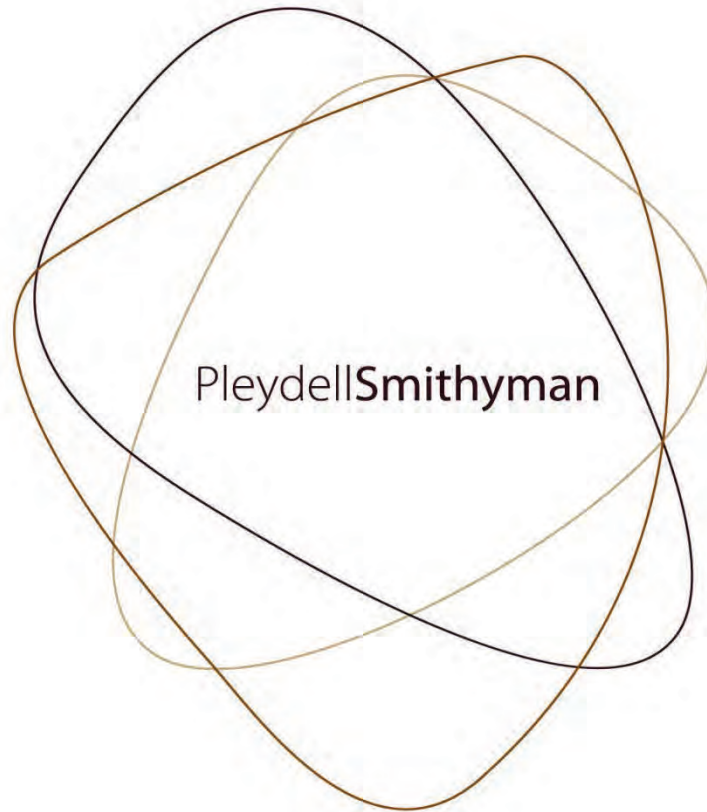


## **Appendix 1 – Preliminary Ecological Appraisal**



**PRELIMINARY ECOLOGICAL APPRAISAL  
RELATING TO LAND AT LEA CASTLE FARM, WOLVERLEY, KIDDERMINSTER  
APPLICATION FOR PLANNING PERMISSION  
FOR NRS AGGREGATES LTD.**

**APRIL 2019**

**PSL Report Reference Number: M16.176(a)R.005**

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**CONFIDENTIAL INFORMATION IS APPENDED TO THIS REPORT AND THEREFORE  
IN THE INTERESTS OF WILDLIFE CONSERVATION  
IT SHOULD NOT BE RELEASED INTO THE PUBLIC DOMAIN**

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**PRELIMINARY ECOLOGICAL APPRAISAL OF LAND AT LEA CASTLE FARM, WOLVERLEY**

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**Report Prepared for  
NRS Aggregates,  
White Gate Farm  
Mythe Lane  
Witherley  
Atherstone  
Warwickshire  
CV9 3NU**

**PRELIMINARY ECOLOGICAL APPRAISAL  
ON LAND AT LEA CASTLE FARM,  
WOLVERLEY ROAD,  
WOLVERLEY,  
KIDDERMINSTER,  
DY10 3QD**

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By:  
Pleydell Smithyman Limited  
April 2019

**Issued By**



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## PRELIMINARY ECOLOGICAL APPRAISAL OF LAND AT LEA CASTLE FARM, WOLVERLEY

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### **Drawings**

- M16.176(a).D.006 Preliminary Ecological Appraisal
- M16.176(a).D.020 Harvest Mouse Refugia Locations

### **Appendices**

- Appendix 1 - Information obtained from Worcestershire Biological Records Centre
- Appendix 2 - Target Notes
- Appendix 3 - Photographs
- Appendix 4 - Wildlife Legislation
- Appendix 5 - Biodiversity Legislation
- Appendix 6 - Confidential Annex

## **1.0 INTRODUCTION**

### **Background and Proposals**

- 1.1 Pleydell Smithyman Limited (PSL) was instructed by NRS Aggregates Ltd via Robin Smithyman of Kedd Limited to undertake a Preliminary Ecological Appraisal of land at Lea Castle Farm, Wolverley, Kidderminster (hereafter referred to as the site). Please see Drawing Number: M16.176(a).D.006: Preliminary Ecological Appraisal, for a plan of the site.
- 1.2 The survey was required to inform the preparation and submission of a planning application for the phased extraction of mineral and subsequent restoration of the site to include agricultural land, woodland, acid grassland and parkland and avenue trees.

### **Site Location**

- 1.3 The site is located on land to the north of Wolverley Road, Wolverley, Kidderminster. The site is located approximately 2.3km to the north-east of the centre of Kidderminster, Worcestershire. The site is centred at grid reference SO 840790.

### **Site Description**

- 1.4 The site comprises approximately 45ha of arable farmland with semi-improved and improved grass headlands. A hardstanding track separates the site from south to north that is delineated by standards of beech (*Fagus sylvatica*) and lime (*Tilia* sp.). The field boundaries of the site include post and wire fencing, hedgerows containing native species, woodland edge and estate boundary brick wall. Occasional standard trees were present within the fields, including pedunculate oak (*Quercus robur*), sweet chestnut (*Castanea sativa*) and non-native conifers.
- 1.5 The surrounding area includes the River Stour approximately 100m to the north-west of the site, as well as extensive arable land to the north, east and west and blocks of broadleaved woodland to the north, west and south. Wolverley lies 1km to the west of the site and Cookley lies 800m to the north.

### **Aims and Objectives of the Survey**

- 1.6 The key objective of the preliminary ecological appraisal was to classify the habitats present on the site according to the Phase 1 habitat survey methodology and establish the potential of the site to support protected and notable species, of which account must be taken prior to and during the planned works in accordance with the wildlife and Countryside Act 1981 (as amended), the Conservation of Habitats and Species

Regulations 2017 and the Protection of Badgers Act 1992 (details of wildlife legislation are provided in Appendix 4).

- 1.7 Where necessary, further (phase 2) detailed surveys are recommended to safeguard any existing ecological interests within the site and opportunities for mitigation or enhancement are proposed with reference to current legislation and guidance.
- 1.8 The preliminary ecological appraisal also aims to identify key constraints of the project and make recommendations for design options where appropriate.
- 1.9 The site visit also focussed on assessing the potential of the site to support populations of priority species, whose protection and recovery is promoted under British or International legislation as stated below.

### **Biodiversity Legislation**

- 1.10 Details of National and International Biodiversity Legislation are found in Appendix 5.
- 1.11 The Habitat Regulations 2017 are the principal means by which Council Directive 92/43/EEC on the Conservation of Natural Habitats of Wild Fauna and Flora (the "Habitats Directive") is transposed in England and Wales and the adjacent territorial seas. They also transpose elements of the EU Wild Birds Directive in England and Wales.
- 1.12 The 'UK Post-2010 Biodiversity Framework' (JNCC & DEFRA, 2012) sets out a framework of priorities for UK-level work for the Convention on Biological Diversity. This framework replaces the original UK Biodiversity Action Plan (UK BAP, 2004). England, Scotland, Northern Ireland and Wales have individual plans to protect and reverse the declines of more widespread species and habitats that (in England) are covered by Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 which states: "Every public authority must, in exercising its functions, have regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity". Local Biodiversity Action Plans (LBAPs) are still in place under this framework to manage and conserve species and habitats of priority at a local level.
- 1.13 Furthermore, the survey assessment recommendations are guided by the National Planning Policy Framework (NPPF) produced in July 2018, where the policies in paragraphs 15 to 217, taken as a whole, constitute the government's view of what sustainable development in England means in practice for the planning system.

## **2.0 SURVEY METHODOLOGY**

2.1 Site surveys were made over an extended period due to modifications of design plans and boundary extensions. The initial extended Phase 1 habitat survey was undertaken on the 28 January 2016 by Nick Staples and on the 17 October 2016 by Nick Staples and Steven Pagett then on the 27 June 2018 by Kelly Hopkins BSc (Hons) ACIEEM and Nick Staples B.Sc., (Hons) M.Sc., DIC, CBiol, MRSB of Pleydell Smithyman Limited. A further update survey was completed on the 5 February 2019 by Nick Staples to conduct a transect survey to record birds and to re-inspect for evidence of badger (*Meles meles*). Site boundary modifications have increased the survey area from 40 to 47.9ha. This survey report details the results of the survey completed in June 2018 and is supplemented by additional site visits as detailed above.

2.2 The preliminary ecological appraisal was completed following the guidance produced by CIEEM entitled 'Guidelines for Preliminary Ecological Appraisals' (CIEEM, 2017) and by BS42020:2013 Biodiversity: Code of Practice for Planning and Development. The survey methodology used can be split into three main areas: a desk study, Phase 1 habitat survey and a protected species assessment. These are discussed in more detail below.

### **Desk Study**

2.3 In order to obtain information on sites of nature conservation interest in the area, the Multi-Agency Geographical Information for the Countryside (MAGIC) website was searched for ecological statutory and non-statutory designated sites and ancient woodland within a 3km radius around the central point of the site. A 3km search radius was conducted from the central point of the site to ensure that a 2km radius from the boundaries of the site was covered.

2.4 In addition, Worcestershire Biological Records Centre (WBRC) was commissioned to undertake a data search for all protected and notable species and all sites of conservation importance within 3km of central grid reference SO834789. For relevant information please see Appendix 1.

2.5 Reference was also made to Ordnance Survey maps and aerial photography, which were used to determine the presence of open water and ponds in the area and to provide information on land use and habitat connectivity throughout the area.

### **Phase 1 Habitat Survey**

- 2.6 The Phase 1 habitat survey of the site was carried out in order to assess the current ecological importance of the land contained within the boundaries of the site. This involved identifying the main habitats and associated botanical species present at the time of the survey.
- 2.7 The site was surveyed using the Phase 1 Habitat Survey methodology outlined in 'The Handbook for Phase 1 Habitat Survey: A Technique for Environmental Audit' (JNCC, 2010). This involves identifying the species present within each habitat and classifying the habitat types accordingly, following the Phase 1 habitat survey methodology. This technique provides an inventory of the broad habitat types present and enables areas of greater botanical interest which may require further, more detailed, surveys to be identified.
- 2.8 Habitats are mapped (Drawing Number: M16.176(a).D.006: Preliminary Ecological Appraisal) and 'target notes' are made, where relevant, to describe characteristic habitats, features of ecological interest, or any other features which may present a potential constraint to the proposed development (see Appendix 2).
- 2.9 Whilst not a comprehensive protected species or botanical survey, the extended Phase 1 method enables a suitably experienced ecologist to undertake a baseline ecological appraisal of the site that:
- provides a preliminary evaluation of the nature conservation importance of the site and survey area and assess the potential for impacts on habitats/species likely to represent a material consideration in planning terms; and,
  - determines the scope of further specialised surveys that may be required.
- 2.10 Higher plant species nomenclature follows that provided in Stace (2010) for vascular plants and Atherton, Bosanquet and Lawley (2010) for bryophytes.

### **Protected Species Assessment**

- 2.11 General faunal activity, such as birds or mammals observed or noted by call or, evidence of a species' activity such as prints, droppings, burrows or similar, was also recorded with specific attention paid to the potential presence of any protected, rare and notable species, including species listed on local or national BAP lists. This involved assessing the suitability of the habitats present on the site for these species as well as the connectivity of the site to other areas of potentially suitable habitat nearby.



In addition, specific survey work was undertaken for badger, bats, harvest mouse (*Micromys minutus*) and great crested newt (*Triturus cristatus*) and is outlined below.

Badger

- 2.12 The badger survey comprises two main elements. Firstly, the site and approximately 50m from the boundaries (where access is allowed) is searched thoroughly for evidence of badger setts. For any setts that may be encountered, each sett entrance would be noted and plotted even if the entrance appears disused.
- 2.13 Secondly, evidence of badger activity, such as well-worn runs and push throughs, snagged guard hair, footprints, latrines, dung pits, loose droppings and foraging signs, would be recorded so as to build up a picture of the use of the site by badgers.

Bats

- 2.14 All trees within the site that were anticipated to be impacted by the development were assessed from the ground for potential features that may be used by bats for roosting (e.g. splits, cracks, rot holes or lifted bark) along with any direct evidence of bats (e.g. droppings and urine staining). The potential for the trees to support bat roosts was ranked in accordance with the criteria set out in the Bat Conservation Trust's 'Bat Surveys for Professional Ecologist: Good Survey Guidelines' (Collins, 2016):
- Negligible Suitability – Negligible habitat features on site likely to be used by roosting bats.
  - Low Suitability – A structure with one or more potential roost sites that could be used by individual bats opportunistically. However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions, and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of bats (i.e. unlikely to be suitable for maternity or hibernation). A tree of sufficient size and age to contain PRF's (Potential Roosting Features) but with none seen from the ground or features seen with only very limited roosting potential.
  - Moderate Suitability – A structure or tree with one or more potential roost sites that could be used by bats due to their size, shelter, protection, conditions and surrounding habitat but unlikely to support a roost of high conservation status (with respect to roost type only – the assessments are made irrespective of species conservation status, which is established after presence is confirmed).

- High Suitability – A structure or tree with one or more potential roost sites that are obviously suitable for use by a large number of bats on a more regular basis and potentially for longer periods of time due to their size, shelter, protection, conditions and surrounding habitat.

Great crested newt

- 2.15 A Habitat Suitability Index (HSI) assessment is usually undertaken on all waterbodies on the site and within 500m of the boundary of a proposed development site (on the near side of major dispersal barriers and where access permission is granted). This assessment is undertaken in order to establish the likelihood of great crested newt either breeding on the site or dispersing to the site during their terrestrial phase.
- 2.16 The HSI is a standard assessment method developed specifically to evaluate the habitat suitability for this species. A series of factors must be considered. Each factor is assessed along suitability guidelines and allocated a value of between 0.01 (highly unsuitable) to 1.0 (highly suitable). The geometric mean of these values provides an overall suitability score for each waterbody. Although this is no substitute for a dedicated survey, it does give an indication of whether such a survey is required.

Additional Surveys

- 2.17 To provide additional information on potential species recorded on the site, a number of additional surveys were completed and are reported within this PEA report. It should be noted that these additional surveys detailed below are outside the normal scope of a PEA report and have been reported within this report due to the time between commissioning and submission of the planning application.

Harvest mouse

- 2.18 To inspect for evidence of harvest mice on the site, 20 artificial nest sites were placed around the site in suitable locations along hedgerows. These artificial nest sites comprised a tennis ball with a small entrance hole drilled into it attached to a bamboo cane. The cane was then inserted into the ground. These artificial nest sites have been proven to be used by harvest mice and are an effective survey tool. The artificial nest sites were placed on site on the 25 July 2018, and were checked three times throughout August and September 2018. Whilst on site completing other surveys, checks were frequently made of the suitable habitat on site for any evidence of natural harvest mice nests. Please see Drawing M16.176(a).D.020 Harvest Mouse Refugia Locations for a plan of the location of the artificial nest sites.

Wintering birds

- 2.19 During February 2019, a survey of the site was completed to record the bird activity at this time of the year. A simple transect was followed around the site, and the surveyor recorded all birds heard and seen whilst following this transect. Records were also made of any bird species observed on land adjacent to the survey area or flying over the site. Birds in this category would not be included in the assessment, unless it was obvious that they were moving between different parts of the survey area.

Evaluation

- 2.20 The site's ecological importance has been evaluated broadly following guidance issued by CIEEM in 2018, which ranks the nature conservation importance of a site according to a geographic scale of reference: international; national; regional, metropolitan, county, vice county or other local authority-wide area; local (district, borough or parish); and of importance at the zone of influence of the site only. In evaluating the nature conservation importance of the site, the following factors were considered: nature conservation designations; species/habitat rarity; naturalness; fragility and connectivity to other habitats. Ecological impacts are also assessed in line with CIEEM (2018) only where clear evidence is available to substantiate and justify the findings. In the absence of such evidence, the ecological feature is merely identified as a potential constraint to development.
- 2.21 Where ecological constraints to development are identified, further survey requirements and/or avoidance, mitigation, compensation measures that are proportionate to the predicted degree of risk to biodiversity and to the nature and scale of the proposed development are described.

**Survey Constraints and Limitations**

- 2.22 Species that may be present on the site would not necessarily be detectable during the survey assessment, since different species are apparent during different seasons and detailed species-specific survey work is often required to identify the presence or likely absence of particular species or species groups. However, the extended Phase 1 habitat survey is considered to provide a robust assessment of the likelihood of various protected species to be present and to subsequently identify the need for further, more detailed, surveys to be undertaken at the correct time of year.
- 2.23 Extended Phase 1 habitat surveys can be undertaken at any time of the year; with the optimum time of year for these surveys to be undertaken being between April and mid

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## PRELIMINARY ECOLOGICAL APPRAISAL OF LAND AT LEA CASTLE FARM, WOLVERLEY

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July (inclusive) to enable the majority of botanical species to be detected. Four surveys were conducted including one within this period, spanning autumn, winter and summer with, additional notes taken during breeding bird, reptile, badger and bat roost and activity surveys. It is therefore considered that the survey events encompassed the majority of likely species and habitats present and that there were no constraints to the survey.

### 3.0 **RESULTS**

#### **Desk Study**

##### Ecological Statutory Designations

- 3.1 The MAGIC search returned no statutory designated sites on the site. Seven statutory designated sites were returned within 3km of the centre of the site.
- 3.2 Hurcott and Podmore Pools Site of Special Scientific Interest (SSSI) is located approximately 670m to the south of the site. It is approximately 21.65 hectares in size and is notified due to its pools with rich riparian vegetation zones and woodland. The site is an important wetland complex, containing the largest area of wet valley alder carr in the county.
- 3.3 Hurcott Pasture SSSI is situated approximately 680m to the south of the site. It is approximately 4.69 hectares and is comprised of semi-natural acidic and neutral grassland. It is of a type that is nationally scarce with a number of locally uncommon or rare species including field mouse-ear (*Cerastium arvense*), little mouse-ear (*C. semidecandrum*), spring vetch (*Vicia lethyroides*) and sand spurrey (*Spergularia rubra*).
- 3.4 Stourvale Marsh SSSI is situated 800m to the south-west of the site and is 9.28 hectares in size. The site is notified due to its wetland habitats including damp grassland, tall fen, tall rank vegetation and carr woodland. A number of less common plants are found on the site including narrow-leaved water parsnip (*Berula erecta*), southern marsh orchid (*Dactylorhiza praetermissa*) hemp agrimony (*Eupatorium cannabinum*) and great water dock (*Rumex hydrolapathum*). Reed bunting (*Emberiza schoeniclus*) and sedge warbler (*Acrocephalus schoenobaenus*) breed on the site. The site is also important for insects including the dragonfly, brown aeshna (*Aeshna grandis*), which is an uncommon species in the county.
- 3.5 Puxton Marshes SSSI is located approximately 920m to the south-west of the site and is 13 hectares in size. The site is notified due to its large area of unimproved marshy grassland with associated damp woodland and open water. It is one of the largest and most important areas of marshland remaining in the county and is a remnant of more extensive marshland once present in the Stour Valley. The marsh is noted for its variety of plants, of which 110 species have been recorded. The site attracts many birds and is particularly important for breeding snipe (*Gallinago gallinago*). Other species which breed on the site include willow tit (*Poecile montanus*) and reed bunting.

- 3.6 Hurcott Wood Local Nature Reserve (LNR) is located approximately 620m to the south-east of the site and is 37.2 hectares in size. The site includes two pools with adjoining woodland of wet valley alder carr which is the largest in Worcestershire. The open water and woodland is good habitat for birds with 30 species breeding on site including great crested grebe (*Podiceps cristatus*), little grebe (*Tachybaptus ruficollis*), kingfisher (*Alcedo atthis*) and reed warbler (*Acrocephalus scirpaceus*). Plants include yellow water-lily, (*Nuphar lutea*) in the pool.
- 3.7 King Forest Park LNR is located approximately 1.9km to the north-west of the site and is 80.76 hectares in size. The site supports habitats including heathland, sandy tracks, pine forests and broad-leaved woodland.
- 3.8 Blake Marsh LNR is located approximately 2.3km to the south-west of the site and is 4.36 hectares in size. The site supports marshland with a rare flora that includes the southern marsh orchid. The site is surrounded by areas of woodland at different stages of development and is used as an important site for environmental education for 5 local schools.
- 3.9 The site is covered by a SSSI impact risk zone that is put in place to highlight nearby SSSI that may be impacted by the proposals. The SSSI Impact Risk Zones are in place to protect Stourvale Marsh SSSI, Hurcott and Podmore Pools SSSI and Hurcott Pasture SSSI. These impact risk zones state that where planning applications for quarries are to be submitted, the Local Planning Authority (LPA) should consult Natural England on the likely risks.

#### Ecological Non-Statutory Designations

- 3.10 WBRC returned fourteen Local Wildlife Sites (LWS) within a 3km radius of the data search central grid reference. These were:
- Staffordshire and Worcestershire Canal – approximately 160m to the north-west at its closest point;
  - River Stour – approximately 190m to the north-west at its closest point;
  - Gloucester Coppice – approximately 320m to the north-west of the site;
  - Wolverley Court Lock Carr – approximately 550m to the south-west of the site;
  - Wolverley Marsh – approximately 590m to the west of the site;
  - Hurcott and Podmore Pools (Pastures) – approximately 640m to the south of the site;
  - Puxton Marsh – approximately 760m to the south-west of the site;

- The Island Pool – approximately 1.4km to the north-east of the site;
- Caunsall Marsh – approximately 1.8km to the north-east of the site;
- Kingsford Heath – approximately 2 km to the west of the site;
- Honeytop Farm Pastures – approximately 2.3km to the west of the site;
- Easthams Coppice – approximately 2.4km to the west of the site;
- Cornhill Coppice – approximately 2.7km to the west of the site; and
- Parkatt Wood and Honeybottom – approximately 2.9km to the west of the site.

- 3.11 A summary of these non-statutory sites is provided below, however please refer to Appendix 1 for the full details.
- 3.12 Staffordshire and Worcestershire Canal LWS covers a total of 14.7km and consists of open standing water with marshland and woodland. Otters (*Lutra lutra*), kingfisher and bats are known to use the canal.
- 3.13 The River Stour LWS covers a total of 18.75km and consists of the national BAP habitat rivers and streams as well as marshland and grassland. Otter and kingfisher are known to use the river and there are historical records for water vole (*Arvicola amphibius*) and club-tailed dragonfly (*Gomphus vulgatissimus*).
- 3.14 Gloucester Coppice LWS covers 12.53 hectares and comprises grassland and broadleaved woodland. This site includes three notable Worcestershire vascular plant species: common calamint (*Clinopodium ascendens*), fiddle dock (*Rumex pulcher*) and wild clary (*Salvia verbenacea*). Other important plants were recorded and are detailed in full in the citations in Appendix 1.
- 3.15 Wolverley Court Lock Carr LWS covers approximately 5.24 hectares and comprises wet woodland, broadleaved woodland, marsh and swamp. At least 50 species of vascular plant have been recorded in the recent past from the wetland parts of the site including notable Worcestershire vascular plant species. Faunal records include wintering snipe, breeding sedge warbler and reed bunting. There are also historical records of water vole for the site.
- 3.16 Wolverley Marsh LWS covers a total of 1.84 hectares and includes marsh/mire and swamp. There is also a core area of swamp on deep silt, fragments of carr-woodland – willow and alder and scrub. There is also an associated area of marshy pastureland. Approximately 70 species of vascular plant have been recorded in the recent past from the wetland parts of the site, including notable Worcestershire vascular plants. Faunal

records include wintering snipe and breeding sedge warbler and reed bunting. There are past records for three nationally scarce coleopterans – *Mantura rustica*, a flea beetle, *Bagous lutulentus* and *Magdalis cerasi*.

- 3.17 Hurcott and Podmore Pools LWS covers a total area of 6.87 hectares and comprises grassland and broadleaved/wet woodland including a number of recent records of Worcestershire notable plants. Faunal records include small skipper (*Thymelicus sylvestris*), large skipper (*Ochlodes sylvanus*), small copper (*Lycaena phlaeas*), ringlet (*Aphantopus hyperantus*), speckled wood (*Pararge aegeria*), marbled white (*Melanargia galathea*), meadow brown (*Maniola jurtina*), drinker moth (*Euthris potatoria*), common toad (*Bufo bufo*), grass snake (*Natrix (natrix) helveticus*) and hornet robber-fly, (*Asilus crabroniformis*).
- 3.18 Puxton Marsh LWS covers a total area of 8.89 hectares and consists of marsh, swamp, wet woodland, wet grassland and unimproved acid grassland. At least 90 species of vascular plant have been recorded including notable Worcestershire vascular plants. Faunal records include hornet robber-fly, wintering snipe, breeding sedge warbler and reed bunting.
- 3.19 The Island Pool LWS, 3.54 hectares; broad-leaved and wet woodland with open water and swamp/marsh with the main feature of botanical interest, a seral stage swamp of lesser pond sedge (*Carex acutiformis*) and, a small area of greater tussock-sedge (*C. paniculata*) swamp. Notable Worcestershire plants include greater tussock-sedge and wood club-rush, (*Scirpus sylvaticus*).
- 3.20 Caunsall Marsh LWS, 6.63 hectares of wet woodland comprising a network of drains ditches and springs that cross pasture-land, and there are fragments of alder and willow woodland. A number of Worcestershire notable plants are present.
- 3.21 Kingsford Heath LWS, 28.79 hectares of remnant heathland Calluna and NVC U2 wavy-hair grass (*Deschampsia flexuosa*) amongst birch coppice and a remnant of H9 open heath. The crown of Drakelow Hill supports oak/birch woodland with bracken, and wavy hair grass ground layer. Knotted clover (*Trifolium striatum*) and prickly sedge (*Carex spicata*) comprise some of the rarer heathland plants and the site is also home to the scrub/woodland notable species; navelwort (*Hieracium umbellatum*) and white mullein (*Verbascum lychnitis*). A number of bat species use the Drakelow tunnels as a hibernation site and grass snake and slow-worm (*Anguis fragilis*), are present with local reports of adder (*Vipera berus*) as well.



- 3.22 Honeytop Farm Pastures LWS, 2.98 hectares unimproved acid grassland with calcareous elements. Two rare species are present: cypress spurge (*Euphorbia cyperissias*) and subterranean clover (*Trifolium subterraneum*) as well as some locally notable species. This is known to be a breeding site for the Hornet Robber Fly, a nationally scarce BAP species. A number of solitary sand wasp and bee species also occur.
- 3.23 Easthams Coppice LWS, a 21.45 hectares partly semi-natural ancient woodland of at least three NVC classifications and a neutral/acid grassland site supporting notable grassland plants including common fleabane (*Pulicaria dysenterica*), dyer's greenweed (*Genista tinctoria*), lousewort (*Pedicularis sylvatica*), and wild thyme (*Thymus polytrichus*). The hornet robber-fly breeds on horse grazed pasture and is a national BAP species.
- 3.24 Cornhill Coppice LWS, 30.55 hectares of ancient semi-natural secondary woodland and plantations of various non-native species. The underlying geology is of sandstones and pebble beds. The wood is dominated by oak, ash (*Fraxinus excelsior*) and birch with some small plantations of exotics. Some of the secondary woodland is more open with glades with broom (*Cytisus scoparius*) and gorse (*Ulex europaeus*) scrub.
- 3.25 Parkatt Wood and Honeybottom LWS, 47.38 hectares of woodland and grassland along the Honey Brook valley north-west of Kidderminster. Some of the woodland is Ancient Semi-Natural Woodland (ASNW). Varied geology has influenced the woodland communities that have developed on the site which is predominantly woodland, both ASNW and secondary woodland. Canopy species include pedunculate oak, ash, silver birch, (*Betula pendula*) and sweet chestnut. The richest areas of ground-flora occur where good levels of light are able to penetrate the canopy and include species such as dog's mercury, (*Mercurialis perennis*), bluebell, (*Hyacinthoides non-scripta*), and male fern, (*Dryopteris filix-mas*). Bordering the woodland to the west and south-east are areas of scrub and acid grassland.
- 3.26 One Worcestershire Wildlife Trust Reserve was returned from the data search. This was Bishops Field that is situated approximately 615m to the west of the site. This comprises wetland habitat with peaty soils and a host of wetland flora including southern marsh orchid and greater tussock sedge.

3.27 WBRC also returned a number of areas listed on Worcestershire Grassland Inventory. None of these were specific to the site, with the closest approximately 195m to the north-west of the site on the far side of the River Stour.

3.28 Thirty one records of ancient trees were returned from the data search. These included ash, beech, black poplar (*Populus nigra*), pedunculate oak and silver birch. None of these records were specific to the site. The closest of these ancient trees was approximately 690m to the south-west of the site.

Ancient Woodland and Habitats of Principal Importance

3.29 There were six areas of ancient woodland within 3km of the central point of the site, none of which were on or adjacent to the site. These were:

- Gloucester Coppice, ancient and semi-natural woodland, approximately 8.01 hectares in size, located 280m to the north-west;
- Axborough Wood ancient replanted woodland, approximately 3.65 hectares in size, located 990m to the east;
- Cookley Wood ancient and semi-natural woodland, approximately 1.64 hectares in size, located 1.1km to the north;
- An unnamed ancient and semi-natural woodland, approximately 4.94 hectares in size, located 1.3km to the north-west;
- An unnamed ancient replanted woodland, approximately 3.77 hectares in size, located 1.4km to the north-west; and
- Hollies Wood ancient and semi-natural woodland, approximately 2.03 hectares in size, located 2.4km to the south-west.

3.30 A large amount of priority habitats was returned from the data search. This included coastal and floodplain grazing marsh, good quality semi-improved grassland, lowland dry acid grassland, lowland meadows, lowland heathland, lowland fens, deciduous woodland, coniferous woodland, traditional orchard and wood-pasture and parkland. The closest of this habitat is the deciduous woodland which borders the northern, western and part of the southern boundary. Extensive blocks of this habitat are present in the wider landscape.

**Phase 1 Habitat Survey**

3.31 The following habitats/ecological features were identified within the site and classified according to the system prescribed in the JNCC 'Handbook for Phase 1 Habitat Survey' (2010):

- Semi-improved neutral grassland;
- Improved grassland;
- Tall ruderal;
- Arable;
- Defunct hedgerow;
- Standard trees; and
- Hardstanding.

- 3.32 The location of these habitat types and features are represented on Drawing Number: M16.176(a).D.006: Preliminary Ecological Appraisal and described in detail below. Please see Appendix 3 for photographs of the site.
- 3.33 WBRC returned a large number of floral records from the data search. One of these was specific to the site, this was a hornbeam, (*Carpinus betulus*), recorded on the roadside verge on the eastern boundary of the site in 1992. All records were dated between 1990 and 2007.

