



Haycock & Jay Associates Ltd

C O N S U L T A N T E C O L O G I S T S

**LAND TO THE SOUTH OF REDWOOD CLOSE,
LONG LEE, KEIGHLEY, WEST YORKSHIRE**

Preliminary Ecological Appraisal

Submitted to:

Planet Architecture Ltd

Mill Cottage

Ickornshaw

Cowling

Keighley

BD22 0DB

August 2016

PAL001

Contact Jennie Caddick: 10 Boroughgate, Otley, West Yorkshire LS21 3AL

Tel: 01943 850276

Mobile: 07845317383 Email: jennie.caddick@haycockandjay.co.uk

Company registered in England No. 7119787

Registered Office: Haycock and Jay Associates Ltd., 14 Beech Hill, Otley LS21 3AX

TABLE OF CONTENTS

SECTION	PAGE
SUMMARY	1
1.0 INTRODUCTION.....	2
1.1 Background.....	2
1.2 Site Context	2
2.0 LEGISLATION AND POLICY.....	3
2.1 Plants and Habitats	3
2.2 Bats.....	3
2.3 Badger (<i>Meles meles</i>)	4
2.4 Reptiles.....	5
2.5 Nesting Birds.....	6
3.0 METHODOLOGY	7
3.1 Desk Study.....	7
3.2 Extended Phase 1 Habitat Survey.....	2
4.0 RESULTS.....	3
4.1 Desk Study.....	3
4.2 Extended Phase 1 Habitat Survey.....	7
5.0 CONCLUSIONS AND RECOMMENDATIONS	10
5.1 Sites of Nature Conservation Value.....	10
5.2 Habitats.....	10
5.3 Fauna.....	11

FIGURES AND APPENDICES

Figure 1 Phase 1 Habitat Map

Appendix 1 Desk Study Data

Appendix 2 Site Photographs

SUMMARY

A Preliminary Ecological Appraisal (PEA), to include a desk study and extended Phase 1 habitat survey, was conducted by Haycock and Jay Associates Ltd in July 2016 in order to provide an assessment of the ecological value of 1.08 hectares (ha) of land off Redwood Close, Long Lee, Keighley, West Yorkshire prior to its development.

The extended Phase 1 habitat survey identified the presence of poor semi-improved grassland and marshy grassland habitats, in addition to small isolated areas of tall ruderal vegetation, scrub a species-poor hedgerow and scattered trees located outside of the site boundary.

The site is small and relatively isolated, supporting common habitats which are frequent in the wider countryside and of low ecological value. Despite this, recommendations to maintain and enhance the floristic diversity of the site and enhance its value for roosting bats and nesting birds have been provided within Section 5.

1.0 INTRODUCTION

1.1 Background

- 1.1.1 Haycock and Jay Associates Ltd was commissioned by Planet Architecture Ltd to undertake a PEA for an area of land to the south of Redwood Close, Long Lee, Keighley, West Yorkshire in July 2016.
- 1.1.2 The survey is required in order to record habitats and provide an assessment of the ecological value of the land prior to its development for residential housing.
- 1.1.3 This survey encompasses land inside the red line boundary, hereafter referred to as 'the site', and as indicated on Figure 1. Where access was possible habitats immediately adjacent to the red line site boundary were also included.
- 1.1.4 This report details the methodology, results and conclusions of an extended Phase 1 habitat survey carried out on Wednesday 20th July 2016, and includes a review of desk study information provided by the West Yorkshire Ecology Service (WYES). Recommendations for further targeted species surveys (where necessary) are also provided.

1.2 Site Context

- 1.2.1 The site is located in the centre of the village of Long Lee, approximately 1km to the south-east of Keighley, West Yorkshire. The approximate central Ordnance Survey (OS) grid reference for the site is SE 07202 40384, with access via Redwood Close to the north of the site.
- 1.2.2 The site is approximately 1.08ha with the majority comprising poor semi-improved grassland with a marshy grassland area running across the south central area.
- 1.2.3 Tall ruderal vegetation, isolated scattered scrub and a collapsed stone wall were also identified within the site, with broad-leaved and coniferous scattered trees and species-poor hedges noted around the boundary.
- 1.2.4 The site is bounded by Redwood Close along the north-east with residential houses and gardens around the remaining boundaries. A partially derelict farmhouse and associated barns is present on the south-west boundary.

- 1.2.5 In the wider area, Long Lee is surrounded by farmland dominated by agricultural grassland. Park wood and a woodland corridor associated with the River Worth valley are present approximately 350m to the north-west of the site. Woodland associated with the St Ives estate occurs approximately 1km to the south-east.

2.0 LEGISLATION AND POLICY

2.1 Plants and Habitats

- 2.1.1 With certain exceptions, plants listed on Schedule 8 of the Wildlife and Countryside Act 1981 (as amended) are protected from:

- Deliberately picking, collection, cutting, uprooting or destroying a plant; or,
- Being in possession or control, transporting, selling or exchanging or offer to sell or exchange any live or dead plants or any part of them or their derivatives.

- 2.1.2 The UK Biodiversity Action Plan (UKBAP) sets out national priority species and habitats for conservation. Although now succeeded by the 'UK Post-2010 Biodiversity Framework', the UKBAP priorities and targets are retained under the Natural Environment and Rural Communities Act 2006 (NERC Act) and as such are considered during the planning process. The UKBAP lists 396 species of priority flowering plant (including bryophytes, fungi and lichen, but excluding alga and bryozoans).

- 2.1.3 Local priority species and habitats are set out in Local Biodiversity Action Plans (LBAPs). Information relating to local priority species and habitats for Bradford LBAP are available from City of Bradford Metropolitan District Council website¹.

- 2.1.4 The Bradford LBAP lists upland oak woodland, river corridors, in bye pasture and hedgerows as priority habitats while lesser twayblade (*Listera cordata*) and marsh fern (*Thelypteris palustris*) are listed as priority plant species.

2.2 Bats

- 2.2.1 All species of bats are legally protected, and as such there is a requirement that measures be taken to ensure that contravention of the relevant legislation is avoided. This may include the adoption of mitigation, including a Natural England licence where appropriate.

¹ http://www.bradford.gov.uk/bmdc/the_environment/countryside_and_rights_of_way/biodiversity

2.2.2 Relevant legislation in England is the Wildlife and Countryside Act 1981 (as amended); the Countryside and Rights of Way Act, 2000; the Natural Environment and Rural Communities Act (NERC Act), 2006; and the Conservation of Habitats and Species (Amendment) Regulations, 2012.

2.2.3 The law makes it an offence, *inter alia*, to;

- Disturb a bat or groups of bats in their roost;
- Damage or destroy a bat roosting place, even if there are no bats present at the time;
- Obstruct access to a bat roost; or,
- To capture, injure or kill a bat or possess, advertise, sell or exchange a bat, or part of a bat dead or alive.

2.2.4 Seven species of British bats are listed as Species of Principal Importance under Section 41 of NERC Act. The species listed are; the Barbastelle (*Barbastella barbastellus*), Bechstein's bat (*Myotis bechsteinii*), noctule (*Nyctalus noctula*), soprano pipistrelle (*Pipistrellus pygmaeus*), brown long-eared bat (*Plecotus auritus*), greater horseshoe (*Rhinolophus ferrumequinum*) and lesser horseshoe (*Rhinolophus hipposideros*).

2.2.5 Pipistrelle bats (*Pipistrellus* species) are listed as priority species on the Bradford LBAP and are taken to include common pipistrelle (*Pipistrellus pipistrellus*), soprano pipistrelle (*Pipistrellus pygmaeus*) and Nathusius's pipistrelle (*Pipistrellus nathusii*).

2.3 Badger (*Meles meles*)

2.3.1 The Protection of Badgers Act 1992 consolidates previous legislation (including the Badgers (Further Protection) Act 1991). It makes it a serious offence to intentionally or recklessly:

- Kill, injure or take, or attempt to kill, injure or take a badger;
- To damage, destroy or obstruct access to a sett; or,
- To disturb a badger when it is occupying a sett.

2.3.2 Any activities that may lead to violation of legislative laws will require a licence to be obtained from Natural England. Licensing would be required for the following actions which are directly applicable to the proposed development:

- Heavy machinery works (generally applied to tracked vehicles) carried out within 30m of an active sett entrance;
- Lighter machinery works (generally applied to wheeled vehicles) particularly for any digging operation within 20m of an active sett entrance; and,
- Light work such as hand digging or scrub clearance within 10m.

2.4 Reptiles

2.4.1 Grass snake (*Natrix natrix*), adder (*Vipera berus*), common lizard (*Zootoca vivipara*) and slow-worm (*Anguis fragilis*) are afforded a measure of protection under the Wildlife and Countryside Act 1981 (as amended). As a result it is an offence to:

- Intentionally, or recklessly kill a grass snake, adder, common lizard or slow-worm;
- Intentionally or recklessly injure a grass snake, adder, common lizard or slow-worm; or,
- Sell a grass snake, adder, common lizard or slow-worm.

2.4.2 Grass snake, adder, common lizard and slow-worm are also listed as priority species on the UKBAP though no reptiles are listed on the Bradford LBAP.

2.4.3 Where work could result in the killing and/or injury of any reptiles appropriate mitigation should be devised and implemented with agreement from the local planning authority or Natural England. However, mitigation for these species is not subject to licensing by Natural England.

2.4.4 The habitat of these reptiles is not legally protected from damaged or destruction, and the licensing system does not, therefore, include a requirement to provide replacement habitats in compensation for habitat loss associated with a development.

2.5 Nesting Birds

2.5.1 With certain exceptions², all wild birds, their nests and eggs are protected by the Wildlife and Countryside Act 1981 (as amended). Therefore, it is an offence, *inter alia*, to:

- Intentionally take, damage or destroy the nest of any wild bird while it is in use or being built; or,
- Take or destroy the egg of any wild bird.

2.5.2 Bird species listed on Schedule 1 of the Act receive a higher level of protection under the Wildlife and Countryside Act 1981 (as amended), thus for these species it is also an offence to:

- Disturb any bird while it is nest building, or is at a nest containing eggs or young; or,
- Disturb the dependent young of any such bird.

2.5.3 A number of birds frequently associated with grassland nesting are also listed on the UKBAP. Twite (*Carduelis flavirostris*), yellowhammer (*Emberiza citronella*) and lapwing (*Vanellus vanellus*) are listed on the Bradford LBAP with the conservation statuses of bird species in the UK classified in the Birds of Conservation Concern (BoCC) publication³ as either Red, Amber or Green.

² Some species, such as game birds, are exempt in certain circumstances.

³ Eaton, M.A., N.J. Aebischer, A.F. Brown, R.D. Hearn, L. Lock, A.J. Musgrove, D.G. Noble, D.A. Stroud & R.D. Gregory. 2015. Birds of Conservation Concern 4: the population status of birds in the United Kingdom, Channel Islands and the Isle of Man. British Birds 108: 708-746.

3.0 METHODOLOGY

3.1 Desk Study

3.1.1 Desk studies are important as they can indicate the presence or potential presence of legally protected and/or other notable species that could occur within the site or surrounding area, remain undetected during a single site visit, and which could impose a constraint to the planned development.

3.1.2 A desk study was undertaken in order to gather information relating to statutory and non-statutory nature conservation sites and records of species that are afforded legal protection or are otherwise of notable nature conservation value (see Box 1). The search extends to 2km radius of the site. While all species records were considered, records older than 15 years were, in the main, discounted as being out of date.

3.1.3 The following sources of information were consulted:

- WYES; and,
- Multi Agency Geographic Information for the Countryside (MAGIC) at www.magic.gov.uk

3.1.4 A search was also undertaken to identify potential great crested newt breeding sites/ponds situated within 500m of the site using 1:10,000 OS maps. This search area reflects the fact that great crested newt spend much of their life within terrestrial habitats, typically remaining within 500m of their breeding ponds⁴, however, they are commonly concentrated within 250m of these pond

⁴ English Nature (2001). 'Great Crested Newt Mitigation Guidelines'. English Nature.

Box 1 Designated Wildlife Sites and Protected and Notable Species

Statutory nature conservation sites

Internationally important sites: Special Areas of Conservation (SACs) and candidate SACs, Special Protection Areas (SPAs) and proposed SPAs, Sites of Community Importance (SCI), Ramsar sites and European offshore marine sites.

Nationally important sites: Sites of Special Scientific Interest (SSSIs) that are not subject to international designations and National Nature Reserves (NNRs)

Local Nature Reserves (LNRs) are statutory sites that are of importance for recreation and education as well as nature conservation. Their level of importance is defined by their other statutory or any non-statutory designation (e.g. if an LNR is also an SSSI but is not an internationally important site, it will be of national importance). If an LNR has no other statutory or non-statutory designation it should be treated as being of borough-level importance for biodiversity.

