

# Appendix 7.1 Ecology Desk Study Report

August 2019







Document Title	The Lanes Desk Based Ecology Assessment
Prepared for	Taylor Wimpey North West / Homes England
Prepared by	TEP - Warrington
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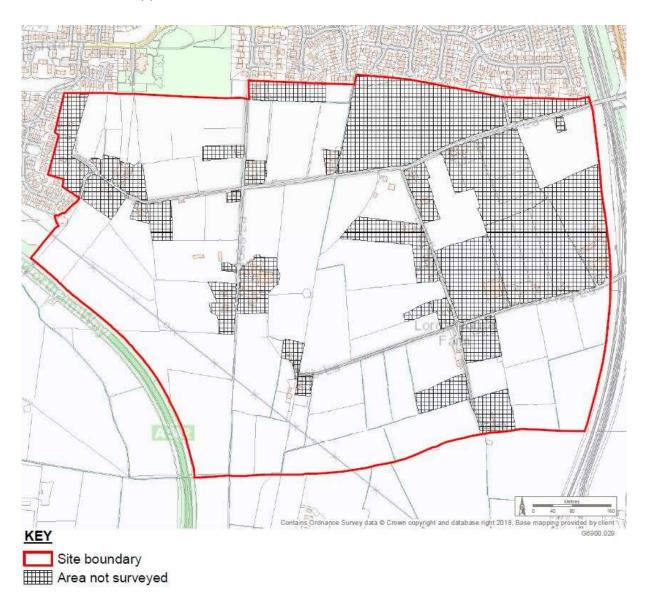
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- Site Location Plan
- Relevant Local Planning Policies
- Site Designations
- Notable Habitats
- Notable Species
- Local BAP Habitats and Species



## **Site Location**

Approximate Central Grid Reference: SD 53329 25884

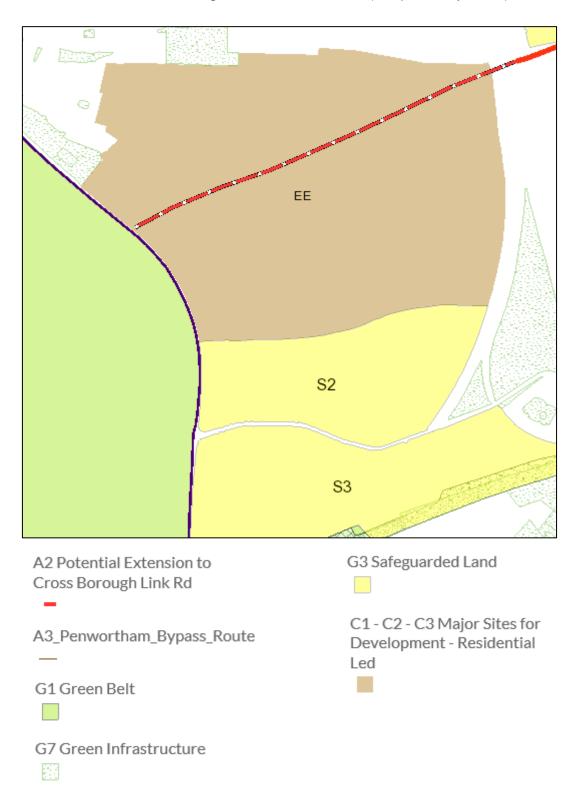


Hatched areas within the red line site boundary in Figure 1 do not fall within the scope of the current planning application and these were not subject to surveys.



## **Relevant Local Planning Policies**

South Ribble Borough Council Local Plan (adopted July 2015)





## Policy G8 - Green Infrastructure and Networks - Future Provision

All developments should provide:

- a) Appropriate landscape enhancements;
- Conservation of important environmental assets, natural resources, biodiversity and geodiversity;
- c) For the long-term use and management of these areas; and
- Access to well-designed cycleways, bridleways and footways (both off and on road), to help link local services and facilities.

## Policy G13 - Trees, Woodlands and Development

- Planning permission will not be permitted where the proposal adversely affects trees, woodlands and hedgerows which are:
  - i Protected by a Tree Preservation Order (TPO);
  - Ancient Woodlands including individual ancient and veteran trees and those defined in Natural England's inventory of ancient woodlands;
  - iii In a Conservation Area; or
  - iv Within a recognised Nature Conservation Site.
- There will be a presumption in favour of the retention and enhancement of existing tree, woodland and hedgerow cover on site;
- Where there is an unavoidable loss of trees on site, replacement trees will be required to be planted on site where appropriate at a rate of two new trees for each tree lost;
- Tree survey information should be submitted with all planning applications, where trees are present on site. The tree survey information should include protection, mitigation and management measures;
- Appropriate management measures will be required to be implemented to protect newly planted and existing trees, woodlands and/or hedgerows.



## Policy G16 - Biodiversity and Nature Conservation

The borough's Biodiversity and Ecological Network resources will be protected, conserved and enhanced. The level of protection will be commensurate with the site's status and proposals will be assessed having regard to the site's importance and the contribution it makes to wider ecological networks:

#### Regard will be had to:

- Protecting and safeguarding all designated sites of international, national, regional, county and local level importance including all Ramsar, Special Protection Areas, Special Areas of Conservation, national nature reserves, Sites of Special Scientific Interest and Biological Heritage Sites, Geological Heritage Sites, Local Nature Reserves, wildlife corridors together with any ecological network approved by the Council:
- Protecting, safeguarding and enhancing habitats for European, nationally and locally important species;
- When considering applications for planning permission, protecting, conserving and enhancing the borough's ecological network and providing links to the network from and/or through a proposed development site.