Semi-improved neutral grassland:

- 3.34 Semi-improved neutral grassland was recorded along the edges of the arable field on the western part of the site. The sward length was between 20-40cm and dense in places as there is no active grazing taking place. Grass species recorded included perennial rye-grass, (*Lolium perenne*), cock's-foot (*Dactylis glomerata*), Yorkshire fog (*Holcus lanatus*) and red fescue (*Festuca rubra*).
- 3.35 Herb species recorded included common mouse-ear (*Cerastium fontanum*), white clover (*Trifolium repens*), red clover (*T. pratense*), herb Robert (*Geranium robertianum*), dove's-foot crane's-bill (*Geranium molle*), cut-leaved crane's-bill (*G. dissectum*), hedgerow crane's-bill (*G. pyrenaicum*), small-flowered crane's-bill (*G. pusillum*), creeping buttercup (*Ranunculus repens*), dock (*Rumex* sp.), common sorrel (*R. acetosa*), ribwort plantain (*Plantago lanceolata*), greater plantain (*Plantago major*), ground ivy (*Glechoma hederacea*), cleavers (*Galium aparine*), common dandelion (*Taraxacum officinale*), pineappleweed (*Matricaria discoidea*), mayweed (*Matricaria* sp.), common vetch (*Vicia sativa*), hairy tare (*V. hirsuta*), dame's violet (*Hesperis matronalis*), field pansy (*Viola arvensis*), common field-speedwell (*Veronica persica*), selfheal (*Prunella vulgaris*), perforate St. John's-wort (*Hypericum perforatum*), redshank (*Persicaria maculosa*), black nightshade (*Solanum nigrum*), common toadflax (*Linaria vulgaris*), white campion (*Silene latifolia*), red campion (*Silene dioica*), creeping thistle (*Cirsium arvense*), spear

thistle (*C. vulgare*), hogweed (*Heracleum sphondylium*), upright hedge parsley (*Torilis japonica*), hemp-agrimony (*Eupatorium cannabinum*), charlock (*Sinapis arvensis*), green alkanet (*Pentaglottis sempervirens*), mugwort (*Artemisia vulgaris*), groundsel (*Senecio vulgaris*), ragwort (*Jacobaea vulgaris*), great mullein (*Verbascum thapsus*), evening primrose (*Oenothera* agg.), willowherb (*Epilobium* sp.), white dead-nettle (*Lamium album*) and common nettle (*Urtica dioica*). Scattered patches of bramble scrub are also present along the edges of these areas of grassland.

- 3.36 In the north-western corner of the site there is an area that is used as a motorcycling track that has raised areas of soil bunds (TN1). Where the ground is not bare, the habitat comprises semi-improved neutral grassland.

Improved grassland

- 3.37 One improved grassland field was present on the eastern part of the site that was intensively grazed by horses. This field was fenced off with electric fencing and is grazed for most of the year. The grassland was dominated by perennial rye-grass and sward length was approximately 7cm.

Tall ruderal

- 3.38 One area of tall ruderal is present to the east of the track that runs through the centre of the site (TN14). This area has nettle, bramble, hogweed, creeping thistle, spear thistle, cock's-foot and Yorkshire fog. This area has patches of bare ground and is frequently in use by the farmer for storing materials, machinery and stock piling soil.
- 3.39 The edges of the hardstanding track have tall ruderal habitat present with species occurring including bramble, hogweed, yarrow, (*Achillea millefolium*), red clover, cock's-foot, perennial rye grass, Yorkshire fog, pineapple weed, nettle, ribwort plantain, greater plantain, broad-leaved dock, (*Rumex obtusifolius*), cat's-ear, (*Hypochaeris radicata*), mugwort, ragwort, common poppy, musk mallow, (*Malva moschata*), creeping thistle, hedge bindweed, (*Calystegia sepium*), hedgerow crane's-bill, dandelion, and common nettle. Sycamore, (*Acer pseudoplatanus*), and pedunculate oak saplings were recorded along this track.

Arable

- 3.40 The majority of the site comprised arable fields. At the time of the survey crops present included beet, maize and oats. Green alkanet, bramble (*Rubus fruticosus* agg.) and

common poppy (*Papaver rhoeas*), were also recorded in these fields at the time of the survey.

#### Defunct hedgerow

- 3.41 A defunct hedgerow (TN9) was located in the eastern half of the site running west to east between two arable fields. This hedgerow was unmanaged and gappy and comprised hawthorn (*Crataegus monogyna*) and elm (*Ulmus procera*).
- 3.42 A second defunct hedgerow (TN10) was present running west to east parallel to TN9, with a similar composition to above, with the addition of elder, (*Sambucus nigra*) and honeysuckle, (*Lonicera periclymenum*).
- 3.43 A third hedgerow (TN11) is present along the north-eastern boundary of the site. This hedgerow is intact and contains hawthorn, elder and elm.

#### Standard trees

- 3.44 A number of scattered standard mature trees were recorded across the site. These included oak, beech, sweet chestnut, lime, redwood, (*Sequoia* sp.) and conifer. Beech and lime trees lined a hardstanding track present on the site (TN8). It should be noted that during the latest survey completed in February 2019, one of the oak trees present on the site (Tree 1) had been subject to storm damage and one of its limbs had been lost.

#### Hardstanding

- 3.45 The hardstanding track present towards the centre of the site separated the eastern and western sides of the site. This track comes from the main road to the south (Wolverley Road) and bears north-eastwards towards the farm further north. The edges of the hardstanding have tall ruderal habitat present as described above.

#### Boundary woodland

- 3.46 The north, west and south of the site is bordered by a combination of mixed plantation woodland and broad-leaved semi-natural woodland. The northern and north-western boundary of the site is comprised of mixed plantation woodland. Species recorded include elder, yew, (*Taxus baccata*), box, (*Buxus sempervirens*), field maple, (*Acer campestre*), rowan, (*Sorbus aucuparia*), oak, hawthorn, sycamore, silver birch, (*Betula pendula*), beech, sweet chestnut, ivy, (*Hedera helix*), holly, (*Ilex aquifolium*), cherry (*Prunus* sp.), nettle, ground ivy, wood avens, (*Geum urbanum*), bramble and

rhododendron, (*Rhododendron ponticum*). It is not known whether the box in this area of the woodland is planted or native. Should it be native, this is a very rare species in the county. One record of box was returned from the data search. This was recorded in Gloucester Coppice in 2007 approximately 655m to the north-west of the site. Due to the uniform size of the dominant sycamore trees it is suspected that the woodland here has been clear-felled and replanted at some point in the past. This may be because of a requirement for timber or as a result of disease.

- 3.47 The north-eastern boundary of the western part of the site is bordered by broad-leaved semi-natural woodland, with species recorded including wych elm, (*Ulmus glabra*), small-leaved lime, (*Tilia cordata*), oak, sycamore, hawthorn, ash and broom.
- 3.48 The south-western boundary of the site is bordered by broad-leaved semi-natural woodland, with species recorded including small-leaved lime, sycamore, oak, box, beech, willow, (*Salix* sp.), and elm. Ground flora in this area included herb Robert, ground ivy, common vetch, white dead-nettle, bramble and nettle.
- 3.49 The woodland that borders the southern boundary of the site was dominated by common lime (*Tilia x europaea*) and also included silver birch, sycamore, horse chestnut (*Aesculus hippocastanum*), fig (*Ficus carica*), elm, yew, holly, ivy, cherry laurel (*Prunus laurocerasus*), bramble, common nettle, herb Robert and foxglove (*Digitalis purpurea*).

### **Faunal Survey**

#### Badger

- 3.50 The site provides suitable habitat for badger sett creation and provides suitable foraging habitat for badger in the form of semi-improved grassland and arable fields. Please refer to the confidential annex in Appendix 6 for the details of the badger survey.
- 3.51 WBRC returned 21 records of badger from the data search. None of these records were specific to the site. The closest record was a road casualty from 2008 from Wolverley Road immediately to the south of the site. The records dated between 2001 and 2014. The vast majority of the records were road casualties or live sightings.

Bats

*Roosting habitat*

3.52 There are four trees present on the site which offer moderate roosting potential for bats and one tree which is considered to offer high roosting potential for bats. The table below provides further details in relation to these trees. Please see Appendix 3 for photographs of these trees. The location of the trees can be seen on Drawing M16.176(a).D.006.

**Table 1.** Trees recorded on the site with bat roosting potential.

| <b>Tree Number</b> | <b>Species</b> | <b>Bat Suitability</b> | <b>Roost</b> | <b>Details</b>   |
|--------------------|----------------|------------------------|--------------|--|
| Tree 1             | Oak            | Moderate               |              | Split limbs at approx. 3m height on southern aspect.   |
| Tree 2             | Oak            | Moderate               |              | Woodpecker holes at approx. 2.5m height on southern aspect.  |
| Tree 3             | Sweet chestnut | Moderate               |              | Dead tree with crack in its limb at approx. 1.8m height on eastern aspect.   |
| Tree 4             | Oak            | High                   |              | Dead tree with cracks in limbs at approx. 4m height and woodpecker holes on main trunk on eastern aspect. Elder is growing around the base of this |

**PRELIMINARY ECOLOGICAL APPRAISAL OF LAND AT LEA CASTLE FARM, WOLVERLEY**

|        |     |          |   |
|--------|-----|----------|---|
|        |     |          | tree.   |
| Tree 5 | Oak | Moderate | Split lower limb and broken branch stubs at approx. 2m height on northern aspect. |

3.53 There are no buildings present within the site.

3.54 There are also a number of mature trees along the external boundaries of the site that offer roosting potential for bats. These were not assessed fully as they are not anticipated to be directly or indirectly impacted by the proposals.

*Foraging and commuting habitat*

3.55 The majority of the site comprises large arable fields that offer limited suitability for foraging, commuting and roosting bats. There are however, headlands of semi-improved grassland and scattered trees throughout the site that provide more suitable habitat. The external boundaries of the site offer higher quality foraging and commuting habitat in the form of hedgerows and woodland. The surrounding area offers areas of higher quality habitat in the form of woodland, river and canal. The site is connected to these more suitable areas of habitat. As a result, overall the site is assessed to offer low habitat quality with higher areas of foraging habitat located in the wider area.

3.56 WBRC returned 126 bat records from the search area. These records included Daubenton’s bat, (*Myotis daubentonii*), noctule, (*Nyctalus noctula*), common pipistrelle, (*Pipistrellus pipistrellus*), soprano pipistrelle, (*P. pygmaeus*) and Pipistrelle sp. None of these records were specific to the site; the closest were common pipistrelle and Daubenton’s bat approximately 645m to the west at Kidderminster canal in 2002. More recent records were returned from Hurcott Pools, Kidderminster and Cookley. A number of roost records were returned from the data search. None of the roost records were on the site or within close proximity to the site.



Water vole

- 3.57 There were no waterbodies recorded on the site and therefore no areas that provide suitable habitat for water vole. The River Stour is the closest suitable waterbody for water voles and this is situated approximately 110m to the north-west of the site.
- 3.58 WBRC returned no records of water vole from the data search. It is considered that historically water vole occurred on the River Stour.

Otter

- 3.59 There were no waterbodies recorded on the site and therefore no areas that provides suitable habitat for otter. The River Stour is the closest suitable waterbody for this species and this is situated approximately 110m to the north-west of the site.
- 3.60 WBRC returned thirty two records of otter from the data search. These were dated between 2002 and 2005, with no records returned for the site. Otter have been reported using the River Stour LWS and Staffordshire and Worcestershire Canal LWS.

Dormouse

- 3.61 The site offers small areas of sub-optimal habitat for dormouse (*Muscardinus avellanarius*) in the form of hedgerows and woodland. The hedgerows present on the site are mostly defunct and not well connected to other areas of more suitable habitat. The woodland that surrounds the site provides sub-optimal habitat for this species, due to the lack of a varied structure. The woodland is generally without an understorey that dormice can use to forage, nest and commute between. This woodland will be retained and unaffected by the proposals.
- 3.62 No dormouse nests or characteristically chewed hazel nuts were recorded on the site throughout the surveys, however only one of the surveys was completed during the optimum time for nut searches (between mid August and December).
- 3.63 WBRC returned no records of dormouse from the data search.

Other mammals

- 3.64 Evidence of roe deer (*Capreolus capreolus*), red fox (*Vulpes vulpes*), wood mouse (*Apodemus sylvaticus*), field vole (*Microtus agrestis*) and mole (*Talpa europaea*) were observed on the site during the surveys.
- 3.65 The non-native pest species rabbit (*Oryctolagus cuniculus*), grey squirrel (*Sciurus carolinensis*) and muntjac deer (*Muntiacus reevesi*) were observed on the site.

- 3.66 Suitable habitat for harvest mouse was recorded on the site in the form of semi-improved grassland, arable field edges and hedgerows and therefore a survey was carried out in 2018 to inspect for signs of harvest mice. 20 harvest mouse artificial nesting sites (20) were placed around the site and checked on several occasions throughout 2018. No evidence of harvest mice were recorded in these artificial nesting sites during the surveys.
- 3.67 No signs of any other protected, rare or notable mammal species were recorded.
- 3.68 WBRC returned records of hedgehog (*Erinaceus europaeus*), brown hare (*Lepus europaeus*), harvest mouse and polecat (*Mustela putorius*) from within 3km of the site. None of these records were specific to the site. Suitable habitat for hedgehog and brown hare do occur on the site in the form of the hedgerows and arable fields. No other mammal records were returned from the data search that has not already been commented upon.

Great crested newt

- 3.69 No ponds were recorded on the site during the surveys completed in 2016 and 2018 and no ponds were identified within 500m of the site boundary. The closest waterbody to the site is the River Stour which is situated approximately 110m to the north-west. The River Stour is considered unsuitable for great crested newt due to its fast-flowing nature.
- 3.70 It should be noted that during the latest survey at the site (February 2019), some habitat removal had been completed immediately outside of the site boundary. The removal of this dense scrub and woodland (presumed to have been removed due to damage to the external wall) revealed the presence of a very small pond. At the time of this update survey, the pond was full of leaf litter and plastic rubbish. The pond was lined with a very limited amount of water present. It was of poor quality and is considered highly unlikely to support great crested newt as it had been previously heavily choked with vegetation and is likely to dry out during the spring and summer months.
- 3.71 A HSI Assessment was completed on this pond and the results are shown in the table below.

**Table 2.** HSI Assessment results for the pond present to the south of the site observed in February 2019.

| HSI Factor               | Value       | HSI Rating for Index |
|--------------------------|-------------|----------------------|
| Geographic Location      | 1.00        | Excellent            |
| Pond Area                | 0.01        | Poor                 |
| Drying Out Frequency     | 0.10        | Poor                 |
| Water Quality            | 0.33        | Poor                 |
| Shade                    | 1.00        | Excellent            |
| Fowl                     | 1.00        | Excellent            |
| Fish                     | 1.00        | Excellent            |
| Pond Count               | 0.65        | Average              |
| Terrestrial Habitat      | 0.67        | Average              |
| Macrophytes              | 0.30        | Poor                 |
| <b>Overall HSI Value</b> | <b>0.37</b> | <b>Poor</b>          |

3.72 The site offers small areas of suitable terrestrial habitat for great crested newt in the form of hedgerows and semi-improved grassland. As no suitable waterbodies are present in close proximity to the site, it is considered highly unlikely that great crested newt would occur on the site.

3.73 In addition, WBRC returned no records of great crested newt from the data search. Other amphibians returned from the data search included common toad (*Bufo bufo*), smooth newt (*Lissotriton vulgaris*) and common frog (*Rana temporaria*). These records were dated between 1996 and 2007 and are therefore considered historic. Three records of juvenile common toad were recorded on the site in 2009.

#### Reptiles

3.74 The site offers small areas of suitable habitat for reptiles in the form of the hedgerows, semi-improved grassland and woodland edge habitat that could be used to forage, bask and commute.

3.75 The site has good connectivity to further areas of suitable habitat to the north and west in the form of woodland, rivers and marshy habitat and wetland.

3.76 The surrounding brick estate boundary to the south and east of the site provides a significant boundary to immigration or emigration and the likelihood of historic

populations of ground feeding game birds, and more recently, domestic cats from the adjacent properties, suggest that reptile populations may have been lost over time.

- 3.77 The western part of the site has open connectivity to the woodland and the wider area that connects to the River Stour.
- 3.78 Reptile surveys were completed on the site in 2016 and no reptiles were recorded, despite the surveys being completed under suitable weather conditions. Anecdotal information of inspections of reptile refugia throughout 2018 did not reveal any reptile recordings. Due to the lack of reptiles recorded during the 2016 surveys and the lack of change of habitat since this time, it is considered highly unlikely that reptiles would occur on the site.
- 3.79 WBRC returned twelve records of reptiles within 3km of the site. These were all records of grass snakes, dated between 1996 and 2015. The closest of these was approximately 435m to the west of the site at Wolverley Lock in 2011.

### Birds

#### *Breeding Birds*

- 3.80 The site was assessed as holding potential as a good farmland bird site. Many farmland birds are listed on the local BAP. The site supports suitable habitat for breeding birds in the form of arable fields, hedgerows, scattered trees and woodland edge.
- 3.81 Numerous trees on the site showed features suitable for barn owl roosting and breeding (including extensive splits, and hollow limbs/trunks with elevated access areas). The site has suitable habitat for foraging barn owls in the form of the semi-improved grassland.

#### *Wintering Birds*

- 3.82 The site supports some suitable habitat for wintering birds in the form of arable and hedgerows. This habitat is extensive in the wider area.
- 3.83 During the initial PEA survey completed in January 2016 numerous flocks of birds were seen on the arable fields including a mixed flock of 50+ finches including chaffinch (*Fringilla coelebs*) and goldfinch (*Carduelis carduelis*), a flock of 40 redwing (*Turdus iliacus*) and a mixed flock of 8 skylark (*Alauda arvensis*) and 20 meadow pipit (*Anthus pratensis*). In addition, a female goshawk (*Accipiter gentilis*) was observed flying from south-west to north-east across the site.

- 3.84 During a survey completed across the site in October 2016, species recorded included fieldfare (*Turdus pilaris*), robin (*Erithacus rubecula*), meadow pipit, jay (*Garrulus glandarius*), blue tit (*Cyanistes caeruleus*), wren (*Troglodytes troglodytes*) and great spotted woodpecker (*Dendrocopos major*). Raven (*Corvus corax*) and black-headed gull (*Chroicocephalus ridibundus*) were also seen flying over the site.
- 3.85 During the survey completed in February 2019, species recorded included flocks of 40+ redwing, mixed flocks of redwing, fieldfare and starling (*Sturnus vulgaris*), mixed flocks of chaffinch, goldfinch and yellowhammer (*Emberiza citronella*), mixed flocks of long-tailed tit (*Aegithalos caudatus*), blue tit and great tit (*Parus major*) and large flocks of chaffinch (40+), jackdaw (*Corvus monedula*) (20+) and wood pigeon (*Columba palumbus*) (up to 50). Skylark and meadow pipit were observed in small mixed flocks and wren, robin, coal tit (*Periparus ater*), buzzard (*Buteo buteo*), sparrowhawk (*Accipiter nisus*), cormorant (*Phalacrocorax carbo*), song thrush (*Turdus philomelos*) and jay seen singly. Blackbird (*Turdus merula*), carrion crow (*Corvus corone*), magpie (*Pica pica*), jay, pied wagtail (*Motacilla alba subsp. yarrellii*), herring gull (*Larus argentatus*) and common gull, (*Larus canus*) were seen in pairs or small groups.
- 3.86 Many of these species were observed on adjacent pasture and boundary hedges and woodland and not on the arable fields. The species recorded were not seen as atypical for the site or for the local area.
- 3.87 WBRC returned a number of bird records from the data search. This included lesser redpoll (*Acanthis cabaret*), skylark, kingfisher, linnet (*Carduelis cannabina*), lesser spotted woodpecker, (*Dendrocopos minor*), yellowhammer, reed bunting, brambling, (*Fringilla montifringilla*), herring gull, house sparrow, (*Passer domesticus*), starling, redwing, song thrush, fieldfare and lapwing, (*Vanellus vanellus*). None of the records were specific to the site. The closest was a skylark returned from approximately 500m to the north of the site in 2009. The site provides suitable habitat for species returned from the desk study such as skylark, lapwing, linnet, yellowhammer, starling, redwing, song thrush and fieldfare.

#### Invertebrates

- 3.88 The site does not support any locally rare habitats, but does support semi-improved grassland which offers suitable habitat for a range of invertebrates. The hedgerows also provide habitat for a range of invertebrates. The arable land and other habitats across the site are considered unlikely to support any notable invertebrate species. It is

therefore anticipated that a number of invertebrates are likely to occur on the site, as well as in the wider area. During the surveys conducted between 2016-2018, incidental observation of red admiral (*Vanessa atalanta*), small tortoiseshell (*Aglais urtica*), peacock (*Aglais io*), large white (*Pieris brassicae*), small white (*P. rapae*), brimstone (*Gonepteryx rhamni*), orange tip (*Anthocharis cardamines*), common blue (*Polyommatus icarus*), small copper (*Lycaena phlaeas*) small skipper (*Thymellus sylvestris*), meadow brown (*Maniola jurtina*), speckled wood (*Pararge aegeria*) and gatekeeper (*Pyronia tithonus*) butterflies were seen on the site.

- 3.89 WBRC returned a large number of invertebrate records from within 3km of the site. These records included beetles, butterflies, moths and flies. The records are dated between 1999 and 2014. Three of these records were specific to the site, these included necklace ground beetle (*Carabus monilis*), in 2007 and 2008 and garden tiger (*Arctia caja*), in 2007.

#### 4.0 **CONCLUSIONS AND RECOMMENDATIONS**

##### **Ecological Designations**

- 4.1 There were no statutory designations present on the site, however, seven were returned within 3km of the central point of the site. The closest of these was approximately 620m from the boundary and is therefore considered unlikely to be impacted by the proposals. No other statutory designations are anticipated to be impacted by the proposals.
- 4.2 Fourteen LWS were returned from WBRC within the 3km search radius. The closest of these is Staffordshire and Worcestershire Canal LWS, located approximately 160m to the north-west at its closest point. In addition, the River Stour LWS is located approximately 190m from the site boundary. It is beyond the scope of this report to comment on whether this LWS might be impacted by potential hydrological changes.
- 4.3 All other non-statutory designated sites are further than 300m from the site boundary and are therefore not anticipated to be impacted by the proposals.
- 4.4 All areas of ancient woodland are situated at least 250m from the site boundary and are not anticipated to be impacted by the proposals.
- 4.5 To fully assess potential hydrological impacts from the proposals for the site it is recommended that a detailed hydrological assessment is conducted.

##### **Habitats**

- 4.6 The majority of the habitats present within the site are considered to be of relatively low ecological importance due to their species-poor and widespread nature. It is therefore considered that the habitats present on the site will not be of any greater than local value.
- 4.7 It is recommended that as part of the proposed development plan, a minimum of a 10m stand-off is observed from the boundary features of woodland and hedgerows to maintain their quality. It will also be necessary to maintain the root protection zones from all trees to be retained in line with BS5837:2012 – Trees in relation to design, demolition and construction. Where possible, mature standard trees present on the site should be retained. The restoration plan should include habitats of equal or greater quality than the current situation in line with the emerging best practice guidelines on biodiversity net gain. The restoration of the site should also seek to provide functional connections to the existing retained habitats in the wider area.

- 4.8 Habitats of principal importance are present in close proximity to the site, mainly in the form of broad-leaved woodland adjacent to the western boundary of the site. This habitat should be retained and measures should be put in place to avoid and minimise any indirect impacts on this woodland.

### **Protected Species**

#### Badgers

- 4.9 The results of the badger findings are reported separately in the confidential annex in Appendix 6. It is recommended that regular badger update surveys are completed on the site as this species can be quite unpredictable regarding sett creation. Surveys should be completed 6 months prior to the commencement of the works, and 6 months prior to the commencement of each subsequent phase of works.

#### Bats

- 4.10 Bats are protected under the Conservation of Habitats and Species Regulations 2017 and the Wildlife and Countryside Act 1981 (as amended). This legislation affords them protection against killing, injury and disturbance, as well as the damage, destruction or obstruction of access to their resting places, in addition to other actions (please see Appendix 4 for details of wildlife legislation).
- 4.11 Following initial site surveys four trees on the site were assessed as having moderate potential for bat roosts (T1, T2, T3 and T5), a fifth, T4 was assessed as having high potential. Bat roost presence/absence surveys are therefore recommended on these trees to establish the likely presence or absence of roosting bats. These surveys require at least two surveys for trees that offer moderate roosting potential and at least three surveys for trees that offer high bat roosting potential. The surveys must be a combination of dusk and dawn surveys and must be completed by suitably licensed ecologists.
- 4.12 The site is considered to offer suitable foraging and commuting habitat for bats in the form of hedgerows and woodland edge. The majority of the site offers limited opportunities for foraging and commuting bats due to the large areas of open arable land. For this reason, the site is considered to provide low suitability foraging and commuting habitat for bats. The wider area offers extensive high quality habitat in the form of broad-leaved woodland and waterbodies.



- 4.13 Bat activity surveys are therefore recommended to establish the bat assemblage across the site. For sites supporting low quality habitat such as this site, one visit per transect each season (spring, summer and autumn) is required in order to follow current guidelines. In addition, one static detector location is required per season (spring, summer and autumn) with data to be collected on five consecutive nights each season.
- 4.14 It is our understanding that the boundary trees of the site will be retained and unaffected throughout the duration of the works. Where this is not possible, these trees will require bat roost inspection surveys to identify any potential for roosting bats. This may involve further detailed presence/absence or roost characterisation bat roost surveys and associated mitigation and/or compensation strategies that might require European Protected Species (EPS) licensing.

#### Reptiles

- 4.15 A number of areas on the site were identified as suitable habitat for reptiles. Local records returned from the data search included grass snakes.
- 4.16 All British reptiles are protected under the Wildlife and Countryside Act 1981 (as amended) against killing and injury amongst other actions (please see Appendix 4 for details of wildlife legislation).
- 4.17 Presence/absence surveys for reptiles were undertaken in 2016 to establish whether reptiles occur in areas anticipated to be affected by the proposed works. These surveys help ensure legal compliance and assist in fully informing the ecological impacts of the proposals as well as the design of any mitigation measures (if necessary).
- 4.18 The reptile surveys involved at least seven visits. No reptiles were recorded during the survey period (please see PSL Report Reference Number: PSC1biii435.R.004 and therefore it is considered highly unlikely that reptiles would occur on the site.

#### Breeding Birds

- 4.19 The site supports good habitat for farmland species of birds. All wild birds, their nests and eggs are protected under the Wildlife & Countryside Act 1981 (as amended) from the time that the nest is being built until the nest is no longer in use (the nesting season is typically between late February and late August).

4.20 Breeding bird surveys were completed in 2016 and these survey results are now considered out of data and therefore update surveys are recommended. Update surveys should involve at least two survey visits between April and June to record the bird assemblage across the site. All surveys should be conducted by a suitably experienced ecologist.

Wintering Birds

4.21 Birds observed during the winter months were considered typical of the site habitats and the local area being consistent with WBRC records. It is not considered necessary to complete additional surveys in relation to wintering birds.

Other protected and notable species

4.22 Apart from the species listed above, there are no obvious and immediate issues regarding other protected and notable species on the site.

**5.0 REFERENCES**

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**DRAWING M16.176(a).D.006**

**PRELIMINARY ECOLOGICAL APPRAISAL**



- Legend**
- Site boundary
  - Broad-leaved and mixed plantation woodland
  - Semi-improved neutral grassland
  - I Improved grassland
  - Tall ruderal
  - A Arable
  - Native intact hedgerow
  - Native defunct hedgerow
  - Hardstanding
  - Standard tree
  - Tree with moderate bat roosting potential
  - Tree with high bat roosting potential
  - Tree 1 Tree Number
  - TN 1 Target Note Number

|   |                    |
|---|--------------------|
| <b>DRAWING STATUS</b>                   |                    |
| <b>FINAL</b>                            |                    |
| <b>PROJECT</b>                          |                    |
| <b>LEA CASTLE FARM</b>                  |                    |
| <b>CLIENT</b>                           |                    |
| <b>NRS Aggregates Ltd</b>               |                    |
| <b>TITLE</b>                            |                    |
| <b>Preliminary Ecological Appraisal</b> |                    |
| <b>DATE</b>                             | <b>SCALE</b>       |
| <b>March 2019</b>                       | <b>1:3,500 @A3</b> |
| <b>DRAWN</b>                            | <b>CHECKED</b>     |
| <b>KH</b>                               | <b>SC</b>          |
| <b>DRAWN NO.</b>                        | <b>REVISION</b>    |
| <b>M16.176(a).D.006</b>                 |                    |

PleydellSmithyman

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**DRAWING M16.176(a).D.020**

**HARVEST MOUSE REFUGIA LOCATIONS**



**Legend**

- Site boundary
- Tree with moderate roosting potential
- Tree with high roosting potential
- Tree 1** Tree Number
- Harvest Mouse Refugia Location

|  |                    |
|--|--------------------|
| <b>DRAWING STATUS</b>                  |                    |
| <b>FINAL</b>                           |                    |
| <b>PROJECT</b>                         |                    |
| <b>LEA CASTLE FARM</b>                 |                    |
| <b>CLIENT</b>                          |                    |
| <b>NRS Aggregates Ltd</b>              |                    |
| <b>TITLE</b>                           |                    |
| <b>Harvest Mouse Refugia Locations</b> |                    |
| <b>DATE</b>                            | <b>SCALE</b>       |
| <b>March 2019</b>                      | <b>1:3,500 @A3</b> |
| <b>DRAWN</b>                           | <b>CHECKED</b>     |
| <b>KH</b>                              | <b>SC</b>          |
| <b>DRAWN NO.</b>                       | <b>REVISION</b>    |
| <b>M16.176(a).D.020</b>                |                    |



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**APPENDIX 1**

**Information obtained from  
Worcestershire Biological Records Centre**





## Worcestershire *Biological Records Centre*

### Protected/notable species and designated sites information

Protected/notable species and designated sites information held by WBRC as at 04/05/18 for 3km radius around Central Grid Ref SO834789 Wolverley.

