 30/06/2004	Sawbridgeworth Marsh EssexWT	TL49221573	Present Count
Dendrocopos minor	Lesser Spotted Woodpecker	27/01/2008	Sawbridgeworth Marsh EssexWT.North Mead	TL49211584	1 Count of Adult
Vanellus vanellus	Lapwing	22/04/2007	Sawbridgeworth Marsh EssexWT.North Mead	TL49211584	1 Count of Adult Male
Caradrina morpheus	Mottled Rustic	21/07/2007	Sawbridgeworth Marsh EssexWT	TL49221573	1 Count
Vanellus vanellus	Lapwing	22/04/2007	Sawbridgeworth Marsh EssexWT.North Mead	TL49211584	1 Count of Adult Female
Athene noctua	Little Owl	15/06/2007	Sawbridgeworth Marsh EssexWT.North Mead	TL49211584	1 Count of Adult
Dactylorhiza incarnata	Early Marsh-orchid	14/05/2009	Sawbridgeworth Marsh EssexWT.Rush Mead	TL49311585	8 Count of Flowering
Locustella naevia	Grasshopper Warbler	19/04/2009	Sawbridgeworth Marsh EssexWT.North Mead	TL49221585	1 Count of Adult Male
Saxicola rubicola	Stonechat	20/03/2010	Sawbridgeworth Marsh EssexWT.Rush Mead	TL49311585	1 Count of Adult Female
Zootoca vivipara	Common Lizard	17/08/2009	Sawbridgeworth Marsh EssexWT.Rush Mead	TL49311585	1 Count of Adult
Dendrocopos minor	Lesser Spotted Woodpecker	06/02/2009	Sawbridgeworth Marsh EssexWT.North Mead	TL49221585	1 Count of Adult Male
Dactylorhiza praetermissa	Southern Marsh-orchid	29/05/2012	Sawbridgeworth Marsh Essex EssexWT, Rush Mead South	TL493158	13 Count
Dactylorhiza praetermissa	Southern Marsh-orchid	12/06/2012	Sawbridgeworth Marsh EssexWT	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	31/05/2012	Sawbridgeworth Marsh EssexWT, Grazing Enclosure	TL492157	6 Count
Dactylorhiza incarnata	Early Marsh-orchid	12/06/2012	Sawbridgeworth Marsh EssexWT	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	31/05/2012	Sawbridgeworth Marsh EssexWT, Rush Mead North	TL493159	6 Count
Alcedo atthis	Kingfisher	09/04/2015	Sawbridgeworth Marsh EssexWT	TL49101554	1 Adult Count of Male
Rallus aquaticus	Water Rail	04/12/2014	Sawbridgeworth Marsh EssexWT	TL49151586	1 Count of Adult
Dactylorhiza praetermissa	Southern Marsh-orchid	26/06/2015	Sawbridgeworth Marsh EssexWT	TL49311584	551 Count
Mustela putorius subsp. furo	Feral Ferret	01/03/2015	Lower Sheering	TL491138	1 Count
Buteo buteo	Buzzard	26/02/2016	Sheering	TL49921362	1 Count
Lutra lutra	European Otter	22/06/2014	River Stort, Sawbridgeworth Station ST6	TL4923016034	1 Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2013	Sawbridgeworth Marsh EssexWT. Peat Bank South	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2014	Sawbridgeworth Marsh EssexWT. Peat Bank South	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2015	Sawbridgeworth Marsh EssexWT. Peat Bank South	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2003	Sawbridgeworth Marsh EssexWT. Peat Bank North -(S)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2004	Sawbridgeworth Marsh EssexWT. Peat Bank North -(S)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2005	Sawbridgeworth Marsh EssexWT. Peat Bank North -(S)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2006	Sawbridgeworth Marsh EssexWT. Peat Bank North -(S)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2010	Sawbridgeworth Marsh EssexWT. Peat Bank North -(S)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2011	Sawbridgeworth Marsh EssexWT. Peat Bank North -(S)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2013	Sawbridgeworth Marsh EssexWT. Peat Bank North -(S)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2014	Sawbridgeworth Marsh EssexWT. Peat Bank North -(S)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2015	Sawbridgeworth Marsh EssexWT. Peat Bank North -(S)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2003	Sawbridgeworth Marsh EssexWt. Peat Bank North -(N)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2004	Sawbridgeworth Marsh EssexWt. Peat Bank North -(N)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2005	Sawbridgeworth Marsh EssexWt. Peat Bank North -(N)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2006	Sawbridgeworth Marsh EssexWt. Peat Bank North -(N)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2011	Sawbridgeworth Marsh EssexWt. Peat Bank North -(N)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2013	Sawbridgeworth Marsh EssexWt. Peat Bank North -(N)	TL493158	Present Count

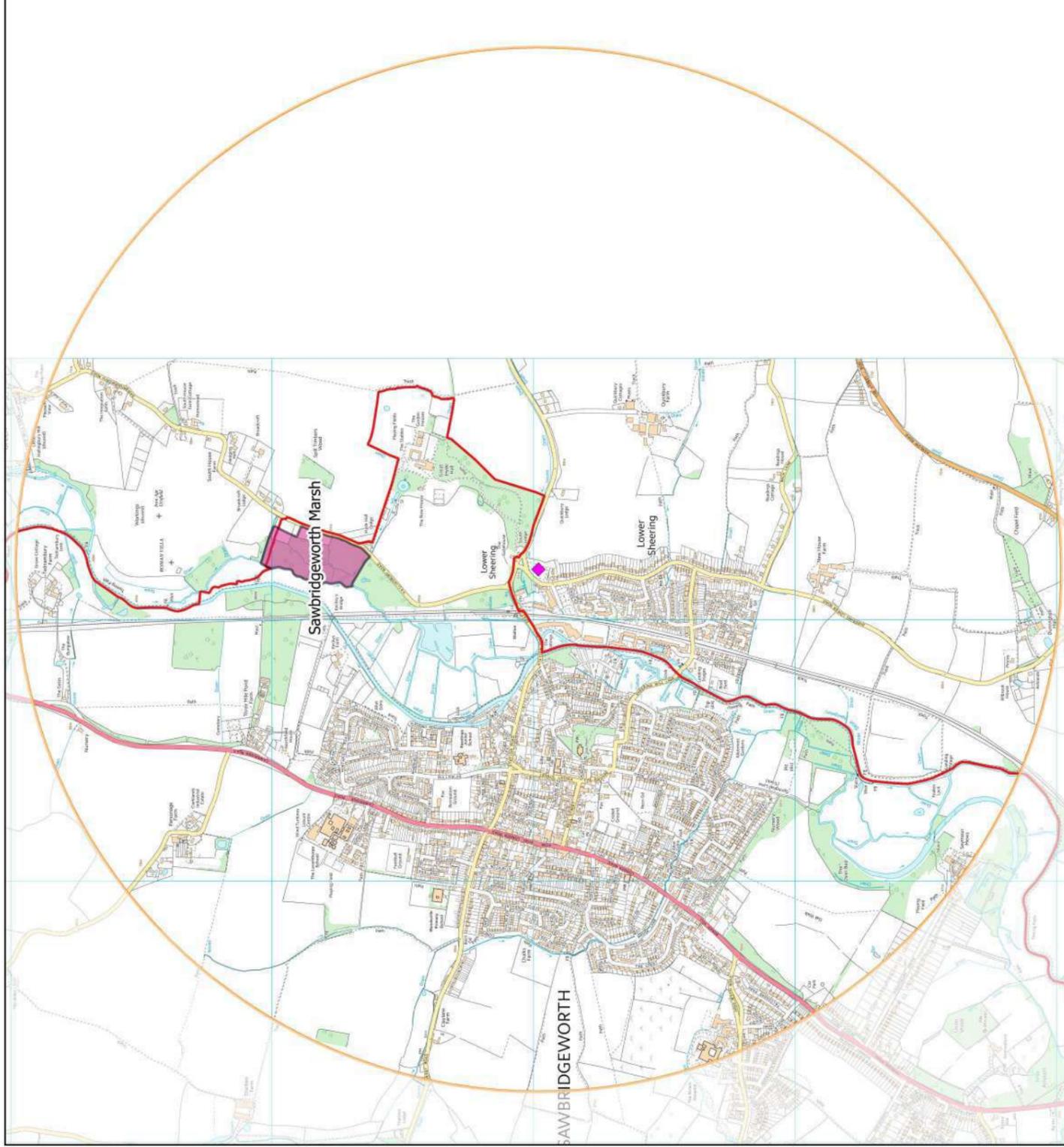
Dactylorhiza praetermissa	Southern Marsh-orchid	2014	Sawbridgeworth Marsh EssexWt. Peat Bank North -(N)	TL493158	Present Count
Dactylorhiza praetermissa	Southern Marsh-orchid	2015	Sawbridgeworth Marsh EssexWt. Peat Bank North -(N)	TL493158	Present Count
Euphorbia lathyris	Caper Spurge	22/08/2016	Sheering Copse	TL50581419	Present Count
Pinus sylvestris	Scots Pine	22/08/2016	Sheering Copse	TL50581418	50 Count
Buteo buteo	Buzzard	22/08/2016	Sheering Copse	TL50581418	Present Count
Columba palumbus	Woodpigeon	22/08/2016	Sheering Copse	TL50581418	Present Count
Turdus merula	Blackbird	22/08/2016	Sheering Copse	TL50581418	Present Count
Garrulus glandarius	Jay	22/08/2016	Sheering Copse	TL50581418	Present Count
Parus major	Great Tit	22/08/2016	Sheering Copse	TL50581418	Present Count
Cyanistes caeruleus	Blue Tit	22/08/2016	Sheering Copse	TL50581418	Present Count
Passer domesticus	House Sparrow	22/08/2016	Sheering Copse	TL50581418	Present Count
Troglodytes troglodytes	Wren	22/08/2016	Sheering Copse	TL50581418	Present Count
Turdus viscivorus	Mistle Thrush	22/08/2016	Sheering Copse	TL50581418	Present Count
Hyacinthoides non-scripta	Bluebell	2009	Spill Timbers Wood Ep120	TL495158	Present Count
Hyacinthoides non-scripta	Bluebell	2009	Oak Spring Ep126	TL502154	Present Count
Hyacinthoides non-scripta	Bluebell	2009	Little Hyde Hall Wood Ep128	TL502152	Present Count
Hyacinthoides non-scripta	Bluebell	2009	Round Spring Ep131	TL504154	Present Count
Hyacinthoides non-scripta	Bluebell	2009	Eighteenacre/Wren's Spring Ep140, central and southern sections	TL508154	Present Count
Triturus cristatus	Great Crested Newt	12/06/2017	Durrington House, Sheering	TL490131	1 Count of Male; 5 Count of Female
Natrix natrix	Grass Snake	07/07/2017	Sawbridgeworth Marsh EssexWT	TL49201581	1 Count of Juvenile
Arvicola amphibius	European Water Vole	07/07/2017	Sawbridgeworth Marsh EssexWT	TL49191575	present Count
Cettia cetti	Cetti's Warbler	27/06/2017	Sawbridgeworth Marsh EssexWT	TL493158	1 Count
Milvus milvus	Red Kite	30/06/2017	Sawbridgeworth	TL4915	1 Count
Picus viridis	Green Woodpecker	30/06/2017	Sawbridgeworth Marsh EssexWT	TL4915	1 Count
Zootoca vivipara	Common Lizard	06/08/2017	Sawbridgeworth Marsh EssexWT	TL49251577	3 Count of Adult
Carduelis carduelis	Goldfinch	27/06/2017	Sawbridgeworth Marsh EssexWT	TL493158	1 Count
Emberiza schoeniclus	Reed Bunting	27/06/2017	Sawbridgeworth Marsh EssexWT	TL493158	1 adult Count of Male