In addition development should have regard to the provisions set out below:

- a) The need to minimise impacts on biodiversity and providing net gains in biodiversity where possible by designing in wildlife and by ensuring that significant harm is avoided or, if unavoidable, is reduced or appropriately mitigated and/or, as a last resort, compensated;
- The need to promote the preservation, restoration and re-creation of priority habitats, ecological networks and the protection and recovery of priority species populations;
- Where there is reason to suspect that there may be protected habitats/species on or close to a proposed development site, planning applications must be accompanied by a survey undertaken by an appropriate qualified professional;
- d) Where the benefits for development in social or economic terms are considered to outweigh the impact on the natural environment, appropriate and proportionate mitigation measures and/or compensatory habitat creation of an equal or greater area will be required through planning conditions and/or planning obligations.



## Policy G17 – Design Criteria for New Development

Planning permission will be granted for new development, including extensions and free standing structures, provided that, where relevant to the development:

- a) The proposal does not have a detrimental impact on the existing building, neighbouring buildings or on the street scene by virtue of its design, height, scale, orientation, plot density, massing, proximity, or use of materials. Furthermore, the development should not cause harm to neighbouring property by leading to undue overlooking, overshadowing or have an overbearing effect;
- The layout, design and landscaping of all elements of the proposal, including any internal roads, car parking, footpaths and open spaces, are of a high quality and will provide an interesting visual environment which respects the character of the site and local area;
- c) The development would not prejudice highway safety, pedestrian safety, the free flow of traffic, and would not reduce the number of on-site parking spaces to below the standards stated in Policy F1, unless there are other material considerations which justify the reduction such as proximity to a public car park. Furthermore, any new roads and/or pavements provided as part of the development should be to an adoptable standard;
- d) The proposal would sustain, conserve and where appropriate enhance the significance, appearance, character and setting of a heritage asset itself and the surrounding historic environment. Where a proposed development would lead to substantial harm or loss of significance of a designated heritage asset, planning permission will only be granted where it can be demonstrated that the substantial public benefits of the proposal outweigh the harm or loss to the asset; and
- e) The proposal would not have a detrimental impact on landscape features such as mature trees, hedgerows, ponds and watercourses. In some circumstances where, on balance, it is considered acceptable to remove one or more of these features, then mitigation measures to replace the feature/s will be required either on or off-site.

## Central Lancashire Core Strategy (adopted July 2012)

The Core Strategy was prepared jointly by Preston City Council, Chorley Council and South Ribble Council and was adopted in July 2012. The purpose of the Core Strategy is to set the overall strategic direction for planning the area over the period 2010 to 2026, in line with national policies.



# **Policy 22:** Biodiversity and Geodiversity

Conserve, protect and seek opportunities to enhance and manage the biological and geological assets of the area, through the following measures:

- (a) Promoting the conservation and enhancement of biological diversity, having particular regard to the favourable condition, restoration and re-establishment of priority habitats and species populations;
- (b) Seeking opportunities to conserve, enhance and expand ecological networks;
- (c) Safeguarding geological assets that are of strategic and local importance.



## **Site Designations**

## SSSI Impact Risk Zones for Site Only

Source: MAGIC Maps

The site is located within the Impact Risk Zone for Ribble Estuary SSSI which is located approximately 6.79km to the west of the survey area.

Site Check Report Report generated on Fri Feb 23 2018 You selected the location: Centroid Grid Ref: SD531259 The following features have been found in your search area.

SSSI Impact Risk Zones - to assess planning applications for likely impacts on SSSIs/SACs/SPAs & Ramsar sites (England)

1. DOES PLANNING PROPOSAL FALL INTO ONE OR MORE OF 2. IF YES, CHECK THE CORRESPONDING DESCRIPTION(S) BELOW. LPA SHOULD CONSULT THE CATEGORIES BELOW?

NATURAL ENGLAND ON LIKELY RISKS FROM THE FOLLOWING:

**All Planning Applications** 

Infrastructure Airports, helipads and other aviation proposals. Wind & Solar Energy Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil & Gas

Rural Non Residential Residential Rural Residential

Air Pollution Pig & poultry units, slurry lagoons > 4000m².

Combustion

General combustion processes >50MW energy input, incl: energy from waste incineration, other incineration, lendfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

Waste Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting

Any discharge of water or liquid waste of more than 20m³/day to ground (le to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location). Discharges