#### Protected/notable species - objects, which are wholly or partially within 3km of site.

| No   | Scientific Name             | Common Name | Grid Ref   | Location Name                        | Date       | Comments                    | Status              |
|------|-----------------------------|-------------|------------|--------------------------------------|------------|-----------------------------|---------------------|
| 839  | <i>Bufo bufo</i>            | Common Toad | SO84567796 | Podmore Pool                         | 1996       |                             | WCA NERC s.41 UKBAP |
| 706  | <i>Bufo bufo</i>            | Common Toad | SO834774   | Springfield Park                     | 2003       |                             | WCA NERC s.41 UKBAP |
| 850  | <i>Bufo bufo</i>            | Common Toad | SO845777   | Podmore Pool                         | 05/07/96   | 30 Adults                   | WCA NERC s.41 UKBAP |
| 853  | <i>Bufo bufo</i>            | Common Toad | SO845780   | Podmore Pool                         | 06/05/02   | 15 Adult                    | WCA NERC s.41 UKBAP |
| 707  | <i>Bufo bufo</i>            | Common Toad | SO834778   | Stack Pools                          | 06/07/02   | 2 Adult                     | WCA NERC s.41 UKBAP |
| 958  | <i>Bufo bufo</i>            | Common Toad | SO853779   | Hurcott Pool                         | 05/09/02   | 2 present                   | WCA NERC s.41 UKBAP |
| 707  | <i>Bufo bufo</i>            | Common Toad | SO834778   | Stack Pools                          | 06/09/02   |                             | WCA NERC s.41 UKBAP |
| 178  | <i>Bufo bufo</i>            | Common Toad | SO856800   | Island Pool                          | 20/07/03   | Pool & dry valley; toadlets | WCA NERC s.41 UKBAP |
| 605  | <i>Bufo bufo</i>            | Common Toad | SO829794   | Bishop's Field                       | 13/07/04   |                             | WCA NERC s.41 UKBAP |
| 1054 | <i>Bufo bufo</i>            | Common Toad | SO862781   | Wannerton Farm                       | 23/02/07   |                             | WCA NERC s.41 UKBAP |
| 997  | <i>Bufo bufo</i>            | Common Toad | SO857779   | Hurcott                              | 23/02/07   |                             | WCA NERC s.41 UKBAP |
| 724  | <i>Bufo bufo</i>            | Common Toad | SO835781   | Springfield Park                     | 20/03/07   |                             | WCA NERC s.41 UKBAP |
| 712  | <i>Bufo bufo</i>            | Common Toad | SO834796   | Wolverley/Lea<br>Castle Fm           | 02/07/09   | 3 Juvenile                  | WCA NERC s.41 UKBAP |
| 382  | <i>Bufo bufo</i>            | Common Toad | SO820776   | Franche                              | 16/07/2016 |                             | WCA NERC s.41 UKBAP |
| 722  | <i>Bufo bufo</i>            | Common Toad | SO835778   | Springfield Park                     | 23/01/2017 |                             | WCA NERC s.41 UKBAP |
| 706  | <i>Bufo bufo</i>            | Common Toad | SO834774   | Springfield Park                     | Aug-05     | 15 Adult                    | WCA NERC s.41 UKBAP |
| 9    | <i>Lissotriton vulgaris</i> | Smooth Newt | SO8377     | Old Sand Quarry,<br>nr Kidderminster | Apr-98     |                             | WCA                 |
| 724  | <i>Lissotriton vulgaris</i> | Smooth Newt | SO835781   | Springfield Park                     | 17/04/07   |                             | WCA                 |
| 313  | <i>Lissotriton vulgaris</i> | Smooth Newt | SO816767   | Baxter College,<br>Kidderminster     | 11/06/2009 | Within both ponds on site   | WCA                 |
| 706  | <i>Rana temporaria</i>      | Common Frog | SO834774   | Springfield Park                     | 2003       |                             | WCA                 |
| 605  | <i>Rana temporaria</i>      | Common Frog | SO829794   | Bishop's Field                       | 14/06/99   |                             | WCA                 |
| 853  | <i>Rana temporaria</i>      | Common Frog | SO845780   | Podmore Pool                         | 06/05/02   | 7 Adults                    | WCA                 |

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| No  | Scientific Name            | Common Name                  | Grid Ref | Location Name                      | Date       | Comments  | Status                      |
|-----|----------------------------|------------------------------|----------|------------------------------------|------------|---|-----------------------------|
| 175 | <i>Rana temporaria</i>     | Common Frog                  | SO855803 | Island Pool                        | 17/07/02   |   | WCA                         |
| 176 | <i>Rana temporaria</i>     | Common Frog                  | SO855805 | Island Pool                        | 17/07/02   |   | WCA                         |
| 958 | <i>Rana temporaria</i>     | Common Frog                  | SO853779 | Hurcott Pool                       | 05/09/02   | 3 present   | WCA                         |
| 851 | <i>Rana temporaria</i>     | Common Frog                  | SO845778 | Kidderminster                      | 02/03/03   | spawn in garden   | WCA                         |
| 605 | <i>Rana temporaria</i>     | Common Frog                  | SO829794 | Bishop's Field                     | 13/07/04   |   | WCA                         |
| 605 | <i>Rana temporaria</i>     | Common Frog                  | SO829794 | Bishop's Field                     | 22/09/05   |   | WCA                         |
| 659 | <i>Rana temporaria</i>     | Common Frog                  | SO831793 | Bishops Field                      | 07/06/06   |   | WCA                         |
| 724 | <i>Rana temporaria</i>     | Common Frog                  | SO835781 | Springfield Park                   | 20/03/07   |   | WCA                         |
| 270 | <i>Rana temporaria</i>     | Common Frog                  | SO813772 | Briars Hotel site,<br>Habberley Rd | 31/05/08   |   | WCA                         |
| 703 | <i>Rana temporaria</i>     | Common Frog                  | SO834768 | Kidderminster                      | 05/06/2016 | All stages  | WCA                         |
| 706 | <i>Rana temporaria</i>     | Common Frog                  | SO834774 | Springfield Park                   | Aug-05     | 20+ Adult   | WCA                         |
| 605 | <i>Acanthis cabaret</i>    | Lesser Redpoll               | SO829794 | Bishop's Field                     | 2009       |   | NERC s.41 UKBAP<br>Bird:Red |
| 605 | <i>Alauda arvensis</i>     | Skylark                      | SO829794 | Bishop's Field                     | 2009       | overhead  | NERC s.41 Bird:Red          |
| 83  | <i>Alauda arvensis</i>     | Skylark                      | SO823815 | Round Hill                         | 24/04/06   | 1 singing, rough grassland                                    | NERC s.41 Bird:Red          |
| 92  | <i>Alauda arvensis</i>     | Skylark                      | SO825817 | Round Hill                         | 27/04/06   | 1 singing, rough grassland                                    | NERC s.41 Bird:Red          |
| 83  | <i>Alauda arvensis</i>     | Skylark                      | SO823815 | Round Hill                         | 27/04/06   | 1 singing, rough grassland                                    | NERC s.41 Bird:Red          |
| 148 | <i>Alauda arvensis</i>     | Skylark                      | SO846811 | Cookley                            | 10/04/07   | 2 songs heard   | NERC s.41 Bird:Red          |
| 855 | <i>Alauda arvensis</i>     | Skylark                      | SO845796 | Wolverley                          | 16/04/07   | 2 songs heard; arable   | NERC s.41 Bird:Red          |
| 149 | <i>Alauda arvensis</i>     | Skylark                      | SO846812 | Caunsall                           | 25/04/07   | Song heard; arable  | NERC s.41 Bird:Red          |
| 151 | <i>Alauda arvensis</i>     | Skylark                      | SO847810 | Cookley                            | 07/05/08   | Song. Arable  | NERC s.41 Bird:Red          |
| 605 | <i>Alcedo atthis</i>       | Kingfisher                   | SO829794 | Bishop's Field                     | 2008       | young male caught & ringed<br>between rows of willows/pools   | WCA                         |
| 605 | <i>Alcedo atthis</i>       | Kingfisher                   | SO829794 | Bishop's Field                     | 2009       |   | WCA                         |
| 853 | <i>Alcedo atthis</i>       | Kingfisher                   | SO845780 | Podmore Pool                       | 18/07/02   | 1 Adult   | WCA                         |
| 958 | <i>Alcedo atthis</i>       | Kingfisher                   | SO853779 | Hurcott Pool                       | 05/09/02   | 1 Adult   | WCA                         |
| 557 | <i>Alcedo atthis</i>       | Kingfisher                   | SO828777 | Puxton Marsh                       | 05/01/05   |   | WCA                         |
| 722 | <i>Anser anser</i>         | Greylag Goose                | SO835778 | Kidderminster                      | 31/03/2016 |   | WCA                         |
| 901 | <i>Cettia cetti</i>        | Cetti's Warbler              | SO848778 | Hurcott Meadow                     | 17/06/05   |   | WCA                         |
| 849 | <i>Cuculus canorus</i>     | Cuckoo                       | SO845769 | Hardy Av,<br>Kidderminster         | 30/08/2016 | Juvenile fed by blackbirds over<br>breeding season in garden. | NERC s.41 UKBAP<br>Bird:Red |
| 557 | <i>Dendrocopos minor</i>   | Lesser Spotted<br>Woodpecker | SO828777 | Puxton Marsh                       | 05/01/05   |   | Bird:Red                    |
| 605 | <i>Emberiza citrinella</i> | Yellowhammer                 | SO829794 | Bishop's Field                     | 2009       |   | NERC s.41 UKBAP<br>Bird:Red |
| 960 | <i>Emberiza citrinella</i> | Yellowhammer                 | SO853798 | Axborough Lane                     | 16/04/07   |   | NERC s.41 UKBAP<br>Bird:Red |
| 146 | <i>Emberiza citrinella</i> | Yellowhammer                 | SO845809 | Cookley                            | 18/04/07   |   | NERC s.41 UKBAP<br>Bird:Red |

| No  | Scientific Name                 | Common Name    | Grid Ref     | Location Name                | Date       | Comments   | Status                      |
|-----|---------------------------------|----------------|--------------|------------------------------|------------|--|-----------------------------|
| 87  | <i>Emberiza citrinella</i>      | Yellowhammer   | SO824811     | Iverley                      | 02/07/08   | Song & sightng. Hedgerow   | NERC s.41 UKBAP<br>Bird:Red |
| 192 | <i>Emberiza citrinella</i>      | Yellowhammer   | SO858806     | Caunsall                     | 04/07/08   | Song & sightng. Hedgerow   | NERC s.41 UKBAP<br>Bird:Red |
| 114 | <i>Emberiza citrinella</i>      | Yellowhammer   | SO833812     | Iverley Way Farm             | May-06     | Individuals above 3 different nests. On telegraph wires above hedgerow/arable.           | NERC s.41 UKBAP<br>Bird:Red |
| 605 | <i>Emberiza schoeniclus</i>     | Reed Bunting   | SO829794     | Bishop's Field               | 2009       | ringed   | NERC s.41 UKBAP             |
| 605 | <i>Emberiza schoeniclus</i>     | Reed Bunting   | SO829794     | Bishop's Field               | 14/06/99   |  | NERC s.41 UKBAP             |
| 853 | <i>Emberiza schoeniclus</i>     | Reed Bunting   | SO845780     | Podmore Pool                 | 18/07/02   | 1 Adult  | NERC s.41 UKBAP             |
| 557 | <i>Emberiza schoeniclus</i>     | Reed Bunting   | SO828777     | Puxton Marsh                 | 05/01/05   |  | NERC s.41 UKBAP             |
| 599 | <i>Falco peregrinus</i>         | Peregrine      | SO829765     | Kidderminster, Weavers Wharf | 28/02/11   | Photographed male perching on chimney stack  | WCA                         |
| 605 | <i>Fringilla montifringilla</i> | Brambling      | SO829794     | Bishop's Field               | 2009       | in very low numbers.   | WCA                         |
| 605 | <i>Larus argentatus</i>         | Herring Gull   | SO829794     | Bishop's Field               | 2009       | overhead   | Bird:Red                    |
| 853 | <i>Larus argentatus</i>         | Herring Gull   | SO845780     | Podmore Pool                 | 18/07/02   | 1 Adult  | Bird:Red                    |
| 605 | <i>Linaria cannabina</i>        | Linnet         | SO829794     | Bishop's Field               | 2009       |  | Bird:Red                    |
| 605 | <i>Passer domesticus</i>        | House Sparrow  | SO829794     | Bishop's Field               | 2009       |  | NERC s.41 UKBAP<br>Bird:Red |
| 557 | <i>Passer domesticus</i>        | House Sparrow  | SO828777     | Puxton Marsh                 | 05/01/05   |  | NERC s.41 UKBAP<br>Bird:Red |
| 140 | <i>Passer domesticus</i>        | House Sparrow  | SO84378007   |                              | 02/06/2013 |  | NERC s.41 UKBAP<br>Bird:Red |
| 414 | <i>Passer domesticus</i>        | House Sparrow  | SO822769     |                              | 09/05/2014 |  | NERC s.41 UKBAP<br>Bird:Red |
| 773 | <i>Passer domesticus</i>        | House Sparrow  | SO84017617   | Kidderminster                | 29/03/2016 |  | NERC s.41 UKBAP<br>Bird:Red |
| 990 | <i>Passer domesticus</i>        | House Sparrow  | SO8568377403 | Blakedown                    | 14/01/2017 |  | NERC s.41 UKBAP<br>Bird:Red |
| 773 | <i>Passer domesticus</i>        | House Sparrow  | SO84027617   | Kidderminster                | 24/02/2017 |  | NERC s.41 UKBAP<br>Bird:Red |
| 145 | <i>Perdix perdix</i>            | Grey Partridge | SO844811     | Caunsall                     | 27/04/07   | Orange tail feathers seen clearly in flight. Lack of eyestripe. Both rule out red-legged | NERC s.41 UKBAP<br>Bird:Red |
| 605 | <i>Sturnus vulgaris</i>         | Starling       | SO829794     | Bishop's Field               | 2009       |  | Bird:Red                    |
| 605 | <i>Turdus iliacus</i>           | Redwing        | SO829794     | Bishop's Field               | 2009       |  | WCA Bird:Red                |
| 557 | <i>Turdus iliacus</i>           | Redwing        | SO828777     | Puxton Marsh                 | 05/01/05   |  | WCA Bird:Red                |
| 605 | <i>Turdus philomelos</i>        | Song Thrush    | SO829794     | Bishop's Field               | 2009       |  | Bird:Red                    |
| 605 | <i>Turdus philomelos</i>        | Song Thrush    | SO829794     | Bishop's Field               | 06/07/04   |  | Bird:Red                    |
| 557 | <i>Turdus philomelos</i>        | Song Thrush    | SO828777     | Puxton Marsh                 | 05/01/05   |  | Bird:Red                    |
| 815 | <i>Turdus philomelos</i>        | Song Thrush    | SO843773     | Greenhill                    | 13/05/06   | 1 singing, garden  | Bird:Red                    |

| No   | Scientific Name            | Common Name       | Grid Ref | Location Name               | Date       | Comments   | Status                      |
|------|----------------------------|-------------------|----------|-----------------------------|------------|--|-----------------------------|
| 139  | <i>Turdus philomelos</i>   | Song Thrush       | SO842808 | Cookley                     | 29/04/08   | Song & sighting. Woodland  | Bird:Red                    |
| 605  | <i>Turdus pilaris</i>      | Fieldfare         | SO829794 | Bishop's Field              | 2009       |  | WCA Bird:Red                |
| 1044 | <i>Turdus pilaris</i>      | Fieldfare         | SO861787 | Blakedown                   | 02/01/2017 |  | WCA Bird:Red                |
| 605  | <i>Vanellus vanellus</i>   | Lapwing           | SO829794 | Bishop's Field              | 2009       | overhead   | NERC s.41 UKBAP<br>Bird:Red |
| 165  | <i>Vanellus vanellus</i>   | Lapwing           | SO853800 | Axborough Lane              | 01/04/06   | 3 perched; arable  | NERC s.41 UKBAP<br>Bird:Red |
| 969  | <i>Pinus sylvestris</i>    | Scots Pine        | SO854779 | Hurcott Pool                | 17/09/04   |  | Nationally Scarce           |
| 71   | <i>Pinus sylvestris</i>    | Scots Pine        | SO820808 | Kingsford Heath             | 12/06/07   | Widespread   | Nationally Scarce           |
| 504  | <i>Pinus sylvestris</i>    | Scots Pine        | SO826762 | Sutton Park Road Cemetery   | 15/08/07   | DAFOR; LF  | Nationally Scarce           |
| 758  | <i>Pinus sylvestris</i>    | Scots Pine        | SO838762 | Kidderminster train station | 30/05/13   |  | Nationally Scarce           |
| 47   | <i>Pinus sylvestris</i>    | Scots Pine        | SO810801 | Horseley Hills              | 07/10/13   |  | Nationally Scarce           |
| 626  | <i>Achillea ptarmica</i>   | Sneezewort        | SO830785 | Wolverley Court Lock Mdw    | 1998       |  | Locally Nb                  |
| 532  | <i>Achillea ptarmica</i>   | Sneezewort        | SO827774 | Puxton Marsh                | 26/08/98   | WWT Wetlands Survey  | Locally Nb                  |
| 982  | <i>Aira caryophyllea</i>   | Silver Hair-grass | SO855791 | nr Lea Castle Hospital      | 27/06/93   | Scattered plants in set-aside arable   | Locally Nb                  |
| 720  | <i>Aira caryophyllea</i>   | Silver Hair-grass | SO835765 | Kidderminster ring road     | 19/05/94   | Locally Common; roadside bank  | Locally Nb                  |
| 808  | <i>Aira caryophyllea</i>   | Silver Hair-grass | SO842768 | Chester Rd, Kidderminster   | 09/06/94   | Several plants; railway bank   | Locally Nb                  |
| 947  | <i>Aira caryophyllea</i>   | Silver Hair-grass | SO852793 | Lea Castle                  | 05/07/97   | Locally Common; bare waste ground  | Locally Nb                  |
| 898  | <i>Aira caryophyllea</i>   | Silver Hair-grass | SO848772 | A456, Offmore               | 16/07/97   | Sizeable patch on sandy grass verge  | Locally Nb                  |
| 133  | <i>Aira caryophyllea</i>   | Silver Hair-grass | SO841801 | Cookley                     | 22/06/98   | Locally abundant on disused tennis courts  | Locally Nb                  |
| 15   | <i>Aira praecox</i>        | Early Hair-grass  | SO8579   | SO87 tetrad P               | 1992       |  | Locally Nb                  |
| 14   | <i>Aira praecox</i>        | Early Hair-grass  | SO8577   | SO87 tetrad N               | 1994       |  | Locally Nb                  |
| 9    | <i>Aira praecox</i>        | Early Hair-grass  | SO8377   | SO87 tetrad I               | 1994       |  | Locally Nb                  |
| 315  | <i>Althaea officinalis</i> | Marsh-Mallow      | SO816773 | Blake Marsh                 | 18/08/98   | WWT Wetlands Survey - 1 specimen only, garden escape?                                      | Nationally Scarce           |
| 315  | <i>Althaea officinalis</i> | Marsh-Mallow      | SO816773 | Blake Marsh                 | 24/07/02   | Large plant on edge of marsh. Perhaps most likely persistent garden throw-out than planted | Nationally Scarce           |
| 141  | <i>Anthemis arvensis</i>   | Corn Chamomile    | SO843804 | Cookley                     | May-92     | 5/6 plants in horse pasture by canal   | Locally Nb                  |
| 117  | <i>Anthemis arvensis</i>   | Corn Chamomile    | SO834813 | Blakeshall                  | 06/06/93   | 3 large plants in sandy set-aside  | Locally Nb                  |
| 1006 | <i>Anthriscus caucalis</i> | Bur Parsley       | SO858791 | Lea Castle                  | 25/05/92   | Large patch in arable set-aside  | Locally Nb                  |
| 105  | <i>Anthriscus caucalis</i> | Bur Parsley       | SO830811 | Blakeshall                  | 15/03/98   | 2 plants on gravel driveway  | Locally Nb                  |

| No  | Scientific Name            | Common Name          | Grid Ref | Location Name              | Date     | Comments                                   | Status          |
|-----|----------------------------|----------------------|----------|----------------------------|----------|--|-----------------|
| 91  | <i>Anthriscus caucalis</i> | Bur Parsley          | SO825808 | Solcum Farm                | 29/03/98 | A few plants in a hedgerow                 | Locally Nb      |
| 797 | <i>Berula erecta</i>       | Lesser Water-parsnip | SO841780 | Broadwaters                | 10/06/94 | A few plants by stream                     | Locally Nb      |
| 785 | <i>Berula erecta</i>       | Lesser Water-parsnip | SO840779 | Broadwaters, Kidderminster | 10/06/94 | 1 or 2 plants by stream                    | Locally Nb      |
| 770 | <i>Berula erecta</i>       | Lesser Water-parsnip | SO839779 | Broadwaters, Kidderminster | 12/08/95 | A few plants on edge of stream             | Locally Nb      |
| 32  | <i>Berula erecta</i>       | Lesser Water-parsnip | SO8577   | Hurcott Carr               | 09/06/98 | WWT Wetlands Survey                        | Locally Nb      |
| 871 | <i>Berula erecta</i>       | Lesser Water-parsnip | SO846779 | Podmore Pool & Carr        | 03/07/98 | Pool swamp                                 | Locally Nb      |
| 557 | <i>Berula erecta</i>       | Lesser Water-parsnip | SO828777 | Puxton Marsh               | 17/08/98 | Cmpt A - Alder / willow copse              | Locally Nb      |
| 330 | <i>Berula erecta</i>       | Lesser Water-parsnip | SO817773 | Blake Marsh                | 18/08/98 | WWT Wetlands Survey                        | Locally Nb      |
| 853 | <i>Berula erecta</i>       | Lesser Water-parsnip | SO845780 | Podmore Pool & Carr        | 03/09/04 | Carr wood tributary valley                 | Locally Nb      |
| 871 | <i>Berula erecta</i>       | Lesser Water-parsnip | SO846779 | Podmore Pool & Carr        | 03/09/04 | Swamp                                      | Locally Nb      |
| 943 | <i>Berula erecta</i>       | Lesser Water-parsnip | SO852778 | Hurcott Pool               | 17/09/04 | Backmarsh S shore                          | Locally Nb      |
| 5   | <i>Berula erecta</i>       | Lesser Water-parsnip | SO8580   | Island Pool                | 28/01/05 |  | Locally Nb      |
| 557 | <i>Bidens cernua</i>       | Nodding Bur-marigold | SO828777 | Puxton Marsh               | 17/08/98 | Cmpt A - Core swampy area                  | Locally Nb      |
| 871 | <i>Bidens cernua</i>       | Nodding Bur-marigold | SO846779 | Podmore Pool & Carr        | 03/09/04 | Swamp                                      | Locally Nb      |
| 871 | <i>Bidens tripartita</i>   | Trifid Bur-marigold  | SO846779 | Podmore Pool & Carr        | 03/09/04 | Swamp                                      | Locally Nb      |
| 146 | <i>Blechnum spicant</i>    | Hard Fern            | SO806797 | Parkatt Wood Cliff         | 19/04/03 |  | Locally Nb      |
| 120 | <i>Buxus sempervirens</i>  | Box                  | SO835801 | Gloucester Coppice         | 12/06/07 |  | Nationally Rare |
| 79  | <i>Calluna vulgaris</i>    | Heather              | SO821815 | Kingsford Farm             | 26/08/93 | Patch on grassy verge of footpath          | Locally Nb      |
| 183 | <i>Calluna vulgaris</i>    | Heather              | SO808798 | Cornhill Coppice           | 22/04/94 | Fair sized patch in acid woodland          | Locally Nb      |
| 656 | <i>Calluna vulgaris</i>    | Heather              | SO831775 | Larkhill, Kidderminster    | 14/05/94 | Sizeable patch on acid heathy waste ground | Locally Nb      |
| 66  | <i>Calluna vulgaris</i>    | Heather              | SO818803 | Drakelow Lane, Wolverley   | 12/03/03 | Sandstone outcrop E side                   | Locally Nb      |

| No  | Scientific Name            | Common Name          | Grid Ref | Location Name                              | Date     | Comments   | Status   |
|-----|----------------------------|----------------------|----------|--|----------|--|--|
| 739 | <i>Campanula latifolia</i> | Giant Bellflower     | SO836796 | Wolverley                                  | 11/05/92 | Alder wood between canal and Stour - small patch in wood & large clump on river bank | Locally Nb   |
| 122 | <i>Campanula patula</i>    | Spreading Bellflower | SO835813 | Blakeshall                                 | Jul-93   | 12 plants in sandy set-aside   | NERC s.41 UKBAP<br>Locally Nb Nationally<br>Scarce |
| 113 | <i>Campanula patula</i>    | Spreading Bellflower | SO833809 | Snake Lane,<br>Blakeshall                  | 06/08/93 | 1 plant in arable  | NERC s.41 UKBAP<br>Locally Nb Nationally<br>Scarce |
| 121 | <i>Campanula patula</i>    | Spreading Bellflower | SO835805 | Debdale                                    | 23/07/02 | 4 or 5 plants in bracken on south slope of dry sandstone valley                      | NERC s.41 UKBAP<br>Locally Nb Nationally<br>Scarce |
| 479 | <i>Cardamine amara</i>     | Large Bitter-cress   | SO825795 | Drakelow Marsh,<br>Wolverley               | 12/05/92 | Scattered - shaded streamside  | Locally Nb   |
| 884 | <i>Cardamine amara</i>     | Large Bitter-cress   | SO847778 | Between Hurcott &<br>Podmore Pools         | 11/05/93 | Frequent in alder carr   | Locally Nb   |
| 690 | <i>Cardamine amara</i>     | Large Bitter-cress   | SO833778 | NE of Limekiln<br>Bridge,<br>Kidderminster | 14/05/94 | Good colony on shaded canal bank   | Locally Nb   |
| 853 | <i>Cardamine amara</i>     | Large Bitter-cress   | SO845780 | Podmore Pool                               | 14/07/94 | Scarce on pool margins   | Locally Nb   |
| 416 | <i>Cardamine amara</i>     | Large Bitter-cress   | SO822799 | nr Bayhorse Farm,<br>Wolverley             | 08/05/95 | Single colony; damp woodland by stream   | Locally Nb   |
| 748 | <i>Cardamine amara</i>     | Large Bitter-cress   | SO837797 | Lea Lane,<br>Wolverley                     | 08/05/95 | Damp woodland between canal and Stour  | Locally Nb   |
| 37  | <i>Cardamine amara</i>     | Large Bitter-cress   | SO8678   | Hurcott Carr                               | 09/06/98 | <i>Alnus</i> carr community 1b   | Locally Nb   |
| 32  | <i>Cardamine amara</i>     | Large Bitter-cress   | SO8577   | Hurcott Carr                               | 09/06/98 | WWT Wetlands Survey  | Locally Nb   |
| 901 | <i>Cardamine amara</i>     | Large Bitter-cress   | SO848778 | Podmore Pool &<br>Carr                     | 03/07/98 | Carr   | Locally Nb   |
| 557 | <i>Cardamine amara</i>     | Large Bitter-cress   | SO828777 | Puxton Marsh                               | 17/08/98 | Cmpt A - Alder / willow copse  | Locally Nb   |
| 748 | <i>Cardamine amara</i>     | Large Bitter-cress   | SO837797 | Wolverley Carr                             | 12/10/98 | WWT Wetlands Survey  | Locally Nb   |
| 870 | <i>Cardamine amara</i>     | Large Bitter-cress   | SO846778 | Podmore Pool &<br>Carr                     | 03/09/04 | Carr / swamp transition  | Locally Nb   |
| 968 | <i>Carex acuta</i>         | Slender Tufted-sedge | SO854778 | Hurcott Pool                               | 2001     | A few plants in tall-sedge carr community (recorded here in 1978)                    | Locally Nb   |
| 658 | <i>Carex disticha</i>      | Brown Sedge          | SO831784 | Stourvale Marsh                            | 25/06/95 | Dried out marsh E of canal - frequent  | Locally Nb   |
| 658 | <i>Carex disticha</i>      | Brown Sedge          | SO831784 | Wolverley Court<br>Lock Carr               | 27/08/98 | Marsh / swamp  | Locally Nb   |
| 658 | <i>Carex disticha</i>      | Brown Sedge          | SO831784 | Wolverley Court<br>Lock Carr               | 11/06/02 | Locally common; marsh  | Locally Nb   |

| No   | Scientific Name                                  | Common Name           | Grid Ref | Location Name                      | Date     | Comments                                   | Status     |
|------|--|-----------------------|----------|------------------------------------|----------|--|------------|
| 871  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO846779 | Podmore                            | 1996     | Sandy grassland                            | Locally Nb |
| 562  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO828793 | Wolverley Church                   | 11/05/92 | Rare in mown acid grassland                | Locally Nb |
| 1046 | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO861798 | nr Whitehouse Farm, Ismere         | 03/05/93 | 2 or 3 plants in sandy hedgebank           | Locally Nb |
| 904  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO848794 | Lea Castle                         | 29/06/93 | 1 plant on pathside                        | Locally Nb |
| 135  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO841804 | Cookley                            | 26/08/93 | Single plant by path at back of steelworks | Locally Nb |
| 833  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO844761 | Hillgrove Crescent, Kidderminster  | 09/06/94 | 3 plants in pavement                       | Locally Nb |
| 942  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO852776 | Hurcott                            | 09/06/94 | A few plants in hedgebank                  | Locally Nb |
| 276  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO813794 | Honeytop Farm                      | 11/05/95 | Locally frequent in sandy pasture          | Locally Nb |
| 561  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO828792 | B4189 / B4190 junction at Wolverly | 25/06/95 | Several plants; sandstone face             | Locally Nb |
| 1019 | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO859799 | The Gorse                          | 22/06/98 | 1 clump in sandy scrub                     | Locally Nb |
| 873  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO846781 | Kendlewood Rd, Broadwater          | 22/06/98 | 2 clumps on house driveway                 | Locally Nb |
| 925  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO850779 | Hurcott Pasture E                  | 28/01/05 |  | Locally Nb |
| 902  | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO848779 | Hurcott Pasture W                  | 28/01/05 |  | Locally Nb |
| 49   | <i>Carex muricata</i> ssp.<br><i>lamprocarpa</i> | Prickly Sedge         | SO811803 | Horsleyhills Farm                  | 09/02/06 | Sandstone bank N side of lane              | Locally Nb |
| 508  | <i>Carex nigra</i>                               | Common Sedge          | SO826794 | Drakelow Marsh, Wolverley          | 11/05/92 |  | Locally Nb |
| 628  | <i>Carex nigra</i>                               | Common Sedge          | SO830794 | Wolverley Marsh                    | 25/06/95 | Frequent                                   | Locally Nb |
| 534  | <i>Carex nigra</i>                               | Common Sedge          | SO827778 | Puxton Marsh                       | 26/06/95 | Large stands                               | Locally Nb |
| 557  | <i>Carex nigra</i>                               | Common Sedge          | SO828777 | Puxton Marsh                       | 17/08/98 | Cmpt A - Core swampy area                  | Locally Nb |
| 555  | <i>Carex nigra</i>                               | Common Sedge          | SO828772 | Puxton Marsh                       | 26/08/98 | Community 1 - tall-herb fen                | Locally Nb |
| 180  | <i>Carex paniculata</i>                          | Greater Tussock-sedge | SO856802 | Island Pool                        | 2002     | Carr & marsh - still present               | Locally Nb |
| 853  | <i>Carex paniculata</i>                          | Greater Tussock-sedge | SO845780 | Podmore Pool & Carr                | 2000     |  | Locally Nb |

| No  | Scientific Name            | Common Name           | Grid Ref   | Location Name                   | Date            | Comments                                       | Status     |
|-----|----------------------------|-----------------------|------------|---------------------------------|-----------------|--|------------|
| 884 | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO847778   | Between Hurcott & Podmore Pools | 11/05/93        | Local in alder carr                            | Locally Nb |
| 660 | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO831795   | Edge of Gloucester Coppice      | 08/05/95        | Single tussock by stagnant pool                | Locally Nb |
| 37  | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO8678     | Hurcott Carr                    | 09/06/98        | WWT Wetlands Survey                            | Locally Nb |
| 32  | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO8577     | Hurcott Carr                    | 09/06/98        | WWT Wetlands Survey                            | Locally Nb |
| 871 | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO846779   | Podmore Pool & Carr             | 03/07/98        | Pool swamp                                     | Locally Nb |
| 901 | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO848778   | Podmore Pool & Carr             | 03/07/98        | Carr   | Locally Nb |
| 557 | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO828777   | Puxton Marsh                    | 17/08/98        | Cmpt A - Alder / willow copse                  | Locally Nb |
| 532 | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO827774   | Puxton Marsh                    | 26/08/98        | WWT Wetlands Survey                            | Locally Nb |
| 671 | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO832779   | Stourvale Marsh                 | Aug - Sept 1998 | <i>Carex acutiformis</i> stand                 | Locally Nb |
| 628 | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO830794   | Wolverley Mdws                  | 08/09/98        | WWT Wetlands Survey                            | Locally Nb |
| 944 | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO852779   | Hurcott Pool                    | 17/09/04        | Frequent along N shore                         | Locally Nb |
| 167 | <i>Carex paniculata</i>    | Greater Tussock-sedge | SO85458037 | Island Pool                     | 28/01/05        | 4 tussocks; NW bay                             | Locally Nb |
| 872 | <i>Carex pseudocyperus</i> | Cyperus Sedge         | SO846780   | By Podmore Pool                 | 14/07/94        | A few plants                                   | Locally Nb |
| 37  | <i>Carex pseudocyperus</i> | Cyperus Sedge         | SO8678     | Hurcott Carr                    | 09/06/98        | WWT Wetlands Survey                            | Locally Nb |
| 32  | <i>Carex pseudocyperus</i> | Cyperus Sedge         | SO8577     | Hurcott Pool                    | 09/06/98        | WWT Wetlands Survey                            | Locally Nb |
| 902 | <i>Carex pseudocyperus</i> | Cyperus Sedge         | SO848779   | Hurcott Carr                    | 09/06/98        | Recent coppice <i>alnus</i>                    | Locally Nb |
| 901 | <i>Carex pseudocyperus</i> | Cyperus Sedge         | SO848778   | Podmore Pool & Carr             | 03/07/98        | Carr   | Locally Nb |
| 871 | <i>Carex pseudocyperus</i> | Cyperus Sedge         | SO846779   | Podmore Pool & Carr             | 03/07/98        | Pool swamp                                     | Locally Nb |
| 557 | <i>Carex pseudocyperus</i> | Cyperus Sedge         | SO828777   | Puxton Marsh                    | 17/08/98        | Cmpt A - Alder / willow copse                  | Locally Nb |
| 532 | <i>Carex pseudocyperus</i> | Cyperus Sedge         | SO827774   | Puxton Marsh                    | 26/08/98        | WWT Wetlands Survey                            | Locally Nb |
| 672 | <i>Carex pseudocyperus</i> | Cyperus Sedge         | SO832780   | Stourvale Marsh                 | Aug - Sept 1998 | Small area in <i>Arrhenatherum elatius</i> fen | Locally Nb |
| 853 | <i>Carex pseudocyperus</i> | Cyperus Sedge         | SO845780   | Podmore Pool & Carr             | 03/09/04        | Carr wood tributary valley                     | Locally Nb |