**NOTE:**

**Confidential Records Excluded**

## National Sites Map 1

Search Information	
	Search area
	Search point
National Sites	
	Statutory Sites
	SSSI
Administrative Area	
	Herts County Boundary



© Crown copyright and database rights 2017 Ordnance Survey 100019606. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form. (This restriction may not apply to HCC and its licensed contractors, agents & partners.)

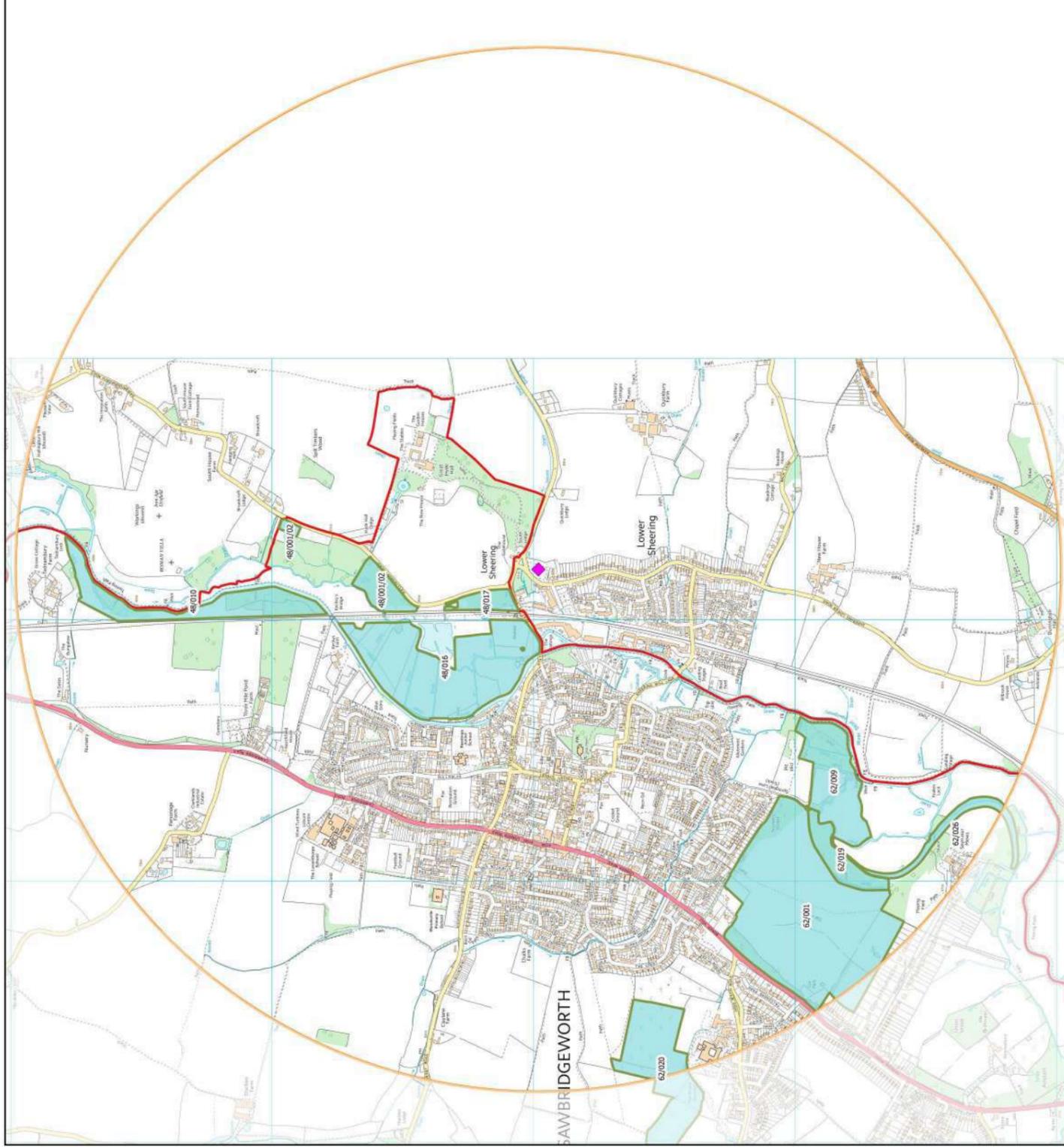
Contains, or is derived from, information supplied by Ordnance Survey. © Crown copyright and database right 2017. All rights reserved. Ordnance Survey Licence number 100022021.



16/01/2018

## Local Sites Map 1

Search Information	
	Search area
	Search point
Local Sites	
	Local Wildlife Sites
Administrative Area	
	Herts County Boundary



© Crown copyright and database rights 2017 Ordnance Survey 100019606. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form. (This restriction may not apply to HCC and its licensed contractors, agents & partners.)

Contains, or is derived from, information supplied by Ordnance Survey. © Crown copyright and database right 2017. All rights reserved. Ordnance Survey Licence number 100022021.