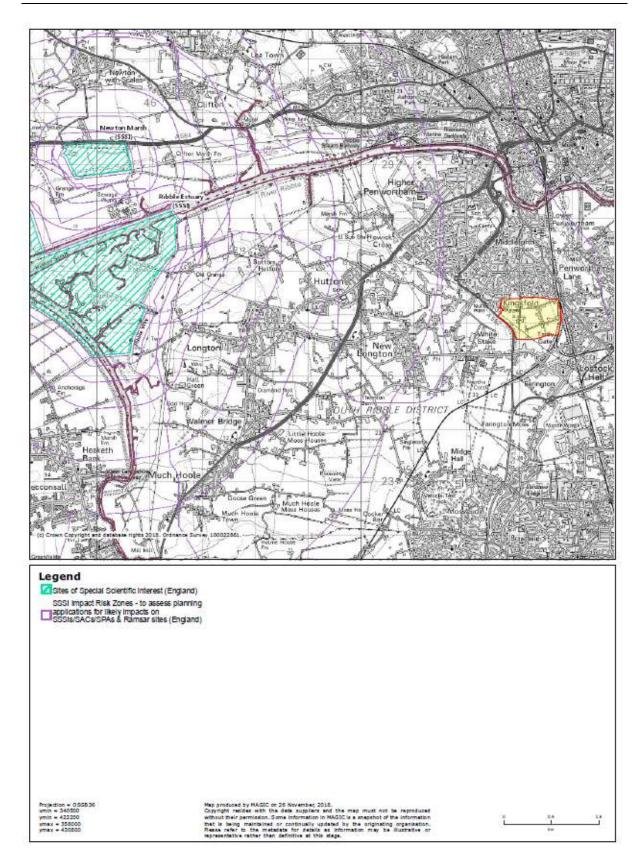
Water Supply

GUIDANCE - How to use the Impact Risk Zones

/Metadata\_for\_magic/SSSI IRZ User Guidance MAGIC.pdf

Sites of Special Scientific Interest (England) No Features found





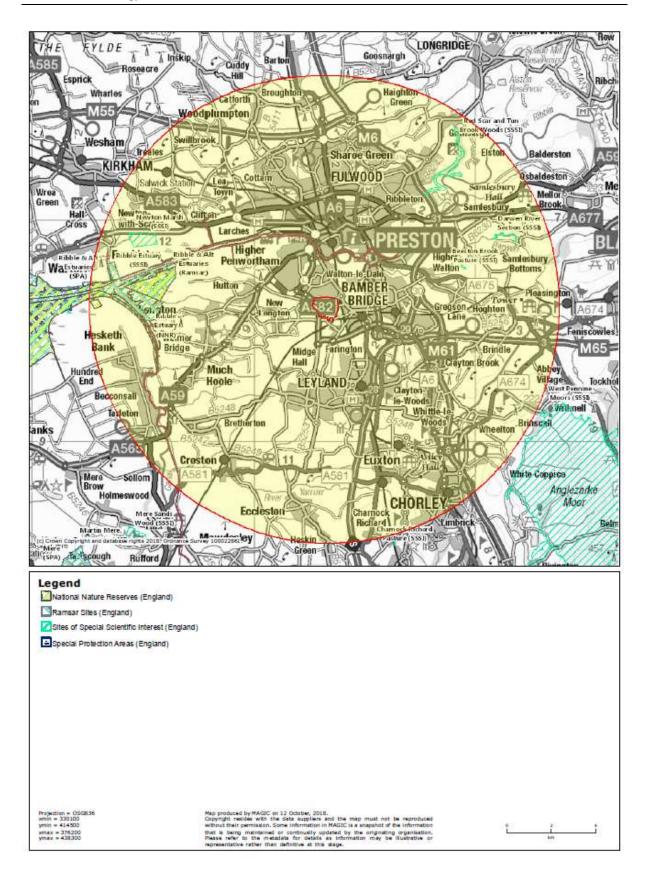


## Statutory Designated Sites within 10km of the Site

Source: MAGIC Maps

Name of Site	Designation	Distance from Survey Area	Reason for Designation
Beeston Brook Pasture	SSSI	5.77km E	Unimproved grassland
Ribble and Alt Estuaries	Ramsar, SPA	6.79km W	Natterjack toads and birds
Ribble Estuary	NNR, SSSI	6.79km W	Coastal habitat and birds
Red Scar and Tun Brook Woods	SSSI	7.41km NE	Woodland
Newton Marsh	SSSI	7.5km NW	Birds
Darwen River Section	SSSI	7.58km E	Geology







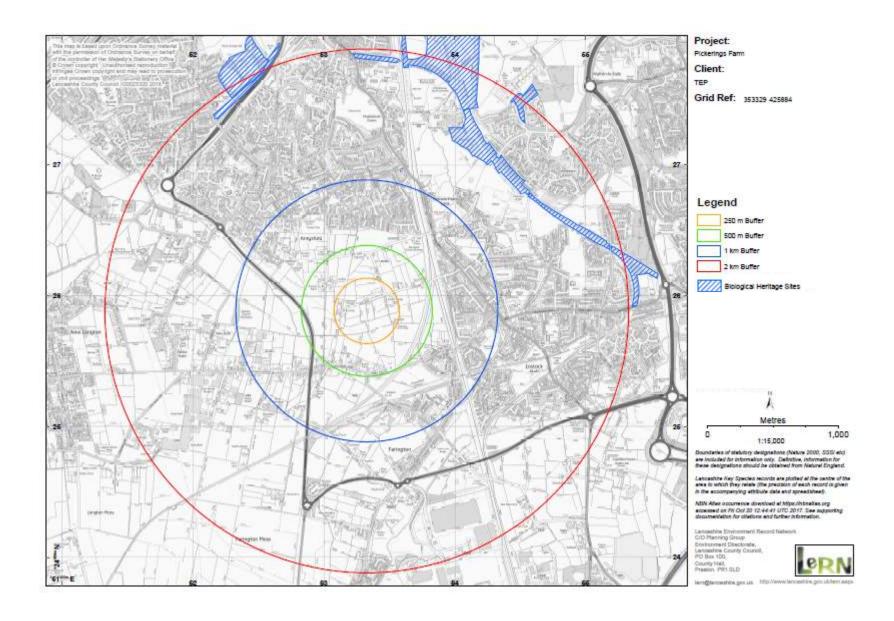
## Non-Statutory Site Designations within 2km of the Site

Source: Magic Maps and LERN

Note: The map inserted below shows non-statutory site designations from the central grid reference for the survey area, however the measurements in the table below are taken from the boundary of the survey area.

Ribble Estuary Upper Tidal Section BHS is located within 2km of the site boundary. This is not shown on the plan below as it was excluded from the LERN data search, however citations have been provided.