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|------|--------------------------------|----------------------|------------|-------------------------------|----------|--|------------|
| 871  | <i>Carex pseudocyperus</i>     | Cyperus Sedge        | SO846779   | Podmore Pool & Carr           | 03/09/04 | Swamp  | Locally Nb |
| 944  | <i>Carex pseudocyperus</i>     | Cyperus Sedge        | SO852779   | Hurcott Pool                  | 17/09/04 | Frequent along N shore                             | Locally Nb |
| 173  | <i>Carex pseudocyperus</i>     | Cyperus Sedge        | SO85568026 | Island Pool                   | 28/01/05 |  | Locally Nb |
| 838  | <i>Carex vesicaria</i>         | Bladder-sedge        | SO84567791 | Podmore Pool & Carr           | 03/09/04 | Stand over 5-10m; S shore                          | Locally Nb |
| 1018 | <i>Carlina vulgaris</i>        | Carlina Thistle      | SO859798   | The Gorse, Ismere             | 25/06/92 | Acid unimproved pasture - scarce (<100 plants)     | Locally Nb |
| 694  | <i>Carpinus betulus</i>        | Hornbeam             | SO833796   | Gloucester Coppice, Wolverley | 11/05/92 | Sycamore / yew plantation - naturalised, scattered | Locally Nb |
| 874  | <i>Carpinus betulus</i>        | Hornbeam             | SO846790   | Cookley                       | 25/05/92 | Several trees on roadside verge                    | Locally Nb |
| 350  | <i>Carpinus betulus</i>        | Hornbeam             | SO818794   | Lowe Lane, Fairfield          | 04/06/02 | Hedge - established from plantings (E)             | Locally Nb |
| 562  | <i>Cerastium arvense</i>       | Field Mouse-Ear      | SO828793   | Wolverley Parish Church       | 11/05/92 | Locally frequent in mown grass                     | Locally Nb |
| 932  | <i>Cerastium arvense</i>       | Field Mouse-Ear      | SO851779   | Hurcott                       | 11/05/93 | Large colony scattered over sandy pasture          | Locally Nb |
| 363  | <i>Cerastium arvense</i>       | Field Mouse-Ear      | SO819797   | B4189, Lowe Lane, Fairfield   | 22/04/94 | Small patch on grass verge nr junction             | Locally Nb |
| 275  | <i>Cerastium arvense</i>       | Field Mouse-Ear      | SO813786   | Honeytop Farm                 | 11/05/95 | Locally frequent in sandy pasture                  | Locally Nb |
| 888  | <i>Cerastium diffusum</i>      | Dark-Green Mouse-Ear | SO847786   | A449, Lea Castle              | 30/04/92 | Central reservation - locally frequent             | Locally Nb |
| 507  | <i>Cerastium diffusum</i>      | Dark-Green Mouse-Ear | SO826793   | By B4189, Wolverley           | 08/05/93 | Sandy roadside verge - locally frequent            | Locally Nb |
| 719  | <i>Cerastium diffusum</i>      | Dark-Green Mouse-Ear | SO835760   | Kidderminster ring road       | 19/05/94 | Bare patches of verge - occasional (to SO834767)   | Locally Nb |
| 1017 | <i>Cerastium semidecandrum</i> | Little Mouse-ear     | SO859793   | Axborough                     | 30/04/92 | Occasional; sandy hedgebank                        | Locally Nb |
| 888  | <i>Cerastium semidecandrum</i> | Little Mouse-ear     | SO847786   | A449, Lea Castle              | 30/04/92 | Frequent in central reservation                    | Locally Nb |
| 627  | <i>Cerastium semidecandrum</i> | Little Mouse-ear     | SO830792   | Lock Inn, Wolverley           | 11/05/92 | Mown grassland on sandy soil - frequent            | Locally Nb |
| 1029 | <i>Cerastium semidecandrum</i> | Little Mouse-ear     | SO860798   | Ismere                        | 03/05/93 | Frequent in sandy unimproved pasture               | Locally Nb |
| 562  | <i>Cerastium semidecandrum</i> | Little Mouse-ear     | SO828793   | Wolverley Church              | 08/05/93 | Mown grass on sandy soil - locally frequent        | Locally Nb |
| 930  | <i>Cerastium semidecandrum</i> | Little Mouse-ear     | SO851773   | A456, Offmore                 | 11/05/93 | 4 or 5 in cracks in tarmac                         | Locally Nb |

| No  | Scientific Name                     | Common Name                       | Grid Ref   | Location Name                   | Date     | Comments  | Status                       |
|-----|-------------------------------------|-----------------------------------|------------|---------------------------------|----------|---|------------------------------|
| 902 | <i>Cerastium semidecandrum</i>      | Little Mouse-ear                  | SO848779   | Hurcott                         | 11/05/93 | Frequent, sandy pasture   | Locally Nb                   |
| 276 | <i>Cerastium semidecandrum</i>      | Little Mouse-ear                  | SO813794   | Honeytop Farm                   | 11/05/95 | Sandy pasture - locally frequent  | Locally Nb                   |
| 933 | <i>Cerastium semidecandrum</i>      | Little Mouse-ear                  | SO851780   | Hurcott                         | 04/06/97 | Edge of sandy pasture - locally common  | Locally Nb                   |
| 562 | <i>Ceratocapnos claviculata</i>     | Climbing Corydalis                | SO828793   | Wolverley                       | 11/05/92 | Frequent in oakwood below church & sandstone cliffs above public house car park | Locally Nb                   |
| 202 | <i>Ceratocapnos claviculata</i>     | Climbing Corydalis                | SO809786   | Hollies Farm                    | 22/04/94 | Small patch; sandstone rocks  | Locally Nb                   |
| 562 | <i>Ceratocapnos claviculata</i>     | Climbing Corydalis                | SO828793   | SO87 tetrad J                   | 11/06/02 | Still frequent here   | Locally Nb                   |
| 175 | <i>Chara globularis</i>             | Fragile Stonewort                 | SO855803   | Island Pool                     | 20/07/03 |   | Locally Nb                   |
| 346 | <i>Chrysanthemum segetum</i>        | Corn Marigold                     | SO818764   | Pineridge Drive, Kidderminster  | 24/07/02 | 1 plant on disturbed ground   | Locally Nb                   |
| 884 | <i>Chrysosplenium alternifolium</i> | Alternate-leaved Golden-saxifrage | SO847778   | Between Hurcott & Podmore Pools | 11/05/93 | Locally frequent in alder carr  | Locally Nb                   |
| 37  | <i>Chrysosplenium alternifolium</i> | Alternate-leaved Golden-saxifrage | SO8678     | Hurcott Carr                    | 09/06/98 | <i>Alnus</i> carr community 1b  | Locally Nb                   |
| 748 | <i>Chrysosplenium alternifolium</i> | Alternate-leaved Golden-saxifrage | SO837797   | Wolverley Carr                  | 12/10/98 | WWT Wetlands Survey   | Locally Nb                   |
| 853 | <i>Cicuta virosa</i>                | Cowbane                           | SO845780   | By Podmoor Pool                 | 14/07/94 | 2 or 3 plants in reed-swamp   | Locally Scarce Nb Nationally |
| 892 | <i>Cicuta virosa</i>                | Cowbane                           | SO84797788 | Podmore Pool                    | 03/07/98 | DAFOR; O  | Locally Scarce Nb Nationally |
| 871 | <i>Cicuta virosa</i>                | Cowbane                           | SO846779   | Podmore Pool & Carr             | 03/07/98 | WWT Wetlands Survey. DAFOR; O - pool swamp                                      | Locally Scarce Nb Nationally |
| 969 | <i>Cicuta virosa</i>                | Cowbane                           | SO854779   | Podmore Pool                    | 18/07/02 |   | Locally Scarce Nb Nationally |
| 853 | <i>Cicuta virosa</i>                | Cowbane                           | SO845780   | Podmore Pool                    | 18/07/02 | DAFOR; O - Aquatic Habitat  | Locally Scarce Nb Nationally |
| 969 | <i>Cicuta virosa</i>                | Cowbane                           | SO854779   | Hurcott & Podmore Pools         | 03/09/04 |   | Locally Scarce Nb Nationally |
| 853 | <i>Cicuta virosa</i>                | Cowbane                           | SO845780   | Podmore Pool & Carr             | 03/09/04 | DAFOR; O. Margin & reedswamp N shore  | Locally Scarce Nb Nationally |
| 852 | <i>Cicuta virosa</i>                | Cowbane                           | SO845779   | Podmore Pool & Carr             | 03/09/04 | DAFOR; LA. S shore & swamp  | Locally Scarce Nb Nationally |
| 870 | <i>Cicuta virosa</i>                | Cowbane                           | SO846778   | Podmore Pool & Carr             | 03/09/04 | DAFOR; LD, marginal swamp   | Locally Scarce Nb Nationally |

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|------|----------------------------------|-----------------------|------------|-----------------------------------|----------|---|------------------------------|
| 872  | <i>Cicuta virosa</i>             | Cowbane               | SO846780   | Podmore Pool & Carr               | 03/09/04 | DAFOR; LF. N shore edge, willow carr                  | Locally Scarce Nb Nationally |
| 871  | <i>Cicuta virosa</i>             | Cowbane               | SO846779   | Podmore Pool & Carr               | 03/09/04 | DAFOR; LD, marginal swamp                             | Locally Scarce Nb Nationally |
| 816  | <i>Cicuta virosa</i>             | Cowbane               | SO843779   | Podmore Pool & Carr               | 03/09/04 | Dam wall / spillway; 1                                | Locally Scarce Nb Nationally |
| 835  | <i>Cicuta virosa</i>             | Cowbane               | SO844780   | Podmore Pool & Carr               | 03/09/04 | DAFOR; O. Reeds swamp N shore                         | Locally Scarce Nb Nationally |
| 834  | <i>Cicuta virosa</i>             | Cowbane               | SO844779   | Podmore Pool & Carr               | 03/09/04 | DAFOR; LF. S shore & swamp                            | Locally Scarce Nb Nationally |
| 818  | <i>Cicuta virosa</i>             | Cowbane               | SO843780   | Podmore Pool & Carr               | 03/09/04 | DAFOR; R - dam wall                                   | Locally Scarce Nb Nationally |
| 820  | <i>Cicuta virosa</i>             | Cowbane               | SO84387798 | Podmore Pool & Carr               | 03/09/04 | Walls of overflow by mill race; 1                     | Locally Scarce Nb Nationally |
| 314  | <i>Cirsium dissectum</i>         | Meadow Thistle        | SO816772   | Blakemarsh                        | 16/08/07 | DAFOR; O  | Locally Nb                   |
| 204  | <i>Clinopodium ascendens</i>     | Common Calamint       | SO809795   | A442 / B4189 junc. NW of Honeytop | 22/04/94 | Locally frequent in sandy hedgebank - long known here | Locally Nb                   |
| 182  | <i>Clinopodium ascendens</i>     | Common Calamint       | SO808796   | By A442 NW of Honeytop            | 22/04/94 | Scattered plants on sandstone rock                    | Locally Nb                   |
| 535  | <i>Convallaria majalis</i>       | Lily of The Valley    | SO827793   | Wolverley Church                  | 11/06/01 | Small patch in churchyard                             | Locally Nb                   |
| 71   | <i>Convallaria majalis</i>       | Lily of The Valley    | SO820808   | Kingsford Heath                   | 12/06/07 | DAFOR; R  | Locally Nb                   |
| 1066 | <i>Cruciata laevipes</i>         | Crosswort             | SO863783   | Wannerton                         | 03/05/93 | W bank of lane next to Hurcott Wood - 3 patches       | Locally Nb                   |
| 292  | <i>Cynoglossum officinale</i>    | Hound's-tongue        | SO814791   | Honeytop Farm                     | 11/05/95 | Frequent in sandy pasture to SO813794                 | Locally Nb                   |
| 166  | <i>Cyperus longus</i>            | Galingale             | SO853806   | Caunsall Marsh                    | 06/12/07 |   | Nationally Scarce            |
| 626  | <i>Dactylorhiza praetermissa</i> | Southern Marsh-orchid | SO830785   | Wolverley Court Lock Mdw          | 1998     |   | Locally Nb                   |
| 347  | <i>Dactylorhiza praetermissa</i> | Southern Marsh-orchid | SO818773   | Blake Marsh                       | 2001     |   | Locally Nb                   |
| 658  | <i>Dactylorhiza praetermissa</i> | Southern Marsh-orchid | SO831784   | Wolverley Court Lock Mdw          | 11/05/92 | c.50 plants   | Locally Nb                   |
| 505  | <i>Dactylorhiza praetermissa</i> | Southern Marsh-orchid | SO826785   | Stourvale Marsh                   | 25/06/95 | 500+ plants; W of canal & river                       | Locally Nb                   |
| 708  | <i>Dactylorhiza praetermissa</i> | Southern Marsh-orchid | SO834783   | Below Sion Hill                   | 25/06/95 | c.20 plants in small marsh on edge of carr            | Locally Nb                   |
| 534  | <i>Dactylorhiza praetermissa</i> | Southern Marsh-orchid | SO827778   | Puxton Marsh                      | 26/06/95 | 400-500 plants  | Locally Nb                   |

| No   | Scientific Name                               | Common Name           | Grid Ref | Location Name                 | Date       | Comments  | Status                       |
|------|---|-----------------------|----------|-------------------------------|------------|---|------------------------------|
| 557  | <i>Dactylorhiza praetermissa</i>              | Southern Marsh-orchid | SO828777 | Puxton Marsh                  | 17/08/98   | Cmpt A - various  | Locally Nb                   |
| 555  | <i>Dactylorhiza praetermissa</i>              | Southern Marsh-orchid | SO828772 | Puxton Marsh                  | 26/08/98   | Community 1 - tall-herb fen                                   | Locally Nb                   |
| 556  | <i>Dactylorhiza praetermissa</i>              | Southern Marsh-orchid | SO828773 | Puxton Marsh                  | 26/08/98   | Community 2 - <i>Filipendula</i> / <i>Angelica</i>            | Locally Nb                   |
| 505  | <i>Dactylorhiza praetermissa</i>              | Southern Marsh-orchid | SO826785 | Stourvale Marsh               | 11/06/02   | Still frequent (to SO827785)                                  | Locally Nb                   |
| 658  | <i>Dactylorhiza praetermissa</i>              | Southern Marsh-orchid | SO831784 | Wolverley Court Lock Mdw      | 11/06/02   | Still scattered plants to SO831785                            | Locally Nb                   |
| 27   | <i>Dactylorhiza praetermissa</i>              | Southern Marsh-orchid | SO8477   | Kidderminster                 | 19/06/2010 |   | Locally Nb                   |
| 1018 | <i>Danthonia decumbens</i>                    | Heath-grass           | SO859798 | The Gorse, Ismere             | 25/06/92   | Acid unimproved pasture - scarce                              | Locally Nb                   |
| 1019 | <i>Danthonia decumbens</i>                    | Heath-grass           | SO859799 | Whitehouse Bank, The Gorse    | 05/07/96   | Bank in unimproved pasture                                    | Locally Nb                   |
| 131  | <i>Deschampsia flexuosa</i>                   | Wavy Hair-grass       | SO840802 | Debdale Lock                  | 1993       | sandstone bank above canal                                    | Locally Nb                   |
| 15   | <i>Deschampsia flexuosa</i>                   | Wavy Hair-grass       | SO8579   | SO87 tetrad P                 | 1992       |   | Locally Nb                   |
| 10   | <i>Deschampsia flexuosa</i>                   | Wavy Hair-grass       | SO8379   | SO87 tetrad J                 | 1993       |   | Locally Nb                   |
| 66   | <i>Deschampsia flexuosa</i>                   | Wavy Hair-grass       | SO818803 | Drakelow Lane, Wolverley      | 12/03/03   | Sandstone outcrop E side                                      | Locally Nb                   |
| 83   | <i>Deschampsia flexuosa</i>                   | Wavy Hair-grass       | SO823815 | Kingsford Country Park        | 12/03/03   | by road   | Locally Nb                   |
| 130  | <i>Deschampsia flexuosa</i>                   | Wavy Hair-grass       | SO840801 | Staffs & Worcs Canal          | 28/01/05   | Cliff adj Debdale Lock  | Locally Nb                   |
| 126  | <i>Deschampsia flexuosa</i>                   | Wavy Hair-grass       | SO839801 | Cookley Banks POS             | 28/01/05   | Cliff   | Locally Nb                   |
| 981  | <i>Dianthus deltoides</i>                     | Maiden Pink           | SO855788 | Lea Castle                    | 27/06/93   | Set-aside arable - 1 plant also in 1994 (field ploughed 1996) | Locally Nb Nationally Scarce |
| 63   | <i>Dipsacus pilosus</i>                       | Small Teasel          | SO817810 | lane to Little Kingsford Farm | 30/08/93   | 2 plants on shaded streamside                                 | Locally Nb                   |
| 72   | <i>Dipsacus pilosus</i>                       | Small Teasel          | SO820810 | Kingsford Lane                | 22/10/95   | Lane verge nr caravan park                                    | Locally Nb                   |
| 277  | <i>Dryopteris affinis</i> ssp. <i>affinis</i> | a buckler-fern        | SO813798 | N of B4189                    | 22/04/94   | Wooded bank of sandstone scarp - very locally frequent        | Locally Nb                   |
| 73   | <i>Dryopteris carthusiana</i>                 | Narrow Buckler-fern   | SO820813 | Kingsford                     | 1993       | Wooded streamside   | Locally Nb                   |
| 182  | <i>Dryopteris carthusiana</i>                 | Narrow Buckler-fern   | SO856809 | A449 nr Caunsall              | 1993       | LF in strip of damp woodland                                  | Locally Nb                   |
| 28   | <i>Dryopteris carthusiana</i>                 | Narrow Buckler-fern   | SO8478   | Podmore Pool & Carr           | 2000       |   | Locally Nb                   |

| No  | Scientific Name               | Common Name         | Grid Ref | Location Name              | Date            | Comments   | Status     |
|-----|-------------------------------|---------------------|----------|----------------------------|-----------------|--|------------|
| 748 | <i>Dryopteris carthusiana</i> | Narrow Buckler-fern | SO837797 | N of Wolverley Lodge       | 11/05/92        | Local in alder carr                                | Locally Nb |
| 692 | <i>Dryopteris carthusiana</i> | Narrow Buckler-fern | SO833783 | Broadwaters, Kidderminster | 14/05/94        | Scattered plants in carr                           | Locally Nb |
| 306 | <i>Dryopteris carthusiana</i> | Narrow Buckler-fern | SO815773 | Blakebrook                 | 11/06/95        | Several plants, damp woodland                      | Locally Nb |
| 37  | <i>Dryopteris carthusiana</i> | Narrow Buckler-fern | SO8678   | Hurcott Carr               | 09/06/98        | <i>Alnus</i> carr community 1b                     | Locally Nb |
| 902 | <i>Dryopteris carthusiana</i> | Narrow Buckler-fern | SO848779 | Hurcott Carr               | 09/06/98        | Recent coppice <i>alnus</i>                        | Locally Nb |
| 557 | <i>Dryopteris carthusiana</i> | Narrow Buckler-fern | SO828777 | Puxton Marsh               | 17/08/98        | Cmpt A - Alder / willow copse                      | Locally Nb |
| 692 | <i>Dryopteris carthusiana</i> | Narrow Buckler-fern | SO833783 | Wolverley Court Lock Carr  | 27/08/98        | Willow woodland                                    | Locally Nb |
| 870 | <i>Dryopteris carthusiana</i> | Narrow Buckler-fern | SO846778 | Podmore Pool & Carr        | 03/09/04        | Carr / swamp transition                            | Locally Nb |
| 505 | <i>Epilobium palustre</i>     | Marsh Willowherb    | SO826785 | Stourvale Marsh            | 25/06/95        | Frequent   | Locally Nb |
| 534 | <i>Epilobium palustre</i>     | Marsh Willowherb    | SO827778 | Puxton Marsh               | 26/06/95        | Occasional   | Locally Nb |
| 557 | <i>Epilobium palustre</i>     | Marsh Willowherb    | SO828777 | Puxton Marsh               | 17/08/98        | Cmpt A - Core swampy area                          | Locally Nb |
| 555 | <i>Epilobium palustre</i>     | Marsh Willowherb    | SO828772 | Puxton Marsh               | 26/08/98        | Community 1 - tall-herb fen                        | Locally Nb |
| 556 | <i>Epilobium palustre</i>     | Marsh Willowherb    | SO828773 | Puxton Marsh               | 26/08/98        | Community 2 - <i>Filipendula</i> / <i>Angelica</i> | Locally Nb |
| 658 | <i>Epilobium palustre</i>     | Marsh Willowherb    | SO831784 | Wolverley Court Lock Carr  | 27/08/98        | Marsh / swamp                                      | Locally Nb |
| 15  | <i>Equisetum fluviatile</i>   | Water Horsetail     | SO8579   | SO87 tetrad P              | 1992            |  | Locally Nb |
| 901 | <i>Equisetum fluviatile</i>   | Water Horsetail     | SO848778 | Podmore Pool & Carr        | 03/07/98        | Carr   | Locally Nb |
| 557 | <i>Equisetum fluviatile</i>   | Water Horsetail     | SO828777 | Puxton Marsh               | 17/08/98        | Cmpt A - Alder / willow copse                      | Locally Nb |
| 555 | <i>Equisetum fluviatile</i>   | Water Horsetail     | SO828772 | Puxton Marsh               | 26/08/98        | Community 1 - tall-herb fen                        | Locally Nb |
| 556 | <i>Equisetum fluviatile</i>   | Water Horsetail     | SO828773 | Puxton Marsh               | 26/08/98        | Community 2 - <i>Filipendula</i> / <i>Angelica</i> | Locally Nb |
| 671 | <i>Equisetum fluviatile</i>   | Water Horsetail     | SO832779 | Stourvale Marsh            | Aug - Sept 1998 | <i>Carex acutiformis</i> stand                     | Locally Nb |
| 628 | <i>Equisetum fluviatile</i>   | Water Horsetail     | SO830794 | Wolverley Mdws             | 08/09/98        | WWT Wetlands Survey                                | Locally Nb |
| 83  | <i>Erica cinerea</i>          | Bell Heather        | SO823815 | Kingsford Country Park     | 12/03/03        | by road  | Locally Nb |
| 117 | <i>Erigeron acer</i>          | Blue Fleabane       | SO834813 | Blakeshall                 | 06/08/93        | Single plant; sandy set-aside                      | Locally Nb |
| 224 | <i>Erophila majuscula</i>     | Hairy Whitlowgrass  | SO810795 | B4189, N of Honeybrook     | 14/05/04        | Small patch; road verge                            | Locally Nb |

| No   | Scientific Name                  | Common Name        | Grid Ref   | Location Name                       | Date       | Comments  | Status                       |
|------|----------------------------------|--------------------|------------|-------------------------------------|------------|---|------------------------------|
| 982  | <i>Filago minima</i>             | Small Cudweed      | SO855791   | Lea Castle                          | 29/06/92   | Scattered / local in set-aside arable                     | Locally Nb                   |
| 117  | <i>Filago minima</i>             | Small Cudweed      | SO834813   | Blakeshall                          | 06/06/93   | Single large plant in sandy set-aside                     | Locally Nb                   |
| 982  | <i>Filago vulgaris</i>           | Common Cudweed     | SO855791   | Lea Castle                          | 29/06/92   | Set-aside arable - 3 or 4                                 | Locally Nb                   |
| 117  | <i>Filago vulgaris</i>           | Common Cudweed     | SO834813   | Blakeshall                          | 06/08/93   | 1 large plant in set-aside                                | Locally Nb                   |
| 274  | <i>Filago vulgaris</i>           | Common Cudweed     | SO813785   | Honeytop Farm                       | 11/05/95   | Sandy pasture - scattered plants                          | Locally Nb                   |
| 187  | <i>Filago vulgaris</i>           | Common Cudweed     | SO857807   | Sleepy Mill,<br>Caunsall            | Sep-97     | 1 large plant in set-aside                                | Locally Nb                   |
| 934  | <i>Filago vulgaris</i>           | Common Cudweed     | SO851781   | Hurcott                             | Jul-98     | Several plants in sandy set-aside                         | Locally Nb                   |
| 274  | <i>Filago vulgaris</i>           | Common Cudweed     | SO813785   | Honeytop Farm<br>Pastures           | 04/09/02   |   | Locally Nb                   |
| 12   | <i>Filago vulgaris</i>           | Common Cudweed     | SO8178     | Honey Brook Bank                    | 04/09/02   | 1 present   | Locally Nb                   |
| 124  | <i>Galium saxatile</i>           | Heath Bedstraw     | SO836806   | Debdale Farm                        | 1992       | Sandy grassland   | Locally Nb                   |
| 15   | <i>Galium saxatile</i>           | Heath Bedstraw     | SO8579     | SO87 tetrad P                       | 1992       |   | Locally Nb                   |
| 14   | <i>Galium saxatile</i>           | Heath Bedstraw     | SO8577     | SO87 tetrad N                       | 1996       |   | Locally Nb                   |
| 10   | <i>Galium saxatile</i>           | Heath Bedstraw     | SO8379     | SO87 tetrad J                       | 1993       |   | Locally Nb                   |
| 330  | <i>Galium uliginosum</i>         | Fen Bedstraw       | SO817773   | Blake Marsh                         | 18/08/98   | WWT Wetlands Survey                                       | Locally Nb                   |
| 555  | <i>Galium uliginosum</i>         | Fen Bedstraw       | SO828772   | Puxton Marsh                        | 26/08/98   | Community 1 - tall-herb fen                               | Locally Nb                   |
| 628  | <i>Galium uliginosum</i>         | Fen Bedstraw       | SO830794   | Wolverley Mdws                      | 08/09/98   | WWT Wetlands Survey                                       | Locally Nb                   |
| 140  | <i>Gladiolus illyricus</i>       | Wild Gladiolus     | SO84378007 |                                     | 02/06/2013 |   | WCA                          |
| 117  | <i>Gnaphalium sylvaticum</i>     | Heath Cudweed      | SO834813   | Blakeshall                          | 06/08/93   | Plant with 8 flowering stems in sandy set-aside           | Locally Nb                   |
| 98   | <i>Gnaphalium sylvaticum</i>     | Heath Cudweed      | SO827818   | Kingsford section<br>of Kinver Edge | Aug-97     | 50+ plants on underground reservoir (here in early 1970s) | Locally Nb                   |
| 110  | <i>Helleborus foetidus</i>       | Stinking Hellebore | SO832815   | Kinver                              | 15/02/2015 |   | Locally Nb Nationally Scarce |
| 999  | <i>Hyacinthoides non-scripta</i> | Bluebell           | SO857782   | Hurcott Wood                        | 18/05/95   | DAFOR   | WCA                          |
| 175  | <i>Hyacinthoides non-scripta</i> | Bluebell           | SO855803   | Island Pool                         | 17/07/02   | DAFOR; LA, woodland                                       | WCA                          |
| 176  | <i>Hyacinthoides non-scripta</i> | Bluebell           | SO855805   | Island Pool                         | 17/07/02   | DAFOR; LA   | WCA                          |
| 202  | <i>Hyacinthoides non-scripta</i> | Bluebell           | SO809786   | Easthams Coppice                    | 16/08/06   | Wooded rockface   | WCA                          |
| 1001 | <i>Hyacinthoides non-scripta</i> | Bluebell           | SO857799   | IslandPool                          | 23/05/07   |   | WCA                          |
| 71   | <i>Hyacinthoides non-scripta</i> | Bluebell           | SO820808   | Kingsford Heath                     | 12/06/07   | Common  | WCA                          |
| 673  | <i>Hyacinthoides non-scripta</i> | Bluebell           | SO832781   | Springfield                         | 27/07/07   | DAFOR; O-LF   | WCA                          |