16/01/2018



# Herts Environmental Record Centre

Distance (m)	Common Name	Scientific Name	Taxon Group	Grid Reference	Earliest Record	Latest Record	Number of Records	European	UKLegal	NERC	BAP2007	IUCN	ScarceRare	BerneBonn BirdsDir	LocalStatus	WCA9	Status Designations
220	Wall	<i>Lasiommata megera</i>	insect - butterfly	TL490151	02/08/1985	02/08/1985	1			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
270	Wall	<i>Lasiommata megera</i>	insect - butterfly	TL491152	02/08/1985	02/08/1985	1			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
300	Mallard	<i>Anas platyrhynchos</i>	bird	TL489151	02/08/1985	02/08/1985	2					x		x			BAmb;CMS_A2
300	Pied Wagtail	<i>Motacilla alba</i>	bird	TL489151	02/08/1985	02/08/1985	1							x			Bern2
300	Pied Wagtail	<i>Motacilla alba subsp. yarrellii</i>	bird	TL489151	02/08/1985	02/08/1985	1							x			Bern2
350	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL488150	May-89	Feb-98	2		x	x	x						WCA5/9.4.a, WCA5/9.4b;Sect.41;BAP-2007, LBAP
370	Common Lizard	<i>Zootoca vivipara</i>	reptile	TL491153	28/09/1994	28/09/1994	1		x	x	x						WCA5/9.1k/l;Sect.41;BAP-2007
450	House Sparrow	<i>Passer domesticus</i>	bird	TL487150	14/08/2009	14/08/2009	1			x	x	x					Sect.41;BAP-2007;BRed
470	Grass Snake	<i>Natrix natrix</i>	reptile	TL487151	03/08/1999	03/08/1999	1			x	x						Sect.41;BAP-2007
490	Swift	<i>Apus apus</i>	bird	TL48711485	01/01/2007	01/01/2007	1					x					BAmb
510	Bullhead	<i>Cottus gobio</i>	bony fish (Actinopterygii)	TL4883815348	29/04/2009	29/04/2009	1	x									HSD2p
520	Marsh Ragwort	<i>Senecio aquaticus</i>	flowering plant	TL487152	14/09/1991	14/09/1991	1					x					RDBEN.NT
580	Common Valerian	<i>Valeriana officinalis</i>	flowering plant	TL488154	26/09/1996	26/09/1996	1					x					RDBEN.NT
580	Harvest Mouse	<i>Micromys minutus</i>	terrestrial mammal	TL488154	Feb-98	Feb-98	1			x	x						Sect.41;BAP-2007
600	European Eel	<i>Anguilla anguilla</i>	bony fish (Actinopterygii)	TL4864015219	18/04/2011	18/04/2011	1			x	x	x					Sect.41;BAP-2007;RLGLB.CR
650	Greylag Goose	<i>Anser anser</i>	bird	TL487154	04/05/2003	04/05/2003	1	x				x		x			WCA1ii;BAmb;CMS_A2
650	Little Owl	<i>Athene noctua</i>	bird	TL487154	06/05/2003	06/05/2003	1							x			Bern2
650	Buzzard	<i>Buteo buteo</i>	bird	TL487154	20/10/2012	20/10/2012	1							x			CMS_A2
650	Cuckoo	<i>Cuculus canorus</i>	bird	TL487154	27/04/2002	03/05/2003	2			x	x	x					Sect.41;BAP-2007;BRed
650	Great Spotted Woodpecker	<i>Dendrocopos major</i>	bird	TL487154	20/10/2012	20/10/2012	1							x			Bern2
650	Little Egret	<i>Egretta garzetta</i>	bird	TL487154	30/01/2013	30/01/2013	1							x			BD1, Bern2
650	Reed Bunting	<i>Emberiza schoeniclus</i>	bird	TL487154	20/10/2012	20/10/2012	1			x	x	x		x			Sect.41;BAP-2007;BAmb;Bern2
650	Snipe	<i>Gallinago gallinago</i>	bird	TL487154	27/04/2002	01/05/2013	2					x		x			BAmb;CMS_A2
650	Swallow	<i>Hirundo rustica</i>	bird	TL487154	20/10/2012	20/10/2012	1							x			Bern2
650	Twite	<i>Linaria flavirostris</i>	bird	TL487154	05/05/2003	05/05/2003	1					x		x			BRed;Bern2
650	Grasshopper Warbler	<i>Locustella naevia</i>	bird	TL487154	10/05/2001	09/04/2011	3			x	x	x					Sect.41;BAP-2007;BRed
650	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	TL487154	15/04/2013	15/04/2013	1					x					BAmb
650	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	TL487154	04/08/2001	25/08/2001	2					x					BAmb
650	Turtle Dove	<i>Streptopelia turtur</i>	bird	TL487154	04/08/2001	05/08/2001	2			x	x	x					Sect.41;BAP-2007;BRed
650	Redwing	<i>Turdus iliacus</i>	bird	TL487154	06/04/2013	06/04/2013	1	x				x					WCA1i;BRed
660	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	TL486153	14/08/2009	14/08/2009	1			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2, CMS_A2
670	Mallard	<i>Anas platyrhynchos</i>	bird	TL492156	15/07/2009	15/07/2009	1					x		x			BAmb;CMS_A2
670	Goldfinch	<i>Carduelis carduelis</i>	bird	TL492156	15/07/2009	15/07/2009	1							x			Bern2
670	Green Woodpecker	<i>Picus viridis</i>	bird	TL492156	15/07/2009	15/07/2009	1							x			Bern2
670	Dunnock	<i>Prunella modularis</i>	bird	TL492156	15/07/2009	15/07/2009	1					x		x			BAmb;Bern2
670	Horsetail Flea Beetle	<i>Hippuriphila modeeri</i>	insect - beetle (Coleoptera)	TL492156	23/06/1976	23/06/1976	1								x		HertsLocal
670	Hydrocyphon deflexicollis	<i>Hydrocyphon deflexicollis</i>	insect - beetle (Coleoptera)	TL492156	23/06/1976	23/06/1976	1					x					RLGB.Lr(NT)
670	Paraphotistus nigricornis	<i>Paraphotistus nigricornis</i>	insect - beetle (Coleoptera)	TL492156	23/06/1976	23/06/1976	1					x					RDBGB.R
690	Grey Wagtail	<i>Motacilla cinerea</i>	bird	TL487144	22/09/2003	22/09/2003	1					x		x			BRed;Bern2
740	Common Lizard	<i>Zootoca vivipara</i>	reptile	TL48581540	07/06/2005	07/06/2005	1		x	x	x						WCA5/9.1k/l;Sect.41;BAP-2007
750	Swift	<i>Apus apus</i>	bird	TL48461479	21/06/2013	21/06/2013	2					x					BAmb
750	Swift	<i>Apus apus</i>	bird	TL48461480	10/05/2012	10/05/2012	1					x					BAmb
770	European Eel	<i>Anguilla anguilla</i>	bony fish (Actinopterygii)	TL4873814358	19/04/2011	19/04/2011	1			x	x	x					Sect.41;BAP-2007;RLGLB.CR
770	Bullhead	<i>Cottus gobio</i>	bony fish (Actinopterygii)	TL4873814358	19/04/2011	19/04/2011	1	x									HSD2p
770	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL491157	15/02/1998	15/02/1998	1		x	x	x						WCA5/9.4.a, WCA5/9.4b;Sect.41;BAP-2007, LBAP
770	Whorl-grass	<i>Catabrosa aquatica</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1					x					RDBEN.VU
770	Marsh Willowherb	<i>Epilobium palustre</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1								x		Herts Rare
770	Alder Buckthorn	<i>Frangula alnus</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1								x		Herts Rare
770	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1		x								WCA8
770	Ragged-Robin	<i>Lychnis flos-cuculi</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1					x					RDBEN.NT
770	Tubular Water-dropwort	<i>Oenanthe fistulosa</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1			x	x	x					Sect.41;BAP-2007;RDBEN.VU
770	Tormentil	<i>Potentilla erecta</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1					x					RDBEN.NT