Name of Site	Designation	Distance from Survey Area	Reason for Designation
Preston Junction	BHS, LNR	850m NE	Habitat mosaics
Cop Lane Cutting	BHS	1.09km NW	Artificial habitats
Hurst Grange Park	BHS	1.1km NW	Grassland and
			amphibians
Carr Wood	BHS	1.25km NE	Woodland and
			scrub
Ribble Estuary	BHS	1.7km N	Riverine habitats
Upper Tidal			and plants
Section			



Hurst Grange Park



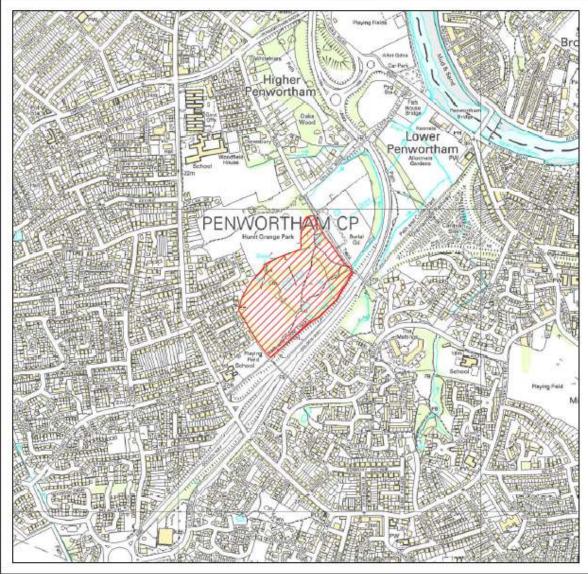
### Site Boundary

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This map shows only the boundary of the Biological Heritage Site named above. It does not show any other designated sites which may occur within the area covered by the map.

Ref No. 52NW10

- S Lancashire County Council
- S The Wildlife Trust for Lancashire, Manchester and North Merseyside Natural England



Grid ref. SD523277	Scale 1:10,000		Lancashire
Site approved	Map 1 of 1	wildlife	County County
Boundary revised	Date of Map 29/09/14	LANCASHIRE MANCHESTER N. MERSEYSIDE	Council





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Site Name: Hurst Grange Park

Site Ref: 52NW10 Approved: 01 December 1996

Area (ha): 8.82 Date written/last updated: 01 December 2003

Grid Ref: SD524277 Owner/Occupier: Public

Districts: Parishes: South Ribble Penwortham

#### Description:

The site comprises an area of former agricultural grassland and a cluster of five field ponds now managed as public open space within a municipal park.

Whilst parts of the site have been 'landscaped' with areas of amenity tree and shrub plantings of predominantly native species, much of the semi-natural habitats survive.

The grassland supports a rich diversity of species including common bird's-foot-trefoil, meadow vetchling, zigzag clover, selfheal, yellow-rattle, common knapweed, cat's-ear, autumnal hawkbit, eyebright, common spotted-orchid, quaking grass and glaucous sedge.

The ponds provide additional interest to the site. Although the four permanent ponds are fished, they support a variety of plants and animals including frog, toad, smooth newt and palmate newt. The fifth pond has existed for many years as a seasonal pond, with water only present over the winter months. The pond cluster supports a high diversity of plant species including small pondweed, nodding Bur-marigold, Cyperus sedge, water-cress, fool's water-cress, fleabane, bittersweet and tufted forget-me-not. Three uncommon plants, pennyroyal, greater spearwort and water soldier are established here but are not native to the site. An associated aquatic invertebrate assemblage of over sixty species includes the regionally local species brown hawker dragonfly, ear pond snail, horse leech and noterus beetle.

#### Guideline(s) for Site Selection:

Grassland (Gr3) Amphibians (Am3a)?

### Other Information/Comments:

The site adjoins Cop Lane Cutting Biological Heritage Site (BHS 52NW05).



#### Carr Wood

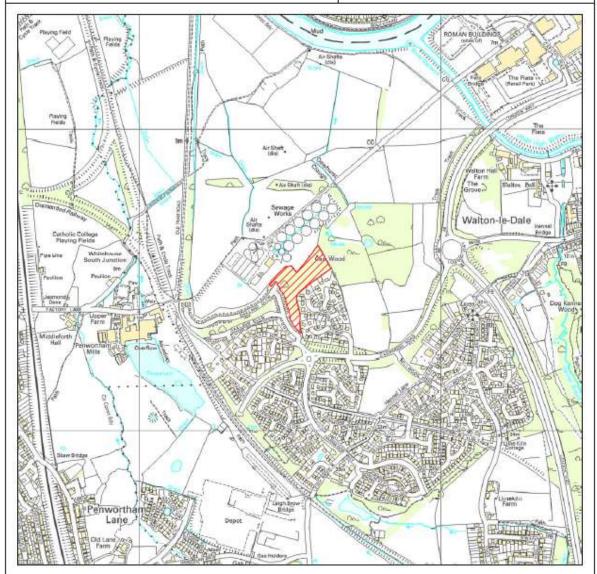


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Grid ref. SD545273	Scale 1:10,000
Site approved	Map 1 of 1
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Site Name: Carr Wood

Site Ref: 52NW09 Approved: 01 September 1993

Area (ha): 1.87 Date written/last updated: 01 February 2002

Grid Ref: SD546275 Owner/Occupier: Private

Districts: Parishes: South Ribble Walton-le-Dale

#### Description:

The site comprises ancient, semi-natural woodland listed in the Lancashire Inventory of Ancient Woodland (Provisional), (English Nature, 1994). The site is unusual in being largely on level ground, as the majority of the semi-natural woodlands in the area are on the sloping banks of rivers and brooks.