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|------|----------------------------------|------------------------|----------|---------------------------------|-----------------|---|------------|
| 504  | <i>Hyacinthoides non-scripta</i> | Bluebell               | SO826762 | Sutton Park Road Cemetery       | 15/08/07        | DAFOR; VLA  | WCA        |
| 314  | <i>Hyacinthoides non-scripta</i> | Bluebell               | SO816772 | Blakemarsh                      | 16/08/07        | DAFOR; VLF  | WCA        |
| 692  | <i>Hyacinthoides non-scripta</i> | Bluebell               | SO833783 | Wolverley Court Lock Carr       | 08/11/07        |   | WCA        |
| 162  | <i>Hyacinthoides non-scripta</i> | Bluebell               | SO807795 | Parkatt Wood & Honeybottom      | 20/03/08        | DAFOR; OLA  | WCA        |
| 557  | <i>Hyacinthoides non-scripta</i> | Bluebell               | SO828777 | Puxton Marsh                    | Sep-05          |   | WCA        |
| 982  | <i>Hypochaeris glabra</i>        | Smooth Cat's-Ear       | SO855791 | Lea Castle                      | 27/06/93        | Set-aside arable - locally frequent, 100s (field ploughed 1996) | Locally Nb |
| 625  | <i>Isolepis setacea</i>          | Bristle Club-rush      | SO830782 | Stourvale Marsh                 | Aug - Sept 1998 | Ditch   | Locally Nb |
| 169  | <i>Isolepis setacea</i>          | Bristle Club-rush      | SO854807 | Caunsall                        | 24/06/02        | Small patch; marshy pasture                                     | Locally Nb |
| 968  | <i>Juncus compressus</i>         | Round-fruited Rush     | SO854778 | Hurcott Pool                    | 16/07/97        | Several patches; S edge   | Locally Nb |
| 943  | <i>Juncus compressus</i>         | Round-fruited Rush     | SO852778 | Hurcott Pool                    | 17/09/04        | Backmarsh S shore; stand c.1sq m                                | Locally Nb |
| 117  | <i>Lamium hybridum</i>           | Cut-leaved Dead-nettle | SO834813 | Blakeshall                      | 06/06/93        | Single plant; sandy set-aside                                   | Locally Nb |
| 125  | <i>Lamium hybridum</i>           | Cut-leaved Dead-nettle | SO836811 | Blakeshall                      | 08/03/98        | Single plant; hedgebank at corner of arable field               | Locally Nb |
| 101  | <i>Lathraea squamaria</i>        | Toothwort              | SO804787 | nr Easthams Farm                | 22/04/94        | Shaded stream bank - c.60 flowering spikes on hazel             | Locally Nb |
| 126  | <i>Lathraea squamaria</i>        | Toothwort              | SO805787 | Honey Brook                     | 14/05/04        | 100+ plants by brook  | Locally Nb |
| 127  | <i>Lemna gibba</i>               | Fat Duckweed           | SO839802 | Debdale                         | 26/08/93        | Very locally frequent behind shuttering in canal                | Locally Nb |
| 723  | <i>Lemna gibba</i>               | Fat Duckweed           | SO835779 | Springfield Park, Kidderminster | 08/09/02        | Stream nr pool - a few scattered plants with <i>L. minor</i>    | Locally Nb |
| 758  | <i>Lepidium heterophyllum</i>    | Smith's Pepperwort     | SO838762 | Kidderminster SVR station       | 29/06/95        | Small patch; railway bank                                       | Locally Nb |
| 146  | <i>Luzula sylvatica</i>          | Great Wood-rush        | SO806797 | Parkatt Wood Cliff              | 19/04/03        |   | Locally Nb |
| 398  | <i>Montia fontana</i>            | Blinks                 | SO821795 | N of Fairfield                  | 19/03/98        | Very locally common; steep sandy pasture                        | Locally Nb |
| 276  | <i>Myosotis ramosissima</i>      | Early Forget-me-not    | SO813794 | Honeytop Farm                   | 11/05/95        | Sandy pasture - small colony                                    | Locally Nb |
| 1007 | <i>Myosotis ramosissima</i>      | Early Forget-me-not    | SO858799 | The Gorse                       | 22/06/98        | Frequent on scrubby sandy bank                                  | Locally Nb |
| 256  | <i>Myosotis ramosissima</i>      | Early Forget-me-not    | SO812784 | Honey Brook                     | 14/05/04        | Small patch; trackside bank                                     | Locally Nb |

| No  | Scientific Name               | Common Name          | Grid Ref | Location Name             | Date            | Comments  | Status     |
|-----|-------------------------------|----------------------|----------|---------------------------|-----------------|---|------------|
| 15  | <i>Nuphar lutea</i>           | Yellow Water-lily    | SO8579   | SO87 tetrad P             | 1992            | East  | Locally Nb |
| 9   | <i>Nuphar lutea</i>           | Yellow Water-lily    | SO8377   | SO87 tetrad I             | 1994            | East  | Locally Nb |
| 32  | <i>Nuphar lutea</i>           | Yellow Water-lily    | SO8577   | Hurcott Pool              | 09/06/98        | WWT Wetlands Survey                             | Locally Nb |
| 852 | <i>Nuphar lutea</i>           | Yellow Water-lily    | SO845779 | Podmore Pool & Carr       | 03/09/04        | Dominating most of open water zone              | Locally Nb |
| 853 | <i>Nuphar lutea</i>           | Yellow Water-lily    | SO845780 | Podmore Pool & Carr       | 03/09/04        |   | Locally Nb |
| 944 | <i>Nuphar lutea</i>           | Yellow Water-lily    | SO852779 | Hurcott Pool              | 17/09/04        |   | Locally Nb |
| 67  | <i>Oreopteris limbosperma</i> | Lemon-scented Fern   | SO818809 | Kingsford Lane            | 30/08/93        | 10/12 plants; verge at foot of sandstone rock   | Locally Nb |
| 10  | <i>Ornithopus perpusillus</i> | Bird's-foot          | SO8379   | SO87 tetrad J             | 1993            |   | Locally Nb |
| 9   | <i>Ornithopus perpusillus</i> | Bird's-foot          | SO8377   | SO87 tetrad I             | 1994            |   | Locally Nb |
| 5   | <i>Ornithopus perpusillus</i> | Bird's-foot          | SO8179   | SO87 tetrad E             | 1995            |   | Locally Nb |
| 601 | <i>Ornithopus perpusillus</i> | Bird's-foot          | SO829775 | Staffs & Worcs Canal      | 21/07/01        | Limekiln Bridge SO828772 to SO829775            | Locally Nb |
| 126 | <i>Ornithopus perpusillus</i> | Bird's-foot          | SO839801 | Cookley Banks POS         | 28/01/05        | Cliff   | Locally Nb |
| 902 | <i>Ornithopus perpusillus</i> | Bird's-foot          | SO848779 | Hurcott Pasture W         | 28/01/05        |   | Locally Nb |
| 702 | <i>Papaver argemone</i>       | Prickly Poppy        | SO834764 | Oxford St, Kidderminster  | 19/05/94        | Flower bed - 2 plants                           | Locally Nb |
| 109 | <i>Papaver argemone</i>       | Prickly Poppy        | SO832813 | Blakeshall                | May-95          | 1 plant in sandy field                          | Locally Nb |
| 625 | <i>Persicaria bistorta</i>    | Common Bistort       | SO830782 | Stourvale Marsh           | Aug - Sept 1998 | Ditch   | Locally Nb |
| 33  | <i>Polygala vulgaris</i>      | Common Milkwort      | SO8579   | The Gorse                 | 1998            | Scattered plants on grassy bank                 | Locally Nb |
| 707 | <i>Populus nigra</i>          | Black-poplar         | SO834778 | Stack Pools               | 06/09/02        | DAFOR; R - banks                                | WorcBAP    |
| 673 | <i>Populus nigra</i>          | Black-poplar         | SO832781 | Springfield               | 27/07/07        | DAFOR; O  | WorcBAP    |
| 314 | <i>Populus nigra</i>          | Black-poplar         | SO816772 | Blakemarsh                | 16/08/07        | DAFOR; VLF                                      | WorcBAP    |
| 870 | <i>Potentilla anglica</i>     | Trailing Tormentil   | SO846778 | Podmore Mdws              | 03/09/04        |   | Locally Nb |
| 885 | <i>Potentilla argentea</i>    | Hoary Cinquefoil     | SO847779 | Hurcott Meadow            | 10/08/92        | Rare  | Locally Nb |
| 276 | <i>Potentilla argentea</i>    | Hoary Cinquefoil     | SO813794 | Honeytop Farm             | 11/05/95        | Sandy pasture - locally frequent                | Locally Nb |
| 289 | <i>Potentilla argentea</i>    | Hoary Cinquefoil     | SO814784 | Honeytop Farm             | 11/05/95        | Sandy pasture - locally frequent                | Locally Nb |
| 533 | <i>Potentilla palustris</i>   | Marsh Cinquefoil     | SO827775 | Puxton Marsh              | 1999            |   | Locally Nb |
| 693 | <i>Potentilla palustris</i>   | Marsh Cinquefoil     | SO833784 | Puxton Marsh              | 11/05/92        | Frequent in alder / willow carr                 | Locally Nb |
| 692 | <i>Potentilla palustris</i>   | Marsh Cinquefoil     | SO833783 | Wolverley Court Lock Carr | 27/08/98        | WWT Wetlands Survey. DAFOR; LF, willow woodland | Locally Nb |
| 557 | <i>Potentilla palustris</i>   | Marsh Cinquefoil     | SO828777 | Puxton Marsh              | Sep-05          | M27 & MG10a communities                         | Locally Nb |
| 170 | <i>Ranunculus fluitans</i>    | River Water-crowfoot | SO854809 | River Stour, Caunsall     | 24/06/02        | Small patch; the river                          | Locally Nb |



| No  | Scientific Name                | Common Name                | Grid Ref   | Location Name                        | Date            | Comments   | Status                |
|-----|--------------------------------|----------------------------|------------|--------------------------------------|-----------------|--|-----------------------|
| 128 | <i>Ranunculus fluitans</i>     | River Water-crowfoot       | SO839804   | River Stour, Debdale                 | 14/05/03        | Patches in river   | Locally Nb            |
| 604 | <i>Ranunculus fluitans</i>     | River Water-crowfoot       | SO829792   | River Stour, Wolverley               | 26/05/03        | Small patch  | Locally Nb            |
| 809 | <i>Ranunculus lingua</i>       | Greater Spearwort          | SO842780   | Broadwaters, Kidderminster           | 14/07/94        | A few plants in <i>Typha</i> reed-swamp (E)                      | Locally Nb            |
| 287 | <i>Ranunculus lingua</i>       | Greater Spearwort          | SO814773   | Blakebrook                           | 11/06/95        | Small stagnant pool - a few plants established (E)               | Locally Nb            |
| 817 | <i>Ranunculus parviflorus</i>  | Small-flowered Buttercup   | SO84377993 |                                      | 01/06/2013      |  | Locally Nb            |
| 175 | <i>Rorippa microphylla</i>     | Narrow-fruited Water-cress | SO855803   | Island Pool                          | 24/06/02        | Muddy margin   | Locally Nb            |
| 624 | <i>Rumex aquaticus</i>         | Scottish Dock              | SO830780   | Stourvale Marsh                      | 23/08/94        |  | UKBAP Nationally Rare |
| 532 | <i>Rumex hydrolapathum</i>     | Water Dock                 | SO827774   | Puxton Marsh                         | 1998            | Survey for proposed Stour Valley C.P.                            | Locally Nb            |
| 556 | <i>Rumex hydrolapathum</i>     | Water Dock                 | SO828773   | Limekiln Bridge, Kidderminster       | 15/07/93        | Canal bank - 1 large clump                                       | Locally Nb            |
| 555 | <i>Rumex hydrolapathum</i>     | Water Dock                 | SO828772   | Limekiln Bridge, Kidderminster       | 14/05/94        | Canal bank - single plant  | Locally Nb            |
| 657 | <i>Rumex hydrolapathum</i>     | Water Dock                 | SO831776   | NE of Limekiln Bridge, Kidderminster | 14/05/94        | Canal bank - 2 plants  | Locally Nb            |
| 957 | <i>Rumex hydrolapathum</i>     | Water Dock                 | SO853778   | Hurcott Pool                         | 16/07/97        | Single plant; S edge   | Locally Nb            |
| 556 | <i>Rumex hydrolapathum</i>     | Water Dock                 | SO828773   | Puxton Marsh                         | 26/08/98        | Community 2 - <i>Filipendula</i> / <i>Angelica</i>               | Locally Nb            |
| 671 | <i>Rumex hydrolapathum</i>     | Water Dock                 | SO832779   | Stourvale Marsh                      | Aug - Sept 1998 | <i>Carex acutiformis</i> stand                                   | Locally Nb            |
| 628 | <i>Rumex hydrolapathum</i>     | Water Dock                 | SO830794   | Wolverley Mdws                       | 08/09/98        | WWT Wetlands Survey  | Locally Nb            |
| 181 | <i>Salix triandra</i>          | Almond Willow              | SO856808   | By A449 nr Caunsall                  | 26/08/96        | Single bush in Alder carr  | Locally Nb            |
| 557 | <i>Salix triandra</i>          | Almond Willow              | SO828777   | Puxton Marsh                         | 17/08/98        | Cmpt A - Alder / willow copse                                    | Locally Nb            |
| 532 | <i>Salix triandra</i>          | Almond Willow              | SO827774   | Puxton Marsh                         | 26/08/98        | WWT Wetlands Survey  | Locally Nb            |
| 123 | <i>Salvia verbenaca</i>        | Wild Clary                 | SO836805   | Debdale Farm Pastures                | 17/02/05        | DAFOR; LF. S facing slope  | Locally Nb            |
| 123 | <i>Salvia verbenaca</i>        | Wild Clary                 | SO836805   | Gloucester Coppice                   | 23/05/07        |  | Locally Nb            |
| 721 | <i>Sanguisorba officinalis</i> | Great Burnet               | SO835767   | Kidderminster ring road              | 15/07/93        | Road verge / car park - 1 small patch                            | Locally Nb            |
| 535 | <i>Saxifraga granulata</i>     | Meadow Saxifrage           | SO827793   | Wolverley Parish Church              | 08/05/93        | Widespread & locally frequent in grassy churchyard (to SO829793) | Locally Nb            |

| No   | Scientific Name                         | Common Name      | Grid Ref | Location Name                  | Date     | Comments  | Status                        |
|------|---|------------------|----------|--------------------------------|----------|---|-------------------------------|
| 561  | <i>Saxifraga granulata</i>              | Meadow Saxifrage | SO828792 | By B4189 roundabout, Wolverley | 08/05/93 | Small patch on roadside bank on sandstone           | Locally Nb                    |
| 163  | <i>Saxifraga granulata</i>              | Meadow Saxifrage | SO807797 | Cornhill Coppice               | Jul-94   | A few plants on sandstone rock in woodland          | Locally Nb                    |
| 504  | <i>Saxifraga granulata</i>              | Meadow Saxifrage | SO826762 | Kidderminster Cemetery         | 19/03/95 | Small patch (c.1sq.m) on grassy verge               | Locally Nb                    |
| 257  | <i>Saxifraga granulata</i>              | Meadow Saxifrage | SO812787 | A442, Honeybrook               | 11/05/95 | Locally frequent on newly cantoured section of bank | Locally Nb                    |
| 257  | <i>Saxifraga granulata</i>              | Meadow Saxifrage | SO812787 | A442 Bridgnorth Road           | 14/05/04 | Patch of 10sq.m. on bank                            | Locally Nb                    |
| 138  | <i>Saxifraga granulata</i>              | Meadow Saxifrage | SO842802 | St Peters Church, Cookley      | 28/01/05 | Frequent  | Locally Nb                    |
| 884  | <i>Scirpus sylvaticus</i>               | Wood Club-rush   | SO847778 | By Podmoor Pool                | 11/05/93 | Locally common in alder carr                        | Locally Nb                    |
| 505  | <i>Scirpus sylvaticus</i>               | Wood Club-rush   | SO826785 | Stourvale Marsh                | 25/06/95 | Locally frequent                                    | Locally Nb                    |
| 32   | <i>Scirpus sylvaticus</i>               | Wood Club-rush   | SO8577   | Hurcott Carr                   | 09/06/98 | WWT Wetlands Survey                                 | Locally Nb                    |
| 901  | <i>Scirpus sylvaticus</i>               | Wood Club-rush   | SO848778 | Podmore Pool & Carr            | 03/07/98 | Carr  | Locally Nb                    |
| 532  | <i>Scirpus sylvaticus</i>               | Wood Club-rush   | SO827774 | Puxton Marsh                   | 26/08/98 | WWT Wetlands Survey                                 | Locally Nb                    |
| 180  | <i>Scirpus sylvaticus</i>               | Wood Club-rush   | SO856802 | Island Pool                    | 24/06/02 | Still flourishing                                   | Locally Nb                    |
| 870  | <i>Scirpus sylvaticus</i>               | Wood Club-rush   | SO846778 | Podmore Pool & Carr            | 03/09/04 | Swamp fringe  | Locally Nb                    |
| 174  | <i>Scirpus sylvaticus</i>               | Wood Club-rush   | SO855802 | Island Pool                    | 28/01/05 |   | Locally Nb                    |
| 888  | <i>Scleranthus annuus subsp. annuus</i> | Annual Knawel    | SO847786 | A449, Lea Castle               | 30/04/92 | Locally frequent on central reservation             | NERC s.41 UKBAP<br>Locally Nb |
| 1029 | <i>Scleranthus annuus subsp. annuus</i> | Annual Knawel    | SO860798 | Ismere                         | 03/05/93 | Scarce in unimproved sandy pasture                  | NERC s.41 UKBAP<br>Locally Nb |
| 885  | <i>Scleranthus annuus subsp. annuus</i> | Annual Knawel    | SO847779 | N of Podmore Pool              | 10/06/94 | Locally frequent in sandy pastures                  | NERC s.41 UKBAP<br>Locally Nb |
| 293  | <i>Scleranthus annuus subsp. annuus</i> | Annual Knawel    | SO814792 | Honeytop Farm                  | 11/05/95 | Locally frequent in sandy pasture                   | NERC s.41 UKBAP<br>Locally Nb |
| 455  | <i>Senecio sylvaticus</i>               | Heath Groundsel  | SO824794 | By B4189 at Wolverley          | 08/05/93 | Locally frequent on sandy bank                      | Locally Nb                    |
| 1067 | <i>Senecio sylvaticus</i>               | Heath Groundsel  | SO863784 | Wannerton                      | 11/06/94 | A few plants - laneside bank                        | Locally Nb                    |
| 274  | <i>Senecio sylvaticus</i>               | Heath Groundsel  | SO813785 | Honeytop Farm                  | 11/05/95 | 3 plants in sandy pasture                           | Locally Nb                    |
| 935  | <i>Senecio sylvaticus</i>               | Heath Groundsel  | SO851785 | A451 nr Lea Castle             | 05/07/97 | Locally frequent - hedgebank                        | Locally Nb                    |
| 182  | <i>Solidago virgaurea</i>               | Goldenrod        | SO808796 | By A442 nr junction with B4189 | 22/04/94 | sandstone rocks - small group of plants             | Locally Nb                    |

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|------|---------------------------|--------------------|----------|--------------------------------------|----------|--|------------------------------|
| 78   | <i>Solidago virgaurea</i> | Goldenrod          | SO821811 | Kingsford                            | 11/08/04 | 1; sandy laneside bank   | Locally Nb                   |
| 1000 | <i>Spergularia rubra</i>  | Sand Spurrey       | SO857793 | Lea Castle                           | 25/05/92 | Frequent on edge of sandy set-aside  | Locally Nb                   |
| 885  | <i>Spergularia rubra</i>  | Sand Spurrey       | SO847779 | Hurcott                              | 10/08/92 | Occasional; sandy pasture  | Locally Nb                   |
| 1029 | <i>Spergularia rubra</i>  | Sand Spurrey       | SO860798 | Ismere                               | 03/05/93 | Scarce in sandy unimproved pasture   | Locally Nb                   |
| 293  | <i>Spergularia rubra</i>  | Sand Spurrey       | SO814792 | Honeytop Farm                        | 11/05/95 | Occasional on bare patches in sandy pasture                                  | Locally Nb                   |
| 179  | <i>Spergularia rubra</i>  | Sand Spurrey       | SO856801 | Island Pool                          | 24/06/02 | 1 plant on disturbed sandy slope above pool                                  | Locally Nb                   |
| 117  | <i>Stachys arvensis</i>   | Field Woundwort    | SO834813 | Blakeshall                           | 06/08/93 | 2 plants in sandy set-aside  | Locally Nb                   |
| 989  | <i>Stachys arvensis</i>   | Field Woundwort    | SO856797 | Axborough                            | 05/08/98 | Locally frequent in set-aside  | Locally Nb                   |
| 15   | <i>Thymus polytrichus</i> | Wild Thyme         | SO8579   | SO87 tetrad P                        | 1996     |  | Locally Nb                   |
| 5    | <i>Thymus polytrichus</i> | Wild Thyme         | SO8179   | SO87 tetrad E                        | 1992     |  | Locally Nb                   |
| 535  | <i>Tilia platyphyllos</i> | Large-Leaved Lime  | SO827793 | Wolverley                            | 11/05/92 | Oak/hazel wood on steep slope - single large coppice tree (status not clear) | Locally Nb Nationally Scarce |
| 147  | <i>Tilia platyphyllos</i> | Large-Leaved Lime  | SO806799 | Cornhill Coppice                     | May-94   | Top of wooded sandstone scarp - several trees (native here)                  | Locally Nb Nationally Scarce |
| 162  | <i>Tilia platyphyllos</i> | Large-Leaved Lime  | SO807795 | Parkatt Wood                         | 06/07/95 | Woodland - several trees (native here)                                       | Locally Nb Nationally Scarce |
| 15   | <i>Trifolium arvense</i>  | Hare's-foot Clover | SO8579   | SO87 tetrad P                        | 1992     |  | Locally Nb                   |
| 14   | <i>Trifolium arvense</i>  | Hare's-foot Clover | SO8577   | SO87 tetrad N                        | 1997     |  | Locally Nb                   |
| 10   | <i>Trifolium arvense</i>  | Hare's-foot Clover | SO8379   | SO87 tetrad J                        | 1993     |  | Locally Nb                   |
| 5    | <i>Trifolium arvense</i>  | Hare's-foot Clover | SO8179   | SO87 tetrad E                        | 1995     |  | Locally Nb                   |
| 600  | <i>Trifolium arvense</i>  | Hare's-foot Clover | SO829773 | Georgian Carpets Site, Kidderminster | 21/07/01 |  | Locally Nb                   |
| 889  | <i>Trifolium striatum</i> | Knotted Clover     | SO847787 | A449, Lea Castle                     | 30/04/92 | Central reservation  | Locally Nb                   |
| 1029 | <i>Trifolium striatum</i> | Knotted Clover     | SO860798 | Ismere                               | 03/05/93 | Sandy unimproved pasture - frequent  | Locally Nb                   |
| 932  | <i>Trifolium striatum</i> | Knotted Clover     | SO851779 | Hurcott                              | 11/05/93 | Sandy pasture - frequent   | Locally Nb                   |
| 902  | <i>Trifolium striatum</i> | Knotted Clover     | SO848779 | Hurcott                              | 11/05/93 | Sandy pasture - frequent   | Locally Nb                   |
| 886  | <i>Trifolium striatum</i> | Knotted Clover     | SO847780 | N of Podmore Pool                    | 04/07/94 | Quite common in sandy pasture  | Locally Nb                   |
| 276  | <i>Trifolium striatum</i> | Knotted Clover     | SO813794 | Honeytop Farm                        | 11/05/95 | Sandy pastures - locally frequent  | Locally Nb                   |
| 274  | <i>Trifolium striatum</i> | Knotted Clover     | SO813785 | Honeytop Farm                        | 11/05/95 | Sandy pastures - locally frequent  | Locally Nb                   |
| 900  | <i>Trifolium striatum</i> | Knotted Clover     | SO848777 | nr Hurcott                           | 04/06/97 | 2 plants on sandy laneside bank  | Locally Nb                   |
| 887  | <i>Trifolium striatum</i> | Knotted Clover     | SO847782 | Kendlewood Rd, Broadwater            | 22/06/98 | Small patch; grass verge   | Locally Nb                   |
| 115  | <i>Trifolium striatum</i> | Knotted Clover     | SO833815 | Blakeshall                           | Sep-98   | Linseed field  | Locally Nb                   |
| 435  | <i>Trifolium striatum</i> | Knotted Clover     | SO823791 | Sebright Road, Fairfield             | 11/06/02 | Small patches; grass verge   | Locally Nb                   |

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|------|----------------------------|------------------|----------|---------------------------|----------|---|-------------------|
| 560  | <i>Trifolium striatum</i>  | Knotted Clover   | SO828781 | Brooklands Drive, Franche | 11/06/02 | Small patch; lawn   | Locally Nb        |
| 179  | <i>Trifolium striatum</i>  | Knotted Clover   | SO856801 | Island Pool               | 24/06/02 | A few plants on disturbed sandy slope above pool                          | Locally Nb        |
| 872  | <i>Typha angustifolia</i>  | Lesser Bulrush   | SO846780 | Podmore Pool              | 29/06/92 | Common  | Locally Nb        |
| 810  | <i>Typha angustifolia</i>  | Lesser Bulrush   | SO842781 | Broadwaters               | 10/06/94 | Local in small reed-swamp with <i>T. latifolia</i> and <i>T. x glauca</i> | Locally Nb        |
| 969  | <i>Typha angustifolia</i>  | Lesser Bulrush   | SO854779 | Hurcott Pool              | 16/07/97 | Abundant & locally dominant in reed-swamp                                 | Locally Nb        |
| 32   | <i>Typha angustifolia</i>  | Lesser Bulrush   | SO8577   | Hurcott Pool              | 09/06/98 | WWT Wetlands Survey   | Locally Nb        |
| 871  | <i>Typha angustifolia</i>  | Lesser Bulrush   | SO846779 | Podmore Pool & Carr       | 03/07/98 | Pool swamp  | Locally Nb        |
| 853  | <i>Typha angustifolia</i>  | Lesser Bulrush   | SO845780 | Podmore Pool & Carr       | 03/09/04 |   | Locally Nb        |
| 852  | <i>Typha angustifolia</i>  | Lesser Bulrush   | SO845779 | Podmore Pool & Carr       | 03/09/04 | Swamp   | Locally Nb        |
| 943  | <i>Typha angustifolia</i>  | Lesser Bulrush   | SO852778 | Hurcott Pool              | 17/09/04 |   | Locally Nb        |
| 73   | <i>Ulex gallii</i>         | Western Gorse    | SO820813 | Kingsford                 | 1993     |   | Locally Nb        |
| 15   | <i>Ulex gallii</i>         | Western Gorse    | SO8579   | SO87 tetrad P             | 1992     |   | Locally Nb        |
| 5    | <i>Ulex gallii</i>         | Western Gorse    | SO8179   | SO87 tetrad E             | 1994     |   | Locally Nb        |
| 870  | <i>Ulex gallii</i>         | Western Gorse    | SO846778 | Podmore Mdws              | 03/09/04 |   | Locally Nb        |
| 925  | <i>Ulex gallii</i>         | Western Gorse    | SO850779 | Hurcott Pasture E         | 28/01/05 |   | Locally Nb        |
| 125  | <i>Umbilicus rupestris</i> | Navelwort        | SO805785 | Low Habberley             | 2001     |   | Locally Nb        |
| 318  | <i>Umbilicus rupestris</i> | Navelwort        | SO816799 | Sladd Lane                | 22/04/94 | sandstone rocks - common  | Locally Nb        |
| 203  | <i>Umbilicus rupestris</i> | Navelwort        | SO809787 | nr Hollies Farm           | 22/04/94 | Locally Common; sandstone rocks   | Locally Nb        |
| 240  | <i>Umbilicus rupestris</i> | Navelwort        | SO811785 | nr Hollies Farm           | 22/04/94 | Locally Common; sandstone rocks   | Locally Nb        |
| 307  | <i>Umbilicus rupestris</i> | Navelwort        | SO815787 | nr Honeytop Farm          | 22/04/94 | Common; sandstone trackside banks   | Locally Nb        |
| 201  | <i>Umbilicus rupestris</i> | Navelwort        | SO809785 | Hollies Lane              | 06/07/95 | Hedgebanks - scattered colonies   | Locally Nb        |
| 127  | <i>Umbilicus rupestris</i> | Navelwort        | SO805791 | Hollies Lane              | 06/07/95 | Hedgebanks - scattered colonies   | Locally Nb        |
| 81   | <i>Umbilicus rupestris</i> | Navelwort        | SO822808 | Drakelow                  | 24/06/97 | Small colony; sandstone outcrop, old cave houses                          | Locally Nb        |
| 318  | <i>Umbilicus rupestris</i> | Navelwort        | SO816799 | Rock New House, Drakelow  | 12/03/03 |   | Locally Nb        |
| 66   | <i>Umbilicus rupestris</i> | Navelwort        | SO818803 | Drakelow Lane, Wolverley  | 12/03/03 | Sandstone outcrop E side  | Locally Nb        |
| 71   | <i>Verbascum lychnitis</i> | White Mullein    | SO820808 | Kingsford Heath           | 12/06/07 | DAFOR; VR   | Nationally Scarce |
| 1018 | <i>Viola canina</i>        | Heath Dog-violet | SO859798 | The Gorse, nr Axborough   | 25/06/92 | Acid unimproved pasture - scattered                                       | Locally Nb        |

| No   | Scientific Name                          | Common Name                       | Grid Ref | Location Name           | Date       | Comments  | Status                       |
|------|--|-----------------------------------|----------|-------------------------|------------|---|------------------------------|
| 1018 | <i>Viola canina</i>                      | Heath Dog-violet                  | SO859798 | The Gorse               | 13/08/98   | Still present   | Locally Nb                   |
| 1029 | <i>Viola canina</i>                      | Heath Dog-violet                  | SO860798 | The Gorse               | 13/08/98   | A few plants just in tetrad                                     | Locally Nb                   |
| 932  | <i>Acalles ptinoides</i>                 | Acalles ptinoides                 | SO851779 | Hurcott Wood            | 07/05/12   | 6 on decayed mature tree stump in damp woodland                 | Notable B                    |
| 725  | <i>Anaglyptus mysticus</i>               | Anaglyptus mysticus               | SO835782 | Springfield Park        | 19/05/11   | on Oak trunk on woodland verge of meadow                        | Notable B                    |
| 899  | <i>Anaglyptus mysticus</i>               | Anaglyptus mysticus               | SO848776 | Hurcott & Podmore Pools | 26/05/2014 | Pastures  | Notable B                    |
| 736  | <i>Anthracus consputus</i>               | Anthracus consputus               | SO836781 | Springfield Park        | 14/10/10   | At night, under leaf litter in shaded dried-up, willow carr bog | Notable B                    |
| 932  | <i>Anthribus fasciatus</i>               | Anthribus fasciatus               | SO851779 | nr Hurcott Wood         | 08/03/12   | under decaying bark, 1 on lime, 2 on cherry                     | Notable A                    |
| 932  | <i>Aphodius (Chilothorax) distinctus</i> | Aphodius (Chilothorax) distinctus | SO851779 | Hurcott Wood            | 07/05/12   | on ground in woodland   | Notable B                    |
| 932  | <i>Aphodius (Limarus) zenkeri</i>        | Aphodius (Limarus) zenkeri        | SO851779 | Hurcott Wood            | 21/07/11   | in damp woodland, active at night                               | Notable B                    |
| 736  | <i>Badister (Badister) unipustulatus</i> | Badister (Badister) unipustulatus | SO836781 | Springfield Park        | 10/03/09   | Beside pond under leaf litter. L:7mm                            | Notable B                    |
| 736  | <i>Bembidion (Diplocampa) clarkii</i>    | Bembidion (Diplocampa) clarkii    | SO836781 | Springfield Park        | 14/10/10   | At night, under leaf litter in shaded dried-up, willow carr bog | Notable B                    |
| 736  | <i>Blemus discus</i>                     | Blemus discus                     | SO836781 | Springfield Park        | 25/07/09   | On damp silty ground near waterline on marshland. 5mm           | Notable B                    |
| 932  | <i>Caenopsis fissirostris</i>            | Caenopsis fissirostris            | SO851779 | Hurcott Wood            | 07/05/12   | 2; on Beech trunk in damp woodland                              | Notable B                    |
| 854  | <i>Carabus monilis</i>                   | Necklace Ground Beetle            | SO845789 | Podmore                 | 28/05/07   |   | NERC s.41 UKBAP<br>Notable B |
| 854  | <i>Carabus monilis</i>                   | Necklace Ground Beetle            | SO845789 | Kidderminster, on farm  | 02/08/08   | 1 Male  | NERC s.41 UKBAP<br>Notable B |
| 736  | <i>Chlaenius nigricornis</i>             | Chlaenius nigricornis             | SO836781 | Springfield Park        | 10/04/09   | On marshy ground. 10.5mm  | Notable B                    |
| 736  | <i>Chrysolina oricalcia</i>              | Chrysolina oricalcia              | SO836781 | Springfield Park        | 28/02/09   | 7 on umbellifer shoots at night. L: 8mm                         | Notable B                    |
| 737  | <i>Cis festivus</i>                      | Cis festivus                      | SO836782 | Springfield Park        | 31/03/2016 |   | Notable B                    |
| 725  | <i>Ctesias serra</i>                     | Cobweb Beetle                     | SO835782 | Springfield Park        | 04/06/11   | in niche in Beech, in damp woodland                             | Notable B                    |
| 725  | <i>Curculio betulae</i>                  | Curculio betulae                  | SO835782 | Springfield Park        | 06/08/12   | active at night on cones on mature Grey Alder                   | Notable B                    |