# Herts Environmental Record Centre

Distance (m)	Common Name	Scientific Name	Taxon Group	Grid Reference	Earliest Record	Latest Record	Number of Records	European	UKLegal	NERC	BAP2007	IUCN	ScarceRare	BerneBonn BirdsDir	LocalStatus	WCA9	Status Designations
770	Greater Water-parsnip	<i>Sium latifolium</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1			x	x	x	x				Sect.41;BAP-2007;RDBEN.EN;NS-excludes
770	Marsh Arrowgrass	<i>Triglochin palustre</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1					x					RDBEN.NT
770	Marsh Valerian	<i>Valeriana dioica</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1					x					RDBEN.NT
770	Common Valerian	<i>Valeriana officinalis</i>	flowering plant	TL492157	1971 - 1974	1971 - 1974	1					x					RDBEN.NT
770	Large Nutmeg	<i>Apamea anceps</i>	insect - moth	TL492157	1977 - 1979	1977 - 1979	1			x	x						Sect.41;BAP-2007
770	Small Emerald	<i>Hemistola chrysoprasaria</i>	insect - moth	TL492157	1977 - 1979	1977 - 1979	1			x	x						Sect.41;BAP-2007
770	Gothic	<i>Naenia typica</i>	insect - moth	TL492157	1977 - 1979	1977 - 1979	1								x		Herts Vul 2 (M)
780	Whorl-grass	<i>Catabrosa aquatica</i>	flowering plant	TL490157	1989	1989	1					x					RDBEN.VU
780	Whorl-grass	<i>Catabrosa aquatica</i>	flowering plant	TL493157	1962	1962	1					x					RDBEN.VU
780	Marsh Willowherb	<i>Epilobium palustre</i>	flowering plant	TL493157	1962	1962	1								x		Herts Rare
780	Ragged-Robin	<i>Lychnis flos-cuculi</i>	flowering plant	TL493157	1962	1962	1					x					RDBEN.NT
780	Marsh Arrowgrass	<i>Triglochin palustre</i>	flowering plant	TL493157	1962	1962	1					x					RDBEN.NT
780	Marsh Valerian	<i>Valeriana dioica</i>	flowering plant	TL493157	1962	1962	1					x					RDBEN.NT
780	Common Valerian	<i>Valeriana officinalis</i>	flowering plant	TL493157	1962	1962	1					x					RDBEN.NT
800	Goldfinch	<i>Carduelis carduelis</i>	bird	TL487156	25/07/2013	25/07/2013	1							x			Bern2
800	Blue Tit	<i>Cyanistes caeruleus</i>	bird	TL487156	25/07/2013	25/07/2013	1							x			Bern2
800	Moorhen	<i>Gallinula chloropus</i>	bird	TL487156	25/07/2013	25/07/2013	1							x			CMS_A2
800	House Sparrow	<i>Passer domesticus</i>	bird	TL487156	25/07/2013	25/07/2013	1			x	x	x					Sect.41;BAP-2007;BRed
800	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	TL487156	25/07/2013	25/07/2013	1					x					BAmb
800	Wren	<i>Troglodytes troglodytes</i>	bird	TL487156	25/07/2013	25/07/2013	1							x			Bern2
800	Song Thrush	<i>Turdus philomelos</i>	bird	TL487156	25/07/2013	25/07/2013	1				x	x					LBAP;BRed
800	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	TL487156	25/07/2013	25/07/2013	1			x	x						Sect.41;BAP-2007
800	Grass Snake	<i>Natrix natrix</i>	reptile	TL487156	25/07/2013	25/07/2013	1			x	x						Sect.41;BAP-2007
820	Swift	<i>Apus apus</i>	bird	TL48381483	01/01/2010	01/01/2010	3					x					BAmb
820	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL4914215801	2016	2016	1	x	x	x							WCA5/9.4.a, WCA5/9.4.b;Sect.41;BAP-2007, LBAP
830	Swift	<i>Apus apus</i>	bird	TL48381481	01/01/2011	01/01/2011	1					x					BAmb
830	Swift	<i>Apus apus</i>	bird	TL48391476	20/05/2014	20/05/2014	2					x					BAmb
870	Shining Pondweed	<i>Potamogeton lucens</i>	flowering plant	TL491158	1989	1989	1								x		Herts RareQ
870	Perfoliate Pondweed	<i>Potamogeton perfoliatus</i>	flowering plant	TL491158	1989	1989	1								x		Herts RareQ
870	Crescent	<i>Celaena leucostigma</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1			x	x				x		Sect.41;BAP-2007;Herts Threat 2 (M)
870	Latticed Heath	<i>Chiasmia clathrata</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
870	Small Square-spot	<i>Diarsia rubi</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1			x	x						Sect.41;BAP-2007
870	Pale Water-veneer	<i>Donacaula forcicella</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1								x		Herts Threat 1 (M)
870	Small Phoenix	<i>Ecliptopera silaceata</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1			x	x						Sect.41;BAP-2007
870	Dusky Thorn	<i>Ennomos fuscantaria</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1			x	x						Sect.41;BAP-2007
870	Webb's Wainscot	<i>Globia sparganii</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1								x		Herts Vul 3 (M)
870	Ghost Moth	<i>Hepialus humuli</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1			x	x						Sect.41;BAP-2007
870	Wainscot Neb	<i>Monochroa palustrellus</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1						x				Nb
870	Reed Smudge	<i>Orthotelia sparganella</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1								x		Herts Vul 1 (M)
870	Blood-Vein	<i>Timandra comae</i>	insect - moth	TL491158	22/08/2013	22/08/2013	1			x	x						Sect.41;BAP-2007
870	Common Toad	<i>Bufo bufo</i>	amphibian	TL492158	1970	1997	7			x	x						Sect.41;BAP-2007
870	Common (Mealy) Redpoll	<i>Acanthis flammea</i>	bird	TL492158	1995	1995	1							x			Bern2
870	Sparrowhawk	<i>Accipiter nisus</i>	bird	TL492158	1972	1997	6							x			CMS_A2
870	Skylark	<i>Alauda arvensis</i>	bird	TL492158	1970	1973	8			x		x					Sect.41;BRed
870	Kingfisher	<i>Alcedo atthis</i>	bird	TL492158	1970	1996	10	x				x		x			WCA1i;BAmb;BD1, Bern2
870	Mallard	<i>Anas platyrhynchos</i>	bird	TL492158	1970	1997	8					x		x			BAmb;CMS_A2
870	Greylag Goose	<i>Anser anser</i>	bird	TL492158	1995	1995	1	x				x		x			WCA1ii;BAmb;CMS_A2
870	Meadow Pipit	<i>Anthus pratensis</i>	bird	TL492158	1970	1995	4					x		x			BAmb;Bern2
870	Swift	<i>Apus apus</i>	bird	TL492158	1970	1995	7					x					BAmb
870	Buzzard	<i>Buteo buteo</i>	bird	TL492158	1970	1971	2							x			CMS_A2
870	Goldfinch	<i>Carduelis carduelis</i>	bird	TL492158	1970	1996	8							x			Bern2
870	Treecreeper	<i>Certhia familiaris</i>	bird	TL492158	1970	1996	9							x			Bern2