The site consists of predominantly oak woodland over level ground that slopes away to the north. Together with abundant oak, sycamore and ash are occasional with rare wild cherry and English elm. The shrub layer is dominated by hazel with whitebeam, guelder rose and a wild rose species also present. Brambles form locally abundant thickets and in the more open areas bluebells are abundant with wood anemone, dog's mercury and the grass, Yorkshire fog all locally abundant. Other ground layer species include lady fem, ramsons and pendulous sedge with some damper, flushed areas containing meadow sweet, opposite-leaved golden saxifrage and yellow flag iris.

Guideline(s) for Site Selection:

Woodland and Scrub (Wd1)

Other Information/Comments:



Preston Junction LNR and Adjacent Habitats



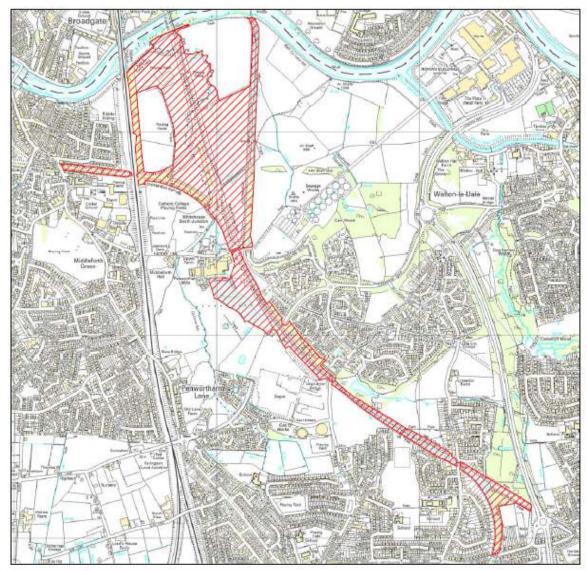
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Ref No. 52NW08

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Grid ref. SD538280	Scale 1:15,000	KI)	Lancashire
Site approved	Map 1 of 1	wildlife	County County
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Site Name: Preston Junction LNR and Adjacent Habitats

Site Ref: 52NW08 Approved: 01 September 1993

Area (ha): 54.49 Date written/last updated: 21 April 2008

Grid Ref: SD538280 Owner/Occupier:

Districts: Parishes:

South Ribble Penwortham, Walton-le-Dale

#### Description:

The site comprises a length of disused railway line; an old tramway; a number of low lying, semi-improved fields; woodland adjacent to the current railway line and a reservoir. The intimate mixture of grassland, woodland, scrub, waste ground and aquatic habitats create a rich and varied mosaic that is an important reservoir for wildlife in the area. This predominantly linear site (over 3km) also creates an important wildlife corridor in South Ribble District.

Mature woodland is found predominantly in the north of the site. Here it occurs along the embankments of the disused railway lines, the present day main line and the Old Tram Road. These woods comprise mainly sycamore, ash, wych elm and oak together with planted species such as horse-chestnut and white poplar. Ramsons and dog's mercury often dominate the ground flora.

Scrub is present to varying extents over most of the site. The predominant species are hawthorn and willow with birch and wild rose. In the north of the site the non-native garden privet occurs. Grey willow and goat willow dominate in places, notably in the central portion of the site. Scattered scrub and regenerating woodland species occur throughout the open areas and must be managed if grassland and tall herb species are to persist.

Open areas of grassland and tall herb vegetation occur throughout the site. In the wooded areas grassland is confined to the path edges. Further south the old railway embankments hold large areas of species rich grassland that include the meadow species: meadow crane's-bill, greater burnet, ox-eye daisy, yarrow, yellow rattle and fairy flax. Other areas contain species more associated with wet grassland, rocky substrates or waste ground. The damp meadow in the south is of particular note. The fields in the north contain semi-improved neutral grasslands, a small stream and a ditch. Notable species in open areas include: Dyer's greenweed, hoary cinquefoil, southern marsh & common spotted orchids and greater burnet

Aquatic habitats include a reservoir at Mill Lodge and two small ponds to the south of the site. The reservoir holds breeding great crested grebe and good emergent vegetation. The ponds are rich in emergent vegetation and hold a diverse dragonfly fauna. Eight species of dragonflies and damselflies have been recorded for the ponds including records for ruddy darter, an uncommon species for Lancashire.

The site as a whole has records for fourteen species of butterfly.

### Guideline(s) for Site Selection:

Habitat Mosaics (Hm1)

#### Other Information/Comments:

The site adjoins BHS 52NW09 River Ribble, Upper Tidal Section, Penwortham/Walton-le-Dale/Preston.



Cop Lane Cutting



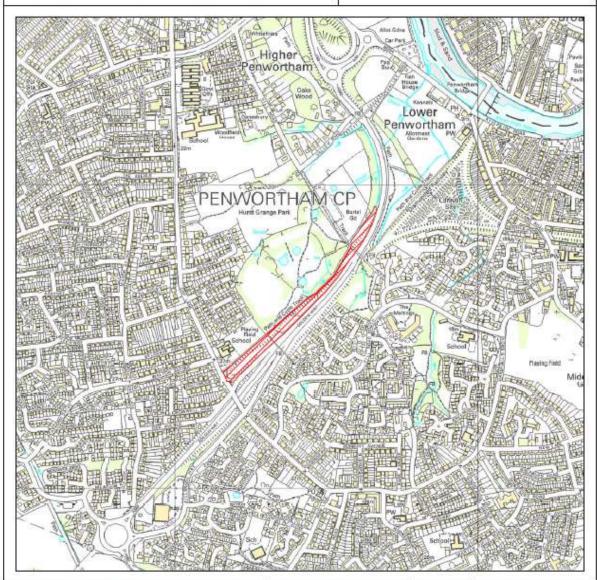
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Ref No. 52NW05