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|-----|--|-----------------------------------|----------|--------------------------------|------------|--|-----------------------------|
| 869 | <i>Curculio betulae</i>                  | Curculio betulae                  | SO846775 | Hurcott                        | 28/07/2016 | Beaten of <i>Alnus</i> tree                                  | Notable B                   |
| 737 | <i>Diplapion stolidum</i>                | Diplapion stolidum                | SO836782 | Springfield Park               | 31/03/2016 |  | Notable B                   |
| 932 | <i>Diplocoelus fagi</i>                  | Diplocoelus fagi                  | SO851779 | Hurcott Wood                   | 29/04/11   | 6 on decaying Birch bough with sooty bark disease            | Notable B                   |
| 736 | <i>Dorytomus tremulae</i>                | Dorytomus tremulae                | SO836781 | Springfield Park               | 22/04/14   | Found on mature Aspen trunk                                  | Notable B                   |
| 736 | <i>Elaphropus parvulus</i>               | Elaphropus parvulus               | SO836781 | Puxton Marsh, Springfield Park | 23/08/10   | Under gravel shale on damp sandy soil, close to marsh margin | Notable B                   |
| 932 | <i>Eledona agricola</i>                  | Eledona agricola                  | SO851779 | Hurcott Wood                   | 28/06/11   | 2 on decaying sycamore logs in woodland                      | Notable B                   |
| 932 | <i>Enicmus brevicornis</i>               | Enicmus brevicornis               | SO851779 | Hurcott Wood                   | 28/06/11   | on decaying sycamore logs in woodland                        | Notable                     |
| 736 | <i>Gonioctena decemnotata</i>            | Gonioctena decemnotata            | SO836781 | Springfield Park               | 16/06/10   |  | Notable B                   |
| 932 | <i>Hadrobregmus denticollis</i>          | Hadrobregmus denticollis          | SO851779 | nr Hurcott Wood                | 08/03/12   | behind bark on decaying section of Cherry                    | Notable B                   |
| 32  | <i>Hallomenus binotatus</i>              | Hallomenus binotatus              | SO8577   | Hurcott Wood                   | 14/05/11   | on damp decaying Birch log, in shady woodland, at night      | Notable B                   |
| 932 | <i>Hedobia (Ptinomorphus) imperialis</i> | Hedobia (Ptinomorphus) imperialis | SO851779 | Hurcott Wood                   | 10/05/11   |  | Notable B                   |
| 932 | <i>Hedobia (Ptinomorphus) imperialis</i> | Hedobia (Ptinomorphus) imperialis | SO851779 | Hurcott Wood                   | 12/05/11   |  | Notable B                   |
| 709 | <i>Helophorus (Helophorus) dorsalis</i>  | Helophorus (Helophorus) dorsalis  | SO834784 | Springfield Park               | 04/02/11   |  | Nationally Scarce Notable B |
| 178 | <i>Hippodamia (Adonia) variegata</i>     | Adonis' Ladybird                  | SO856800 | Cookley, Island Pool           | 20/07/03   |  | Notable B                   |
| 533 | <i>Hydaticus seminiger</i>               | Hydaticus seminiger               | SO827775 | Puxton Marsh                   | 23/01/11   |  | Nationally Scarce           |
| 998 | <i>Lebia (Lamprias) chlorocephala</i>    | Lebia (Lamprias) chlorocephala    | SO857780 | Hurcott & Podmore Pools        | 12/06/2014 |  | Notable B                   |
| 932 | <i>Lissodema denticolle</i>              | Lissodema denticolle              | SO851779 | Hurcott Wood                   | 12/07/11   | at night in shady woodland on decaying chestnut bough        | Notable B                   |
| 605 | <i>Magdalis cerasi</i>                   | Magdalis cerasi                   | SO829794 | Bishop's Field                 | 04/06/99   |  | Notable B                   |
| 725 | <i>Megatoma undata</i>                   | Megatoma undata                   | SO835782 | Springfield Park               | 23/05/12   | inactive at night in niche Ash in open parkland              | Notable B                   |

| No  | Scientific Name                              | Common Name                          | Grid Ref | Location Name             | Date       | Comments   | Status    |
|-----|--|--------------------------------------|----------|---------------------------|------------|--|-----------|
| 725 | <i>Melandrya caraboides</i>                  | Melandrya caraboides                 | SO835782 | Springfield Park          | 30/05/12   | inactive at night in crevice on Willow in open parkland                          | Notable B |
| 932 | <i>Melasis buprestoides</i>                  | Melasis buprestoides                 | SO851779 | Hurcott Wood              | 04/06/13   | 1 present  | Notable B |
| 737 | <i>Meligethes rotundicollis</i>              | Meligethes rotundicollis             | SO836782 | Springfield Park          | 31/03/2016 | Female   | Notable   |
| 725 | <i>Notaris scirpi</i>                        | Notaris scirpi                       | SO835782 | Puxton Marsh              | 25/11/11   |  | Notable B |
| 725 | <i>Omalium allardi</i>                       | Omalium allardi                      | SO835782 | Puxton Marsh              | 25/11/11   |  | Notable   |
| 736 | <i>Ophonus (Metophonus) schaubergerianus</i> | Ophonus rufibarbis                   | SO836781 | Springfield Park          | 26/03/09   | At night, active on sandy soil, open field. L: 8mm                               | Notable B |
| 932 | <i>Opilo mollis</i>                          | Opilo mollis                         | SO851779 | Hurcott Wood              | 10/07/11   | on beetle gallery on decaying ash stump, at night                                | Notable B |
| 725 | <i>Phloiophilus edwardsii</i>                | Phloiophilus edwardsii               | SO835782 | Springfield Park          | 08/02/12   | on decaying oak branches in woodland   | Notable B |
| 736 | <i>Platyderus depressus</i>                  | Platyderus depressus                 | SO836781 | Springfield Park          | 22/04/09   | On sandy field margin on woodland verge. 7mm                                     | Notable B |
| 725 | <i>Platyrhinus resinus</i>                   | Cramp-Ball Fungus Weevil             | SO835782 | Springfield Park          | 02/06/11   | on Beech trunk in damp woodland  | Notable B |
| 932 | <i>Plegaderus dissectus</i>                  | Plegaderus dissectus                 | SO851779 | Hurcott Wood              | 22/04/11   |  | Notable B |
| 736 | <i>Poecilus lepidus</i>                      | Poecilus lepidus                     | SO836781 | Springfield Park          | 02/07/09   | Heath section of sandy soil, active at night. L: 12.5mm                          | Notable B |
| 736 | <i>Pomatinus substriatus</i>                 | Pomatinus substriatus                | SO836781 | Springfield Park          | 22/04/14   | Large species at night feeding on algae on wall of canal                         | Notable   |
| 725 | <i>Ptinus sexpunctatus</i>                   | Ptinus sexpunctatus                  | SO835782 | Springfield Park          | 24/04/12   | on mature lime trunk at night  | Notable B |
| 885 | <i>Pyrochroa coccinea</i>                    | Black-Headed Cardinal Beetle         | SO847779 | Podmore, Hurcott Pasture  | 21/04/2014 |  | Notable B |
| 706 | <i>Pyrochroa coccinea</i>                    | Black-Headed Cardinal Beetle         | SO834774 | Springfield Park          | Jul-05     | 2 Adult  | Notable B |
| 725 | <i>Quedius (Microsaurus) nigrocaeruleus</i>  | Quedius (Microsaurus) nigrocaeruleus | SO835782 | Kidderminster Golf Course | 04/11/12   | active at night on old, hollowed-out Oak trunk                                   | Notable B |
| 932 | <i>Quedius (Microsaurus) scitus</i>          | Quedius (Microsaurus) scitus         | SO851779 | Hurcott Wood              | 09/05/12   |  | Notable B |
| 725 | <i>Rabocerus gabrieli</i>                    | Rabocerus gabrieli                   | SO835782 | Springfield Park          | 09/01/12   | 10 on dying Birch, in deciduous woodland with <i>Xyloterus domesticus</i> colony | Notable B |

| No   | Scientific Name                            | Common Name                         | Grid Ref   | Location Name              | Date       | Comments   | Status                       |
|------|--|-------------------------------------|------------|----------------------------|------------|--|------------------------------|
| 932  | <i>Rhizophagus (Rhizophagus) nitidulus</i> | Rhizophagus (Rhizophagus) nitidulus | SO851779   | Hurcott Wood               | 21/01/12   | on dead standing Birch in woods  | Notable B                    |
| 932  | <i>Rhizophagus (Rhizophagus) picipes</i>   | Rhizophagus (Rhizophagus) picipes   | SO851779   | Hurcott Wood               | 10/05/11   |  | Notable A                    |
| 932  | <i>Scaphidema metallicum</i>               | Scaphidema metallicum               | SO851779   | Hurcott Wood               | 07/05/12   | on decayed stump of Birch with some fungus in woodland                     | Notable B                    |
| 853  | <i>Silis ruficollis</i>                    | Silis ruficollis                    | SO845780   | Podmore Pool               | 18/07/02   |  | Notable B                    |
| 725  | <i>Symbiotes latus</i>                     | Symbiotes latus                     | SO835782   | Springfield Park           | 22/05/12   | in debris in base of hollow Oak tree                                       | Notable B                    |
| 725  | <i>Tetratoma desmarestii</i>               | Tetratoma desmarestii               | SO835782   | Kidderminster Golf Course  | 04/11/12   | active at night on decaying oak branch with crust fungi                    | Notable A                    |
| 32   | <i>Tillus elongatus</i>                    | Tillus elongatus                    | SO8577     | Hurcott Wood               | 18/05/11   | active at night, nr weevil infestation on dead standing Birch, in woodland | Notable B                    |
| 725  | <i>Uleiota planata</i>                     | Uleiota planata                     | SO835782   | Springfield Park           | 29/07/11   | at night under beech bark on beech logs on woodland edge                   | Notable A                    |
| 932  | <i>Variimorda villosa</i>                  | Variimorda villosa                  | SO851779   | Hurcott Wood               | 09/07/12   | inactive at night on decaying sycamore bough with soot mould               | Notable B                    |
| 725  | <i>Xyleborus dispar</i>                    | Ambrosia Beetle                     | SO835782   | Springfield Park           | 06/08/12   |  | Notable B                    |
| 875  | <i>Coenonympha pamphilus</i>               | Small Heath                         | SO84767775 | Hurcott Meadow             | 08/08/04   |  | NERC s.41 UKBAP              |
| 1005 | <i>Limenitis camilla</i>                   | White Admiral                       | SO858781   | Hurcott Wood               | 27/07/15   | Flying over tree tops  | NERC s.41 UKBAP              |
| 511  | <i>Satyrium w-album</i>                    | White Letter Hairstreak             | SO82707886 | Wyre Mill Lane, Wolverley  | 24/07/12   | 5 Adults   | WCA NERC s.41 UKBAP          |
| 478  | <i>Satyrium w-album</i>                    | White Letter Hairstreak             | SO825780   | Marlpool Estate            | 27/07/13   | 3 Adults   | WCA NERC s.41 UKBAP          |
| 869  | <i>Andrena (Andrena) apicata</i>           | Large Sallow Mining Bee             | SO846775   | Hurcott                    | 05/04/2015 | Garden   | Notable B                    |
| 869  | <i>Andrena (Plastandrena) bimaculata</i>   | Large Gorse Mining Bee              | SO846775   | Hurcott                    | 02/04/2016 | Garden; 1 male   | Notable B                    |
| 916  | <i>Bombus (Megabombus) ruderatus</i>       | Large Garden Bumble Bee             | SO849776   | Hurcott Fields             | 16/04/2014 |  | NERC s.41 UKBAP<br>Notable B |
| 1029 | <i>Bombus (Psithyrus) rupestris</i>        | Hill Cuckoo Bee                     | SO860798   | Whitehouse Farm, Ismere    | 17/04/10   | Queen on Ground Ivy  | Notable B                    |
| 1001 | <i>Bombus (Psithyrus) rupestris</i>        | Hill Cuckoo Bee                     | SO857799   | Whitehouse Farm, Axborough | 20/05/12   | Queen  | Notable B                    |
| 197  | <i>Bombus (Psithyrus) rupestris</i>        | Hill Cuckoo Bee                     | SO859805   | Common Barn, Causall       | 28/04/13   | 2-3 queens on white deadnettle   | Notable B                    |



| No  | Scientific Name                              | Common Name                           | Grid Ref   | Location Name            | Date       | Comments                                | Status          |
|-----|--|---------------------------------------|------------|--------------------------|------------|---|-----------------|
| 5   | <i>Bombus (Psithyrus) rupestris</i>          | Hill Cuckoo Bee                       | SO8580     | Island pool, Caunsall    | 03/05/15   | Queen                                   | Notable B       |
| 869 | <i>Dolichovespula (Dolichovespula) media</i> | Dolichovespula (Dolichovespula) media | SO846775   | Hurcott                  | 02/09/2015 | Several                                 | Notable A       |
| 738 | <i>Lasioglossum (Evyllaesus) pauxillum</i>   | Lobe-spurred Furrow Bee               | SO836786   | Summerfield Works Roxel, | 22/05/07   |   | Notable A       |
| 869 | <i>Lasius brunneus</i>                       | Brown Ant                             | SO846775   | Hurcott                  | 14/04/2014 |   | Notable A       |
| 885 | <i>Lasius brunneus</i>                       | Brown Ant                             | SO847779   | Podmore, Hurcott Pasture | 21/04/2014 |   | Notable A       |
| 706 | <i>Acronicta psi</i>                         | Grey Dagger                           | SO834774   | Springfield Park         | 2005       | 2 adults; June. Larvae on willow; July  | NERC s.41 UKBAP |
| 869 | <i>Acronicta psi</i>                         | Grey Dagger                           | SO846775   | Hurcott                  | 12/09/11   | Larvae garden                           | NERC s.41 UKBAP |
| 773 | <i>Acronicta psi</i>                         | Grey Dagger                           | SO84017617 | Kidderminster            | 03/07/2016 |   | NERC s.41 UKBAP |
| 706 | <i>Acronicta rumicis</i>                     | Knot Grass                            | SO834774   | Springfield Park         | Aug-05     | 2 Adult                                 | NERC s.41 UKBAP |
| 706 | <i>Allophyes oxyacanthae</i>                 | Green-Brindled Crescent               | SO834774   | Springfield Park         | 2005       | 2 adults; Sept. Larvae on hawthorn; Apr | NERC s.41 UKBAP |
| 854 | <i>Arctia caja</i>                           | Garden Tiger                          | SO845789   | Podmore                  | 21/04/07   |   | NERC s.41 UKBAP |
| 563 | <i>Arctia caja</i>                           | Garden Tiger                          | SO828796   | Fairfield                | 17/08/11   | caterpillar                             | NERC s.41 UKBAP |
| 512 | <i>Atethmia centrigo</i>                     | Centre-Barred Sallow                  | SO82767955 |                          | 11/09/2015 |   | NERC s.41 UKBAP |
| 512 | <i>Diarsia rubi</i>                          | Small Square-Spot                     | SO82767955 |                          | 11/09/2015 |   | NERC s.41 UKBAP |
| 512 | <i>Ecliptopera silaceata</i>                 | Small Phoenix                         | SO82767955 |                          | 11/09/2015 |   | NERC s.41 UKBAP |
| 706 | <i>Ecliptopera silaceata</i>                 | Small Phoenix                         | SO834774   | Springfield Park         | Jun-05     | 2 Adult                                 | NERC s.41 UKBAP |
| 512 | <i>Ennomos erosaria</i>                      | September Thorn                       | SO82767955 |                          | 11/09/2015 |   | NERC s.41 UKBAP |
| 512 | <i>Ennomos fuscantaria</i>                   | Dusky Thorn                           | SO82767955 |                          | 11/09/2015 |   | NERC s.41 UKBAP |
| 706 | <i>Eugnorisma glareosa form edda</i>         | Autumnal Rustic                       | SO834774   | Springfield Park         | Sep-05     | 2 Adult                                 | NERC s.41 UKBAP |
| 706 | <i>Hemistola chrysoprasaria</i>              | Small Emerald                         | SO834774   | Springfield Park         | 2005       | June, July; 4 adults                    | NERC s.41 UKBAP |
| 869 | <i>Hepialus humuli</i>                       | Ghost Moth                            | SO846775   | Hurcott                  | 24/07/2016 | 1, garden MV trap                       | NERC s.41 UKBAP |
| 512 | <i>Hydraecia micacea</i>                     | Rosy Rustic                           | SO82767955 |                          | 11/09/2015 |   | NERC s.41 UKBAP |
| 706 | <i>Lycia hirtaria</i>                        | Brindled Beauty                       | SO834774   | Springfield Park         | Apr-05     | 1 Adult                                 | NERC s.41 UKBAP |
| 706 | <i>Malacosoma neustria</i>                   | Lackey                                | SO834774   | Springfield Park         | Apr-03     |   | NERC s.41 UKBAP |
| 869 | <i>Melanchra persicariae</i>                 | Dot Moth                              | SO846775   | Hurcott                  | 16/07/2015 | 1                                       | NERC s.41 UKBAP |
| 706 | <i>Melanchra persicariae</i>                 | Dot Moth                              | SO834774   | Springfield Park         | Sep-05     | 2 larva                                 | NERC s.41 UKBAP |
| 726 | <i>Semiothisa clathrata subsp. clathrata</i> | Latticed Heath                        | SO835784   | Sion Hill House          | 10/06/09   |   | NERC s.41 UKBAP |
| 869 | <i>Spilosoma luteum</i>                      | Buff Ermine                           | SO846775   | Hurcott                  | 16/07/2015 | 1                                       | NERC s.41 UKBAP |

| No   | Scientific Name              | Common Name      | Grid Ref   | Location Name              | Date       | Comments   | Status                     |
|------|------------------------------|------------------|------------|----------------------------|------------|--|----------------------------|
| 899  | <i>Stathmopoda pedella</i>   | Alder Signal     | SO848776   | Hurcott & Podmore Pools    | 14/07/2014 |  | Notable B                  |
| 869  | <i>Stathmopoda pedella</i>   | Alder Signal     | SO846775   | Hurcott                    | 28/07/2016 | 1; off <i>Alnus</i> tree                                   | Notable B                  |
| 512  | <i>Tholera decimalis</i>     | Feathered Gothic | SO82767955 |                            | 11/09/2015 |  | NERC s.41 UKBAP            |
| 706  | <i>Tholera decimalis</i>     | Feathered Gothic | SO834774   | Springfield Park           | Sep-05     | 4 Adult  | NERC s.41 UKBAP            |
| 901  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO848778   | Hurcott Meadow             | 26/07/02   |  | NERC s.41 UKBAP            |
| 178  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO856800   | Island Pool                | 20/07/03   | Pool & dry valley; larvae abundant on cinnabar             | NERC s.41 UKBAP            |
| 711  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO834795   | Wolverley                  | 03/07/07   | caterpillars   | NERC s.41 UKBAP            |
| 556  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO828773   | Franche                    | 31/07/07   |  | NERC s.41 UKBAP            |
| 710  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO834789   | Wolverley Court            | 09/08/07   | caterpillars   | NERC s.41 UKBAP            |
| 150  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO846816   | Caunsall                   | 17/08/07   | caterpillars   | NERC s.41 UKBAP            |
| 918  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO849781   | Broadwaters, Kidderminster | 01/07/08   | caterpillars   | NERC s.41 UKBAP            |
| 509  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO826797   | Fairfield                  | 20/07/09   | caterpillar  | NERC s.41 UKBAP            |
| 241  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO811787   | Franche                    | 23/07/09   | caterpillar  | NERC s.41 UKBAP            |
| 899  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO848776   | Greenhill                  | 03/08/11   | caterpillars   | NERC s.41 UKBAP            |
| 1068 | <i>Tyria jacobaeae</i>       | Cinnabar         | SO863795   | Ismere Ho                  | 30/08/12   | caterpillar  | NERC s.41 UKBAP            |
| 703  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO834768   | Kidderminster              | 05/06/2016 |  | NERC s.41 UKBAP            |
| 706  | <i>Tyria jacobaeae</i>       | Cinnabar         | SO834774   | Springfield Park           | Jul-03     |  | NERC s.41 UKBAP            |
| 32   | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO8577     | Hurcott                    | Aug-99     | 1 present  | NERC s.41 UKBAP<br>WorcBAP |
| 915  | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO849775   | Hurcott Meadow             | 28/08/99   | 7/8 Adults 2 in cop  | NERC s.41 UKBAP<br>WorcBAP |
| 901  | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO848778   | Hurcott Meadow             | 28/08/99   | 2 Adults   | NERC s.41 UKBAP<br>WorcBAP |
| 4    | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO8480     | Cookley                    | Sep-99     | 1 present  | NERC s.41 UKBAP<br>WorcBAP |
| 134  | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO841802   | Cookley                    | 01/09/99   | Meadow by Cookley Castings                                 | NERC s.41 UKBAP<br>WorcBAP |
| 15   | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO8579     | Cookley                    | Sep-99     | 1 present  | NERC s.41 UKBAP<br>WorcBAP |
| 971  | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO854798   | Axborough Lane             | 04/09/99   | Meadow   | NERC s.41 UKBAP<br>WorcBAP |
| 945  | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO852785   | Hurcott                    | 04/09/99   | Meadow   | NERC s.41 UKBAP<br>WorcBAP |
| 915  | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO849775   | Hurcott Meadow             | 04/09/99   | 10 adults , 1 ovipositing in horse dung                    | NERC s.41 UKBAP<br>WorcBAP |
| 14   | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO8577     | Hawthorns Stud Farm        | 12/09/99   | 1 male on fresh horse dung in very closely grazed paddocks | NERC s.41 UKBAP<br>WorcBAP |

| No  | Scientific Name              | Common Name      | Grid Ref   | Location Name      | Date     | Comments   | Status                     |
|-----|------------------------------|------------------|------------|--------------------|----------|--|----------------------------|
| 903 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO848780   | Hurcott Pasture    | 12/09/99 | live sighting                                    | NERC s.41 UKBAP<br>WorcBAP |
| 915 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO849775   | Hurcott Meadow     | 14/09/99 | 3 in meadow by park Gate PH                      | NERC s.41 UKBAP<br>WorcBAP |
| 915 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO849775   | Hurcott Meadow     | 10/08/01 | 15+  | NERC s.41 UKBAP<br>WorcBAP |
| 914 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO849773   | Hurcott Meadow     | 27/08/02 |  | NERC s.41 UKBAP<br>WorcBAP |
| 901 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO848778   | Hurcott Meadow     | 27/08/02 |  | NERC s.41 UKBAP<br>WorcBAP |
| 917 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO849777   | Hurcott Meadow     | 27/08/02 |  | NERC s.41 UKBAP<br>WorcBAP |
| 851 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO845778   | Kidderminster      | 27/08/02 | Garden   | NERC s.41 UKBAP<br>WorcBAP |
| 902 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO848779   | Hurcott Meadow     | 30/08/03 | 3  | NERC s.41 UKBAP<br>WorcBAP |
| 923 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO850774   | Hurcott Meadow     | 30/08/03 | 5-10 present                                     | NERC s.41 UKBAP<br>WorcBAP |
| 924 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO850777   | Hurcott Meadow     | 30/08/03 |  | NERC s.41 UKBAP<br>WorcBAP |
| 914 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO849773   | Hurcott Meadow     | 30/08/03 | 5-10 present                                     | NERC s.41 UKBAP<br>WorcBAP |
| 917 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO849777   | Hurcott Meadow     | 30/08/03 | 3  | NERC s.41 UKBAP<br>WorcBAP |
| 941 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO852775   | Hurcott Meadow     | 08/08/04 |  | NERC s.41 UKBAP<br>WorcBAP |
| 891 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO84797771 | Hurcott Meadow     | 08/08/04 | few individuals                                  | NERC s.41 UKBAP<br>WorcBAP |
| 902 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO848779   | Hurcott Meadow     | 08/08/04 | 1 eating a grasshopper whilst sat on Rabbit dung | NERC s.41 UKBAP<br>WorcBAP |
| 875 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO84767775 | Hurcott Meadow     | 08/08/04 | 16, including 3 pairs in cop                     | NERC s.41 UKBAP<br>WorcBAP |
| 915 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO849775   | Hurcott Meadow     | 08/08/04 |  | NERC s.41 UKBAP<br>WorcBAP |
| 160 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO84988022 | Caunsall mdw       | 14/08/04 | 1 in 10 muck piles had a robber fly              | NERC s.41 UKBAP<br>WorcBAP |
| 163 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO85278007 | Axborough Lane mdw | 14/08/04 | Male   | NERC s.41 UKBAP<br>WorcBAP |
| 162 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO85248005 | Axborough Lane mdw | 14/08/04 | female eating beetle                             | NERC s.41 UKBAP<br>WorcBAP |
| 925 | <i>Asilus crabroniformis</i> | Hornet Robberfly | SO850779   | Hurcott Meadow     | 28/08/05 | 1 on cattle dung                                 | NERC s.41 UKBAP<br>WorcBAP |

| No   | Scientific Name              | Common Name         | Grid Ref   | Location Name                       | Date       | Comments   | Status                              |
|------|------------------------------|---------------------|------------|-------------------------------------|------------|--|-------------------------------------|
| 924  | <i>Asilus crabroniformis</i> | Hornet Robberfly    | SO850777   | Hurcott Meadow                      | 28/08/05   | A few  | NERC s.41 UKBAP<br>WorcBAP          |
| 901  | <i>Asilus crabroniformis</i> | Hornet Robberfly    | SO848778   | Hurcott Meadow                      | 28/08/05   | A few  | NERC s.41 UKBAP<br>WorcBAP          |
| 957  | <i>Asilus crabroniformis</i> | Hornet Robberfly    | SO853778   | Hurcott Pool                        | 05/08/06   | 1 dead male  | NERC s.41 UKBAP<br>WorcBAP          |
| 914  | <i>Asilus crabroniformis</i> | Hornet Robberfly    | SO849773   | Hurcott Meadow                      | 05/08/06   | Several adults   | NERC s.41 UKBAP<br>WorcBAP          |
| 145  | <i>Asilus crabroniformis</i> | Hornet Robberfly    | SO806788   | Low Habberley                       | 16/08/06   |  | NERC s.41 UKBAP<br>WorcBAP          |
| 1019 | <i>Didea fasciata</i>        | Didea fasciata      | SO859799   | Island Pool, Ismere                 | 08/08/09   | Male   | Notable                             |
| 869  | <i>Neoempheria lineola</i>   | Neoempheria lineola | SO846775   | Hurcott & Podmore Pools             | 25/07/2014 |  | NERC s.41 UKBAP                     |
| 869  | <i>Stratiomys potamida</i>   | Banded General      | SO846775   | Hurcot                              | 19/08/12   |  | Notable                             |
| 997  | <i>Stratiomys potamida</i>   | Banded General      | SO857779   | Hurcott Wood                        | 14/06/2015 | 1. Near carr wood  | Notable                             |
| 869  | <i>Volucella inanis</i>      | Volucella inanis    | SO846775   | Hurcott                             | 16/08/12   |  | Notable                             |
| 839  | <i>Natrix natrix</i>         | Grass Snake         | SO84567796 | Podmore Pool                        | 1996       |  | WCA NERC s.41 UKBAP                 |
| 706  | <i>Natrix natrix</i>         | Grass Snake         | SO834774   | Springfield Park                    | 2003       |  | WCA NERC s.41 UKBAP                 |
| 735  | <i>Natrix natrix</i>         | Grass Snake         | SO836778   | Broadwaters                         | 12/06/01   |  | WCA NERC s.41 UKBAP                 |
| 958  | <i>Natrix natrix</i>         | Grass Snake         | SO853779   | Hurcott Pool                        | 05/09/02   | Adult seen am  | WCA NERC s.41 UKBAP                 |
| 969  | <i>Natrix natrix</i>         | Grass Snake         | SO854779   | Podmore pool                        | 03/09/04   |  | WCA NERC s.41 UKBAP                 |
| 724  | <i>Natrix natrix</i>         | Grass Snake         | SO835781   | Springfield Park                    | 20/07/07   |  | WCA NERC s.41 UKBAP                 |
| 602  | <i>Natrix natrix</i>         | Grass Snake         | SO829777   | Stourvale                           | 20/08/07   |  | WCA NERC s.41 UKBAP                 |
| 931  | <i>Natrix natrix</i>         | Grass Snake         | SO851778   | Hurcott                             | 30/08/07   | Corpse   | WCA NERC s.41 UKBAP                 |
| 192  | <i>Natrix natrix</i>         | Grass Snake         | SO858806   | Caunsall                            | 04/07/08   | live sighting  | WCA NERC s.41 UKBAP                 |
| 980  | <i>Natrix natrix</i>         | Grass Snake         | SO855777   | Hurcott Hall Farm                   | 07/06/10   | regularly sunbathing in garden,<br>lives under paving slab | WCA NERC s.41 UKBAP                 |
| 674  | <i>Natrix natrix</i>         | Grass Snake         | SO832793   | Wolverley Lock                      | 06/04/11   |  | WCA NERC s.41 UKBAP                 |
| 706  | <i>Natrix natrix</i>         | Grass Snake         | SO834774   | Springfield Park                    | Aug-05     | 6 found.   | WCA NERC s.41 UKBAP                 |
| 760  | <i>Chiroptera</i>            | Bats                | SO838776   | Brecknell Rise,<br>Kidderminster    | 16/07/03   | Roost; droppings on windowsill                             | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 269  | <i>Erinaceus europaeus</i>   | Hedgehog            | SO813769   | Kidderminster                       | 01/05/01   | 1 present  | NERC s.41 UKBAP                     |
| 269  | <i>Erinaceus europaeus</i>   | Hedgehog            | SO813769   | Kidderminster                       | 07/06/01   | 1 present  | NERC s.41 UKBAP                     |
| 271  | <i>Erinaceus europaeus</i>   | Hedgehog            | SO813773   | Kidderminster                       | 12/06/01   | dead on road   | NERC s.41 UKBAP                     |
| 255  | <i>Erinaceus europaeus</i>   | Hedgehog            | SO812773   | Devil's Spittleful &<br>Rifle Range | 08/08/01   | 1 present  | NERC s.41 UKBAP                     |
| 836  | <i>Erinaceus europaeus</i>   | Hedgehog            | SO84507783 | Kidderminster                       | 25/05/03   | casualty (not road)  | NERC s.41 UKBAP                     |
| 272  | <i>Erinaceus europaeus</i>   | Hedgehog            | SO813774   | Kidderminster                       | 07/10/04   | dead on road   | NERC s.41 UKBAP                     |
| 316  | <i>Erinaceus europaeus</i>   | Hedgehog            | SO816778   | Kidderminster                       | 30/10/04   | dead on road   | NERC s.41 UKBAP                     |