Non-statutory nature conservation sites

Non-statutory nature conservation sites in West Yorkshire are known as Sites of Ecological or Geological Importance (SEGI), Local Wildlife Sites (LWS) and Bradford Wildlife Areas (BWA).

SEGIs are areas identified by the relevant local authority as being important for their flora, fauna, geological or physiological features and are of county wide importance. LWSs are currently 3rd tier local sites in the process of being merged to a single LWS designation. LWSs should be given the same protection as SEGIs. BWAs are also 3rd tier sites, designated by the local authority on the basis of their amenity value and should also be afforded the same protection as SEGIs.

In addition to non-statutory nature conservation sites Bradford Wildlife Habitat Network areas are allocated across the City. Bradford Wildlife Habitat Networks incorporate a variety of habitats, including wetland, grassland and woodland, forming ecological links/corridors.

Legally protected species

Many species of animal and plant receive some degree of legal protection. For the purposes of this study, legal protection refers to:

- species included on Schedules 1, 5 and 8 of the Wildlife and Countryside Act 1981 (as amended), excluding species that are only protected in relation to their sale (see Section 9[5] and 13[2]), reflecting the fact that the development does not include any proposals relating to the sale of species;
- species included on Schedules 2 and 4 of The Conservation of Habitats and Species Regulations 2010 (SI 2010/490); and
- badgers, which are protected under the Protection of Badgers Act 1992.

Notable habitats and species

There are a number of habitats and species, which, whilst not receiving statutory protection, are of importance to nature conservation. These are referred to as notable, and include:

- Habitats and species of principal importance for the conservation of biological diversity in England; these are listed in accordance with Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006;
- National importance: Habitats and species of principal importance for the conservation of biological diversity in England. These are listed on <http://www.ukbap-reporting.org.uk/news/details.asp?X=45>. These include those UK BAP priority habitats and species that occur in England;
- National importance: Species listed as being of conservation concern in the relevant UK Red Data Book (RDB) or the Birds of Conservation Concern Red List (Eaton et al, 2009);
- National importance: Nationally Scarce species, which are species recorded from 16- 100 10 x 10km squares of the national grid;
- National importance: Ancient woodland (i.e. areas that have been under continuous woodland cover since at least 1600).

County importance: Habitats and species listed in the local Biodiversity Action Plan (LBAP).

Legal control

Schedule 9 of the Wildlife and Countryside Act 1981 (as amended) lists species of animal that it is an offence to release or allow to escape into the wild and species of plant that it is an offence to plant or otherwise cause to grow in the wild.

3.2 Extended Phase 1 Habitat Survey

- 3.2.1 An extended Phase 1 habitat survey was carried out on Wednesday 20th July 2016 by Principal Ecologist Jennie Caddick BSc (Hons) MCIEEM. The survey area comprised land inside the red line site boundary as shown on Figure 1 and, where access was possible, immediately adjacent to the site boundary.
- 3.2.2 The survey method was based on the Phase 1 habitat survey methodology⁵. Phase 1 habitat survey is a standard technique for obtaining baseline ecological information for areas 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.
- 3.2.3 Within the survey area, distinct habitats were identified and mapped. As the Phase 1 habitat survey methodology is concerned only with vegetation communities the method was extended to include the collection of information on other features of potential nature conservation value, particularly to identify the presence/potential presence of legally protected species. The survey area was assessed for:
- The potential presence of previously unrecorded areas or features of ecological interest;
 - Evidence of the presence of legally protected species and other species of notable nature conservation value;
 - The presence of habitats that could support legally protected or notable species; and,
 - The presence of invasive plant species.
- 3.2.4 In order to assess their potential to support great crested newt and to determine the requirement for further targeted species surveys, where ponds were recorded within or adjacent to the site they were 'screened' using the Habitat Suitability Index⁶ (HSI).
- 3.2.5 The HSI is a quantitative figure indicating a pond's likely suitability for supporting great crested newt, ranging from excellent to poor. The HSI is calculated by allocating indices to a number of different features of the pond and surrounding area, including the number of ponds within 1km, percentage shade, water quality, presence of waterfowl, presence of fish, surrounding terrestrial habitats and macrophyte cover.

⁵ JNCC (revised 2010). '*Handbook for Phase 1 habitat survey – a technique for environmental audit*'. JNCC.

⁶ Oldham, R. S., Keeble, J., Swan, M. J. S. and Jeffcote, M. (2000). '*Evaluating the suitability of habitat for the great crested newt (Triturus cristatus)*'. Herpetological Journal Vol 10 pp143-155.

4.0 RESULTS

4.1 Desk Study

4.1.1 Sites of Nature Conservation Value

4.1.2 No statutory sites of nature conservation value were identified within 2km of the site during the desk study though twenty (20) non-statutory sites of nature conservation value were noted (some with dual designations).

4.1.3 The desk study response, including a plan showing the location of non-statutory sites is provided at Appendix 1, with records summarised below in order of the distance they occur from the site boundary.

Table 4.1 – Non-statutory sites of nature conservation value

Site Name & Designation	OS Grid Reference	Description	Approximate distance from site boundary in metres (m)
Park Wood LWS and BWA	SE 070 409	Park wood is on a north-west facing steep slope. There are some sections to the north and west of the wood where quarrying formerly took place, and rock exposures and cliff faces remain. The underlying rock is millstone grit. There are three different types of woodland community, the most prevalent being W10 acid woodland, with W15 beech woodland, W16 acid woodland and acid grassland, heath and neutral grassland also present.	~340m to the north-west.
St Ives Estate LWS and BWA	SE 087 390	A large estate which consists mainly of ancient replanted and semi-natural woodland, with heath, bog and grassland habitats. Coppice Bog and Pond SEGI are located inside the LWS boundary.	~970m to the south-east.
Harden Moor & Deepcliffe Wood LWS	SE 076 387	The site is in two parts comprising Harden Moor, a heath which is largely <i>Calluna</i> sp. dominated and Deepcliffe Wood ancient semi-natural oak (<i>Quercus</i> sp.) and birch (<i>Betula</i> sp.) woodland. Areas of acid grassland, neutral grassland and mire are also present with an old sandstone quarry in the south-west part of the site.	~1120m to the south.
Harden Moor BWA	SE 072 387	Council owned heather moorland with public access and car park. Interesting for a variety of birds, including linnet (<i>Carduelis cannabina</i>), goldfinch (<i>Carduelis carduelis</i>), skylark (<i>Alauda arvensis</i>), dunnoek (<i>Prunella modularis</i>) and occasionally	~1120m to the south.

		stonechat (<i>Saxicola rubicola</i>) and twite (<i>Carduelis flavirostris</i>). Also good diversity of butterflies and wasps, bees and ants are well recorded. Links to St Ives Estate and Deep Cliff wood ancient woodland.	
Deepcliffe Wood BWA	SE 082 388	Semi natural woodland notable for absence of non-native species such as sycamore (<i>Acer pseudoplatanus</i>) or beech. Typical acidic oak/birch upland woodland, with variety of age structure. Adjacent to Harden Moor. Good range of wildlife species. Public access for informal recreation, but suffers from trampling and erosion of vegetation.	~1120m to the south.
Hainworth Wood LWS and BWA	SE 059 395	Ancient replanted woodland with a number of ditches and banks, a feature of ancient woodland. There is an area within the woodland which has steep rocky sides and looks to have potentially been quarried. The woodland supports three different woodland communities: wet woodland, acid woodland and beech (<i>Fagus sylvatica</i>) woodland and acts as an important wildlife corridor.	~1300m to the south-west.
Spring Bank BWA	SE 059 397	Semi-improved grassland adjacent to Hainworth Wood containing large amount of yellow rattle (<i>Rhinanthus minor</i>) and other meadow species. No public access.	~1310m to the south-west.
Marley Bog SEGI	SE 087 406	Marley Bog occupies the north-facing side of Airedale at Marley Brow, east of Thwaites near Keighley. The site is centred on a small stream fed by numerous springs. The boundaries are all open, where the vegetation changes from marshy/wet grassland to dry heath and rough grazing pasture.	~1375m to the east.
Hollin Plantation BWA	SE 095 398	Partly privately owned, except Blakey Wood, Altar Wood and Druid's Altar. Valuable wildlife corridor along River Aire with a significant coniferous element to woodland supporting varied wildlife. Links to St Ives Estate and Transfield Wood ancient woodland. Access to much of woodland via public footpaths.	~1460m to the east.
North Beck BWA	SE 052 409	A linear habitat/wildlife corridor linking open countryside to the centre of Keighley. Good for birdlife. Public access along footpath.	~1500m to the north-west.
East Morton Sewage Works BWA	SE 092 411	Wetland owned by Yorkshire Water and with links to Marley Sewage Works. Good ornithological interest, especially grey heron (<i>Ardea cinerea</i>).	~1635m to the north-east.
Stockbridge Nature Reserve LWS and BWA	SE 071 423	The site supports a large lake with the vast majority of the land surrounding the lake, to the south and west, being rich mire habitat. Swamp and willow (<i>Salix</i> sp.) carr are also present with broad-leaved plantation woodland in the northern part of the site. The site supports a good range of bird species and has been developed as a prime bird watching site by Bradford	~1820m to the north.

		Ornithological Group.	
Damems Road Wood BWA	SE 053 390	Neutral base-rich woodland type which has formed naturally on the steep sided bank. There is a wet ditch beside part of the northern end of the path and a small pond is located beside the ditch. There is also a spring running parallel to the ditch which flows down on to the flooded Damems Road, which is close to the River Worth. A few small dense patches of bluebell (<i>Hyacinthoides non-scripta</i>) occur within the woodland.	~1885m to the south-west.
Coppice Bog and Pond SEGI	SE 087 388	Coppice Bog and Pond is an ornamental pond and area of mire, woodland and scrub lying within the St Ives Estate north of Harden. The pond supports a diverse range of aquatic and swamp communities in addition to a population of native white-clawed crayfish (<i>Austropotamobius pallipes</i>).	~2000m to the south-east.
Damems Dyke BWA	SE 053 395	An amenity council-owned former industrial site which includes a mill pond. The site is developed and managed as informal open space, adjacent to the River Worth and supports a good diversity of bird species.	~2000m to the south-west.
School Grounds, Ingrow Lane BWA	SE 051 397	Part of grounds to Oakbank Grammar School in Keighley. Small nature reserve developed by the Council in partnership with the school. Tree planting, stream, small pond and meadow.	~2000m to the south-west.

4.1.4 Protected and Notable Species

4.1.5 One hundred and five (105) records of protected and notable species within 2km of the site boundary from the last 15 years were returned from WYES during the desk study. A full list of species records, including a plan showing their location is provided at Appendix 1, with records summarised below.

4.1.6 Thirty two (32) records of flowering plants were noted during the desk study and include twelve (12) records of Schedule 8 and Bradford LBAP species bluebell. Twenty (20) records of Schedule 9 invasive plant species were also identified and include wall cotoneaster (*Cotoneaster horizontalis*), rhododendron (*Rhododendron ponticum*), montbretia (*Crocasmia x crocosmiiflora*), Himalayan balsam (*Impatiens glandulifera*) and a single record for Japanese knotweed (*Fallopia japonica*) situated 1049m from the site.

4.1.7 Twenty three (23) records for bats to include up to six species: common pipistrelle (*Pipistrellus pipistrellus*), pipistrelle bats, Daubentons bat (*Myotis daubentonii*), Leislers bat (*Nyctalus leisleri*), whiskered bat (*Myotis mystacinus*) and unidentified bat species (*Vespertilionidae* family), were identified.

- 4.1.8 The closest record was for a whiskered bat found grounded 347m from the site while the closest confirmed roost record was located 1083m from the site. In total nine (9) roosts were identified within 2km of the site.
- 4.1.9 No records of badger or badger activity from the last 15 years and from within 2km of the site were returned from the desk study.
- 4.1.10 A single record for adder (*Vipera berus*) was identified from July 2010, 1936m to the north-east of the site.
- 4.1.11 Forty three (43) records of birds were returned, and included Schedule 1 species peregrine falcon (*Falco peregrinus*) and whimbrel (*Numenius phaeopus*). Records for birds which may utilise grassland and scrub habitats within the site, to include skylark (*Alauda arvensis*), meadow pipit (*Anthus pratensis*), linnet, dunnoek, house sparrow (*Passer domesticus*), kestrel (*Falco tinnunculus*), starling (*Sturnus vulgaris*), song thrush (*Turdus philomelos*), tree sparrow (*Passer montanus*), curlew (*Numenius arquata*), swallow (*Hirundo rustica*) were also present.
- 4.1.12 In addition, two (2) records of common frog (*Rana temporaria*) were recorded during 2006- 2016 with the closest being 316m from the site, and a single record of an eel (*Anguilla anguilla*) located 939m from the site was also returned.
- 4.1.13 **Ponds**
- 4.1.14 No ponds were identified inside the site or within 500m of the site boundary during the desk study.