# 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 BirdsDir	Local Status	WCA9	Status Designations
870	Greenfinch	<i>Chloris chloris</i>	bird	TL492158	1970	1997	8							x			Bern2
870	Stock Dove	<i>Columba oenas</i>	bird	TL492158	1995	1995	1					x					BAmb
870	Cuckoo	<i>Cuculus canorus</i>	bird	TL492158	1970	02/05/2002	6			x	x	x					Sect.41;BAP-2007;BRed
870	Blue Tit	<i>Cyanistes caeruleus</i>	bird	TL492158	1970	1997	10							x			Bern2
870	Mute Swan	<i>Cygnus olor</i>	bird	TL492158	1971	1971	2					x		x			BAmb;CMS_A2
870	House Martin	<i>Delichon urbicum</i>	bird	TL492158	1970	1995	6					x		x			BAmb;Bern2
870	Great Spotted Woodpecker	<i>Dendrocopos major</i>	bird	TL492158	1970	1997	6							x			Bern2
870	Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>	bird	TL492158	1970	1995	6					x		x			BRed;Bern2
870	Corn Bunting	<i>Emberiza calandra</i>	bird	TL492158	1970	1997	10					x					BRed
870	Yellowhammer	<i>Emberiza citrinella</i>	bird	TL492158	1970	1995	9			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2
870	Reed Bunting	<i>Emberiza schoeniclus</i>	bird	TL492158	1970	1997	13			x	x	x		x			Sect.41;BAP-2007;BAmb;Bern2
870	Robin	<i>Erithacus rubecula</i>	bird	TL492158	1970	1995	8							x			Bern2
870	Kestrel	<i>Falco tinnunculus</i>	bird	TL492158	1970	1997	14					x		x			BAmb;Bern2, CMS_A2
870	Snipe	<i>Gallinago gallinago</i>	bird	TL492158	1970	1997	15					x		x			BAmb;CMS_A2
870	Moorhen	<i>Gallinula chloropus</i>	bird	TL492158	1970	1995	9							x			CMS_A2
870	Swallow	<i>Hirundo rustica</i>	bird	TL492158	1970	1997	10							x			Bern2
870	Wryneck	<i>Jynx torquilla</i>	bird	TL492158	1970	1970	2		x		x			x			WCA1i;BAP-2007;Bern2
870	Herring Gull	<i>Larus argentatus</i>	bird	TL492158	1972	1972	2					x					BRed
870	Great Black-backed Gull	<i>Larus marinus</i>	bird	TL492158	01/01/1974- 19/09/1976	19/09/1976- 31/12/1976	3					x					BAmb
870	Linnet	<i>Linaria cannabina</i>	bird	TL492158	1970	1997	10					x		x			BRed;Bern2
870	Grasshopper Warbler	<i>Locustella naevia</i>	bird	TL492158	1970	1996	10			x	x	x					Sect.41;BAP-2007;BRed
870	Jack Snipe	<i>Lymnocyptes minimus</i>	bird	TL492158	1970	1995	12							x			CMS_A2
870	Goosander	<i>Mergus merganser</i>	bird	TL492158	1970	1971	4							x			CMS_A2
870	Pied Wagtail	<i>Motacilla alba</i>	bird	TL492158	1970	1995	5							x			Bern2
870	Pied Wagtail	<i>Motacilla alba subsp. yarrellii</i>	bird	TL492158	1997	1997	1							x			Bern2
870	Grey Wagtail	<i>Motacilla cinerea</i>	bird	TL492158	1970	1995	8					x		x			BRed;Bern2
870	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	TL492158	1970	1971	4			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2, CMS_A2
870	Curlew	<i>Numenius arquata</i>	bird	TL492158	1995	1995	1			x	x	x		x			Sect.41;BAP-2007;BRed;CMS_A2
870	Wheatear	<i>Oenanthe oenanthe</i>	bird	TL492158	1992	1995	2							x			Bern2
870	Osprey	<i>Pandion haliaetus</i>	bird	TL492158	1995	1995	1		x			x		x			WCA1i;BAmb;BD1, CMS_A2
870	Bearded Tit	<i>Panurus biarmicus</i>	bird	TL492158	1970	1995	5		x					x			WCA1i;Bern2
870	Great Tit	<i>Parus major</i>	bird	TL492158	1970	1997	10							x			Bern2
870	House Sparrow	<i>Passer domesticus</i>	bird	TL492158	1970	1995	7			x	x	x					Sect.41;BAP-2007;BRed
870	Tree Sparrow	<i>Passer montanus</i>	bird	TL492158	1970	1995	7			x	x	x					Sect.41;BAP-2007, LBAP;BRed
870	Grey Partridge	<i>Perdix perdix</i>	bird	TL492158	1970	1971	4			x	x	x					Sect.41;BAP-2007;BRed
870	Coal Tit	<i>Periparus ater</i>	bird	TL492158	1970	1970	1							x			Bern2
870	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	TL492158	1970	1997	9					x					BAmb
870	Green Woodpecker	<i>Picus viridis</i>	bird	TL492158	1972	1997	5							x			Bern2
870	Willow Tit	<i>Poecile montana</i>	bird	TL492158	1970	1995	5					x		x			BRed;Bern2
870	Dunnock	<i>Prunella modularis</i>	bird	TL492158	1970	1997	8					x		x			BAmb;Bern2
870	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	TL492158	1970	1997	10					x					BAmb
870	Goldcrest	<i>Regulus regulus</i>	bird	TL492158	1970	1971	4							x			Bern2
870	Sand Martin	<i>Riparia riparia</i>	bird	TL492158	1970	1971	4							x			Bern2
870	Whinchat	<i>Saxicola rubetra</i>	bird	TL492158	1970	1971	3					x		x			BRed;Bern2
870	Stonechat	<i>Saxicola rubicola</i>	bird	TL492158	1970	1971	3							x			Bern2
870	Woodcock	<i>Scolopax rusticola</i>	bird	TL492158	1995	1997	2					x		x			BRed;CMS_A2
870	Siskin	<i>Spinus spinus</i>	bird	TL492158	1995	1997	2							x			Bern2
870	Common Tern	<i>Sterna hirundo</i>	bird	TL492158	1996	1996	1					x		x			BAmb;BD1, Bern2
870	Turtle Dove	<i>Streptopelia turtur</i>	bird	TL492158	1970	1997	9			x	x	x					Sect.41;BAP-2007;BRed
870	Tawny Owl	<i>Strix aluco</i>	bird	TL492158	1973	1973	2					x		x			BAmb;Bern2
870	Starling	<i>Sturnus vulgaris</i>	bird	TL492158	1970	1995	9					x					BRed
870	Greenshank	<i>Tringa nebularia</i>	bird	TL492158	1970	1970	2		x			x		x			WCA1i;BAmb;CMS_A2



# Herts Environmental Record Centre

Distance (m)	Common Name	Scientific Name	Taxon Group	Grid Reference	Earliest Record	Latest Record	Number of Records	European	UKLegal	NERC	BAP2007	IUCN	ScarceRare	BerneBonn BirdsDir	LocalStatus	WCA9	Status Designations
870	Green Sandpiper	<i>Tringa ochropus</i>	bird	TL492158	1970	1971	4		x			x		x			WCA1i;BAmb;Bern2, CMS_A2
870	Wren	<i>Troglodytes troglodytes</i>	bird	TL492158	1970	13/10/1997	11							x			Bern2
870	Redwing	<i>Turdus iliacus</i>	bird	TL492158	1970	1997	12		x			x					WCA1i;BRed
870	Song Thrush	<i>Turdus philomelos</i>	bird	TL492158	1970	1997	10				x	x					LBAP;BRed
870	Fieldfare	<i>Turdus pilaris</i>	bird	TL492158	1970	1997	10		x			x					WCA1i;BRed
870	Mistle Thrush	<i>Turdus viscivorus</i>	bird	TL492158	1970	1995	10					x					BRed
870	Barn Owl	<i>Tyto alba</i>	bird	TL492158	1994	1995	2		x					x			WCA1i;Bern2
870	Lapwing	<i>Vanellus vanellus</i>	bird	TL492158	1970	1995	5			x	x	x		x			Sect.41;BAP-2007;BRed;CMS_A2
870	Whorl-grass	<i>Catabrosa aquatica</i>	flowering plant	TL492158	1971	1971	1					x					RDBEN.VU
870	Marsh Willowherb	<i>Epilobium palustre</i>	flowering plant	TL492158	1971	2003	2									x	Herts Rare
870	Alder Buckthorn	<i>Frangula alnus</i>	flowering plant	TL492158	1971	1971	1									x	Herts Rare
870	Ragged-Robin	<i>Lychnis flos-cuculi</i>	flowering plant	TL492158	1971	1994	2					x					RDBEN.NT
870	Tubular Water-dropwort	<i>Oenanthe fistulosa</i>	flowering plant	TL492158	1971	1971	1			x	x	x					Sect.41;BAP-2007;RDBEN.VU
870	Tormentil	<i>Potentilla erecta</i>	flowering plant	TL492158	1971	1971	1					x					RDBEN.NT
870	Marsh Arrowgrass	<i>Triglochin palustre</i>	flowering plant	TL492158	1971	1971	1					x					RDBEN.NT
870	Marsh Valerian	<i>Valeriana dioica</i>	flowering plant	TL492158	1971	21/06/1982	2					x					RDBEN.NT
870	Common Valerian	<i>Valeriana officinalis</i>	flowering plant	TL492158	1971	1994	2					x					RDBEN.NT
870	Horsetail Flea Beetle	<i>Hippuriphila modeeri</i>	insect - beetle (Coleoptera)	TL492158	1996	1996	1									x	HertsLocal
870	Hydrocyphon deflexicollis	<i>Hydrocyphon deflexicollis</i>	insect - beetle (Coleoptera)	TL492158	23/06/1976	23/06/1976	1					x					RLGB.Lr(NT)
870	Paradromius linearis	<i>Paradromius linearis</i>	insect - beetle (Coleoptera)	TL492158	1996	1996	1									x	HertsLocal
870	Psammoecus bipunctatus	<i>Psammoecus bipunctatus</i>	insect - beetle (Coleoptera)	TL492158	1996	1996	1									x	HertsLocal
870	Rugilus angustatus	<i>Rugilus angustatus</i>	insect - beetle (Coleoptera)	TL492158	1996	1996	1						x				N
870	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL492158	1977 - 1979	1979	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
870	Wall	<i>Lasiommata megera</i>	insect - butterfly	TL492158	1977 - 1979	1977 - 1979	1			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
870	Grey Dagger	<i>Acronicta psi</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Knot Grass	<i>Acronicta rumicis</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Angelica Flat-body	<i>Agonopterix angelicella</i>	insect - moth	TL492158	1976	1976	1									x	Herts Rare (M)
870	Brown-spot Pinion	<i>Agrochola litura</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x					x	Sect.41;BAP-2007;Herts Threat 3 (M)
870	Beaded Chestnut	<i>Agrochola lychnidis</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Mouse Moth	<i>Amphipyra tragopoginis</i>	insect - moth	TL492158	1977 - 1979	25/08/2006	3			x	x						Sect.41;BAP-2007
870	Large Nutmeg	<i>Apamea anceps</i>	insect - moth	TL492158	1979	1979	1			x	x						Sect.41;BAP-2007
870	Deep-brown Dart	<i>Aporophyla lutulenta</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Brown-veined Wainscot	<i>Archanara dissoluta</i>	insect - moth	TL492158	1977 - 1979	1977 - 1979	2									x	Herts Vul 3 (M)
870	Garden Tiger	<i>Arctia caja</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x					x	Sect.41;BAP-2007;Herts End 2 (M)
870	Fen Wainscot	<i>Arenostola phragmitidis</i>	insect - moth	TL492158	1977 - 1979	1979	4									x	Herts Vul 3 (M)
870	Centre-barred Sallow	<i>Atethmia centrago</i>	insect - moth	TL492158	1977 - 1979	15/09/2007	4			x	x						Sect.41;BAP-2007
870	Mottled Rustic	<i>Caradrina morpheus</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Crescent	<i>Celaena leucostigma</i>	insect - moth	TL492158	25/08/2006	15/09/2007	2			x	x					x	Sect.41;BAP-2007;Herts Threat 2 (M)
870	Latticed Heath	<i>Chiasmia clathrata</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x					x	Sect.41;BAP-2007;Herts Threat 3 (M)
870	Dusky-lemon Sallow	<i>Cirrhia gilvago</i>	insect - moth	TL492158	1977 - 1979	1979	3			x	x					x	Sect.41;BAP-2007;Herts End 3 (M)
870	Sallow	<i>Cirrhia icteritia</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Small Square-spot	<i>Diarsia rubi</i>	insect - moth	TL492158	1977 - 1979	15/09/2007	4			x	x						Sect.41;BAP-2007
870	Dusky Thorn	<i>Ennomos fuscantaria</i>	insect - moth	TL492158	1977 - 1979	25/08/2006	3			x	x						Sect.41;BAP-2007
870	Bordered Beauty	<i>Epione repandaria</i>	insect - moth	TL492158	1977 - 1979	1979	3									x	Herts Vul 2 (M)
870	Spinach	<i>Eulithis mellinata</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x					x	Sect.41;BAP-2007;Herts Vul 2 (M)
870	Valerian Pug	<i>Eupithecia valerianata</i>	insect - moth	TL492158	1977 - 1979	1979	4									x	Herts End 3 (M)
870	Garden Dart	<i>Euxoa nigricans</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x					x	Sect.41;BAP-2007;Herts End 2 (M)
870	Webb's Wainscot	<i>Globia sparganii</i>	insect - moth	TL492158	25/08/2006	15/09/2007	2									x	Herts Vul 3 (M)
870	Double Dart	<i>Graphiphora augur</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x					x	Sect.41;BAP-2007;Herts End 3 (M)
870	Small Emerald	<i>Hemistola chrysoprasaria</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Rustic	<i>Hoplodrina blanda</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Rosy Rustic	<i>Hydraecia micacea</i>	insect - moth	TL492158	1977 - 1979	15/09/2007	4			x	x						Sect.41;BAP-2007