| No  | Scientific Name            | Common Name | Grid Ref   | Location Name                  | Date       | Comments  | Status                              |
|-----|----------------------------|-------------|------------|--------------------------------|------------|---|-------------------------------------|
| 705 | <i>Erinaceus europaeus</i> | Hedgehog    | SO834772   | Horse Fair,<br>Kidderminster   | 08/07/05   | 1 dead in road  | NERC s.41 UKBAP                     |
| 434 | <i>Erinaceus europaeus</i> | Hedgehog    | SO823784   | Wolverley                      | 22/09/05   |   | NERC s.41 UKBAP                     |
| 288 | <i>Erinaceus europaeus</i> | Hedgehog    | SO814775   | Habberley                      | 13/05/06   | Corpse  | NERC s.41 UKBAP                     |
| 477 | <i>Erinaceus europaeus</i> | Hedgehog    | SO825767   | Abberley,<br>Kidderminster     | 24/06/06   | dead on road  | NERC s.41 UKBAP                     |
| 361 | <i>Erinaceus europaeus</i> | Hedgehog    | SO819776   | Franche school,<br>forest      | 04/06/07   | Corpse  | NERC s.41 UKBAP                     |
| 273 | <i>Erinaceus europaeus</i> | Hedgehog    | SO813775   | Franche                        | 16/10/07   | dead on road  | NERC s.41 UKBAP                     |
| 689 | <i>Erinaceus europaeus</i> | Hedgehog    | SO833777   | Kidderminster                  | 16/07/11   | dead on road  | NERC s.41 UKBAP                     |
| 395 | <i>Erinaceus europaeus</i> | Hedgehog    | SO821772   | Woodland Av.,<br>Kidderminster | 10/08/12   | on grass verge at 12.30am   | NERC s.41 UKBAP                     |
| 786 | <i>Erinaceus europaeus</i> | Hedgehog    | SO840782   | Sion Av.,<br>Kidderminster     | 25/05/2013 | Lives in back garden. There were 2 last yr but have only seen 1 this yr | NERC s.41 UKBAP                     |
| 771 | <i>Erinaceus europaeus</i> | Hedgehog    | SO839782   | Sion Hill jct Sion<br>Ave      | 28/03/2016 | In centre of road   | NERC s.41 UKBAP                     |
| 313 | <i>Lepus europaeus</i>     | Brown Hare  | SO816767   | Habberley Valley               | 10/01/98   | 1 dead on road  | NERC s.41 UKBAP                     |
| 107 | <i>Lepus europaeus</i>     | Brown Hare  | SO831805   | Blakeshall Farm                | 20/06/07   | live sighting; 4  | NERC s.41 UKBAP                     |
| 124 | <i>Lepus europaeus</i>     | Brown Hare  | SO836806   | Cookley                        | 23/01/10   |   | NERC s.41 UKBAP                     |
| 22  | <i>Lutra lutra</i>         | Otter       | SO8377     |                                | 23/07/02   | 1 present   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 558 | <i>Lutra lutra</i>         | Otter       | SO828778   | Puxton Marsh,<br>River Stour   | 10/04/05   |   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 23  | <i>Lutra lutra</i>         | Otter       | SO8379     | Wolverley                      | 23/05/05   | 1 Dead  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 697 | <i>Lutra lutra</i>         | Otter       | SO83437606 | River Stour,<br>Kidderminster  | 20/03/09   | far end of Morrisons car park, taken from opp. bank to tracks photos    | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 696 | <i>Lutra lutra</i>         | Otter       | SO83417614 | River Stour,<br>Kidderminster  | 20/03/09   | from in car park, many tracks & spraints on sandy mounds                | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 695 | <i>Lutra lutra</i>         | Otter       | SO83397619 | River Stour,<br>Kidderminster  | 20/03/09   | old tracks below bridge Photo   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 688 | <i>Lutra lutra</i>         | Otter       | SO83377624 | River Stour,<br>Kidderminster  | 20/03/09   | tracks below in sand, Morrisons   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 677 | <i>Lutra lutra</i>         | Otter       | SO83367630 | River Stour,<br>Kidderminster  | 20/03/09   | tracks in sand, Morrisons   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 629 | <i>Lutra lutra</i>         | Otter       | SO83097617 | River Stour,<br>Kidderminster  | 20/03/09   | outside fire station, tracks in sand below wall, photo                  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 638 | <i>Lutra lutra</i>         | Otter       | SO83147642 | River Stour,<br>Kidderminster  | 20/03/09   | dead on track   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |

| No   | Scientific Name    | Common Name | Grid Ref     | Location Name                  | Date       | Comments  | Status                              |
|------|--------------------|-------------|--------------|--------------------------------|------------|---|-------------------------------------|
| 633  | <i>Lutra lutra</i> | Otter       | SO83107667   | River Stour, Kidderminster     | 20/03/09   | tracks opposite bank in narrow sand behind TJ Hughes, photo | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 630  | <i>Lutra lutra</i> | Otter       | SO83097651   | River Stour, Kidderminster     | 20/03/09   | Where tributary joins, spraint on sandy pile, photo         | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 609  | <i>Lutra lutra</i> | Otter       | SO83037606   | Kidderminster, Carter's bridge | 11/08/09   | sandy beach under bridge                                    | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 654  | <i>Lutra lutra</i> | Otter       | SO831762     | Kidderminster                  | 11/08/09   | concrete under bridge, fire station                         | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 631  | <i>Lutra lutra</i> | Otter       | SO83097665   | Kidderminster by TJHughes      | 11/08/09   |   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 627  | <i>Lutra lutra</i> | Otter       | SO830792     | R Stour, Wolverley             | 23/03/2011 | Old spraint under bridge nr farm shop on old sand bag       | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 623  | <i>Lutra lutra</i> | Otter       | SO830765     |                                | 21/07/2015 |   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 655  | <i>Lutra lutra</i> | Otter       | SO831763     | R Stour, Kidderminster         | 22/07/2015 | 4 on river next to Tesco                                    | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 21   | <i>Lutra lutra</i> | Otter       | SO8376       | Kidderminster                  | 20/08/2015 | Juvenile reported in centre of town                         | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 21   | <i>Lutra lutra</i> | Otter       | SO8376       | Kidderminster                  | 20/08/15   | Reported to be in centre of Kidderminster                   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 1426 | <i>Lutra lutra</i> | Otter       | SO830764     | R Stour, Husum Bridge          | 20/08/2015 | Juvenile (c.1 yr old) swimming in centre of town            | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 622  | <i>Lutra lutra</i> | Otter       | SO830764     | River Stour, Husum Bridge      | 20/08/15   | Young otter (c.1yr old) swimming in centre of town          | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 687  | <i>Lutra lutra</i> | Otter       | SO833761     | River Stour, Dixon St.         | 12/11/15   |   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 168  | <i>Lutra lutra</i> | Otter       | SO8547780663 | A449, Caunsall                 | 23/12/15   | dead on road  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 1008 | <i>Lutra lutra</i> | Otter       | SO85887796   | Hurcott Wood, Blakedown Brook  | 04/08/2016 | Spraint on water level control weir                         | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 559  | <i>Lutra lutra</i> | Otter       | SO82877938   | Wolverley, Drakelow Brook      | 10/08/2016 | Spraint & prints along brook                                | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 603  | <i>Lutra lutra</i> | Otter       | SO82977924   | Wolverley, R. Stour            | 10/08/2016 | Spraint by river, scraped mound in silt                     | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 691  | <i>Lutra lutra</i> | Otter       | SO83377951   | Wolverley, Forge Cottage       | 10/08/2016 | Spraint on Mill weir  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 480  | <i>Lutra lutra</i> | Otter       | SO82607720   | Kidderminster, R Stour         | 10/08/2016 | Tracks  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 635  | <i>Lutra lutra</i> | Otter       | SO83117654   | Kidderminster, R Stour         | 10/08/2016 | Tracks in flood relief channel under Brintons old factory   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |

| No  | Scientific Name    | Common Name | Grid Ref   | Location Name                | Date       | Comments  | Status                           |
|-----|--------------------|-------------|------------|------------------------------|------------|---|----------------------------------|
| 537 | <i>Lutra lutra</i> | Otter       | SO82857879 | Beachcote, R. Stour          | 10/08/2016 | Spraint under new flood defence access bridge           | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 632 | <i>Lutra lutra</i> | Otter       | SO83097786 | Puxton, Blakedown Brook      | 10/08/2016 | Spraint on low cattle access bridge over Brook          | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 901 | <i>Meles meles</i> | Badger      | SO848778   | Hurcott Meadow               | 08/05/01   | 2   | PBA                              |
| 204 | <i>Meles meles</i> | Badger      | SO809795   | Kidderminster                | 22/08/01   | casualty (not road)                                     | PBA                              |
| 112 | <i>Meles meles</i> | Badger      | SO833800   | Cookley                      | 01/09/01   | Dung or other signs                                     | PBA                              |
| 50  | <i>Meles meles</i> | Badger      | SO811807   | Drakelow                     | 17/03/02   | tracks/trail  | PBA                              |
| 72  | <i>Meles meles</i> | Badger      | SO820810   | Blakeshall                   | 24/04/02   | dead on road  | PBA                              |
| 851 | <i>Meles meles</i> | Badger      | SO845778   | Kidderminster                | 14/07/02   |   | PBA                              |
| 475 | <i>Meles meles</i> | Badger      | SO825761   | Kidderminster                | 01/09/02   |   | PBA                              |
| 836 | <i>Meles meles</i> | Badger      | SO84507783 | Kidderminster                | 24/09/02   | live sighting   | PBA                              |
| 946 | <i>Meles meles</i> | Badger      | SO852786   | Kidderminster                | 03/11/02   | casualty (not road)                                     | PBA                              |
| 116 | <i>Meles meles</i> | Badger      | SO834808   | Cookley                      | 06/02/03   | dung/droppings, etc.                                    | PBA                              |
| 836 | <i>Meles meles</i> | Badger      | SO84507783 | Kidderminster                | 14/03/03   | live sighting   | PBA                              |
| 996 | <i>Meles meles</i> | Badger      | SO857774   | Kidderminster                | 23/03/03   | dead on road  | PBA                              |
| 836 | <i>Meles meles</i> | Badger      | SO84507783 | Kidderminster                | 25/05/03   | live sighting   | PBA                              |
| 694 | <i>Meles meles</i> | Badger      | SO833796   | Cookley                      | 21/06/03   | dung/droppings, etc.                                    | PBA                              |
| 118 | <i>Meles meles</i> | Badger      | SO834815   | Blakeshall                   | 13/12/03   | Dung pits & tracks                                      | PBA                              |
| 291 | <i>Meles meles</i> | Badger      | SO814790   | Fairfield                    | 13/01/04   | dung/droppings, etc.                                    | PBA                              |
| 103 | <i>Meles meles</i> | Badger      | SO829812   | Blakeshall Common            | 21/02/04   |   | PBA                              |
| 415 | <i>Meles meles</i> | Badger      | SO822798   | Wolverley                    | 06/03/04   | dung/droppings, etc.                                    | PBA                              |
| 967 | <i>Meles meles</i> | Badger      | SO854774   | Kidderminster                | 12/04/04   | dead on road  | PBA                              |
| 205 | <i>Meles meles</i> | Badger      | SO809798   | Cornhill Coppice             | 04/08/04   | Sett & tracks   | PBA                              |
| 96  | <i>Meles meles</i> | Badger      | SO826806   | Drakelow                     | 12/02/05   | dung/droppings, etc.                                    | PBA                              |
| 290 | <i>Meles meles</i> | Badger      | SO814786   | Franche                      | 12/02/05   | Occupied sett   | PBA                              |
| 397 | <i>Meles meles</i> | Badger      | SO821794   | Fairfield                    | 11/02/06   | casualty (not road)                                     | PBA                              |
| 959 | <i>Meles meles</i> | Badger      | SO853789   | Lea Castle Hospital          | 14/04/06   |   | PBA                              |
| 196 | <i>Meles meles</i> | Badger      | SO859805   | Caunsall                     | 22/01/07   | tracks/trail  | PBA                              |
| 453 | <i>Meles meles</i> | Badger      | SO824785   | Franche                      | 22/04/07   | Corpse  | PBA                              |
| 107 | <i>Meles meles</i> | Badger      | SO831805   | Blakeshall Farm              | 20/06/07   | Live sighting between 21:15-22:30                       | PBA                              |
| 759 | <i>Meles meles</i> | Badger      | SO838772   | Shrubbery St., Kidderminster | 01/04/08   | Sett  | PBA                              |
| 454 | <i>Meles meles</i> | Badger      | SO824786   | Wolverley                    | 14/06/08   | dead on road  | PBA                              |
| 807 | <i>Meles meles</i> | Badger      | SO842767   | Kidderminster                | 29/01/09   | Active sett on railway cuttings, with another c.200m on | PBA                              |
| 137 | <i>Meles meles</i> | Badger      | SO841815   | Blakeshall/Caunsall          | 28/03/09   | casualty (not road)                                     | PBA                              |
| 970 | <i>Meles meles</i> | Badger      | SO854786   | Lea Castle                   | 22/02/10   | 1 Dead  | PBA                              |

| No   | Scientific Name           | Common Name      | Grid Ref     | Location Name                       | Date       | Comments  | Status                              |
|------|---------------------------|------------------|--------------|-------------------------------------|------------|---|-------------------------------------|
| 819  | <i>Meles meles</i>        | Badger           | SO843787     | Wolverley                           | 22/02/10   | 1 Dead  | PBA                                 |
| 348  | <i>Meles meles</i>        | Badger           | SO818781     | Wolverley                           | 17/08/13   | Corpse  | PBA                                 |
| 454  | <i>Meles meles</i>        | Badger           | SO824786     | Kidderminster                       | 29/01/14   | dead on road  | PBA                                 |
| 13   | <i>Meles meles</i>        | Badger           | SO8179       | Kidderminster                       | 29/01/2014 |   | PBA                                 |
| 161  | <i>Meles meles</i>        | Badger           | SO851800     | A449                                | 18/07/2016 | Road kill   | PBA                                 |
| 506  | <i>Micromys minutus</i>   | Harvest Mouse    | SO826790     | Mill Lane,<br>Wolverley             | 28/11/13   | Nest in long grass  | NERC s.41 UKBAP                     |
| 182  | <i>Mustela putorius</i>   | Polecat          | SO856809     | Cookley                             | 17/07/92   | 1 present   | NERC s.41 UKBAP                     |
| 944  | <i>Mustela putorius</i>   | Polecat          | SO852779     | Kidderminster                       | 12/11/93   | 1 present   | NERC s.41 UKBAP                     |
| 890  | <i>Mustela putorius</i>   | Polecat          | SO847795     | Lea Castle                          | 11/07/95   | 1 present   | NERC s.41 UKBAP                     |
| 798  | <i>Mustela putorius</i>   | Polecat          | SO841785     |                                     | 20/04/02   | dead on road  | NERC s.41 UKBAP                     |
| 535  | <i>Mustela putorius</i>   | Polecat          | SO827793     | Kidderminster                       | 29/06/02   | dead on road  | NERC s.41 UKBAP                     |
| 181  | <i>Mustela putorius</i>   | Polecat          | SO856808     | Caunsall                            | 01/09/02   | dead on road  | NERC s.41 UKBAP                     |
| 198  | <i>Mustela putorius</i>   | Polecat          | SO860800     | Five Ways                           | 01/08/03   | dead on road  | NERC s.41 UKBAP                     |
| 453  | <i>Mustela putorius</i>   | Polecat          | SO824785     | Wolverley                           | 25/02/04   | dead on road  | NERC s.41 UKBAP                     |
| 535  | <i>Mustela putorius</i>   | Polecat          | SO827793     | Wolverley                           | 09/03/05   | dead male on road   | NERC s.41 UKBAP                     |
| 317  | <i>Mustela putorius</i>   | Polecat          | SO816782     | Devil's Spittleful &<br>Rifle Range | 02/07/05   | Female orphan collected & held at<br>RSPCA Stapeley Grange                                      | NERC s.41 UKBAP                     |
| 4    | <i>Mustela putorius</i>   | Polecat          | SO8480       | Cookley                             | 06/09/05   | Recovered as juveniles, then<br>released.   | NERC s.41 UKBAP                     |
| 476  | <i>Mustela putorius</i>   | Polecat          | SO825765     | Kidderminster                       | 17/07/06   | Mother & 2 young living under<br>decking in garden. All trapped &<br>taken into veterinary care | NERC s.41 UKBAP                     |
| 396  | <i>Mustela putorius</i>   | Polecat          | SO821774     |                                     | 01/10/07   | dead on road  | NERC s.41 UKBAP                     |
| 144  | <i>Mustela putorius</i>   | Polecat          | SO844807     |                                     | 16/05/08   | Looked to be Male from it's size  | NERC s.41 UKBAP                     |
| 144  | <i>Mustela putorius</i>   | Polecat          | SO844807     | nr River Stour                      | 16/06/08   | Running along fenceline towards<br>river. Looked male from size.                                | NERC s.41 UKBAP                     |
| 242  | <i>Mustela putorius</i>   | Polecat          | SO811798     | Wolverley                           | 01/01/14   | Seen on camera trap   | NERC s.41 UKBAP                     |
| 242  | <i>Mustela putorius</i>   | Polecat          | SO811798     | Old Coppice                         | 31/01/2014 | Caught on Trail Cam   | NERC s.41 UKBAP                     |
| 1045 | <i>Mustela putorius</i>   | Polecat          | SO861791     | Wolverley                           | 29/06/2015 |   | NERC s.41 UKBAP                     |
| 313  | <i>Myotis</i>             | Unidentified Bat | SO816767     | Baxter College,<br>Kidderminster    | 12/05/2009 | Foraging & flying in locality   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 1056 | <i>Myotis</i>             | Unidentified Bat | SO8629678170 | Hurcott                             | 14/06/10   | Whiskered/Brandt's - adult male   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 623  | <i>Myotis</i>             | Unidentified Bat | SO830765     |                                     | 06/07/2015 |   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 1056 | <i>Myotis brandtii</i>    | Brandt's Bat     | SO8629678170 | Hurcott                             | 14/06/10   | Pregnant female   | WCA ECH4 WorcBAP                    |
| 136  | <i>Myotis daubentonii</i> | Daubenton's Bat  | SO841805     | Steel Stampings,<br>Cookley         | 10/09/92   | singleton, oiled  | WCA ECH4 WorcBAP                    |



| No  | Scientific Name           | Common Name     | Grid Ref     | Location Name                      | Date       | Comments  | Status                              |
|-----|---------------------------|-----------------|--------------|------------------------------------|------------|---|-------------------------------------|
| 142 | <i>Myotis daubentonii</i> | Daubenton's Bat | SO843805     | Caunsall                           | 07/06/02   |   | WCA ECH4 WorcBAP                    |
| 627 | <i>Myotis daubentonii</i> | Daubenton's Bat | SO830792     | Cookley                            | 07/06/02   |   | WCA ECH4 WorcBAP                    |
| 177 | <i>Myotis daubentonii</i> | Daubenton's Bat | SO855809     | Caunsall                           | 07/06/02   |   | WCA ECH4 WorcBAP                    |
| 958 | <i>Myotis daubentonii</i> | Daubenton's Bat | SO853779     | Hurcott Pool                       | 05/09/02   | aural bat detector; 1   | WCA ECH4 WorcBAP                    |
| 707 | <i>Myotis daubentonii</i> | Daubenton's Bat | SO834778     | Stack Pools                        | 06/09/02   |   | WCA ECH4 WorcBAP                    |
| 944 | <i>Myotis daubentonii</i> | Daubenton's Bat | SO852779     | Hurcott Pool                       | 18/05/11   | Foraging over pool  | WCA ECH4 WorcBAP                    |
| 676 | <i>Myotis daubentonii</i> | Daubenton's Bat | SO8336277845 | Springfield Park,<br>Kidderminster | 13/09/11   |   | WCA ECH4 WorcBAP                    |
| 623 | <i>Myotis daubentonii</i> | Daubenton's Bat | SO830765     |                                    | 22/07/2015 |   | WCA ECH4 WorcBAP                    |
| 270 | <i>Myotis nattereri</i>   | Natterer's Bat  | SO813772     | Briars Hotel site,<br>Habberley Rd | 23/06/08   |   | WCA ECH4 WorcBAP                    |
| 186 | <i>Nyctalus</i>           | Nyctalus sp.    | SO857804     | Common Farm<br>Barn, Caunsall      | 05/08/2008 | Flying in locality  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 270 | <i>Nyctalus leisleri</i>  | Lesser Noctule  | SO813772     | Briars Hotel site,<br>Habberley Rd | 31/05/08   | Recorded calls sent to expert for ID confirmation   | WCA ECH4 WorcBAP                    |
| 936 | <i>Nyctalus leisleri</i>  | Lesser Noctule  | SO8520977913 | Hurcott Pool                       | 20/05/11   | Foraging over water   | WCA ECH4 WorcBAP                    |
| 623 | <i>Nyctalus leisleri</i>  | Lesser Noctule  | SO830765     |                                    | 14/07/2015 |   | WCA ECH4 WorcBAP                    |
| 77  | <i>Nyctalus noctula</i>   | Noctule         | SO821801     | Drakelow Lane,<br>Wolverley        | 07/08/92   | juvenile female singleton   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 958 | <i>Nyctalus noctula</i>   | Noctule         | SO853779     | Hurcott Pool                       | 05/09/02   | aural bat detector; 1   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 836 | <i>Nyctalus noctula</i>   | Noctule         | SO84507783   | Kidderminster                      | 29/05/03   | aural bat detector  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 956 | <i>Nyctalus noctula</i>   | Noctule         | SO853773     | Hodge Hill Farm                    | 26/07/06   | Emergence survey; passed over site & foraged over fields to N                                       | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 270 | <i>Nyctalus noctula</i>   | Noctule         | SO813772     | Briars Hotel site,<br>Habberley Rd | 31/05/08   |   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 270 | <i>Nyctalus noctula</i>   | Noctule         | SO813772     | Briars Hotel site,<br>Habberley Rd | 19/06/08   |   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 270 | <i>Nyctalus noctula</i>   | Noctule         | SO813772     | Briars Hotel site,<br>Habberley Rd | 23/06/08   |   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 143 | <i>Nyctalus noctula</i>   | Noctule         | SO843808     | Cookley                            | 25/06/08   | 3 large bats flying above trees along river. Flew lower over car park & heard to 'chirp' in flight. | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 313 | <i>Nyctalus noctula</i>   | Noctule         | SO816767     | Baxter College,<br>Kidderminster   | 12/05/2009 | Foraging & flying in locality   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 360 | <i>Nyctalus noctula</i>   | Noctule         | SO819769     | The Elms,<br>Habberley Rd          | 03/06/09   | 1 in flight   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 772 | <i>Nyctalus noctula</i>   | Noctule         | SO839784     | Sion Hill Middle<br>School         | 26/08/2009 |   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |

| No  | Scientific Name                  | Common Name                | Grid Ref     | Location Name                    | Date       | Comments   | Status                              |
|-----|----------------------------------|----------------------------|--------------|----------------------------------|------------|--|-------------------------------------|
| 944 | <i>Nyctalus noctula</i>          | Noctule                    | SO852779     | Hurcott Pool                     | 18/05/11   | Foraging over pool   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 936 | <i>Nyctalus noctula</i>          | Noctule                    | SO8520977913 | Hurcott Pool                     | 20/05/11   | Foraging over water  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 414 | <i>Nyctalus noctula</i>          | Noctule                    | SO822769     |                                  | 01/07/2014 |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 623 | <i>Nyctalus noctula</i>          | Noctule                    | SO830765     |                                  | 06/07/2015 |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 623 | <i>Nyctalus noctula</i>          | Noctule                    | SO830765     |                                  | 14/07/2015 |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 623 | <i>Nyctalus noctula</i>          | Noctule                    | SO830765     |                                  | 22/07/2015 |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 707 | <i>Pipistrellus</i>              | Pipistrelle sp.            | SO834778     | Stack Pools                      | 06/09/02   |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 172 | <i>Pipistrellus</i>              | Pipistrelle sp.            | SO8556780947 | Wolverley and<br>Cookley         | 03/07/13   | auditory record  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 698 | <i>Pipistrellus</i>              | Pipistrelle sp.            | SO83457771   | Kidderminster                    | 05/08/13   | Corpse   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 70  | <i>Pipistrellus</i>              | Pipistrelle sp.            | SO82048022   | Kidderminster                    | 17/08/13   |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 944 | <i>Pipistrellus nathusii</i>     | Nathusius's<br>Pipistrelle | SO852779     | Hurcott Pool                     | 18/05/11   | Foraging over pool   | WCA ECH4 WorcBAP                    |
| 139 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle         | SO842808     | Caunsall Rd,<br>Cookley          | 30/06/92   | Roost site: 2 dead babies  | WCA ECH4 WorcBAP                    |
| 159 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle         | SO849809     | Caunsall Rd,<br>Cookley          | 02/07/92   | Roost site: 24 in garage   | WCA ECH4 WorcBAP                    |
| 913 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle         | SO849768     | Osborne Close,<br>Kidderminster  | 24/08/92   | singleton, injured   | WCA ECH4 WorcBAP                    |
| 477 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle         | SO825767     | Hume St,<br>Kidderminster        | 17/08/94   | juvenile female singleton, on floor<br>of garage, broken left forearm      | WCA ECH4 WorcBAP                    |
| 477 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle         | SO825767     | Kidderminster,<br>Hume St        | 17/08/94   | 1 present  | WCA ECH4 WorcBAP                    |
| 477 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle         | SO825767     | Stourport<br>Swimming Baths      | 06/10/94   | singleton, flying over indoor pool<br>into false ceiling space             | WCA ECH4 WorcBAP                    |
| 181 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle         | SO808789     | Kidderminster,<br>Hollies Lane   | 16/10/94   | 1 present  | WCA ECH4 WorcBAP                    |
| 181 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle         | SO808789     | Holly Bank Farm                  | 16/10/94   | singleton, mauled by cat left wing<br>broken, possible roost in loft       | WCA ECH4 WorcBAP                    |
| 931 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle         | SO851778     | Penstock Court,<br>Kidderminster | 16/07/95   | Roost site: 71 visual ID, exit point<br>50ft up in converted mill building | WCA ECH4 WorcBAP                    |

| No  | Scientific Name                  | Common Name        | Grid Ref   | Location Name                                  | Date     | Comments   | Status           |
|-----|----------------------------------|--------------------|------------|--|----------|--|------------------|
| 931 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO851778   | Kidderminster,<br>Hurcott Lane                 | 16/07/95 | 1 present  | WCA ECH4 WorcBAP |
| 331 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO817778   | Wilton Avenue,<br>Kidderminster                | 18/07/95 | singleton broken wing, put down by vet   | WCA ECH4 WorcBAP |
| 331 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO817778   | Kidderminster,<br>Wilton Av.                   | 19/07/95 | 1 present  | WCA ECH4 WorcBAP |
| 134 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO841802   | Cookley, canal                                 | 21/02/01 | Flying in daylight   | WCA ECH4 WorcBAP |
| 605 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO829794   | Bishop's Field                                 | 09/05/01 | 1 present  | WCA ECH4 WorcBAP |
| 76  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO821800   | Blakeshall                                     | 02/06/02 |  | WCA ECH4 WorcBAP |
| 362 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO819793   | Low Habberley                                  | 02/06/02 |  | WCA ECH4 WorcBAP |
| 455 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO824794   | Kidderminster                                  | 02/06/02 |  | WCA ECH4 WorcBAP |
| 627 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO830792   | Kidderminster<br>Canal                         | 02/06/02 |  | WCA ECH4 WorcBAP |
| 349 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO818784   | Low Habberley                                  | 02/06/02 |  | WCA ECH4 WorcBAP |
| 287 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO814773   | Habberley Valley                               | 02/06/02 |  | WCA ECH4 WorcBAP |
| 958 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO853779   | Hurcott Pool                                   | 05/09/02 | aural bat detector; 2  | WCA ECH4 WorcBAP |
| 836 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO84507783 | Kidderminster                                  | 29/05/03 | aural bat detector   | WCA ECH4 WorcBAP |
| 32  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8577     | Hurcott Lane,<br>Hurcott                       | 16/09/03 | ID by sight & sound. Fresh droppings on windowsills. Possibly roosting under slates. | WCA ECH4 WorcBAP |
| 875 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO84767775 | Hurcott Meadow                                 | 09/10/03 | 45Khz echo-location  | WCA ECH4 WorcBAP |
| 531 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO827760   | Park Lane,<br>Kidderminster                    | 18/08/04 | Roost; possibly Pipistrelles from droppings & house owners description               | WCA ECH4 WorcBAP |
| 868 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO846774   | Landoak Drive,<br>Green Hill,<br>Kidderminster | 24/05/05 | Roost; access via gable apex, droppings  | WCA ECH4 WorcBAP |
| 956 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO853773   | Hodge Hill Farm                                | 26/07/06 | Emergence survey; 1+ roosting in farm building. Fresh droppings & feeding remains    | WCA ECH4 WorcBAP |
| 270 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO813772   | Briars Hotel site,<br>Habberley Rd             | 31/05/08 |  | WCA ECH4 WorcBAP |
| 270 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO813772   | Briars Hotel site,<br>Habberley Rd             | 19/06/08 |  | WCA ECH4 WorcBAP |
| 270 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO813772   | Briars Hotel site,<br>Habberley Rd             | 23/06/08 |  | WCA ECH4 WorcBAP |
| 360 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO819769   | The Elms,<br>Habberley Rd                      | 23/07/08 | Roost & sighting   | WCA ECH4 WorcBAP |

| No  | Scientific Name                  | Common Name        | Grid Ref     | Location Name                   | Date       | Comments   | Status           |
|-----|----------------------------------|--------------------|--------------|---------------------------------|------------|--|------------------|
| 186 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO857804     | Common Farm Barn, Caunsall      | 05/08/2008 | Roost  | WCA ECH4 WorcBAP |
| 313 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO816767     | Baxter College, Kidderminster   | 12/05/2009 | Foraging & flying in locality                                    | WCA ECH4 WorcBAP |
| 360 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO819769     | The Elms, Habberley Rd          | 03/06/09   | Roost & sighting   | WCA ECH4 WorcBAP |
| 772 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO839784     | Sion Hill Middle School         | 26/08/2009 | Foraging & flying in locality                                    | WCA ECH4 WorcBAP |
| 130 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO840801     | Cookley                         | 27/04/10   | 6 heard & heading from house bordering Lea lane, due NW to canal | WCA ECH4 WorcBAP |
| 944 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO852779     | Hurcott Pool                    | 18/05/11   | Foraging over pool   | WCA ECH4 WorcBAP |
| 360 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO819769     | The Elms Hotel, Habberley Rd    | 15/06/11   | Flying & foraging on site  | WCA ECH4 WorcBAP |
| 676 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8336277845 | Springfield Park, Kidderminster | 13/09/11   |  | WCA ECH4 WorcBAP |
| 360 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO819769     | The Elms Hotel                  | 21/09/11   | 2 present  | WCA ECH4 WorcBAP |
| 102 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8295180205 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |
| 69  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8202980137 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |
| 565 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8289379624 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |
| 147 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8459280814 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |
| 566 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8291579609 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |
| 106 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8317681131 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |
| 155 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8478280898 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |
| 334 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8183079795 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |
| 332 | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8179079848 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |
| 65  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8182880388 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |
| 64  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle | SO8180080547 | Wolverley and Cookley           | 03/07/13   | auditory record  | WCA ECH4 WorcBAP |