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Grid ref. SD524275	Scale 1:10,000	(0)	Lancash
Site approved	Map 1 of 1	wildlife	County .
Boundary revised	Date of Map 29/09/14	LANCASHISE MANCHESTER N. MERSEVSIDE	Council





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Site Name: Cop Lane Cutting

Site Ref: 52NW05 Approved: 01 September 1993

Area (ha): 2.26 Date written/last updated: 01 February 2002

Grid Ref: SD524276 Owner/Occupier: Public

Districts: Parishes: South Ribble Penwortham

#### Description:

The site comprises a length of south-east facing roadside verge embankment. The embankment holds species rich, neutral grassland with trees and scrub toward the top of the bank.

The banks are mostly dry, although several areas appear subject to seasonal flushing. Species frequency differs for the length of the verge though diversity is sustained throughout. Generally, grasses dominate the majority of the verge with species including red fescue, sweet vernal-grass and tufted hair-grass. Meadowsweet and common sedge are locally dominant. Common knapweed, meadow vetchling, carnation sedge, common twayblade, ragged robin, common spotted-orchid, quaking-grass and devil's-bit scabious all occur in abundance with adder's-tongue fern locally adundant. Other herbs include: frequent selfheal, oxeye daisy, field wood-rush, lesser stitchwort, common bird's-foot-trefoil, sneezewort and cat's ear with occasional glaucous sedge, lady's mantle and yellow rattle.

The upper slopes and bank top comprise alder, ash, lime, willow and oak with bramble, wild rose and hawthorn scrub. Hawthorn occurs frequently in parts of the grassland sward.

#### Guideline(s) for Site Selection:

Artificial Habitats (Ar2)

#### Other Information/Comments:

The site adjoins BHS 25NW10, Hurst Grange Park, Penwortham.



River Ribble, Upper Tidal Section



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Grid ref. SD529283	Scale 1:27,000	Á	Lancashire
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Site Name: River Ribble, Upper Tidal Section

Site Ref: 52NW07 Approved: 01 December 1995

Area (ha): 58.6 Date written/last updated: 01 February 2004

Grid Ref: SD530283 Owner/Occupier:

Districts: Parishes: Preston Preston

South Ribble Penwortham, Walton-le-Dale

#### Description:

The site comprises a section of the River Ribble and its banks, running from the mouth of Preston Dock upstream to London Road Bridge. The site supports a range of habitats, including tidal mud flats, saltmarsh, strandline, running water, river shingle, tall-herb vegetation, scrub, parkland trees and grasslands. Four species included in the Provisional Lancashire Red Data List of Vascular Plants are present, namely toothwort, stream water-crowfoot, sand leek and bee orchid.

Tidal mudflats towards the west of the site support plants such as sea aster, sea-milkwort, English scurvygrass, sea mayweed, spear-leaved orache, common orache, reed canary-grass and curled dock. Further east waterside species include reed canary-grass, common reed, hemlock water-dropwort, perennial sow-thistle and spiked water-milfoil. Stream water-crowfoot is often abundant in the river upstream of the main line railway bridge.

Stretches of grass banks support species such as false oat-grass, crested dog's-tail, red fescue, Yorkshire-fog, sweet vernal-grass, bee orchid, sand leek, yellow rattle, meadow vetchling, common bird's-foot trefoil, common knapweed, oxeye daisy, common knapweed, cat's-ear and glaucous sedge.

Trees are present along much of the riverbank. Species include ash, sycamore, horse-chestnut, willow, hawthorn, elder and native black poplars, as well as non-native parkland trees. Toothwort and meadow saxifrage occur on the north side of the river, alongside Miller Park.

The invasive, non-native species, Japanese knotweed and Indian balsam, are present along the riverbanks.

#### Guideline(s) for Site Selection:

Rivers and Streams (Ri1)
Flowering Plants and Ferns (Ff4b)

#### Other Information/Comments:

 The site adjoins BHS 42NE03 'River Ribble Lower Tidal Section' (to the west) and BHS LSRRI 'River Ribble from London Road Bridge Preston, in west, to County boundary' (to the east).