4.2 Extended Phase 1 Habitat Survey

4.2.1 Habitats

4.2.2 The site is approximately 1.08ha in size with the majority comprising poor semi-improved grassland, with an area of marshy grassland across the south central part of the site. Tall ruderal vegetation, isolated scattered scrub and a collapsed stone wall were also identified within the site, with broad-leaved and coniferous scattered trees and species-poor hedges noted around the boundary.

4.2.3 The site is bounded by Redwood Close along the north-east with residential houses and gardens around the remaining boundaries. A partially derelict farmhouse and associated barns is present on the south-west boundary.

4.2.4 A description of the habitats recorded within the site is given below with their distribution annotated on Figure 1. Photos are provided at Appendix 2.

Poor Semi-Improved Grassland

4.2.5 The majority of the site comprises poor semi-improved grassland (Photo 1). The grassland is currently grazed by cattle and dominated by coarse grass species, such as Yorkshire fog (*Holcus lanatus*), cocks foot (*Dactylus glomerata*), tufted hairgrass (*Deschampsia cespitosa*) and meadow foxtail (*Alopecurus pratensis*) with common bent (*Agrostis capillaries*), creeping bent (*Agrostis stolonifera*), buttercup (*Ranunculus* sp.), cow parsley (*Anthriscus sylvestris*) and hawkbit (*Leontodon* sp.) also recorded in the sward.

Marshy Grassland

4.2.6 An area of marshy grassland is present in the south central part of the site, extending across the site between the western boundary, and nearly as far as the eastern boundary (Photo 2).

4.2.7 The marshy grassland occurs along the line of an old ditch/drain and supports compact rush (*Juncus conglomeratus*) and soft rush (*Juncus effuses*) with dominant tufted hairgrass at the east end.

Tall Ruderal Vegetation

- 4.2.8 Areas of tall ruderal vegetation, comprising dominant common nettle (*Urtica dioica*), great willowherb (*Epilobium hirsutum*), creeping thistle (*Cirsium arvense*) and occasional common sorrel (*Rumex acetosa*) and bramble (*Rubus fruticosus* agg), were also identified at frequent intervals around the site boundary.

Scattered Scrub

- 4.2.9 A short section (approximately 2m long) of barberry (*Berberis* sp.) scrub was recorded adjacent to the south-west boundary wall.
- 4.2.10 Scattered elder, rowan (*Sorbus aucuparia*), sycamore (*Acer pseudoplatanus*) and bramble were also recorded growing amongst the collapsed/derelict barns outside the south of the site (Photo 3).

Trees and Hedgerows

- 4.2.11 A single maple (*Acer* sp.) tree was noted in the rank grassland roadside verge outside the north site boundary (Photo 4). The tree is semi-mature and approximately 12m high.
- 4.2.12 A number of semi-mature trees were noted in gardens along the western boundary, outside of the site (Photo 5). Trees here comprise field maple (*Acer campestre*), horse chestnut (*Aesculus hippocastanum*), elder (*Sambucus nigra*), scots pine (*Pinus sylvestris*), Lilac (*Syringa* sp.), cherry laurel (*Prunus laurocerasus*) and Leyland cypress (*Cupressus x leylandii*).
- 4.2.13 A Leyland cypress hedge was also recorded in the south- east corner of the site (Photo 6). The hedge forms the boundary with the site and bordering garden, and is approximately 8m high and 15m long.

Boundaries

- 4.2.14 A stone wall boundary is present around the majority of the site, with exception of the south-east side. The wall is intact along the west boundary, collapsed along the northern boundary and intermittent along the eastern boundary. Where it is not stock-proof fencing (post & wire and post & rail) is present.

4.2.15 A collapsed stone wall is also present extending from the northern boundary of the site down into the middle of the grassland, a former field boundary, for approximately 40m (Photo 7). Foxglove (*Digitalis* spp.), herb Robert (*Geranium robertianum*), ragwort (*Jacobaea vulgaris*) and intermittent nettle were recorded along the walls.

4.2.16 Garden boundaries constructed post & wire, post & rail and formed by garages and hedges are present along the south-east of the site.

4.2.17 A large partially derelict farmhouse and associated barns form the site boundary along the south-west of the site (Photo 8).

4.2.18 **Fauna**

4.2.19 The potential for the presence of legally protected and/or other notable species to occur within and/or adjacent to the site is assessed below.

Bats

4.2.20 No buildings or trees were recorded inside the site and, therefore, no opportunity for roosting bats is present. Despite this, the partially derelict farmhouse and barns adjacent to the south-west boundary offer features with suitability for roosting bats.

4.2.21 Grassland habitats, tall ruderal vegetation and scattered scrub inside the site offer potential foraging opportunities for bats, with stone wall boundaries providing linear features with potential for commuting bats.

Badger

4.2.22 Grassland, tall ruderal and scrub within the site offer potential sett building, foraging and commuting opportunities for badger though no incidental evidence of badgers was observed within the site during the survey.

4.2.23 The site is relatively isolated from habitats within the wider area, with residential housing bordering all sides, however, beyond the southern boundary the landscape opens up and provides a network of boundaries and habitats which could support badger and have some potential to aid their dispersal into/through the site.

Reptiles

- 4.2.24 Despite the absence of incidental evidence of reptiles observed during the survey grassland, tall ruderal and scrub habitats, as well as the stone walls all offer potential foraging and refuge opportunities for common reptile species.

Nesting Birds

- 4.2.25 Grassland, tall ruderal vegetation and scrub habitats identified within the site all have potential to support foraging and nesting birds, including ground nesting species.
- 4.2.26 Starling (*Sturnus vulgaris*) and blackbird (*Turdus merula*) were observed foraging inside the site during the survey.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Sites of Nature Conservation Value

- 5.1.1 Twenty records of non-statutory sites of nature conservation value were identified within 2km of the site during the desk study. The closest site, Park Wood LWS and BWA, is located approximately 340m to the north-west of the site.
- 5.1.2 Due to the nature of the proposed works, the habitats present within non-statutory sites and their distance from the site boundary, it is considered unlikely that any proposed development within the site will impact upon them.

5.2 Habitats

- 5.2.1 The majority of the approximate 1.08ha site comprises poor semi-improved grassland with a marshy grassland area running across the south central area. Tall ruderal vegetation, isolated scattered scrub and a collapsed stone wall were also identified within the site, with broad-leaved and coniferous scattered trees and species-poor hedges noted around the boundary.
- 5.2.2 While these habitats offer potential foraging and/or breeding opportunities for bats, badger, reptiles and nesting birds, they are common and widespread within the wider area and, with consideration to the size of the site, their loss is unlikely to have a significant impact on the ecological value of the area.

- 5.2.3 It is probable that habitats of higher ecological value, to include mature vegetation (specifically trees) which are of an age and structure which are difficult to replace, will be retained during the proposed development as they occur outside the site boundary.
- 5.2.4 While twenty (20) records of Schedule 9 invasive plant species were identified during the desk study no records occur inside the site and no invasive plant species were recorded within or immediately adjacent to the site during the survey. As such, no further consideration has been given to these species.
- 5.2.5 It is recommended that the site landscaping incorporate native species of local provenance and with value for native wildlife within their site design. Incorporation of trees and corridors (including hedgerows) to connect with habitats in the wider area will also benefit wildlife movement across the site.

5.3 Fauna

Bats

- 5.3.1 Twenty three (23) records for bats to include up to six species were identified during the desk study with the closest record, a grounded whiskered bat found 347m from the site and the closest confirmed roost record located 1083m from the site. In total nine (9) roosts were identified within 2km of the site.
- 5.3.2 No features with suitability for supporting roosting bats were identified within the site though the partially derelict farmhouse and barns on the south-west boundary do offer opportunity for roosting and grassland habitats, tall ruderal vegetation and scattered scrub inside the site offer potential foraging opportunities for bats, with stone wall boundaries providing linear features with potential for commuting bats.
- 5.3.3 It is recommended that the proposed development of the site incorporates a buffer of at least 10m between the farmhouse and barns and construction footprint to avoid any disturbance to bats which could be roosting in these buildings.
- 5.3.4 It is probable that the site design will retain boundaries and boundary vegetation around the site and it is recommended that a buffer of at least 5m is retained between the boundaries and construction area during the site design and construction stage so as to minimise impact/disturbance to these corridors and retain their value for foraging and commuting bats.
- 5.3.5 While the site is currently lit from the adjacent Redwood Close additional lighting, which may impact bats and other nocturnal animals, should be avoided where

possible. Where lighting is necessary, e.g. on roads inside the development, this should be low-level (low lux), directional, sensor-operated lighting - reducing energy use and light spill when they are not required.

- 5.3.6 To enhance the site for roosting bats consideration to the inclusion of bat boxes (either external or integral) should be given within the site design.

Badger

- 5.3.7 No records of badger or badger activity were returned from the desk study and no evidence of badger was recorded during the survey. Although habitats within the site do provide some opportunity for sett-building, foraging and commuting badgers, which may be active in the wider area, the site is relatively small and isolated and it is considered unlikely that badger will utilise this area in the future.

- 5.3.8 No further consideration to the presence of badger has been given within this report.

Reptiles

- 5.3.9 A single record for adder was identified 1936m to the north-east of the site and grassland, tall ruderal and scrub habitats, as well as the stone walls inside the site offer potential foraging and refuge opportunities for common reptile species.

- 5.3.10 Due to the absence of habitats within the site which are associated with supporting adder it is highly unlikely that this species will occur and given the small size and isolated nature of the site the likelihood of a significant population of reptiles being present is negligible.

- 5.3.11 Where reptiles are discovered at any point, work should be stopped and an ecologist should be notified in order that advice on how to progress can be given.

Nesting Birds

- 5.3.12 Habitats within the site have potential to support a number of common breeding and foraging bird species with records of bird species likely to utilise these habitats returned from the desk study. Despite this, these habitats are extremely small and so the likelihood of nesting birds occurring is small.

- 5.3.13 Grassland habitats within the site are considered to be sub-optimal for ground nesting species due to the small size of the site itself and the presence of cattle, likely to disturb the area.

- 5.3.14 Where clearance of tall ruderal and/or scrub habitats inside the site is required this should be undertaken outside of the bird breeding season (typically March to September inclusive).
- 5.3.15 Should works be required during the nesting season, an inspection of habitats would be required by an ecologist prior to work commencing to confirm the absence of nesting. Where bird nesting activity was observed, works will be delayed until after dependent young have left the nest.
- 5.3.16 To enhance the site for nesting bird species consideration to the inclusion of bird boxes (either external or integral) should be given within the site design. Boxes should be suitable for a variety of species (e.g. swifts, sparrows) where possible.

FIGURE 1
PHASE 1 HABITAT MAP
SUPPLIED AS A SEPARATE PDF DOCUMENT

APPENDIX 1
DESK STUDY DATA

SUPPLIED AS SEPARATE PDF DOCUMENTS

APPENDIX 2 SITE PHOTOGRAPHS



Photo 1 – The majority of the 1.08ha site comprises cattle-grazed poor semi-improved grassland.



Photo 2 – An area of marshy grassland, which extends between the west and eastern boundaries, is present along an old ditch/drain in the south central part of the site.



Photo 3 – Scattered elder, rowan, sycamore and bramble were recorded growing amongst the collapsed/derelict barns outside the south of the site.



Photo 4 – A single maple is present in the rank grassland roadside verge outside the north site boundary. The tree is semi-mature and approximately 12m high.



Photo 5 – A number of semi-mature mixed scattered trees occur in gardens along the western boundary, outside of the site.



Photo 6 – A Leyland cypress hedge (approximately 8m high and 15m long) was recorded in the south- east corner of the site.





Photo 7 – A collapsed stone wall, a former field boundary, extends for approximately 40m from the northern boundary of the site down into the middle of the grassland.

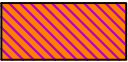


Photo 8 – A large partially derelict farmhouse and associated barns form the site boundary along the south-west of the site.