| No   | Scientific Name                  | Common Name         | Grid Ref     | Location Name                   | Date       | Comments  | Status                           |
|------|----------------------------------|---------------------|--------------|---------------------------------|------------|---|----------------------------------|
| 414  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle  | SO822769     |                                 | 01/07/2014 |   | WCA ECH4 WorcBAP                 |
| 414  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle  | SO822769     |                                 | 08/07/2014 |   | WCA ECH4 WorcBAP                 |
| 164  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle  | SO8081977515 | Kidderminster Foreign           | 17/09/14   | auditory record   | WCA ECH4 WorcBAP                 |
| 623  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle  | SO830765     |                                 | 06/07/2015 |   | WCA ECH4 WorcBAP                 |
| 623  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle  | SO830765     |                                 | 14/07/2015 |   | WCA ECH4 WorcBAP                 |
| 623  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle  | SO830765     |                                 | 22/07/2015 |   | WCA ECH4 WorcBAP                 |
| 349  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle  | SO818784     | Franche                         | Jun-03     |   | WCA ECH4 WorcBAP                 |
| 286  | <i>Pipistrellus pipistrellus</i> | Common Pipistrelle  | SO814772     | Blake marsh                     | Jul-01     | 1 present   | WCA ECH4 WorcBAP                 |
| 270  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO813772     | Briars Hotel site, Habberley Rd | 31/05/08   |   | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 270  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO813772     | Briars Hotel site, Habberley Rd | 23/06/08   |   | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 605  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO829794     | Bishop's Field                  | 12/09/08   | aural bat detector; 4   | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 313  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO816767     | Baxter College, Kidderminster   | 12/05/2009 | Foraging & flying in locality                                     | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 360  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO819769     | The Elms, Habberley Rd          | 03/06/09   | 1 in flight   | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 772  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO839784     | Sion Hill Middle School         | 26/08/2009 |   | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 130  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO840801     | Cookley                         | 27/04/10   | 5; heard & heading from house bordering Lea lane, due NW to canal | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 1056 | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO8629678170 | Hurcott                         | 14/06/10   | Adult male  | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 944  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO852779     | Hurcott Pool                    | 18/05/11   | Foraging over pool  | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 360  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO819769     | The Elms Hotel, Habberley Rd    | 15/06/11   | Flying & foraging on site   | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 676  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO8336277845 | Springfield Park, Kidderminster | 13/09/11   |   | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 156  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO8481480905 | Wolverley and Cookley           | 03/07/13   | auditory record   | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 58   | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO8135180451 | Wolverley and Cookley           | 03/07/13   | auditory record   | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 607  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO8300579823 | Wolverley and Cookley           | 03/07/13   | auditory record   | WCA NERC s.41 UKBAP ECH4 WorcBAP |
| 414  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle | SO822769     |                                 | 01/07/2014 |   | WCA NERC s.41 UKBAP ECH4 WorcBAP |

| No   | Scientific Name              | Common Name          | Grid Ref     | Location Name                 | Date       | Comments   | Status                              |
|------|------------------------------|----------------------|--------------|-------------------------------|------------|--|-------------------------------------|
| 414  | <i>Pipistrellus pygmaeus</i> | Soprano Pipistrelle  | SO822769     |                               | 08/07/2014 |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 623  | <i>Pipistrellus pygmaeus</i> | Soprano Pipistrelle  | SO830765     |                               | 06/07/2015 |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 623  | <i>Pipistrellus pygmaeus</i> | Soprano Pipistrelle  | SO830765     |                               | 14/07/2015 |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 623  | <i>Pipistrellus pygmaeus</i> | Soprano Pipistrelle  | SO830765     |                               | 22/07/2015 |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 104  | <i>Plecotus auritus</i>      | Brown Long-Eared Bat | SO829813     | Blakeshall Hall               | 22/05/06   | Accumulations of droppings indicate moderate maternity roost used over number of yrs                 | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 956  | <i>Plecotus auritus</i>      | Brown Long-Eared Bat | SO853773     | Hodge Hill Farm               | 26/07/06   | Emergence survey; 1 roosting in farm building, 4 other possible roosting bats. 30 fresh droppings.   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 186  | <i>Plecotus auritus</i>      | Brown Long-Eared Bat | SO857804     | Common Farm Barn, Caunsall    | 05/08/2008 | Roost  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 955  | <i>Plecotus auritus</i>      | Brown Long-Eared Bat | SO853766     | Offmore Farmhouse Care Home   | 19/11/08   | Small cluster of relatively fresh droppings in roof void, modern wing of house. Indicated roosting b | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 313  | <i>Plecotus auritus</i>      | Brown Long-Eared Bat | SO816767     | Baxter College, Kidderminster | 12/05/2009 | Foraging & flying in locality  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 1056 | <i>Plecotus auritus</i>      | Brown Long-Eared Bat | SO8629678170 | Hurcott                       | 14/06/10   | 1 Female   | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 414  | <i>Plecotus auritus</i>      | Brown Long-Eared Bat | SO822769     |                               | 01/07/2014 |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |
| 414  | <i>Plecotus auritus</i>      | Brown Long-Eared Bat | SO822769     |                               | 08/07/2014 |  | WCA NERC s.41 UKBAP<br>ECH4 WorcBAP |

**Special Areas of Conservation - objects, which are wholly or partially within 3km of site.**  
**No records found.**

**SSSI - objects, which are wholly or partially within 3km of site.**

| SSSI Name               | SSSI Easting | SSSI Northing |
|-------------------------|--------------|---------------|
| Hurcott & Podmore Pools | 385614.45    | 277962.75     |
| Hurcott Pasture         | 384891.39    | 277997.56     |
| Stourvale Marsh         | 383057.14    | 278247.53     |
| Puxton Marshes          | 382754.5     | 277762.75     |

**Local Wildlife Sites - objects, which are wholly or partially within 3km of site.**

| Site Ref | Site Name                              | Grid Ref |
|----------|--|----------|
| SO 87/03 | Easthams Coppice                       | SO803787 |
| SO 87/18 | Wolverley Court Lock Carr              | SO833783 |
| SO 87/17 | Wolverley Marsh                        | SO830794 |
| SO 88/02 | Kingsford Heath                        | SO820808 |
| SO 87/14 | Staffordshire and Worcestershire Canal | SO828766 |
| SO 87/12 | River Stour                            | SO831761 |
| SO 87/06 | Cornhill Coppice                       | SO809797 |
| SO 87/01 | Parkatt Wood and Honeybottom           | SO807795 |
| SO 87/08 | Honeytop Farm Pastures                 | SO813785 |
| SO 87/15 | Puxton Marsh                           | SO826784 |
| SO 88/04 | Gloucester Coppice                     | SO835800 |
| SO 87/22 | The Island Pool                        | SO855802 |
| SO 88/05 | Caunsall Marsh                         | SO854808 |
| SO 87/21 | Hurcott & Podmore Pools (Pastures)     | SO846778 |

**Worcs Grassland Inventory - objects, which are wholly or partially within 3km of site.**

| Site No | Site Name        | Grid Ref | Area (ha) | NVC Type | Management |
|---------|------------------|----------|-----------|----------|------------|
| 18 41   | Puxton Marshes   | SO827784 | 0         | U/MG10   |            |
| 11 14   | Honeytop Bank    | SO813785 | 3         | U4       | past       |
| 12 15   | Hollies Meadows  | SO811788 | 0         | MG5      |            |
| 3 5     | Kingsford Meadow | SO813812 | 2         | (U4/U20) |            |
| 2 4     | Hobro Meadows    | SO816807 | 1         | MG5A/MG1 | neg        |
| 6 9     | Caunsell Marshes | SO853806 | 5         | U4/MG8   |            |
| 33 53   | Whitehouse Bank  | SO860798 | 6         | U1/U4    | hay        |
| 36 56   | Park Hall Meadow | SO863777 | 4         | MG1/MG5  | hay        |
| 28 38   | Ismere Meadows   | SO863795 | 0         | (U20)    |            |

| Site No | Site Name                  | Grid Ref | Area (ha) | NVC Type | Management |
|---------|----------------------------|----------|-----------|----------|------------|
| 7 12    | The Gorse                  | SO857800 | 0         | (U4)     |            |
| 6 11    | Caunsell Marshes           | SO855811 | 3         | MG8      | past       |
| 2 3     | Hobro Meadows              | SO813807 | 2         | U20      | past       |
| 11 17   | Gloucester Coppice Meadows | SO834805 | 2         | (MG6)    |            |
| 30 42   | Wolverley Meadows          | SO833795 | 9         |          |            |
| 11 16   | Gloucester Coppice Meadows | SO836805 | 0         | MG5A     | hor        |
| 11 16   | Gloucester Coppice Meadows | SO836805 | 3         | MG5A     | hor        |
| 5 7     | Debdale Meadows            | SO836801 | 4         |          |            |
| 5 8     | Debdale Meadows            | SO839801 | 5         | U4/U20   | neg        |
| 32 52   | Honeytop Meadows           | SO813793 | 5         |          |            |
| 32 51   | Honeytop Meadows           | SO812794 | 4         |          |            |
| 19 26   | Hillfields Meadow          | SO820795 | 4         | (U4)     |            |
| 6 10    | Caunsell Marshes           | SO852807 | 2         | (MG8)    |            |

#### Local Nature Reserves - objects, which are wholly or partially within 3km of site.

| Site Name             | LNR Easting | LNR Northing |
|-----------------------|-------------|--------------|
| Kingsford Forest Park | 382715.44   | 281696.59    |
| Hurcott Wood          | 385796.27   | 278125.69    |
| Blakemarsh            | 381612.38   | 277229.69    |
| Kingsford Forest Park | 382715.44   | 281696.59    |

#### Worcestershire Wildlife Trust Reserves - objects, which are wholly or partially within 3km of site.

| Site No. | Site Name     | Grid Ref |
|----------|---------------|----------|
| 65       | Bishops Field | SO830793 |

#### Ancient Trees - objects, which are wholly or partially within 3km of site.

| Species         | Grid Ref   | Site Name             | Date       | Girth m | Comments   |
|-----------------|------------|-----------------------|------------|---------|--|
| Sweet chestnut  | SO86277815 | HURCOTT WOODS         | 07/05/2005 | 4.9     | Located at East end to left of uphill path but within group of same species on high ground.          |
| Pedunculate oak | SO84907768 | HURCOTT ROAD          | 15/03/2003 | 6       |  |
| Pedunculate oak | SO84867772 | HURCOTT ROAD          | 15/03/2003 | 5.6     |  |
| Silver birch    | SO85247807 | HURCOTT WOODS         | 07/06/2006 | 2.06    | Individual specimen within old hazel coppice and conifer re-afforestation.                           |
| Sweet chestnut  | SO85447800 | HURCOTT WOODS         | 22/06/2005 | 5.05    | Between path and pool.   |
| Horse chestnut  | SO85387801 | HURCOTT WOODS         | 22/06/2005 | 3.1     | Situated on left of path from end of the pool past the old boathouse. Height estimated as top unseen |
| Beech           | SO86307824 | HURCOTT WOODS         | 07/06/2006 | 3.3     | Specimen tree within the wood with extensive canopy.   |
| Pedunculate oak | SO83948016 | COOKLEY PLAYING FIELD | 27/03/2007 | 2.5     | On sandstone bank overhanging canal.   |



| Species         | Grid Ref   | Site Name             | Date       | Girth m | Comments   |
|-----------------|------------|-----------------------|------------|---------|--|
| Sweet chestnut  | SO86257826 | HURCOTT WOODS         | 07/06/2005 | 4.5     | Growing on LH side of uphill path from Eastern entrance to Reserve Managed by Wyre Forest DC. Bi-ann |
| Pedunculate oak | SO83908010 | COOKLEY PLAYING FIELD | 27/03/2007 | 6.2     | One side of the tree is dead. Girth includes this. Remaining trunk has been fired high up.           |
| Pedunculate oak | SO83858006 | COOKLEY PLAYING FIELD | 27/03/2007 | 4       | Fire in hollow some time ago.  |
| Sweet chestnut  | SO85437801 | HURCOTT WOODS         | 22/06/2005 | 3.8     | Situated on left of path from end of the pool.   |
| Sweet chestnut  | SO85407803 | HURCOTT WOODS         | 22/06/2005 | 4.6     | Situated on steep slope between path and waters edge to east of old boathouse. Several dead/barkless |
| Sweet chestnut  | SO86257811 | HURCOTT WOODS         | 22/06/2005 | 4.2     | Located on side of path. Fallen decaying branch.   |
| Pedunculate oak | SO86197813 | HURCOTT WOODS         | 22/06/2005 | 3.3     | Located on upper side of path.   |
| Pedunculate oak | SO83708011 | COOKLEY PLAYING FIELD | 27/03/2007 | 4.3     | Several low branches removed from waterside.   |
| Pedunculate oak | SO81998121 | KINGSFORD_2           | 23/02/2004 | 5.8     | Just inside private woodland.  |
| Pedunculate oak | SO81988104 | KINGSFORD_2           | 23/02/2004 | 4       | Just inside private wood.  |
| Pedunculate oak | SO81818075 | KINGSFORD_2           | 23/02/2004 | 3       | Evidence of structure in tree could be a TPO to protect from further damage - girth estimated.       |
| Black poplar    | SO82957888 | RIVER STOUR           | 29/09/2008 | 3.5     | Bank of river stour. Minor cavities at base of trunk. Some root damage.                              |
| Pedunculate oak | SO83738007 | COOKLEY PLAYING FIELD | 27/03/2007 | 5.2     | Looks as if coppiced, or maybe 2 trunks. Carrying a lot of weight saved by sheltered location.       |
| Beech           | SO85277804 | HURCOTT WOODS         | 22/06/2006 | 3.7     | The larger of a pair growing within 20m of each other and surrounded by coniferous plantation. On a  |
| Pedunculate oak | SO83718010 | COOKLEY PLAYING FIELD | 27/03/2007 | 4.6     | Uphill side of tree missing canal bank has eroded exposing root system. Hollow trunk.                |
| Pedunculate oak | SO80997988 | CORNHILL COPPICE      | 04/08/2004 | 4       | Edge of wood by footpath. Adjacent conifer plantation. Previously heathland. Many burrs on trunk. On |
| Ash             | SO83718025 | COOKLEY PLAYING FIELD | 27/03/2007 | 3       | 4m from canal.   |
| Pedunculate oak | SO83838017 | COOKLEY PLAYING FIELD | 27/03/2007 | 3.7     | Good condition.  |
| Pedunculate oak | SO83898016 | COOKLEY PLAYING FIELD | 27/03/2007 | 3.1     | Possible woodpecker hole in scar of branch.  |
| Pedunculate oak | SO83868015 | COOKLEY PLAYING FIELD | 27/03/2007 | 2.8     | Hollowness caused by falling limb. Badger sett in base.  |
| Pedunculate oak | SO83908015 | COOKLEY PLAYING FIELD | 27/03/2007 | 3       | Silver birch growing out of trunk.   |
| Pedunculate oak | SO83938016 | COOKLEY PLAYING FIELD | 27/03/2007 | 3.4     | Heartwood exposed and rotting.   |
| Pedunculate oak | SO83718008 | COOKLEY PLAYING FIELD | 27/03/2007 | 4.5     | Needs pollarding - tree alive but crown nearly dead. Some roots exposed.                             |

## APPENDIX 2

### Target Notes

#### Target Notes

| Target Note | Grid reference | Notes   |
|-------------|----------------|---|
| 1           | SO 83757 79491 | Motorcycle scramble jumps, bramble scrub to the north. Bare ground present that is regularly disturbed.                             |
| 2           | SO 83840 79280 | Dying sweet chestnut. Negligible bat potential.   |
| 3           | SO 83659 79208 | Oak – dieback. Veteran tree poor condition on footpath.   |
| 4           | SO 83639 79005 | Large-leaved lime. Low bat potential.   |
| 5           | SO 83736 78946 | T3 Dead sweet chestnut. Moderate bat potential.   |
| 6           | SO 83777 78885 | T2 Oak tree with woodpecker holes. Moderate bat potential. Potential for barn owls.   |
| 7           | SO 83863 78940 | T1 Oak tree with moderate potential for bats and barn owl   |
| 8           | SO 83969 79042 | Beech and lime trees along the remains of an avenue.  |
| 9           | SO 84475 78943 | Unmanaged, gappy field hedgerow comprising hawthorn and elm.  |
| 10          | SO 84503 79080 | Unmanaged, gappy field hedgerow comprising hawthorn, elm, elder and honeysuckle   |
| 11          | SO 84448 79183 | Intact field hedgerow comprising hawthorn, elm and elder.   |
| 12          | SO 84438 79251 | T4 Oak tree. High bat roost potential. Potential kestrel nest site  |
| 13          | SO 84363 79104 | T5 Oak tree. Moderate bat roost potential   |
| 14          | SO83974 78892  | Tall ruderal area with patches of bramble scrub, and stored machinery, vehicles and stock piles. Areas of bare ground also present. |

## **APPENDIX 3**

### **Photographs**



Plate 1. Arable field with boundary woodland.



Plate 2. Motorcycle scramble area at Target Note 1



Plate 3. Standard trees in field.



Plate 4. Tree lined driveway



Plate 5. Improved grassland to the left of the photos with track running alongside.



Plate 6. Hedgerow at Target Note 9.



Plate 7. Arable field to the west of the site.



Plate 8. Semi-improved grassland margins.

## **APPENDIX 4**

### **Wildlife Legislation**



## Wildlife Legislation

### Badgers (*Meles meles*)

In the UK the relevant legislation pertaining to Badgers is the Protection of Badgers Act 1992 and the Wildlife and Countryside Act, 1981 (as amended). Under the Protection of Badgers Act it is an offence to:

- Wilfully kill, injure, take possess or cruelly ill-treat\* a Badger, or attempt to do so;
- To intentionally or recklessly interfere with a sett# (this includes disturbing Badgers whilst they are occupying a sett, as well as damaging or destroying a sett or obstructing access to it).

\* the intentional elimination of sufficient foraging area to support a known social group of badgers may, in certain circumstances, be construed as an offence by constituting 'cruel ill treatment' of a Badger.

# a sett is defined as 'any structure or place which displays signs indicating current use by a Badger', with 'current use' defined by Natural England under interim guidance as over the preceding few months prior to a likely interference/disturbance event.

Licences can be obtained from the SNCO for development activities that would otherwise be unlawful under the legislation.

### Bats

All British bats are European protected species and therefore receive protection under the Conservation of Habitats and Species Regulations (2017), making it an offence to:

- Deliberately kill, injure or capture a bat;
- Deliberately disturb bats, including in particular any disturbance which is likely to:
  - impair their ability to survive, reproduce or to rear or nurture their young;
  - impair their ability to hibernate or migrate; or
  - significantly affect their local distribution or abundance.
- Damage or destroy a breeding site or resting place of a bat;
- Possess or control any live or dead specimen or anything derived from a bat;
- Sell, offer for sale, possess or transport a bat (live or dead, part or derivative) for the purpose of sale or advertise for buying or selling.

In addition, all British bats are listed under Schedule 5 of the Wildlife & Countryside Act 1981 (as amended), which contains further provisions making it an offence to intentionally or recklessly:

- Damage, destroy or obstruct access to any structure or place which any bat uses for shelter or protection; or
- Disturb any bat while occupying a structure or place which it uses for that purpose.

Licences can be obtained from the Statutory Nature Conservation Organisation (SNCO) for development activities that would otherwise be unlawful under the legislation.

#### Water Vole (*Arvicola amphibius*)

Water Voles are protected under the Wildlife and Countryside Act 1981 (as amended), making it illegal to:

- Intentionally kill, injure or take a Water Vole;
- Possess or control a live or dead Water Vole, or any part of a Water Vole;
- Intentionally or recklessly disturb, destroy or obstruct access to any place that Water Voles use for shelter or protection;
- Sell, offer for sale or advertise any live or dead Water Voles.

#### Otter (*Lutra lutra*)

Otters are a European protected species and therefore receive protection under the Conservation of Habitats and Species Regulations (2017), making it an offence to:

- Deliberately kill, injure or capture an Otter;
- Deliberately disturb Otters, including in particular any disturbance which is likely to:
  - impair their ability to survive, reproduce or to rear or nurture their young;
  - impair their ability to hibernate or migrate; or
  - significantly affect their local distribution or abundance.
- Damage or destroy a breeding site or resting place of an Otter;
- Possess or control any live or dead specimen or anything derived from an Otter;
- Sell, offer for sale, possess or transport an Otter (live or dead, part or derivative) for the purpose of sale or advertise for buying or selling.

In addition, Otters are listed under Schedule 5 of the Wildlife & Countryside Act 1981 (as amended), which contains further provisions making it an offence to intentionally or recklessly:

- Damage, destroy or obstruct access to any structure or place which an Otter uses for shelter or protection; or
- Disturb an Otter while occupying a structure or place which it uses for that purpose.

#### Dormice (*Muscardinus avellanarius*)

Dormice are a European protected species and therefore receive protection under the Conservation of Habitats and Species Regulations (2017), making it an offence to:

- Deliberately kill, injure or capture a Dormouse;
- Deliberately disturb Dormice, including in particular any disturbance which is likely to:
  - impair their ability to survive, reproduce or to rear or nurture their young;
  - impair their ability to hibernate or migrate; or
  - significantly affect their local distribution or abundance.
- Damage or destroy a breeding site or resting place of a Dormouse;
- Possess or control any live or dead specimen or anything derived from a Dormouse;
- Sell, offer for sale, possess or transport a Dormouse (live or dead, part or derivative) for the purpose of sale or advertise for buying or selling.

In addition, Dormice are listed under Schedule 5 of the Wildlife & Countryside Act 1981 (as amended), which contains further provisions making it an offence to intentionally or recklessly:

- Damage, destroy or obstruct access to any structure or place which a Dormouse uses for shelter or protection; or
- Disturb a Dormouse while occupying a structure or place which it uses for that purpose.

#### Amphibians

All British amphibian species receive a degree of protection under the Wildlife & Countryside Act 1981 (as amended). The level of protection varies from protection from sale or trade only, as is the case with species such as Common Toad (*Bufo bufo*) and

Smooth Newt (*Lissotriton vulgaris*), to full protection afforded to species such as Great Crested Newt (*Triturus cristatus*).

Great Crested Newt is a European protected species and as such receives full protection under the Conservation of Habitats and Species Regulations 2010, making it an offence to:

- Deliberately capture, injure or kill a Great Crested Newt;
- Deliberately disturb Great Crested Newts, including in particular any disturbance which is likely to:
  - impair their ability to survive, reproduce or to rear or nurture their young;
  - impair their ability to hibernate or migrate; or
  - significantly affect their local distribution or abundance.
- Deliberately take or destroy eggs of Great Crested Newts;
- Damage or destroy a breeding site or resting place of Great Crested Newts;
- Possess or control any live or dead specimen or anything derived from a Great Crested Newt;
- Sell, offer for sale, possess or transport a Great Crested Newt (live or dead, part or derivative) for the purpose of sale or advertise for buying or selling.

### Reptiles

All reptile species receive protection under the Wildlife & Countryside Act 1981 (as amended), making it illegal to;

- Intentionally kill or injure reptiles;
- Sell, offer for sale, possess or transport reptiles (live or dead, part or derivative) for the purpose of sale or advertise for buying or selling.

In addition, due to their status as scarce species both Smooth Snake (*Coronella austriaca*) and Sand Lizard (*Lacerta agilis*) are European protected species, protected under the Conservation of Habitats and Species Regulations, 2017. This affords them additional protection, making it illegal to:

- Deliberately capture Smooth Snakes or Sand Lizards;
- Deliberately disturb Smooth Snakes or Sand Lizards, including in particular any disturbance which is likely to:
  - impair their ability to survive, reproduce or to rear or nurture their young;
  - impair their ability to hibernate or migrate; or
  - significantly affect their local distribution or abundance.

- Damage or destroy a breeding site or resting place of Smooth Snakes and Sand Lizards.
- Possess or control any live or dead specimen or anything derived from a Smooth Snake or Sand Lizard.

### Birds

All wild birds, their nests and eggs are protected throughout the breeding season (typically late February to late August inclusive) under the Wildlife and Countryside Act, 1981 (as amended). This legislation makes it an offence to (with certain limited exceptions and in the absence of a licence) intentionally:

- Kill or injure any wild bird;
- Take, damage or destroy the nest of any wild bird whilst it is in use or being built;
- Take or destroy the egg of any wild bird;
- It is also an offence to possess any live or dead wild bird or egg, or anything derived from a bird or egg
- Restrictions on trade and advertising also apply.

Schedule 1 of the Wildlife & Countryside Act 1981 is a list of the nationally rare and uncommon breeding birds for which all offences carry special (i.e. greater) penalties. These species also benefit from additional protection whilst breeding, as it is an offence to disturb adults or their dependent young when at a nest.

The RSPB categorise British bird species in terms of conservation importance based on a number of criteria including the level of threat to a species population status. Species are listed as Green, Amber or Red. Red Listed species are considered to be of the highest conservation concern, being either globally threatened and / or experiencing a high level of population decline (e.g. a reduction in breeding population size greater than or equal to 50% over the past 25 years or since 1969, when the first species assessment was made).

### Crayfish

White-clawed Crayfish (*Austropotamobius pallipes*) are protected under the Wildlife and Countryside Act, 1981 (as amended), making it an offence to:

- Take White-clawed Crayfish from the wild;
- Sell, offer for sale, possess or transport White-clawed Crayfish (live or dead, part or derivative) for the purpose of sale or advertise for buying or selling.

In addition, under the Wildlife and Countryside Act, 1981 (as amended) it is an offence to:

- Release or allow to escape into the wild any animal which is included in Part I of Schedule 9

Signal Crayfish (*Pacifastacus leniusculus*) are included in Part 1 of Schedule 9 of the Wildlife and Countryside Act, 1981 (as amended).

## **APPENDIX 5**

### **Biodiversity Legislation**

## Biodiversity Legislation

The Habitat Regulations 2017 are the principal means by which Council Directive 92/43/EEC on the conservation of natural habitats of wild fauna and flora (the "Habitats Directive") is transposed in England and Wales and the adjacent territorial seas. They also transpose elements of the EU Wild Birds Directive in England and Wales.

There is an expectation, based on long standing Parliamentary convention, that the UK will consolidate legislation on the fourth substantive amendment. The Habitats Regulations 2017 themselves a consolidation of the Conservation (Natural Habitats &c.) Regulations 1994, have now been amended ten times since enactment. They are likely to remain in place for some time after the UK exits the EU, and the power to consolidate them will no longer be available once the UK exits the EU. In the light of this, the government have consolidated the Regulations, aiding usability and clarity.

A statutory instrument is also being made to consolidate the Offshore Marine (Conservation Natural Habitats &c.) Regulations 2007, which transpose the Wild Birds and Habitats Directives in the UK beyond 12 nautical miles. The 2007 Regulations have been amended twelve times since being introduced. A separate Explanatory Memorandum has been prepared for that instrument known as the Conservation of Offshore Marine Habitats and Species Regulations 2017.

The 'UK' Post-2010 Biodiversity Framework' (JNCC & DEFRA, 2012), published in July 2012, also sets out a framework of priorities for UK-level work for the Convention on Biological Diversity, to which the UK is a signatory. Covering the period 2011-2020, this framework replaces the original UK Biodiversity Action Plan (UK BAP, 2004) system and now the work is focussed on the separate countries (England, Scotland, Northern Ireland and Wales). The overall aim remains to protect a number of rare species and habitats, and reverse the declines of more widespread but declining species and habitats, and so currently many of the species and habitats in the UK BAP still form the basis of the biodiversity work carried out in the separate countries as required under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 (England).

Furthermore, Local Biodiversity Action Plans (LBAPs) are still in place under this framework to manage and conserve species and habitats of priority at a local level. Where necessary, further species specific surveys and mitigation measures are recommended so as to safeguard any significant existing ecological interest within the site and where appropriate, opportunities for ecological enhancements are proposed with reference to national and local Biodiversity Action Plans (BAPs).



Furthermore, recommendations are guided by the National Planning Policy Framework (NPPF) produced in July 2018, where the policies in paragraphs 15 to 217, taken as a whole, constitute the government's view of what sustainable development in England means in practice for the planning system. The following paragraphs of the NPPF are of particular relevance:

- With regard to paragraph 170, planning policies and decisions should contribute to and enhance the natural and local environment by:
  - Protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils (in a manner commensurate with their statutory status or identified quality in the development plan);
  - Recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland;
  - Maintaining the character of the undeveloped coast, while improving public access to it where appropriate;
  - Minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures;
  - Preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and
  - Remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.
- With regard to paragraph 174, to protect and enhance biodiversity and geodiversity, plans should:
  - Identify, map and safeguard components of local wildlife-rich habitats and wider ecological networks, including the hierarchy of international, national and locally designated sites of importance for biodiversity, wildlife corridors and stepping stones that connect them; and areas identified by national and local partnerships for habitat management, enhancement, restoration or creation; and
  - Promote the conservation, restoration and enhancement of priority habitats, ecological networks and the protection and recovery of priority species; and

identify and pursue opportunities for securing measurable net gains for biodiversity.

With reference to paragraph 175, when determining planning applications, local planning authorities should apply the following principles:

- if significant harm to biodiversity resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, the planning permission should be refused;
- development on land within or outside a Site of Special Scientific Interest (SSSI), and which is likely to have an adverse effect on it (either individually or in combination with other developments) should not normally be permitted. The only exception is where the benefits of the development in the location clearly outweigh both its likely impact on the features of the site that make it of special scientific interest, and any broader impacts on the national network of SSSIs;
- development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) should be refused, unless there are wholly exceptional reasons and a suitable compensation strategy exists; and
- development whose primary objective is to conserve or enhance biodiversity should be supported; while opportunities to incorporate biodiversity improvements in and around developments should be encouraged; especially where this can secure measurable net gains for biodiversity.

Paragraph 176 states that the following should be given the same protection as habitats sites:

- potential Special Protection Areas (SPA) and possible Special Areas of Conservation (SAC);
- listed or proposed Ramsar sites; and
- sites identified, or required, as compensatory measures for adverse effects on habitats sites, potential SPA, possible SAC, and listed or proposed Ramsar sites.

Section 14 discusses the need for meeting the challenge of climate change, flooding and coastal change. Paragraph 148 is of particular relevance and states that:

- The planning system should support the transition to a low carbon future in a changing climate, taking full account of flood risk and coastal change. It should help to: shape places in ways that contribute to radical reductions in greenhouse

gas emissions, minimise vulnerability and improve resilience; encourage the reuse of existing resources, including the conversion of existing buildings; and support renewable and low carbon energy and associated infrastructure.

The recommendations are also guided by the relevant legislation:

- The Natural Environmental and Rural Communities (NERC) Act, 2006 states: “Every public authority must, in exercising its functions, have regard, so far is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity”.

## APPENDIX 6

### Confidential Annex

**The information contained within this appendix is Confidential and must not be released into the public domain in the interests of wildlife conservation**