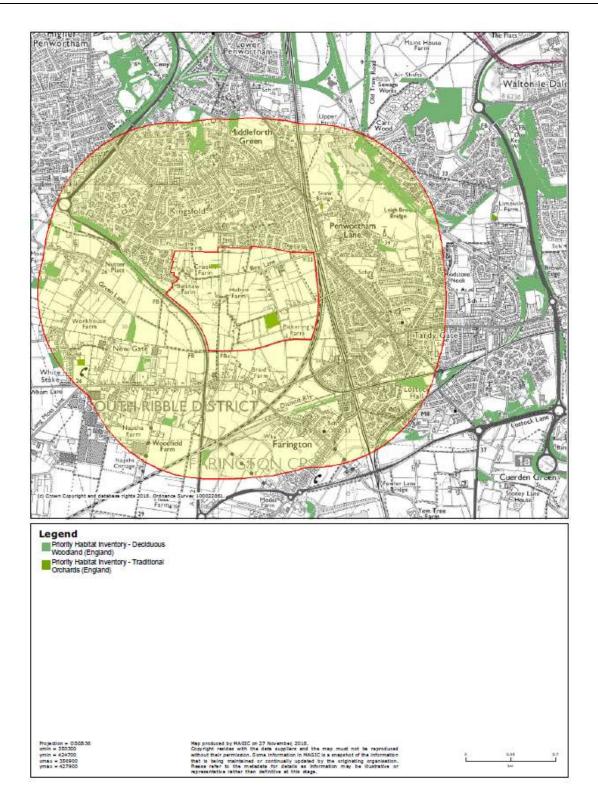


## **Notable Habitats**

Habitat Inventory Data within 1km of the Site

Source: MAGIC Maps







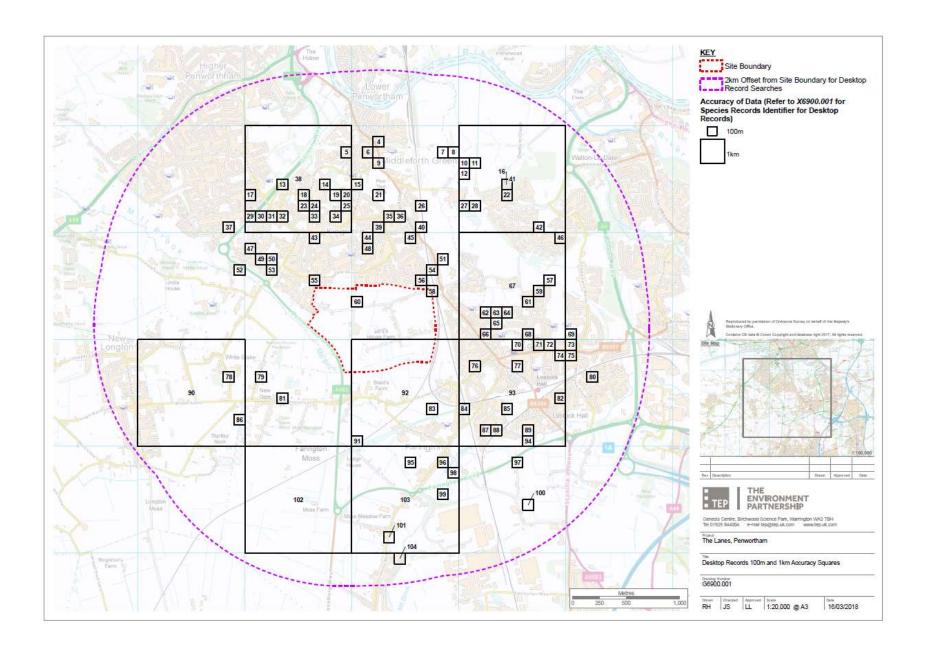
## **Notable Species**

## Extract of Species Data within 2km of the Site

Source: LERN

Species records which are listed under the following have been included:

- European Protected Species (EPS);
- Protected bird species under Schedule 1 of the Wildlife and Countryside Act 1981, as amended (WCA1);
- Protected animal species under Schedule 5 of the Wildlife and Countryside Act 1981, as amended (WCA5);
- Protected plant species under Schedule 8 of the Wildlife and Countryside Act 1981, as amended (WCA8);
- Invasive non-native species under Schedule 9 of the Wildlife and Countryside Act 1981, as amended (WCA9);
- Species of principal importance under Section 41 of the Natural Environment and Rural Communities Act 2006 (S41); and
- Red and Amber listed Birds of Conservation Concern (BRd/BAm).