Site boundary


Tall ruderal


Marshy grassland

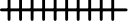
SIPoor semi-improved grassland


Scattered scrub

Scattered trees

Wall

Species-poor intact hedge

Fence




N

Land to the South of Redwood Close, Long Lee

Figure 1
Phase 1 Habitat Map

Date	August 2016
Scale	1:600 @ A3
Job No: PAL001	Ref: m372/PAK001/01



Haycock & Jay Associates Ltd
CONSULTANT ECOLOGISTS

Haycock and Jay Associates Ltd,
10 Boroughgate,
Otley,
West Yorkshire
LS21 3AL

01943 850276

enquiries@haycockandjay.co.uk
www.haycockandjay.co.uk



**West Yorkshire
Ecology
Service**

West Yorkshire Ecology Service
Registry of Deeds
Newstead Road
Wakefield
WF1 2DE
Tel/Fax: 01924 306 793
Email: ecology@wyjs.org.uk

ECOLOGICAL RECORDS SEARCH

FOR

**REDWOOD CLOSE,
LONG LEE,
KEIGHLEY**

Ref No:- 20160711 B613 LP

Date: 19/07/2016

Prepared For Jennie Caddick

Haycock and Jay Associates Ltd

Table of Contents

1	Introduction.....	1
2	Species.....	1
2.1	Sensitive Species Records.....	1
2.1.1	Badgers	1
3	Designated sites.....	1
3.1	Internationally Designated site	1
3.1.1	Special Protection Areas.....	1
3.1.2	Special Areas of Conservation.....	1
3.2	Nationally Designated Sites.....	1
3.2.1	Sites of Special Scientific Interest	1
3.3	Locally Designated Sites	2
3.3.1	Sites of Ecological or Geological Importance.....	2
3.3.2	Local Wildlife Sites.....	2
3.3.3	Bradford Wildlife Areas	2
3.3.4	Local Nature Reserves	4
3.3.5	Local Geological Sites	4

List of Figures

Figure 1 – Species and Designated Sites.....	5
--	---

List of Appendices

Appendix A – Explanation of Species Designations	i
Appendix B – Designated Site Citations	iv
Appendix C – Species Records	v

1 Introduction

This report provides a summary of the protected and notable species, and designated sites information held by West Yorkshire Ecology Service (WYES) within 2km of grid reference SE 071 403.

The information within this report is supplied subject to WYES's 'Terms and Conditions', which can be viewed on the WYES website (<http://www.ecology.wyjs.org.uk>).

2 Species

Please see Appendix C for records held by WYES within your defined search area.

2.1 SENSITIVE SPECIES RECORDS

2.1.1 Badgers

There is known badger activity in this area.

Badgers are protected under the Protection of Badgers Act 1992 and offences can result from both reckless and deliberate damage, disturbance or destruction.

Please see the separate confidential badger map for more information.

BADGERS ARE STILL BEING PERSECUTED, PLEASE DO NOT PASS THESE RECORDS ONTO THIRD PARTIES (INCLUDING SUPPORTING DOCUMENTATION FOR PLANNING APPLICATIONS).

3 Designated sites

3.1 INTERNATIONALLY DESIGNATED SITE

3.1.1 Special Protection Areas

There are no Special Protection Areas within your search area.

3.1.2 Special Areas of Conservation

There are no Special Areas of Conservation within your search area.

3.2 NATIONALLY DESIGNATED SITES

3.2.1 Sites of Special Scientific Interest

There are no Sites of Special Scientific Interest within the search area.

3.3 LOCALLY DESIGNATED SITES

3.3.1 Sites of Ecological or Geological Importance

Sites of Ecological or Geological Importance' (SEGI) are areas identified by the relevant local authority as being important for their flora, fauna, geological or physiological features. They are of county wide importance. Sites recorded include:

- Coppice Bog & Pond
- Marley Bog

Citations for SEGIs are provided in Appendix B.

3.3.2 Local Wildlife Sites

West Yorkshire is currently going through a process of merging 2nd and 3rd tier local sites into a single Local Wildlife Site (LWS) designation. Sites should be given the same protection as SEGIs, as set out in UDPs/LDFs.

- Hainworth Wood
- Harden Moor & Deepcliffe Wood
- Park Wood
- St Ive's Estate
- Stockbridge Nature Reserve

Citations for LWS are provided in Appendix B.

Please refer to the link below for the West Yorkshire Local Wildlife Site Selection Criteria.
<http://www.ecology.wyjs.org.uk/wyjs-ecology-ls.asp>

3.3.3 Bradford Wildlife Areas

Bradford Wildlife Areas (BWA) are third tier sites, designated by the local authority on the basis of their amenity value. Many of these sites have recently been resurveyed and are being assessed against new Local Wildlife Sites (LWS) criteria. Further citations and species lists for specific sites can be supplied on request.

 Denotes sites with no public access

NATURE RESERVES

STOCKBRIDGE NATURE RESERVE

SE 072423

Developed as a prime bird watching site by Bradford Ornithological Group; wetland habitat with hide facilities. Access by BOG members only.

AMENITY SITES (All sites have public access)

DAMEMS DYKE, Keighley

SE 053395

Council-owned former industrial site including mill pond, developed and managed as informal open space, adjacent to river Worth; good diversity of bird species.

ST IVES ESTATE

SE 100392

Council owned, with extensive public access and amenity. Variety of habitats, including woodland and heather moorland outcrops. Well used for recreation. See also Coppice Bog and Pond SEGI.

WETLANDS**EAST MORTON SEWAGE WORKS** 🚫

SE 092411

Owned by Yorkshire Water, links to Marley Sewage Works (see Site 033). Good ornithological interest, especially grey heron (*Ardea cinerea*).

GRASSLAND**SPRING BANK, KEIGHLEY** 🚫

SE 059397

Semi-improved grassland adjacent to Hainworth Wood containing large amount of yellow rattle (*Rhinanthus minor*) and other meadow species. No public access.

MOORLANDS**HARDEN MOOR**

SE 072387

Council owned heather moorland with public access and car park; interesting for a variety of birds, including linnet, goldfinch, skylark, dunnock and occasionally stonechat and twite. Also good diversity of butterflies and wasps, bees and ants are well recorded. Links to St Ives Estate. Deep Cliff wood is probably ancient woodland.

WOODLANDS**DAMEMS ROAD WOOD, INGROW**

SE053390

Neutral base-rich woodland type which has formed naturally on the steep sided bank. Housing borders the site to the north-east. Fauna recorded on site include Blue Tit, Blackbird, Robin and Wren. There is a wet ditch beside part of the northern end of the path and a small pond is located beside the ditch. There is also a spring running parallel to the ditch which flows down on to the flooded Damems Road, which is close to the River Worth. A few small dense patches of bluebell (*Hyacinthoides non-scripta*) within the woodland.

DEEPCLIFFE WOOD, Harden

SE 082388

Semi natural woodland notable for absence of non-native species such as sycamore or beech. Typical acidic oak/birch upland woodland, with variety of age structure. Adjacent to Harden Moor. Good range of wildlife species. Public access for informal recreation, but suffers from trampling and erosion of vegetation.

HAINWORTH WOOD, Keighley 🚫

SE 058395

Probably ancient woodland which has been replanted. Mixed species beech, oak, holly and sycamore. Important wildlife corridor. Privately owned.

HOLLIN PLANTATION, Bingley

SE 095398

Partly privately owned, except Blakey Wood, Altar Wood and Druid's Altar. Valuable wildlife corridor along River Aire. Significant coniferous element to woodland supporting varied wildlife. Links to St Ives Estate. Transfield Wood is an ancient woodland. Access to much of woodland via public footpaths.

PARK WOOD, Keighley

SE 070409

Mature woodland (part ancient woodland) south-east of Keighley town centre, extended by recent planting of young trees. Good regeneration in oak woodland, beech woodland has poor understorey. Part privately owned, part council owned; public footpath through site.

LINEAR HABITATS/WILDLIFE CORRIDORS**NORTH BECK, Keighley**

SE 052409

Wildlife corridor linking open countryside to the centre of Keighley. Good for birdlife. Public access along footpath.

SCHOOL GROUNDS**INGROW LANE** 🚫

SE 051397

Part of grounds to Oakbank Grammar School in Keighley. Small nature reserve developed by the Council in partnership with the school. Tree planting, stream, small pond and meadow.

See Figure 1 for Bradford Wildlife Habitat Network data.

Wildlife Habitat Network data for Bradford can be found on the links below:

http://www.bradford.gov.uk/bmdc/the_environment/planning_service/unitary_development_plan/access_the_replacement_UDP

“Look at the adopted maps”

“Accept terms and conditions”

Not currently mapped. (Draft for LDF produced by WYE)

Replacement UDP (Oct 2005)

http://www.bradford.gov.uk/bmdc/the_environment/planning_service/unitary_development_plan/Replacement+Unitary+Development+Plan+for+the+Bradford+District.+Adopted+October+2005

Download “Policy Framework” see page 215 policy NE 13

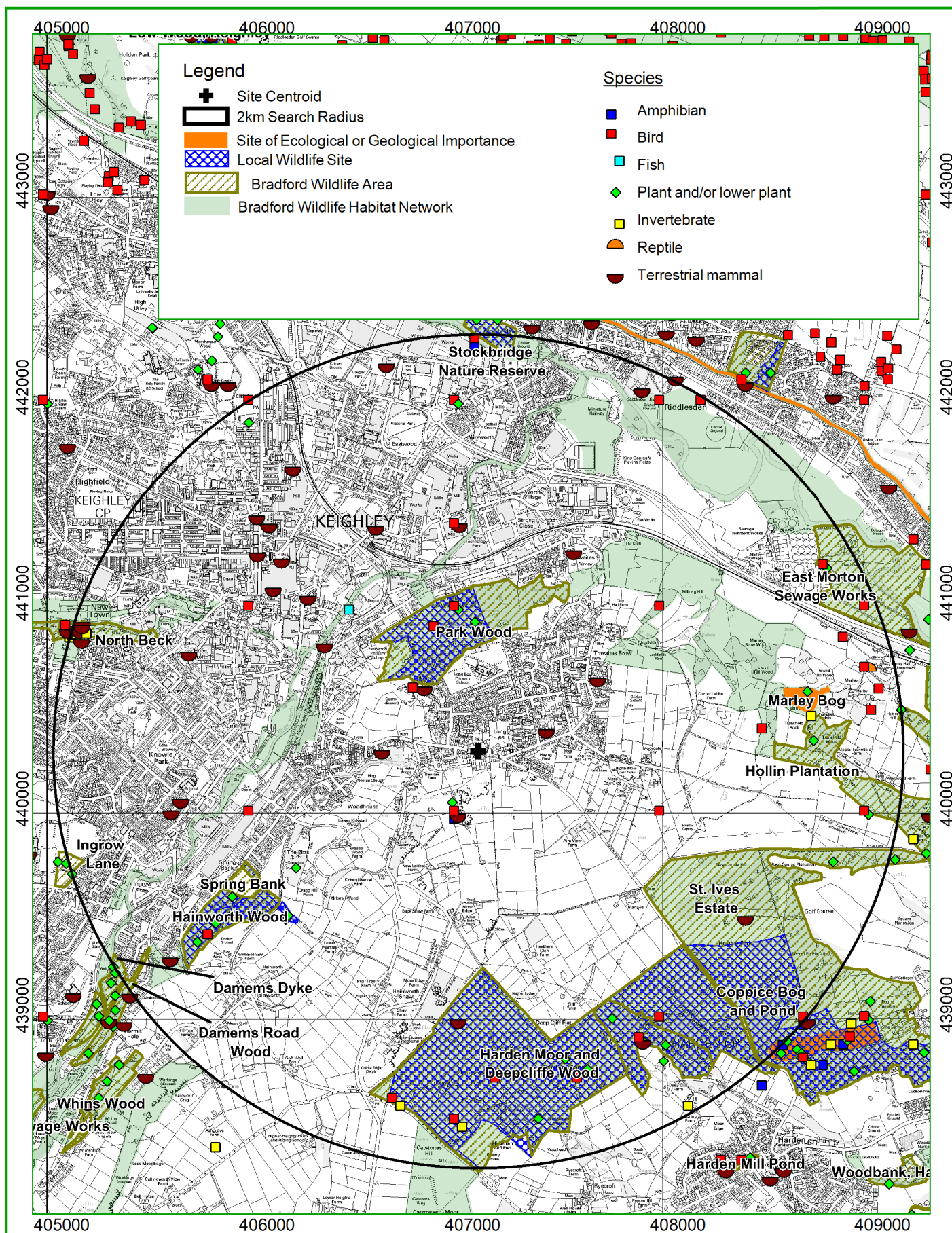
3.3.4 Local Nature Reserves

There are no Local Nature Reserves (LNR) within your search area.

3.3.5 Local Geological Sites

There are no Local Geological Sites (Regionally Important Geological Site (RIGS)) within your search area.