# 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 BirdsDir	Local Status	WCA9	Status Designations
870	Dot Moth	<i>Melanchra persicariae</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Gothic	<i>Naenia typica</i>	insect - moth	TL492158	1977 - 1979	1979	2								x		Herts Vul 2 (M)
870	Orange-rayed Pearl	<i>Nascia ciliialis</i>	insect - moth	TL492158	1976	25/08/2006	3						x		x		Na;Herts Vul 1 (M)
870	Dark Spinach	<i>Pelurga comitata</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x				x		Sect.41;BAP-2007;Herts Vul 2 (M)
870	Shaded Broad-bar	<i>Scotopteryx chenopodiata</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
870	White Ermine	<i>Spilosoma lubricipeda</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Blood-Vein	<i>Timandra comae</i>	insect - moth	TL492158	25/08/2006	25/08/2006	1			x	x						Sect.41;BAP-2007
870	Oak Hook-tip	<i>Watsonalla binaria</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x						Sect.41;BAP-2007
870	Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i>	insect - moth	TL492158	1977 - 1979	1979	2			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
870	Drymus (Sylvadrymus) pumilio	<i>Drymus (Sylvadrymus) pumilio</i>	insect - true bug (Hemiptera)	TL492158	1996	2000 - 2004	3						x				Nb
870	Angiometopa falleni	<i>Angiometopa falleni</i>	insect - true fly (Diptera)	TL492158	1976	1976	1					x					RDBGB.EN
870	Large Black Slug	<i>Arion (Arion) ater</i>	mollusc	TL492158	1995	1995	1					x					RLGB.DD
870	Desmoulin's Whorl Snail	<i>Vertigo (Vertigo) moulinsiana</i>	mollusc	TL492158	1985	01/01/1997 - 31/12/1999	4	x		x	x						HSD2p;Sect.41;BAP-2007
870	Grass Snake	<i>Natrix natrix</i>	reptile	TL492158	1970	02/05/2002	8			x	x						Sect.41;BAP-2007
870	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL492158	1972	28/07/2004	5		x	x	x						WCA5/9.4.a, WCA5/9.4b;Sect.41;BAP-2007, LBAP
870	West European Hedgehog	<i>Erinaceus europaeus</i>	terrestrial mammal	TL492158	1990 - 1996	1990 - 1996	1			x	x						Sect.41;BAP-2007
870	Brown Hare	<i>Lepus europaeus</i>	terrestrial mammal	TL492158	1971	1972	3			x	x						Sect.41;BAP-2007
870	Eurasian Badger	<i>Meles meles</i>	terrestrial mammal	TL492158	1990 - 1996	1990 - 1996	1		x								PBA
870	Harvest Mouse	<i>Micromys minutus</i>	terrestrial mammal	TL492158	1972	1990 - 1996	3			x	x						Sect.41;BAP-2007
880	Tormentil	<i>Potentilla erecta</i>	flowering plant	TL493158	1992	1992	1					x					RDBEN.NT
880	Marsh Valerian	<i>Valeriana dioica</i>	flowering plant	TL493158	Jun-90	Jun-90	1					x					RDBEN.NT
880	Common Valerian	<i>Valeriana officinalis</i>	flowering plant	TL493158	1989	1989	1					x					RDBEN.NT
900	Galingale	<i>Cyperus longus</i>	flowering plant	TL489158	14/09/1991	14/09/1991	1					x	x				RDBEN.NT;NS-excludes
910	Red-girdled Mining Bee	<i>Andrena (Poecilandrena) labiata</i>	insect - hymenopteran	TL484144	09/06/2017	09/06/2017	1						x				Na
910	Common Valerian	<i>Valeriana officinalis</i>	flowering plant	TL486142	1990	1990	1					x					RDBEN.NT
970	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL491159	1992	1992	1		x	x	x						WCA5/9.4.a, WCA5/9.4b;Sect.41;BAP-2007, LBAP
980	Small-flowered Buttercup	<i>Ranunculus parviflorus</i>	flowering plant	TL484143	1989	1989	1								x		Herts Rare
990	Floating Pennywort	<i>Hydrocotyle ranunculoides</i>	flowering plant	TL486141	15/10/2016	15/10/2016	2								x		WCA9
1030	Floating Pennywort	<i>Hydrocotyle ranunculoides</i>	flowering plant	TL4914016013	2015	2015	1								x		WCA9
1030	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	TL4914016013	2015	2015	1								x		WCA9
1070	Floating Pennywort	<i>Hydrocotyle ranunculoides</i>	flowering plant	TL491160	02/10/2012	02/10/2012	1								x		WCA9
1070	European Eel	<i>Anguilla anguilla</i>	bony fish (Actinopterygii)	TL4913116045	21/04/2011	21/04/2011	1			x	x	x					Sect.41;BAP-2007;RLGLB.CR
1080	Swift	<i>Apus apus</i>	bird	TL48261553	01/01/2009	01/01/2009	1						x				BAmb
1110	Swift	<i>Apus apus</i>	bird	TL48101517	09/07/2014	09/07/2014	1						x				BAmb
1130	Meadow-sweet Button	<i>Acleris shepherdana</i>	insect - moth	TL485140	08/08/2013	31/07/2014	2								x		Herts Extinct (M)
1130	Knot Grass	<i>Acronicta rumicis</i>	insect - moth	TL485140	30/06/2013	11/08/2013	3			x	x						Sect.41;BAP-2007
1130	Brown-spot Pinion	<i>Agrochola litura</i>	insect - moth	TL485140	19/09/2014	19/09/2014	1			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1130	Green-brindled Crescent	<i>Allophyes oxyacanthae</i>	insect - moth	TL485140	05/10/2013	18/10/2014	3			x	x						Sect.41;BAP-2007
1130	Deep-brown Dart	<i>Aporophyla lutulenta</i>	insect - moth	TL485140	05/10/2013	05/10/2013	1			x	x						Sect.41;BAP-2007
1130	Centre-barred Sallow	<i>Atethmia centrigo</i>	insect - moth	TL485140	01/09/2013	01/09/2013	1			x	x						Sect.41;BAP-2007
1130	Maple Slender	<i>Caloptilia semifascia</i>	insect - moth	TL485140	05/04/2014	05/04/2014	1								x		Herts Rare (M)
1130	Puss Moth	<i>Cerura vinula</i>	insect - moth	TL485140	31/05/2013	31/05/2013	1								x		Herts Vul 3 (M)
1130	Latticed Heath	<i>Chiasmia clathrata</i>	insect - moth	TL485140	03/06/2013	03/06/2013	1			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1130	Small Square-spot	<i>Diarsia rubi</i>	insect - moth	TL485140	01/09/2013	24/05/2014	5			x	x						Sect.41;BAP-2007
1130	Pale Water-veneer	<i>Donacula forficella</i>	insect - moth	TL485140	19/07/2013	23/08/2013	2								x		Herts Threat 1 (M)
1130	Small Phoenix	<i>Ecliptopera silaceata</i>	insect - moth	TL485140	31/05/2013	31/07/2014	10			x	x						Sect.41;BAP-2007
1130	Bordered Beauty	<i>Epione repandaria</i>	insect - moth	TL485140	19/07/2013	31/07/2014	5								x		Herts Vul 2 (M)
1130	Dingy Shell	<i>Euchoeca nebulata</i>	insect - moth	TL485140	08/06/2013	08/06/2013	1								x		Herts Threat 1 (M)
1130	Rosy Rustic	<i>Hydraecia micacea</i>	insect - moth	TL485140	21/09/2013	19/09/2014	3			x	x						Sect.41;BAP-2007
1130	Shoulder-striped Wainscot	<i>Leucania comma</i>	insect - moth	TL485140	28/07/2013	02/08/2013	4			x	x						Sect.41;BAP-2007
1130	Dotted Fan-foot	<i>Macročhilo cribrumalis</i>	insect - moth	TL485140	30/06/2013	11/07/2014	2								x		Herts Vul 3 (M)
1130	Gothic	<i>Naenia typica</i>	insect - moth	TL485140	11/07/2014	11/07/2014	1								x		Herts Vul 2 (M)