Figure 1 – Species and Designated Sites



Unauthorised reproduction infringes Crown copyright. Copying, sub-licensing, distribution, sale or any other use is strictly prohibited by any third party. Reproduced from the Ordnance Survey digital mapping with the permission of Ordnance Survey on behalf of Her Majesty's Stationary Office. (c) Crown copyright. OS Licence number: WMDC100019574.

metres
0 500 1000



Scale 1:25000
At Size A4



**West Yorkshire
Ecology
Service**

**FIGURE 1:
SPECIES &
DESIGNATED
SITES**

Page: 5

Appendix A. Explanation of Species Designations

Wildlife and Countryside Act 1981 – main designations cited

Abbreviation	Full Name	Description	Offences include, but not limited to
Sch1_part1	Schedule 1, Part 1	Birds which are protected by special penalties at all times	<ul style="list-style-type: none"> disturb any specially protected bird while it is building its nest; disturb any specially protected bird while it is near a nest containing eggs or young; or disturb the young of any of these birds before they are wholly independent.
Sch1_part2	Schedule 1, Part 2	Birds which are protected by special penalties during the close season	
Sch5	Schedule 5	Animals which are protected	<ul style="list-style-type: none"> intentional or reckless killing, injuring, taking; damage to, destruction of, obstruction of access to any structure or place used by a scheduled animal for shelter or protection; and disturbance of animal occupying such a structure or place.
Sch5_sect9.1	Schedule 5, Section 9(1)	Animals which are protected from killing and/or taking	<ul style="list-style-type: none"> intentional killing, injuring and/or taking <p>NB: certain species are only partly protected by this section. Check primary legislation for details.</p>
Sch5_sect9.5	Schedule 5, Section 9(5)	Animals which are protected from sale	<ul style="list-style-type: none"> selling, offering for sale, possessing or transporting for the purpose of sale (live or dead animal, part or derivative); and advertising for buying or selling such things
Sch8	Schedule 8	Plants which are fully protected	<ul style="list-style-type: none"> pick, uproot, trade in, or possess (for the purposes of trade).
Sch8_sect 13.2 (sale only)	Schedule 8, Sections 13(2a+2b)	Plants which are protected from sale only	<ul style="list-style-type: none"> selling, offering for sale, possessing or transporting for the purpose of sale, any plant (live or dead, part or derivative) + advertising for buying or selling such things

Sch9_part1	Schedule 9, Part 1	Animals which are established in the wild.	<ul style="list-style-type: none"> the release of animals and planting of plants listed in Schedule 9. the above offences can be made legal through the granting of licences by the appropriate authorities.
Sch9_part2	Schedule 9, Part 2	Plants which are established in the wild.	

NB: *Tyto alba* refers to captive bred only.

Biodiversity Action Plans

Abbreviation

UKBAP
WYBAP
Bradford BAP
Calderdale BAP
Kirklees BAP
Leeds BAP
Wakefield BAP

Full Name

UK Biodiversity Action Plan
West Yorkshire Priority Species List
Bradford Biodiversity Action Plan
Calderdale Biodiversity Action Plan
Kirklees Biodiversity Action Plan
Leeds Biodiversity Action Plan
Wakefield Biodiversity Action Plan

Birds of Conservation Concern (BOCC) 2009

List

Red
Amber

Description

High conservation concern
Medium conservation concern

Red Data Book Categories (Based on ICUN Guidelines)

Abbreviation

EX
EW
CR
VU
NT
LC
DD
NE

Full Name

Extinct
Extinct in the Wild
Critically Endangered
Vulnerable
Near Threatened
Least Concern
Data Deficient
Not Evaluated

Nationally Notable Invertebrates:

Abbreviation	Full Name	Description
NR	Nationally Rare	found in 15 or fewer hectads
Notable or NS	Nationally Notable or Nationally Scarce	found in between 16 and 100 hectads
Notable A	Nationally Notable A	found in 16 to 30 hectads
Notable B	Nationally Notable B	found in between 31 and 100 hectads

References

Biodiversity Reporting and Information Group, (2007) *Report on the Species and Habitat Review*, UK Biodiversity Partnership. <http://www.ukbap.org.uk/>.

Bratton, J.H. (ed), (1991) *British Red Data Books: 3. Invertebrates other than insects*. JNCC, Peterborough.

BTO, et al (2009) *The Birds of Conservation Concern 3*. British Trust for Ornithology. <http://www.bto.org/psob/index.htm>.

Calderdale Biodiversity Action Plan Technical Group (2008) *Calderdale Local Biodiversity Plan: Review of Species and habitats*, Calderdale Biodiversity Action Plan Technical Group, Calderdale.

Cheffings, C. and Farrell, L. (Editors), (2005) *The Vascular Plant Red Data List for Great Britain*, ISSN 1473-0154.

City of Bradford MDC, (2003), *A Local Biodiversity Action Plan for the Bradford District (Draft)*, City of Bradford MDC, Bradford.

IUCN, (2004) *Guidelines for using the IUCN. Red List categories and criteria*. IUCN,. Gland and Cambridge

J. C. Lavin & G.T.D. Wilmore (1994) , *The West Yorkshire Plant Atlas*, City of Bradford Metropolitan Council, Bradford.

Kirklees Metropolitan Council (2008) *Kirklees Biodiversity Action Plan*, Kirklees Metropolitan Council, Kirklees.

Leeds BAP Steering Group, (2000) *Biodiversity Action Plan For Leeds*, Leeds City Council, Leeds.

Shirt, D. B. (Ed.), (1987) *British Red Data Books : 2 : Insects*. Peterborough: NCC.

Wakefield Biodiversity Group, (2001) *Wakefield District Local Biodiversity Report*, Wakefield MDC, Wakefield.

West Yorkshire Biodiversity Action Partnership (2009), *West Yorkshire Priority Species List*, West Yorkshire Ecology, Wakefield.

Appendix B. Designated Site Citations

Appendix C. Species Records

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE070400	Common Frog	<i>Rana temporaria</i>	amphibian	15/08/2012	field observation		Sch5_sect9.5b; WYBAP	316
SE071423	Common Frog	<i>Rana temporaria</i>	amphibian	11/09/2012	field observation		Sch5_sect9.5b; WYBAP	1,999
SE086389	Common Frog	<i>Rana temporaria</i>	amphibian	18/05/2006 - 16/09/2016	field observation		Sch5_sect9.5b; WYBAP	2,048
SE0840	Common Sandpiper	<i>Actitis hypoleucos</i>	bird	1970 - 1988	field record		BoCC:Amber	946
SE088412	Common Sandpiper	<i>Actitis hypoleucos</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Common Sandpiper	<i>Actitis hypoleucos</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0642	Skylark	<i>Alauda arvensis</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	2,022
SE067386	Skylark	<i>Alauda arvensis</i>	bird	1994 - 1997	field record		BoCC:Red; UKBAP; WYBAP	1,745
SE070385	Skylark	<i>Alauda arvensis</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,802
SE072387	Skylark	<i>Alauda arvensis</i>	bird	28/04/2012	None		BoCC:Red; UKBAP; WYBAP	1,602
SE072387	Skylark	<i>Alauda arvensis</i>	bird	09/06/2012	None		BoCC:Red; UKBAP; WYBAP	1,602

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0740	Skylark	<i>Alauda arvensis</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	316
SE0741	Skylark	<i>Alauda arvensis</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	707
SE076387	Skylark	<i>Alauda arvensis</i>	bird	15/06/2011	field observation		BoCC:Red; UKBAP; WYBAP	1,675
SE0839	Skylark	<i>Alauda arvensis</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,579
SE0842	Skylark	<i>Alauda arvensis</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,922
SE088412	Kingfisher	<i>Alcedo atthis</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	1,919
SE0940	Kingfisher	<i>Alcedo atthis</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	1,918
SE0941	Kingfisher	<i>Alcedo atthis</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	2,020
SE0940	Pintail	<i>Anas acuta</i>	bird	1970 - 1988	field record		Sch1_part2; BoCC:Amber	1,918
SE088412	Shoveler	<i>Anas clypeata</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Shoveler	<i>Anas clypeata</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE088412	Teal	<i>Anas crecca</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Teal	<i>Anas crecca</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE088412	Wigeon	<i>Anas penelope</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Wigeon	<i>Anas penelope</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0842	Mallard	<i>Anas platyrhynchos</i>	bird	1970 - 1988	field record		BoCC:Amber	1,922
SE088412	Mallard	<i>Anas platyrhynchos</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Mallard	<i>Anas platyrhynchos</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE088412	Gadwall	<i>Anas strepera</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Gadwall	<i>Anas strepera</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE070385	Meadow Pipit	<i>Anthus pratensis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,802
SE072387	Meadow Pipit	<i>Anthus pratensis</i>	bird	28/04/2012	None		BoCC:Amber	1,602
SE072387	Meadow Pipit	<i>Anthus pratensis</i>	bird	09/06/2012	None		BoCC:Amber	1,602
SE076387	Meadow Pipit	<i>Anthus pratensis</i>	bird	15/06/2011	field observation		BoCC:Amber	1,675
SE0839	Meadow Pipit	<i>Anthus pratensis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,579
SE0842	Meadow Pipit	<i>Anthus pratensis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,922
SE088412	Meadow Pipit	<i>Anthus pratensis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0839	Tree Pipit	<i>Anthus trivialis</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,579

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE085404	Tree Pipit	<i>Anthus trivialis</i>	bird	1997	field record		BoCC:Red; UKBAP; WYBAP	1,400
SE0641	Swift	<i>Apus apus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,301
SE070385	Swift	<i>Apus apus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,802
SE0842	Swift	<i>Apus apus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,922
SE0842	Swift	<i>Apus apus</i>	bird	2008	field record		BoCC:Amber; WYBAP	1,922
SE088412	Swift	<i>Apus apus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,919
SE0940	Swift	<i>Apus apus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,918
SE088412	Pochard	<i>Aythya ferina</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Pochard	<i>Aythya ferina</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE088412	Tufted Duck	<i>Aythya fuligula</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Tufted Duck	<i>Aythya fuligula</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0940	Bittern	<i>Botaurus stellaris</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red; UKBAP; WYBAP	1,918
SE088412	Goldeneye	<i>Bucephala clangula</i>	bird	1970 - 1988	field record		Sch1_part2; BoCC:Amber	1,919
SE0940	Goldeneye	<i>Bucephala clangula</i>	bird	1970 - 1988	field record		Sch1_part2; BoCC:Amber	1,918

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE088412	Dunlin	<i>Calidris alpina</i>	bird	1970 - 1988	field record		BoCC:Red; WYBAP	1,919
SE0940	Dunlin	<i>Calidris alpina</i>	bird	1970 - 1988	field record		BoCC:Red; WYBAP	1,918
SE088412	Purple Sandpiper	<i>Calidris maritima</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	1,919
SE0941	Purple Sandpiper	<i>Calidris maritima</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	2,020
SE067386	Linnet	<i>Carduelis cannabina</i>	bird	1994 - 1997	field record		BoCC:Red; UKBAP; WYBAP	1,745
SE072387	Linnet	<i>Carduelis cannabina</i>	bird	28/04/2012	None		BoCC:Red; UKBAP; WYBAP	1,602
SE072387	Linnet	<i>Carduelis cannabina</i>	bird	09/06/2012	None		BoCC:Red; UKBAP; WYBAP	1,602
SE076387	Linnet	<i>Carduelis cannabina</i>	bird	15/06/2011	field observation		BoCC:Red; UKBAP; WYBAP	1,675
SE067386	Twite	<i>Carduelis flavirostris</i>	bird	1994 - 1997	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	1,745
SE0840	Twite	<i>Carduelis flavirostris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	946
SE088412	Twite	<i>Carduelis flavirostris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	1,919

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0940	Ringed Plover	<i>Charadrius hiaticula</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE088412	Black Tern	<i>Chlidonias niger</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	1,919
SE0941	Black Tern	<i>Chlidonias niger</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	2,020
SE0840	Stock Dove	<i>Columba oenas</i>	bird	1970 - 1988	field record		BoCC:Amber	946
SE0842	Stock Dove	<i>Columba oenas</i>	bird	1970 - 1988	field record		BoCC:Amber	1,922
SE088412	Stock Dove	<i>Columba oenas</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE072387	Cuckoo	<i>Cuculus canorus</i>	bird	09/06/2012	None		BoCC:Red; UKBAP; WYBAP	1,602
SE0839	Cuckoo	<i>Cuculus canorus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,579
SE088412	Cuckoo	<i>Cuculus canorus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,919
SE0842	House Martin	<i>Delichon urbica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,922
SE088412	House Martin	<i>Delichon urbica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,919
SE0940	House Martin	<i>Delichon urbica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,918
SE070385	Yellowhammer	<i>Emberiza citrinella</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	1,802

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0839	Yellowhammer	<i>Emberiza citrinella</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	1,579
SE0840	Yellowhammer	<i>Emberiza citrinella</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	946
SE0841	Yellowhammer	<i>Emberiza citrinella</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	1,138
SE0842	Yellowhammer	<i>Emberiza citrinella</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	1,922
SE088412	Reed Bunting	<i>Emberiza schoeniclus</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,919
SE0940	Reed Bunting	<i>Emberiza schoeniclus</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,918
SE068406	Peregrine	<i>Falco peregrinus</i>	bird	Jul-15	field record		Sch1_part1; WYBAP	424
SE070414	Peregrine	<i>Falco peregrinus</i>	bird	2008	field record		Sch1_part1; WYBAP	1,104
SE070414	Peregrine	<i>Falco peregrinus</i>	bird	2009	field record		Sch1_part1; WYBAP	1,104
SE070414	Peregrine	<i>Falco peregrinus</i>	bird	2010	field record		Sch1_part1; WYBAP	1,104
SE0640	Kestrel	<i>Falco tinnunculus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,137