# 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 BirdsDir	Local Status	WCA9	Status Designations
1130	Powdered Quaker	<i>Orthosia gracilis</i>	insect - moth	TL485140	05/04/2014	05/04/2014	1			x	x						Sect.41;BAP-2007
1130	Shaded Broad-bar	<i>Scotopteryx chenopodiata</i>	insect - moth	TL485140	28/07/2013	31/07/2014	7			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1130	White Ermine	<i>Spilosoma lubricipeda</i>	insect - moth	TL485140	31/05/2013	30/06/2013	3			x	x						Sect.41;BAP-2007
1130	Buff Ermine	<i>Spilosoma lutea</i>	insect - moth	TL485140	02/08/2013	11/07/2014	4			x	x						Sect.41;BAP-2007
1130	Feathered Gothic	<i>Tholera decimilis</i>	insect - moth	TL485140	07/09/2013	07/09/2013	1			x	x						Sect.41;BAP-2007
1130	Blood-Vein	<i>Timandra comae</i>	insect - moth	TL485140	21/06/2013	05/06/2014	9			x	x						Sect.41;BAP-2007
1130	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	TL485140	19/08/2014	19/08/2014	1			x	x						Sect.41;BAP-2007
1130	Pale Straw Pearl	<i>Udea lutealis</i>	insect - moth	TL485140	31/07/2014	31/07/2014	1								x		Herts Vul 2 (M)
1130	Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i>	insect - moth	TL485140	31/05/2013	11/08/2013	2			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1150	Kingfisher	<i>Alcedo atthis</i>	bird	TL480150	25/09/2015	25/09/2015	1	x				x		x			WCA1i;BAmb;BD1, Bern2
1150	Buzzard	<i>Buteo buteo</i>	bird	TL480150	18/02/2003	28/03/2003	5							x			CMS_A2
1150	White Stork	<i>Ciconia ciconia</i>	bird	TL480150	01/04/2013	01/04/2013	3							x			BD1, Bern2, CMS_A2
1150	Black Swan	<i>Cygnus atratus</i>	bird	TL480150	19/03/2003	19/03/2003	1								x		WCA9
1150	Great Spotted Woodpecker	<i>Dendrocopos major</i>	bird	TL480150	11/06/2003	11/06/2003	1							x			Bern2
1150	Little Egret	<i>Egretta garzetta</i>	bird	TL480150	05/12/2012	01/04/2013	2							x			BD1, Bern2
1150	Reed Bunting	<i>Emberiza schoeniclus</i>	bird	TL480150	12/01/2003	12/06/2003	3			x	x	x		x			Sect.41;BAP-2007;BAmb;Bern2
1150	Hobby	<i>Falco subbuteo</i>	bird	TL480150	01/05/2015	01/05/2015	1	x						x			WCA1i;Bern2, CMS_A2
1150	Red Kite	<i>Milvus milvus</i>	bird	TL480150	28/03/2003	12/04/2015	3	x						x	x		WCA1i;BD1, CMS_A2;WCA9
1150	Grey Wagtail	<i>Motacilla cinerea</i>	bird	TL480150	22/09/2003	22/09/2003	1					x		x			BRed;Bern2
1150	Yellow Wagtail	<i>Motacilla flava</i>	bird	TL480150	13/06/2015	13/06/2015	1					x		x			BRed;Bern2
1150	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	TL480150	25/09/2015	25/09/2015	1			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2, CMS_A2
1150	Great Tit	<i>Parus major</i>	bird	TL480150	12/06/2003	12/06/2003	1							x			Bern2
1150	Redstart	<i>Phoenicurus phoenicurus</i>	bird	TL480150	15/04/2012	15/04/2012	1					x		x			BAmb;Bern2
1150	Grey Plover	<i>Pluvialis squatarola</i>	bird	TL480150	08/11/2012	08/11/2012	1					x		x			BAmb;CMS_A2
1150	Siskin	<i>Spinus spinus</i>	bird	TL480150	14/09/2011	14/09/2011	1							x			Bern2
1150	Common Tern	<i>Sterna hirundo</i>	bird	TL480150	21/04/2003	21/04/2003	1					x		x			BAmb;BD1, Bern2
1150	Turtle Dove	<i>Streptopelia turtur</i>	bird	TL480150	11/05/2015	11/05/2015	1			x	x	x					Sect.41;BAP-2007;BRed
1150	Fieldfare	<i>Turdus pilaris</i>	bird	TL480150	24/12/2013	24/12/2013	1	x				x					WCA1i;BRed
1150	Ring Ouzel	<i>Turdus torquatus</i>	bird	TL480150	21/04/2003	21/04/2003	1			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2
1150	Barn Owl	<i>Tyto alba</i>	bird	TL480150	22/01/2013	29/01/2013	2	x						x			WCA1i;Bern2
1150	Lapwing	<i>Vanellus vanellus</i>	bird	TL480150	25/05/2011	25/05/2011	1			x	x	x		x			Sect.41;BAP-2007;BRed;CMS_A2
1160	Few-flowered Garlic	<i>Allium paradoxum</i>	flowering plant	TL482156	30/03/2012	30/03/2012	1								x		WCA9
1170	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	TL491161	22/07/2004	22/07/2004	1								x		WCA9
1170	Ragged-Robin	<i>Lychnis flos-cuculi</i>	flowering plant	TL491161	22/07/2004	22/07/2004	1					x					RDBEN.NT
1170	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL491161	1982	1982	1	x	x	x							WCA5/9.4.a, WCA5/9.4.b;Sect.41;BAP-2007, LBAP
1210	Floating Pennywort	<i>Hydrocotyle ranunculoides</i>	flowering plant	TL4862613909	2016	2016	1								x		WCA9
1210	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	TL4862613909	2016	2016	1								x		WCA9
1220	White-letter Hairstreak	<i>Satyrrium w-album</i>	insect - butterfly	TL484159	09/07/2006	09/07/2006	1			x	x	x					Sect.41;BAP-2007;RLGB.EN
1220	Small Phoenix	<i>Ecliptopera silaceata</i>	insect - moth	TL485139	08/06/2013	08/06/2013	1			x	x						Sect.41;BAP-2007
1220	Blood-Vein	<i>Timandra comae</i>	insect - moth	TL485139	21/06/2013	21/06/2013	1			x	x						Sect.41;BAP-2007
1300	Ragged-Robin	<i>Lychnis flos-cuculi</i>	flowering plant	TL485138	01/06/1999	01/06/1999	1					x					RDBEN.NT
1300	Dotted Fan-foot	<i>Macrochilo cribrumalis</i>	insect - moth	TL485138	30/06/2013	30/06/2013	1								x		Herts Vul 3 (M)
1300	Blood-Vein	<i>Timandra comae</i>	insect - moth	TL485138	30/06/2013	30/06/2013	1			x	x						Sect.41;BAP-2007
1330	Dingy Shell	<i>Euchoeca nebulata</i>	insect - moth	TL482140	08/06/2013	08/06/2013	1								x		Herts Threat 1 (M)
1330	White-letter Hairstreak	<i>Satyrrium w-album</i>	insect - butterfly	TL483139	10/07/2006	10/07/2006	1			x	x	x					Sect.41;BAP-2007;RLGB.EN
1330	Puss Moth	<i>Cerura vinula</i>	insect - moth	TL483139	31/05/2013	31/05/2013	1								x		Herts Vul 3 (M)
1330	Pale Water-veneer	<i>Donacaula forficella</i>	insect - moth	TL483139	19/07/2013	19/07/2013	1								x		Herts Threat 1 (M)
1330	Small Phoenix	<i>Ecliptopera silaceata</i>	insect - moth	TL483139	31/05/2013	31/05/2013	1			x	x						Sect.41;BAP-2007
1330	White Ermine	<i>Spilosoma lubricipeda</i>	insect - moth	TL483139	31/05/2013	31/05/2013	1			x	x						Sect.41;BAP-2007
1330	Blood-Vein	<i>Timandra comae</i>	insect - moth	TL483139	19/07/2013	19/07/2013	1			x	x						Sect.41;BAP-2007