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE068406	Kestrel	<i>Falco tinnunculus</i>	bird	Apr-16	field record		BoCC:Amber; WYBAP	424
SE070385	Kestrel	<i>Falco tinnunculus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,802
SE072387	Kestrel	<i>Falco tinnunculus</i>	bird	28/04/2012	None		BoCC:Amber; WYBAP	1,602
SE0741	Kestrel	<i>Falco tinnunculus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	707
SE076387	Kestrel	<i>Falco tinnunculus</i>	bird	15/06/2011	field observation		BoCC:Amber; WYBAP	1,675
SE082420	Kestrel	<i>Falco tinnunculus</i>	bird	09/01/2007	Casualty	1 Count of Adult	BoCC:Amber; WYBAP	2,023
SE0839	Kestrel	<i>Falco tinnunculus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,579
SE0842	Kestrel	<i>Falco tinnunculus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,922
SE088412	Kestrel	<i>Falco tinnunculus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,919
SE0940	Kestrel	<i>Falco tinnunculus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,918
SE088412	Brambling	<i>Fringilla montifringilla</i>	bird	1970 - 1988	field record		Sch1_part1	1,919
SE088412	Snipe	<i>Gallinago gallinago</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Snipe	<i>Gallinago gallinago</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE088412	Oystercatcher	<i>Haematopus ostralegus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0889640846	Oystercatcher	<i>Haematopus ostralegus</i>	bird	10/06/2013	field record	3 Count	BoCC:Amber	1,872
SE0940	Oystercatcher	<i>Haematopus ostralegus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0642	Swallow	<i>Hirundo rustica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	2,022
SE070385	Swallow	<i>Hirundo rustica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,802
SE072387	Swallow	<i>Hirundo rustica</i>	bird	09/06/2012	None		BoCC:Amber; WYBAP	1,602
SE0740	Swallow	<i>Hirundo rustica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	316
SE076387	Swallow	<i>Hirundo rustica</i>	bird	15/06/2011	field observation		BoCC:Amber; WYBAP	1,675
SE0839	Swallow	<i>Hirundo rustica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,579
SE0842	Swallow	<i>Hirundo rustica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,922
SE088412	Swallow	<i>Hirundo rustica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,919
SE0940	Swallow	<i>Hirundo rustica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,918
SE070385	Red Grouse	<i>Lagopus lagopus</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,802
SE088412	Herring Gull	<i>Larus argentatus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP	1,919
SE0841	Common Gull	<i>Larus canus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,138
SE070385	Lesser Black-Backed Gull	<i>Larus fuscus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,802
SE0740	Lesser Black-Backed Gull	<i>Larus fuscus</i>	bird	1970 - 1988	field record		BoCC:Amber	316
SE0842	Lesser Black-Backed Gull	<i>Larus fuscus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,922

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE088412	Lesser Black-Backed Gull	<i>Larus fuscus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Lesser Black-Backed Gull	<i>Larus fuscus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0741	Black-Headed Gull	<i>Larus ridibundus</i>	bird	1970 - 1988	field record		BoCC:Amber	707
SE0842	Black-Headed Gull	<i>Larus ridibundus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,922
SE088412	Black-Headed Gull	<i>Larus ridibundus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Black-Headed Gull	<i>Larus ridibundus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0940	Black-Tailed Godwit	<i>Limosa limosa</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red; UKBAP	1,918
SE071423	Grasshopper Warbler	<i>Locustella naevia</i>	bird	23/04/2008 - 13/05/2008	field record		BoCC:Red; UKBAP; WYBAP	1,999
SE0841	Grasshopper Warbler	<i>Locustella naevia</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,138
SE0940	Grasshopper Warbler	<i>Locustella naevia</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,918
SE0840	Jack Snipe	<i>Lymnocyptes minimus</i>	bird	1970 - 1988	field record		BoCC:Amber	946
SE088412	Jack Snipe	<i>Lymnocyptes minimus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0842	Grey Wagtail	<i>Motacilla cinerea</i>	bird	1970 - 1988	field record		BoCC:Amber	1,922
SE088412	Grey Wagtail	<i>Motacilla cinerea</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0940	Grey Wagtail	<i>Motacilla cinerea</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0941	Grey Wagtail	<i>Motacilla cinerea</i>	bird	1970 - 1988	field record		BoCC:Amber	2,020
SE090407	Yellow Wagtail	<i>Motacilla flava</i>	bird	01/04/2008	field record	1 Range of Adult	BoCC:Red; UKBAP; WYBAP	1,936
SE0940	Yellow Wagtail	<i>Motacilla flava</i>	bird	Autumn 2008	field record		BoCC:Red; UKBAP; WYBAP	1,918
SE070385	Yellow Wagtail	<i>Motacilla flava subsp. flavissima</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,802
SE0840	Yellow Wagtail	<i>Motacilla flava subsp. flavissima</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	946
SE088412	Yellow Wagtail	<i>Motacilla flava subsp. flavissima</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,919
SE0940	Yellow Wagtail	<i>Motacilla flava subsp. flavissima</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,918
SE071423	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	2008	field record		BoCC:Red; UKBAP; WYBAP	1,999
SE0841	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,138
SE0842	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,922

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0940	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,918
SE072387	Curlew	<i>Numenius arquata</i>	bird	28/04/2012	None		BoCC:Amber; UKBAP; WYBAP	1,602
SE0841	Curlew	<i>Numenius arquata</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,138
SE090407	Whimbrel	<i>Numenius phaeopus</i>	bird	13/06/2008	field record	1 Range of Adult	Sch1_part1; BoCC:Red	1,936
SE088412	Willow Tit	<i>Parus montanus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,919
SE0640	House Sparrow	<i>Passer domesticus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,137
SE0642	House Sparrow	<i>Passer domesticus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	2,022
SE068406	House Sparrow	<i>Passer domesticus</i>	bird	Mar-15	field record		BoCC:Red; UKBAP; WYBAP	424
SE0740	House Sparrow	<i>Passer domesticus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	316
SE0839	House Sparrow	<i>Passer domesticus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,579
SE0842	House Sparrow	<i>Passer domesticus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,922

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE088412	House Sparrow	<i>Passer domesticus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,919
SE071423	Tree Sparrow	<i>Passer montanus</i>	bird	01/10/2008	field record	2 Range of Adult	BoCC:Red; UKBAP; WYBAP	1,999
SE0840	Tree Sparrow	<i>Passer montanus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	946
SE0842	Tree Sparrow	<i>Passer montanus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,922
SE088412	Tree Sparrow	<i>Passer montanus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,919
SE070385	Grey Partridge	<i>Perdix perdix</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,802
SE0839	Grey Partridge	<i>Perdix perdix</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,579
SE0842	Grey Partridge	<i>Perdix perdix</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,922
SE088412	Grey Partridge	<i>Perdix perdix</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,919
SE0940	Grey Partridge	<i>Perdix perdix</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,918
SE088412	Ruff	<i>Philomachus pugnax</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	1,919

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0940	Ruff	<i>Philomachus pugnax</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	1,918
SE0941	Ruff	<i>Philomachus pugnax</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	2,020
SE070385	Redstart	<i>Phoenicurus phoenicurus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,802
SE0839	Redstart	<i>Phoenicurus phoenicurus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,579
SE088412	Redstart	<i>Phoenicurus phoenicurus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0640	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,137
SE072387	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	28/04/2012	None		BoCC:Amber	1,602
SE072387	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	09/06/2012	None		BoCC:Amber	1,602
SE0741	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	1970 - 1988	field record		BoCC:Amber	707
SE076387	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	15/06/2011	field observation		BoCC:Amber	1,675
SE079389	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	28/04/2012	field observation		BoCC:Amber	1,611
SE0839	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,579
SE0842	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,922
SE088412	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE070385	Green Woodpecker	<i>Picus viridis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,802

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE070400	Green Woodpecker	<i>Picus viridis</i>	bird	15/08/2012	field observation		BoCC:Amber	316
SE0839	Green Woodpecker	<i>Picus viridis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,579
SE0842	Green Woodpecker	<i>Picus viridis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,922
SE088412	Green Woodpecker	<i>Picus viridis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE058394	Dunnock	<i>Prunella modularis</i>	bird	21/06/2011	field observation		BoCC:Amber; UKBAP; WYBAP	1,578
SE0642	Dunnock	<i>Prunella modularis</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	2,022
SE067386	Dunnock	<i>Prunella modularis</i>	bird	1994 - 1997	field record		BoCC:Amber; UKBAP; WYBAP	1,745
SE068406	Dunnock	<i>Prunella modularis</i>	bird	Apr-16	field record		BoCC:Amber; UKBAP; WYBAP	424
SE072387	Dunnock	<i>Prunella modularis</i>	bird	28/04/2012	None		BoCC:Amber; UKBAP; WYBAP	1,602
SE0839	Dunnock	<i>Prunella modularis</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,579
SE0841	Dunnock	<i>Prunella modularis</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,138
SE0842	Dunnock	<i>Prunella modularis</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,922

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0839	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,579
SE0841	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,138
SE0842	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,922
SE0940	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP	1,918
SE0642	Sand Martin	<i>Riparia riparia</i>	bird	1970 - 1988	field record		BoCC:Amber	2,022
SE088412	Sand Martin	<i>Riparia riparia</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Sand Martin	<i>Riparia riparia</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE070385	Whinchat	<i>Saxicola rubetra</i>	bird	1970 - 1988	field record		BoCC:Amber	1,802
SE0840	Whinchat	<i>Saxicola rubetra</i>	bird	1970 - 1988	field record		BoCC:Amber	946
SE088412	Whinchat	<i>Saxicola rubetra</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Whinchat	<i>Saxicola rubetra</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0940	Common Tern	<i>Sterna hirundo</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0640	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,137

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0642	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	2,022
SE068406	Starling	<i>Sturnus vulgaris</i>	bird	Apr-16	field record		BoCC:Red; UKBAP; WYBAP	424
SE0740	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	316
SE0839	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,579
SE0842	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,922
SE088412	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,919
SE0903540492	Starling	<i>Sturnus vulgaris</i>	bird	19/04/2013	field record	1 Count	BoCC:Red; UKBAP; WYBAP	1,939
SE0907040595	Starling	<i>Sturnus vulgaris</i>	bird	10/06/2013	field record	11 Count	BoCC:Red; UKBAP; WYBAP	1,986
SE071423	Whitethroat	<i>Sylvia communis</i>	bird	2008	field record		BoCC:Amber	1,999
SE0741	Whitethroat	<i>Sylvia communis</i>	bird	1970 - 1988	field record		BoCC:Amber	707
SE088412	Whitethroat	<i>Sylvia communis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Whitethroat	<i>Sylvia communis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE088412	Little Grebe	<i>Tachybaptus ruficollis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Little Grebe	<i>Tachybaptus ruficollis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0841	Shelduck	<i>Tadorna tadorna</i>	bird	1970 - 1988	field record		BoCC:Amber	1,138
SE0940	Shelduck	<i>Tadorna tadorna</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE088412	Spotted Redshank	<i>Tringa erythropus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Spotted Redshank	<i>Tringa erythropus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0941	Spotted Redshank	<i>Tringa erythropus</i>	bird	1970 - 1988	field record		BoCC:Amber	2,020
SE088412	Wood Sandpiper	<i>Tringa glareola</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	1,919
SE0941	Wood Sandpiper	<i>Tringa glareola</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	2,020
SE0840	Greenshank	<i>Tringa nebularia</i>	bird	1970 - 1988	field record		Sch1_part1	946
SE088412	Greenshank	<i>Tringa nebularia</i>	bird	1970 - 1988	field record		Sch1_part1	1,919
SE0940	Greenshank	<i>Tringa nebularia</i>	bird	1970 - 1988	field record		Sch1_part1	1,918
SE0941	Greenshank	<i>Tringa nebularia</i>	bird	1970 - 1988	field record		Sch1_part1	2,020
SE0840	Green Sandpiper	<i>Tringa ochropus</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	946
SE088412	Green Sandpiper	<i>Tringa ochropus</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	1,919
SE0940	Green Sandpiper	<i>Tringa ochropus</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Amber	1,918

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0742	Redshank	<i>Tringa totanus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,702
SE0840	Redshank	<i>Tringa totanus</i>	bird	1970 - 1988	field record		BoCC:Amber	946
SE0842	Redshank	<i>Tringa totanus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,922
SE088412	Redshank	<i>Tringa totanus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Redshank	<i>Tringa totanus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,918
SE0941	Redshank	<i>Tringa totanus</i>	bird	1970 - 1988	field record		BoCC:Amber	2,020
SE0842	Redwing	<i>Turdus iliacus</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	1,922
SE088412	Redwing	<i>Turdus iliacus</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	1,919
SE0940	Redwing	<i>Turdus iliacus</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	1,918
SE0642	Song Thrush	<i>Turdus philomelos</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	2,022
SE069409	Song Thrush	<i>Turdus philomelos</i>	bird	03/06/2011	field observation		BoCC:Red; UKBAP; WYBAP	632
SE072387	Song Thrush	<i>Turdus philomelos</i>	bird	28/04/2012	None		BoCC:Red; UKBAP; WYBAP	1,602
SE0839	Song Thrush	<i>Turdus philomelos</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,579

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0841	Song Thrush	<i>Turdus philomelos</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,138
SE0842	Song Thrush	<i>Turdus philomelos</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,922
SE0842	Fieldfare	<i>Turdus pilaris</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	1,922
SE088412	Fieldfare	<i>Turdus pilaris</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	1,919
SE0641	Mistle Thrush	<i>Turdus viscivorus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,301
SE0839	Mistle Thrush	<i>Turdus viscivorus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,579
SE0842	Mistle Thrush	<i>Turdus viscivorus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,922
SE088412	Mistle Thrush	<i>Turdus viscivorus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,919
SE0940	Barn Owl	<i>Tyto alba</i>	bird	1970 - 1988	field record		Sch1_part1 Sch9_part1; BoCC:Amber; WYBAP	1,918
SE0642	Lapwing	<i>Vanellus vanellus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	2,022
SE0740	Lapwing	<i>Vanellus vanellus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	316
SE0842	Lapwing	<i>Vanellus vanellus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP;	1,922

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
							WYBAP; Bradford BAP	
SE088412	Lapwing	<i>Vanellus vanellus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	1,919
SE0940	Lapwing	<i>Vanellus vanellus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Bradford BAP	1,918
SE0645040980	European Eel	<i>Anguilla anguilla</i>	bony fish (Actinoptery gii)	25/04/2006	field record		UKBAP; WYBAP	939
SE05823947	Wall Cotoneaster	<i>Cotoneaster horizontalis</i>	flowering plant	21/06/2011	field observation	R Count of DAFOR	Sch9_part2	1,522
SE07084094	Wall Cotoneaster	<i>Cotoneaster horizontalis</i>	flowering plant	03/06/2011	field observation	R Count of DAFOR	Sch9_part2	640
SE0742	Montbretia	<i>Crocasmia x crocosmiiflora</i>	flowering plant	10/08/1983	field record		Sch9_part2	1,702
SE080388	Montbretia	<i>Crocasmia x crocosmiiflora</i>	flowering plant	2004	field record		Sch9_part2	1,747
SE0621039740	Japanese Knotweed	<i>Fallopia japonica</i>	flowering plant	10/10/2008	field record		Sch9_part2	1,049
SE0741	Large-Flowered Hemp-Nettle	<i>Galeopsis speciosa</i>	flowering plant	03/08/1970	field record		RDB:post2001:V U	707
SE05733938	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	21/06/2011	field observation	LF Count of DAFOR	Sch8_sect 13.2; Bradford BAP	1,647
SE05823947	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	21/06/2011	field observation	O Count of DAFOR	Sch8_sect 13.2; Bradford BAP	1,522
SE06033951	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	21/06/2011	field observation	O Count of DAFOR	Sch8_sect 13.2; Bradford BAP	1,327

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE06163949	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	23/06/2012	field observation	LF Count of DAFOR	Sch8_sect 13.2; Bradford BAP	1,239
SE06163951	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	23/06/2012	field observation	O Count of DAFOR	Sch8_sect 13.2; Bradford BAP	1,226
SE06173951	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	23/06/2012	field observation	O Count of DAFOR	Sch8_sect 13.2; Bradford BAP	1,218
SE0621039740	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	10/10/2008	field record		Sch8_sect 13.2; Bradford BAP	1,049
SE07084094	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	03/06/2011	field observation	O Count of DAFOR	Sch8_sect 13.2; Bradford BAP	640
SE079389	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	03/06/1982	field record		Sch8_sect 13.2; Bradford BAP	1,611
SE08013888	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	28/04/2012	field observation	LF Count of DAFOR	Sch8_sect 13.2; Bradford BAP	1,685
SE080388	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	2004	field record		Sch8_sect 13.2; Bradford BAP	1,747
SE08734036	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	29/05/2012	field observation	O Count of DAFOR	Sch8_sect 13.2; Bradford BAP	1,627
SE087406	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	13/06/1997	field record	R Range of DAFOR	Sch8_sect 13.2; Bradford BAP	1,623
SE087406	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	16/09/2002	field record	R Range of DAFOR	Sch8_sect 13.2; Bradford BAP	1,623
SE088412	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	31/10/1977	field record		Sch8_sect 13.2; Bradford BAP	1,919
SE09164051	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	29/05/2012	field observation	LF Count of DAFOR	Sch8_sect 13.2; Bradford BAP	2,065
SE0940	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	04/05/1983	field record		Sch8_sect 13.2; Bradford BAP	1,918
SE059396	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	20/06/2011	field observation	LA Count of DAFOR	Sch9_part2	1,386
SE06033951	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	21/06/2011	field observation	LF Count of DAFOR	Sch9_part2	1,327

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE07753901	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	28/04/2012	field observation	LF Count of DAFOR	Sch9_part2	1,443
SE080388	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	2004	field record		Sch9_part2	1,747
SE08833977	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	18/07/2012	field observation	R Count of DAFOR	Sch9_part2	1,805
SE0940	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	20/07/1983	field record		Sch9_part2	1,918
SE05823947	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	21/06/2011	field observation	LF Count of DAFOR	Sch9_part2	1,522
SE059396	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	20/06/2011	field observation	R Count of DAFOR	Sch9_part2	1,386
SE0598041910	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	19/06/2015	field record	R Count of DAFOR	Sch9_part2	1,959
SE06033951	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	21/06/2011	field observation	R Count of DAFOR	Sch9_part2	1,327
SE06974006	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	15/08/2012	field observation	R Count of DAFOR	Sch9_part2	273
SE07393852	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	15/06/2011	field observation	R Count of DAFOR	Sch9_part2	1,802
SE0742	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	06/07/1983	field record		Sch9_part2	1,702
SE07523881	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	15/06/2011	field observation	O Count of DAFOR	Sch9_part2	1,547
SE07633876	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	15/06/2011	field observation	R Count of DAFOR	Sch9_part2	1,628
SE08013888	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	28/04/2012	field observation	R Count of DAFOR	Sch9_part2	1,685
SE080388	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	2004	field record		Sch9_part2	1,747

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE086389	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	18/05/2006 - 16/09/2008	field observation		Sch9_part2	2,048
SE08833977	Rhododendron	<i>Rhododendron ponticum</i>	flowering plant	18/07/2012	field observation	LF Count of DAFOR	Sch9_part2	1,805
SE0517240905	Pterostichus cristatus	<i>Pterostichus cristatus</i>	insect - beetle (Coleoptera)	13/07/2010	field record		Notable:B	2,015
SE067386	Small Heath	<i>Coenonympha pamphilus</i>	insect - butterfly	July 1994 - August 1997	field record	4 Count of Adult	UKBAP	1,745
SE067386	Wall	<i>Lasiommata megera</i>	insect - butterfly	July 1994 - August 1997	field record	3 Count of Adult	UKBAP; WYBAP	1,745
SE087405	Wall	<i>Lasiommata megera</i>	insect - butterfly	1994 - 1997	field record	2 Count of Adult	UKBAP; WYBAP	1,608
SE067386	Common Blue	<i>Polyommatus icarus</i>	insect - butterfly	July 1994 - August 1997	field record	5 Count of Adult	Bradford BAP	1,745
SE081386	Common Blue	<i>Polyommatus icarus</i>	insect - butterfly	1994 - 1997	field record	2 Count of Adult	Bradford BAP	1,970
SE070385	Andrena (Poliandrena) tarsata	<i>Andrena (Poliandrena) tarsata</i>	insect - hymenoptera n	1994 - 1997	netted		UKBAP	1,802
SE070385	Andrena varians	<i>Andrena varians</i>	insect - hymenoptera n	1994 - 1997	netted		Notable:B	1,802
SE070385	Nomada lathburiana	<i>Nomada lathburiana</i>	insect - hymenoptera n	1994 - 1997	netted		RDB:Pre94:NR	1,802

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE090407	Adder	<i>Vipera berus</i>	reptile	01/07/2010	field record	2 Count	Sch5_sect9.5b; UKBAP; WYBAP	1,936
SE066414	West European Hedgehog	<i>Erinaceus europaeus</i>	terrestrial mammal	04/07/2014	dead on road	1 Count	UKBAP; WYBAP	1,207
SE0739	Brown Hare	<i>Lepus europaeus</i>	terrestrial mammal	28/07/1987	field record	4 Count of Adult	UKBAP; WYBAP; Bradford BAP	1,303
SE084395	Brown Hare	<i>Lepus europaeus</i>	terrestrial mammal	01/07/1984	field record	2 Count of Adult	UKBAP; WYBAP; Bradford BAP	1,523
SE0602241270	Daubenton's Bat	<i>Myotis daubentonii</i>	terrestrial mammal	09/05/2007	in building	1 Count of Adult	Sch5; WYBAP	1,448
SE07434041	Whiskered Bat	<i>Myotis mystacinus</i>	terrestrial mammal	19/08/2005	Grounded	1 Count of Adult	Sch5; WYBAP	347
SE0683640618	Leisler's Bat	<i>Nyctalus leisleri</i>	terrestrial mammal	12/09/2015	field record		Sch5; WYBAP	413
SE0627141061	Pipistrellus	<i>Pipistrellus</i>	terrestrial mammal	01/09/2005	Roost		Sch5	1,123
SE06634031	Pipistrellus	<i>Pipistrellus</i>	terrestrial mammal	27/06/2005	in building	1 Count of Juvenile	Sch5	469
SE0516840852	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	30/06/2010	Roost (summer)	1 Count	Sch5; WYBAP; Bradford BAP	2,004
SE0517240934	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	11/08/2010	Roost (summer)	1 Count	Sch5; WYBAP; Bradford BAP	2,024
SE05174092	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	22/07/2010	Roost (summer)	1 Count	Sch5; WYBAP; Bradford BAP	2,022
SE0560440014	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	09/07/2002	Roost (maternity)	48 Count of Adult	Sch5; WYBAP; Bradford BAP	1,519
SE06084141	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	12/07/2011	Roost (summer)	2 Count	Sch5; WYBAP; Bradford BAP	1,505

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE0683640618	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	12/09/2015	field record		Sch5; WYBAP; Bradford BAP	413
SE0700741411	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	11/08/2015	field record	1 Count	Sch5; WYBAP; Bradford BAP	1,114
SE0700741411	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	11/08/2015	Roost	1 Count	Sch5; WYBAP; Bradford BAP	1,114
SE05654007	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	terrestrial mammal	28/06/2007	Grounded	1 Count of Adult	Sch5	1,464
SE0610041100	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	terrestrial mammal	21/07/2007	Casualty	1 Count of Adult	Sch5	1,278
SE06144124	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	terrestrial mammal	17/09/2004	Injured	1 Count of Adult	Sch5	1,341
SE0619541689	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	terrestrial mammal	15/12/2006	Roost (possible)	2 Count of Adult	Sch5	1,656
SE0789642071	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	terrestrial mammal	31/08/2002	Roost		Sch5	1,940
SE070400	Eastern Grey Squirrel	<i>Sciurus carolinensis</i>	terrestrial mammal	15/08/2012	field observation		Sch9_part1	316
SE079389	Grey Squirrel	<i>Sciurus carolinensis</i>	terrestrial mammal	28/04/2012	field observation		Sch9_part1	1,611
SE0514940907	Bats	<i>Vespertilionidae</i>	terrestrial mammal	29/06/2010	Roost (summer)	1 Count	Sch5	2,038
SE05164090	Bats	<i>Vespertilionidae</i>	terrestrial mammal	22/07/2010	Roost (summer)	1 Count	Sch5	2,025
SE056393	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	02/07/2002	Roost	90 Count of Adult	Sch5	1,799
SE05694079	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	06/06/2005	Grounded	1 Count of Adult	Sch5	1,489
SE06024145	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	25/04/2005	in building	1 Count of Adult	Sch5	1,575
SE0627141061	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	16/06/2005	in building	1 Count of Adult	Sch5	1,123

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE06354083	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	29/07/2005	field record	1 Count of Adult	Sch5	917
SE0665142192	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	13/06/2005	Roost		Sch5	1,943
SE0756441280	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	14/07/2003	Roost		Sch5	1,083
SE07684066	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	06/08/2004	Grounded	1 Count of Adult	Sch5	681