1330	Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i>	insect - moth	TL483139	31/05/2013	31/05/2013	1			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1350	Ragged-Robin	<i>Lychnis flos-cuculi</i>	flowering plant	TL484138	30/07/1985	30/07/1985	1					x					RDBEN.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 BirdsDir	Local Status	WCA9	Status Designations
1350	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL484138	08/02/1993	08/02/1993	1		x	x	x						WCA5/9.4.a, WCA5/9.4b;Sect.41;BAP-2007, LBAP
1440	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL484137	01/08/1996	01/08/1996	1		x	x	x						WCA5/9.4.a, WCA5/9.4b;Sect.41;BAP-2007, LBAP
1470	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL482138	Sep-99	Sep-99	1		x	x	x						WCA5/9.4.a, WCA5/9.4b;Sect.41;BAP-2007, LBAP
1480	Butcher's-broom	<i>Ruscus aculeatus</i>	flowering plant	TL478143	1989	1989	1								x		Herts Rare as Native
1500	Latticed Heath	<i>Chiasmia clathrata</i>	insect - moth	TL479141	03/06/2013	03/06/2013	1			x	x				x		Sect.41;BAP-2007;Herts Threat 3 (M)
1570	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL4812013835	2009	2009	1		x	x	x						WCA5/9.4.a, WCA5/9.4b;Sect.41;BAP-2007, LBAP
1570	Floating Pennywort	<i>Hydrocotyle ranunculoides</i>	flowering plant	TL4812113829	2016	2016	1									x	WCA9
1570	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	TL4812113829	2016	2016	1									x	WCA9
1570	Swallow	<i>Hirundo rustica</i>	bird	TL492165	15/07/2009	15/07/2009	1							x			Bern2
1580	Moorhen	<i>Gallinula chloropus</i>	bird	TL490165	05/08/1985	05/08/1985	1							x			CMS_A2
1610	Stock Dove	<i>Columba oenas</i>	bird	TL480138	31/03/2009	31/03/2009	1					x					BAmb
1610	Song Thrush	<i>Turdus philomelos</i>	bird	TL480138	31/03/2009	31/03/2009	1				x	x					LBAP;BRed
1620	Grass Snake	<i>Natrix natrix</i>	reptile	TL479139	24/05/2001	24/05/2001	1			x	x						Sect.41;BAP-2007
1670	Swift	<i>Apus apus</i>	bird	TL492166	15/07/2009	15/07/2009	1					x					BAmb
1670	House Martin	<i>Delichon urbicum</i>	bird	TL492166	15/07/2009	15/07/2009	2					x		x			BAmb;Bern2
1670	Yellowhammer	<i>Emberiza citrinella</i>	bird	TL492166	15/07/2009	15/07/2009	1			x	x	x		x			Sect.41;BAP-2007;BRed;Bern2
1670	Green Woodpecker	<i>Picus viridis</i>	bird	TL492166	15/07/2009	15/07/2009	1							x			Bern2
1670	Dunnock	<i>Prunella modularis</i>	bird	TL492166	15/07/2009	15/07/2009	1					x		x			BAmb;Bern2
1670	Common Tern	<i>Sterna hirundo</i>	bird	TL492166	15/07/2009	15/07/2009	1					x		x			BAmb;BD1, Bern2
1680	Buzzard	<i>Buteo buteo</i>	bird	TL480137	06/08/2013	06/08/2013	1							x			CMS_A2
1680	Great Spotted Woodpecker	<i>Dendrocopos major</i>	bird	TL480137	01/07/2009	06/08/2013	2							x			Bern2
1680	Robin	<i>Erithacus rubecula</i>	bird	TL480137	01/07/2009	06/08/2013	2							x			Bern2
1680	Moorhen	<i>Gallinula chloropus</i>	bird	TL480137	06/08/2013	06/08/2013	1							x			CMS_A2
1680	Wren	<i>Troglodytes troglodytes</i>	bird	TL480137	01/07/2009	06/08/2013	2							x			Bern2
1680	Song Thrush	<i>Turdus philomelos</i>	bird	TL480137	01/07/2009	01/07/2009	1				x	x					LBAP;BRed
1680	Mistle Thrush	<i>Turdus viscivorus</i>	bird	TL480137	01/07/2009	01/07/2009	1					x					BRed
1680	Common Lizard	<i>Zootoca vivipara</i>	reptile	TL480137	27/10/2011	27/10/2011	2		x	x	x						WCA5/9.1k/l;Sect.41;BAP-2007
1710	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	TL476142	24/07/2004	24/07/2004	1	x	x					x			Yes;WCA5/9.4b;CMS_A2
1760	Kestrel	<i>Falco tinnunculus</i>	bird	TL478138	29/07/2003	29/07/2003	1					x		x			BAmb;Bern2, CMS_A2
1800	Field Scabious	<i>Knautia arvensis</i>	flowering plant	TL474145	14/07/2005	14/07/2005	1					x					RDBEN.NT
1830	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	TL477138	22/07/1997	22/07/1997	2			x	x	x					Sect.41;BAP-2007;RLGB.Lr(NT)
1880	Perfoliate Pondweed	<i>Potamogeton perfoliatus</i>	flowering plant	TL493168	1989	1989	1								x		Herts RareQ
1890	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	TL474142	24/07/2004	24/07/2004	1	x	x					x			Yes;WCA5/9.4b;CMS_A2
1900	Floating Pennywort	<i>Hydrocotyle ranunculoides</i>	flowering plant	TL4935316872	2016	2016	1									x	WCA9
1900	European Water Vole	<i>Arvicola amphibius</i>	terrestrial mammal	TL4935316872	2016	2016	1		x	x	x						WCA5/9.4.a, WCA5/9.4b;Sect.41;BAP-2007, LBAP
1930	European Eel	<i>Anguilla anguilla</i>	bony fish (Actinopterygii)	TL4955416874	29/09/2004	22/09/2005	2			x	x	x					Sect.41;BAP-2007;RLGLB.CR
1930	Bullhead	<i>Cottus gobio</i>	bony fish (Actinopterygii)	TL4955416874	29/09/2004	22/09/2005	2	x									HSD2p
1940	White-letter Hairstreak	<i>Satyrrium w-album</i>	insect - butterfly	TL475139	25/06/2009	25/06/2009	1			x	x	x					Sect.41;BAP-2007;RLGB.EN
1940	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	TL475139	31/08/2004	31/08/2004	1	x	x					x			Yes;WCA5/9.4b;CMS_A2
1970	Grey Wagtail	<i>Motacilla cinerea</i>	bird	TL492169	06/04/2013	06/04/2013	1					x		x			BRed;Bern2
1970	Sand Martin	<i>Riparia riparia</i>	bird	TL492169	10/04/2015	10/04/2015	1							x			Bern2
1970	Siskin	<i>Spinus spinus</i>	bird	TL492169	15/10/2015	15/10/2015	1							x			Bern2
1970	Fieldfare	<i>Turdus pilaris</i>	bird	TL492169	06/04/2013	06/04/2013	1		x			x					WCA1i;BRed
1970	Barn Owl	<i>Tyto alba</i>	bird	TL492169	25/05/2015	25/05/2015	1		x					x			WCA1i;Bern2

## Appendix B Site Photographs

**Photograph 1**  
looking south

Scattered trees within the site, viewed from the north



**Photograph 2**

Derelict stables in the east of the site



**Photograph 3** Recently cut scrub in south of site, mapped as tall ruderal due to the abundance of Nettle



**Photograph 4** Tall ruderal vegetation (nettles and thistle) in south of site



**Photograph 5** Species-poor hedge at southern site boundary



**Photograph 6** Stream, shown on OS map approximately 10m off site to the north; found to be dry.