<u>Grid Reference</u>	<u>Common Name</u>	<u>Latin Name</u>	<u>Date</u>	<u>Designation</u>	<u>Distance from site centroid (m)</u>
SE070400	Common Frog	<i>Rana temporaria</i>	15/08/2012	Sch5_sect9.5b; WYBAP	316
SE071423	Common Frog	<i>Rana temporaria</i>	11/09/2012	Sch5_sect9.5b; WYBAP	1,999
SE058394	Dunnock	<i>Prunella modularis</i>	21/06/2011	BoCC:Amber; UKBAP; WYBAP	1,578
SE068406	House Sparrow	<i>Passer domesticus</i>	Mar-15	BoCC:Red; UKBAP; WYBAP	424
SE068406	Peregrine	<i>Falco peregrinus</i>	Jul-15	Sch1_part1; WYBAP	424
SE068406	Kestrel	<i>Falco tinnunculus</i>	Apr-16	BoCC:Amber; WYBAP	424
SE068406	Dunnock	<i>Prunella modularis</i>	Apr-16	BoCC:Amber; UKBAP; WYBAP	424
SE068406	Starling	<i>Sturnus vulgaris</i>	Apr-16	BoCC:Red; UKBAP; WYBAP	424
SE069409	Song Thrush	<i>Turdus philomelos</i>	03/06/2011	BoCC:Red; UKBAP; WYBAP	632
SE070400	Green Woodpecker	<i>Picus viridis</i>	15/08/2012	BoCC:Amber	316
SE070414	Peregrine	<i>Falco peregrinus</i>	2008	Sch1_part1; WYBAP	1,104
SE070414	Peregrine	<i>Falco peregrinus</i>	2009	Sch1_part1; WYBAP	1,104
SE070414	Peregrine	<i>Falco peregrinus</i>	2010	Sch1_part1; WYBAP	1,104
SE071423	Spotted Flycatcher	<i>Muscicapa striata</i>	2008	BoCC:Red; UKBAP; WYBAP	1,999
SE071423	Whitethroat	<i>Sylvia communis</i>	2008	BoCC:Amber	1,999
SE071423	Tree Sparrow	<i>Passer montanus</i>	01/10/2008	BoCC:Red; UKBAP; WYBAP	1,999
SE071423	Grasshopper Warbler	<i>Locustella naevia</i>	23/04/2008 - 13/05/2008	BoCC:Red; UKBAP; WYBAP	1,999
SE072387	Skylark	<i>Alauda arvensis</i>	28/04/2012	BoCC:Red; UKBAP; WYBAP	1,602
SE072387	Meadow Pipit	<i>Anthus pratensis</i>	28/04/2012	BoCC:Amber	1,602
SE072387	Linnet	<i>Carduelis cannabina</i>	28/04/2012	BoCC:Red; UKBAP; WYBAP	1,602
SE072387	Kestrel	<i>Falco tinnunculus</i>	28/04/2012	BoCC:Amber; WYBAP	1,602
SE072387	Curlew	<i>Numenius arquata</i>	28/04/2012	BoCC:Amber; UKBAP; WYBAP	1,602
SE072387	Willow Warbler	<i>Phylloscopus trochilus</i>	28/04/2012	BoCC:Amber	1,602
SE072387	Dunnock	<i>Prunella modularis</i>	28/04/2012	BoCC:Amber; UKBAP; WYBAP	1,602
SE072387	Song Thrush	<i>Turdus philomelos</i>	28/04/2012	BoCC:Red; UKBAP; WYBAP	1,602
SE072387	Skylark	<i>Alauda arvensis</i>	09/06/2012	BoCC:Red; UKBAP; WYBAP	1,602
SE072387	Meadow Pipit	<i>Anthus pratensis</i>	09/06/2012	BoCC:Amber	1,602
SE072387	Linnet	<i>Carduelis cannabina</i>	09/06/2012	BoCC:Red; UKBAP; WYBAP	1,602
SE072387	Cuckoo	<i>Cuculus canorus</i>	09/06/2012	BoCC:Red; UKBAP; WYBAP	1,602
SE072387	Swallow	<i>Hirundo rustica</i>	09/06/2012	BoCC:Amber; WYBAP	1,602
SE072387	Willow Warbler	<i>Phylloscopus trochilus</i>	09/06/2012	BoCC:Amber	1,602
SE076387	Skylark	<i>Alauda arvensis</i>	15/06/2011	BoCC:Red; UKBAP; WYBAP	1,675
SE076387	Meadow Pipit	<i>Anthus pratensis</i>	15/06/2011	BoCC:Amber	1,675
SE076387	Linnet	<i>Carduelis cannabina</i>	15/06/2011	BoCC:Red; UKBAP; WYBAP	1,675
SE076387	Kestrel	<i>Falco tinnunculus</i>	15/06/2011	BoCC:Amber; WYBAP	1,675
SE076387	Swallow	<i>Hirundo rustica</i>	15/06/2011	BoCC:Amber; WYBAP	1,675

SE076387	Willow Warbler	<i>Phylloscopus trochilus</i>	15/06/2011	BoCC:Amber	1,675
SE079389	Willow Warbler	<i>Phylloscopus trochilus</i>	28/04/2012	BoCC:Amber	1,611
SE0842	Swift	<i>Apus apus</i>	2008	BoCC:Amber; WYBAP	1,922
SE0889640846	Oystercatcher	<i>Haematopus ostralegus</i>	10/06/2013	BoCC:Amber	1,872
SE0903540492	Starling	<i>Sturnus vulgaris</i>	19/04/2013	BoCC:Red; UKBAP; WYBAP	1,939
SE090407	Yellow Wagtail	<i>Motacilla flava</i>	01/04/2008	BoCC:Red; UKBAP; WYBAP	1,936
SE090407	Whimbrel	<i>Numenius phaeopus</i>	13/06/2008	Sch1_part1; BoCC:Red	1,936
SE0907040595	Starling	<i>Sturnus vulgaris</i>	10/06/2013	BoCC:Red; UKBAP; WYBAP	1,986
SE0940	Yellow Wagtail	<i>Motacilla flava</i>	Autumn 2008	BoCC:Red; UKBAP; WYBAP	1,918
SE0645040980	European Eel	<i>Anguilla anguilla</i>	25/04/2006	UKBAP; WYBAP	939
SE05733938	Bluebell	<i>Hyacinthoides non-scripta</i>	21/06/2011	Sch8_sect 13.2; Bradford BAP	1,647
SE05823947	Wall Cotoneaster	<i>Cotoneaster horizontalis</i>	21/06/2011	Sch9_part2	1,522
SE05823947	Bluebell	<i>Hyacinthoides non-scripta</i>	21/06/2011	Sch8_sect 13.2; Bradford BAP	1,522
SE05823947	Rhododendron	<i>Rhododendron ponticum</i>	21/06/2011	Sch9_part2	1,522
SE059396	Indian Balsam	<i>Impatiens glandulifera</i>	20/06/2011	Sch9_part2	1,386
SE059396	Rhododendron	<i>Rhododendron ponticum</i>	20/06/2011	Sch9_part2	1,386
SE0598041910	Rhododendron	<i>Rhododendron ponticum</i>	19/06/2015	Sch9_part2	1,959
SE06033951	Bluebell	<i>Hyacinthoides non-scripta</i>	21/06/2011	Sch8_sect 13.2; Bradford BAP	1,327
SE06033951	Indian Balsam	<i>Impatiens glandulifera</i>	21/06/2011	Sch9_part2	1,327
SE06033951	Rhododendron	<i>Rhododendron ponticum</i>	21/06/2011	Sch9_part2	1,327
SE06163949	Bluebell	<i>Hyacinthoides non-scripta</i>	23/06/2012	Sch8_sect 13.2; Bradford BAP	1,239
SE06163951	Bluebell	<i>Hyacinthoides non-scripta</i>	23/06/2012	Sch8_sect 13.2; Bradford BAP	1,226
SE06173951	Bluebell	<i>Hyacinthoides non-scripta</i>	23/06/2012	Sch8_sect 13.2; Bradford BAP	1,218
SE0621039740	Japanese Knotweed	<i>Fallopia japonica</i>	10/10/2008	Sch9_part2	1,049
SE0621039740	Bluebell	<i>Hyacinthoides non-scripta</i>	10/10/2008	Sch8_sect 13.2; Bradford BAP	1,049
SE06974006	Rhododendron	<i>Rhododendron ponticum</i>	15/08/2012	Sch9_part2	273
SE07084094	Wall Cotoneaster	<i>Cotoneaster horizontalis</i>	03/06/2011	Sch9_part2	640
SE07084094	Bluebell	<i>Hyacinthoides non-scripta</i>	03/06/2011	Sch8_sect 13.2; Bradford BAP	640
SE07393852	Rhododendron	<i>Rhododendron ponticum</i>	15/06/2011	Sch9_part2	1,802
SE07523881	Rhododendron	<i>Rhododendron ponticum</i>	15/06/2011	Sch9_part2	1,547
SE07633876	Rhododendron	<i>Rhododendron ponticum</i>	15/06/2011	Sch9_part2	1,628
SE07753901	Indian Balsam	<i>Impatiens glandulifera</i>	28/04/2012	Sch9_part2	1,443
SE08013888	Bluebell	<i>Hyacinthoides non-scripta</i>	28/04/2012	Sch8_sect 13.2; Bradford BAP	1,685
SE08013888	Rhododendron	<i>Rhododendron ponticum</i>	28/04/2012	Sch9_part2	1,685
SE080388	Montbretia	<i>Crocsmia x crocosmiiflora</i>	2004	Sch9_part2	1,747
SE080388	Bluebell	<i>Hyacinthoides non-scripta</i>	2004	Sch8_sect 13.2; Bradford BAP	1,747
SE080388	Indian Balsam	<i>Impatiens glandulifera</i>	2004	Sch9_part2	1,747
SE080388	Rhododendron	<i>Rhododendron ponticum</i>	2004	Sch9_part2	1,747
SE08734036	Bluebell	<i>Hyacinthoides non-scripta</i>	29/05/2012	Sch8_sect 13.2; Bradford BAP	1,627

SE087406	Bluebell	<i>Hyacinthoides non-scripta</i>	16/09/2002	Sch8_sect 13.2; Bradford BAP	1,623
SE08833977	Indian Balsam	<i>Impatiens glandulifera</i>	18/07/2012	Sch9_part2	1,805
SE08833977	Rhododendron	<i>Rhododendron ponticum</i>	18/07/2012	Sch9_part2	1,805
SE090407	Adder	<i>Vipera berus</i>	01/07/2010	Sch5_sect9.5b; UKBAP; WYBAP	1,936
SE070400	Eastern Grey Squirrel	<i>Sciurus carolinensis</i>	15/08/2012	Sch9_part1	316
SE07434041	Whiskered Bat	<i>Myotis mystacinus</i>	19/08/2005	Sch5; WYBAP	347
SE0683640618	Leisler's Bat	<i>Nyctalus leisleri</i>	12/09/2015	Sch5; WYBAP	413
SE0683640618	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	12/09/2015	Sch5; WYBAP; Bradford BAP	413
SE06634031	Pipistrellus	<i>Pipistrellus</i>	27/06/2005	Sch5	469
SE07684066	Vesper Bat species	<i>Vespertilionidae</i>	06/08/2004	Sch5	681
SE06354083	Vesper Bat species	<i>Vespertilionidae</i>	29/07/2005	Sch5	917
SE0756441280	Vesper Bat species	<i>Vespertilionidae</i>	14/07/2003	Sch5	1,083
SE0700741411	Pipistrelle	<i>Pipistrellus pipistrellus</i>	11/08/2015	Sch5; WYBAP; Bradford BAP	1,114
SE0700741411	Pipistrelle	<i>Pipistrellus pipistrellus</i>	11/08/2015	Sch5; WYBAP; Bradford BAP	1,114
SE0627141061	Vesper Bat species	<i>Vespertilionidae</i>	16/06/2005	Sch5	1,123
SE0627141061	Pipistrellus	<i>Pipistrellus</i>	01/09/2005	Sch5	1,123
SE066414	West European Hedgehog	<i>Erinaceus europaeus</i>	04/07/2014	UKBAP; WYBAP	1,207
SE0610041100	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	21/07/2007	Sch5	1,278
SE06144124	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	17/09/2004	Sch5	1,341
SE0602241270	Daubenton's Bat	<i>Myotis daubentonii</i>	09/05/2007	Sch5; WYBAP	1,448
SE05654007	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	28/06/2007	Sch5	1,464
SE05694079	Vesper Bat species	<i>Vespertilionidae</i>	06/06/2005	Sch5	1,489
SE06084141	Pipistrelle	<i>Pipistrellus pipistrellus</i>	12/07/2011	Sch5; WYBAP; Bradford BAP	1,505
SE0560440014	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	09/07/2002	Sch5; WYBAP; Bradford BAP	1,519
SE06024145	Vesper Bat species	<i>Vespertilionidae</i>	25/04/2005	Sch5	1,575
SE079389	Grey Squirrel	<i>Sciurus carolinensis</i>	28/04/2012	Sch9_part1	1,611
SE0619541689	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	15/12/2006	Sch5	1,656
SE056393	Vesper Bat species	<i>Vespertilionidae</i>	02/07/2002	Sch5	1,799
SE0789642071	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	31/08/2002	Sch5	1,940
SE0665142192	Vesper Bat species	<i>Vespertilionidae</i>	13/06/2005	Sch5	1,943