	CommonName	TxGroup		_	-	-	BoCC4_Red	BHS_Specie	
_	Bullfinch	bird	1999 1999		No	No	No	No	Yes
	Dunnock Grey Wagtail	bird bird	1999		No No	No No	No Yes	No No	Yes No
	House Sparrow	bird	1999		No	Yes	Yes	No	Yes
	Lesser Redpoll	bird	2004	No	No	Yes	Yes	No	No
1	Lesser Redpoll	bird	2003	No	No	Yes	Yes	No	No
	Mistle Thrush	bird	1999		No	No	Yes	No	No
	Song Thrush	bird	1999		No	No	Yes	No	Yes
	Starling Willow Warbler	bird bird	1999 1999		No No	No No	Yes No	No No	Yes Yes
_	Barn Owl	bird	1999		No	No	No	No	No
_	Corn Bunting	bird	2005		No	No	Yes	No	Yes
2	Corn Bunting	bird	2004	No	No	No	Yes	No	Yes
2	Corn Bunting	bird	2003	No	No	No	Yes	No	Yes
	Corn Bunting	bird	1999		No	No	Yes	No	Yes
	Dunnock Cons Boatsides	bird bird	1999 2005		No No	No Yes	No Yes	No	Yes Yes
	Grey Partridge Grey Partridge	bird	2005		No	Yes	Yes	No No	Yes
	Grey Partridge	bird	2003		No	Yes	Yes	No	Yes
	Grey Partridge	bird	1999		No	Yes	Yes	No	Yes
2	House Sparrow	bird	1999	No	No	Yes	Yes	No	Yes
	Lapwing	bird	2004		No	Yes	Yes	No	Yes
	Lapwing	bird	2003		No	Yes	Yes	No	Yes
	Lapwing Linnet	bird bird	1999 1999		No No	Yes No	Yes Yes	No No	Yes No
_	Mistle Thrush	bird	1999		No	No	Yes	No	No
2	Skylark	bird	1999	No	No	Yes	Yes	No	Yes
2	Song Thrush	bird	1999	No	No	No	Yes	No	Yes
	Starling	bird	1999		No	No	Yes	No	Yes
_	Willow Warbler	bird	1999		No	No	No	No	Yes
_	Dunnock House Sparrow	bird bird	1999 1999		No No	No Yes	No Yes	No No	Yes Yes
	Mistle Thrush	bird	1999		No	No	Yes	No	No
_	Song Thrush	bird	1999		No	No	Yes	No	Yes
	Starling	bird	1999	No	No	No	Yes	No	Yes
	Willow Warbler	bird	1999		No	No	No	No	Yes
	Dunnock	bird	2009		No	No	No	No	Yes
	House Sparrow Dunnock	bird bird	2009		No No	Yes No	Yes No	No No	Yes Yes
	House Sparrow	bird	2009		No	Yes	Yes	No No	Yes
	Common Toad	amphibian	2015	No	Yes	Yes	No	Yes	Yes
8	Song Thrush	bird	2015	No	No	No	Yes	No	Yes
_	Willow Warbler	bird	2015		No	No	No	No	Yes
_	Bullfinch Dunnock	bird	2009		No	No	No	No	Yes
-	Song Thrush	bird bird	2009		No No	No No	No Yes	No No	Yes Yes
	Starling	bird	2009		No	No	Yes	No	Yes
	Willow Warbler	bird	2015	No	No	No	No	No	Yes
11	Dunnock	bird	2015	No	No	No	No	No	Yes
	Song Thrush	bird	2015		No	No	Yes	No	Yes
	Willow Warbler Song Thrush	bird bird	2015		No No	No No	No Yes	No No	Yes Yes
	Dunnock	bird	2009		No	No	No.	No No	Yes
	Song Thrush	bird	2009		No	No	Yes	No	Yes
	House Sparrow	bird	2009		No	Yes	Yes	No	Yes
	Song Thrush	bird	2009		No	No	Yes	No	Yes
	Starling	bird	2009		No	No	Yes	No	Yes
	Dunnock Starling	bird bird	2009		No No	No No	No Yes	No No	Yes Yes
	Dunnock	bird	2009		No	No	No	No	Yes
	House Sparrow	bird	2009		No	Yes	Yes	No	Yes
	House Sparrow	bird	2008		No	Yes	Yes	No	Yes
	Starling	bird	2008		No	No	Yes	No	Yes
	Grey Wagtail	bird	2010		No	No	Yes	No	No
	House Sparrow	bird bird	2008		No No	Yes No	Yes Yes	No No	Yes Yes
	Starling Dunnock	bird	2008		No No	No No	Yes No	No No	Yes
	Starling	bird	2009		No	No	Yes	No	Yes
	House Sparrow	bird	2009		No	Yes	Yes	No	Yes
	Starling	bird	2009		No	No	Yes	No	Yes
	Dunnock	bird	2009		No	No	No	No	Yes
	House Sparrow Starling	bird bird	2009		No No	Yes No	Yes Yes	No No	Yes Yes
23	scarling	uird	2009	NO	IVO	IVO	ies	NO	res



e CommonName			_	_	_	_	BHS_Specie	_
24 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
24 Starling	bird	2009		No	No	Yes	No	Yes
25 Dunnock	bird	2009	No	No	No	No	No	Yes
25 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
25 Song Thrush	bird	2009		No	No	Yes	No	Yes
26 Dunnock	bird	2009		No	No	No	No	Yes
26 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
26 Song Thrush	bird	2009	No	No	No	Yes	No	Yes
26 Starling	bird	2009		No	No	Yes	No	Yes
27 Grey Heron	bird	2015	No	No	No	No	Yes	Yes
28 Willow Tit	bird	2009		No	No	Yes	Yes	Yes
29 Dunnock	bird	2009		No	No	No	No	Yes
29 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
29 Starling	bird	2009		No	No	Yes	No	Yes
30 Bullfinch	bird	2009		No	No	No	No	Yes
30 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
31 Bullfinch	bird	2009		No	No	No	No	Yes
32 House Sparrow	bird	2008		No	Yes	Yes	No	Yes
33 House Sparrow	bird	2008		No	Yes	Yes	No	Yes
33 Starling	bird	2008		No	No	Yes	No	Yes
34 Dunnock	bird	2009		No	No	No	No	Yes
34 Starling	bird	2009		No	No	Yes	No	Yes
35 Swift	bird	2014		No	No	No	No	Yes
36 Dunnock	bird	2009		No	No	No	No	Yes
36 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
36 Song Thrush	bird	2009		No	No	Yes	No	Yes
36 Starling	bird	2009		No	No	Yes	No	Yes
37 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
38 Common Frog	amphibian	2011		Yes	No	No	Yes	Yes
38 Herring Gull	bird	2015		No	No	Yes	No	Yes
39 Swift	bird	2011		No	No	No	No	Yes
40 Dunnock	bird	2009		No	No	No	No	Yes
40 Starling	bird	2009		No	No	Yes	No	Yes
41 Mistle Thrush	bird	2015		No	No	Yes	No	No
41 Song Thrush	bird	2011		No	No	Yes	No	Yes
42 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
43 Dunnock	bird	2009		No	No	No	No	Yes
43 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
43 Starling	bird	2009		No	No	Yes	No	Yes
44 Bullfinch	bird	2009		No	No	No	No	Yes
44 Song Thrush	bird	2009		No	No	Yes	No	Yes
45 Dunnock	bird	2009		No	No	No	No	Yes
45 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
45 Song Thrush	bird	2009		No	No	Yes	No	Yes
45 Starling	bird	2009		No	No	Yes	No	Yes
46 Dunnock	bird	2009		No	No	No	No	Yes
47 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
48 Common Frog	amphibian	2011		Yes	No	No	Yes	Yes
49 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
50 Herring Gull	bird	2009		No	No	Yes	No	Yes
50 House Sparrow 51 Dunnock	bird bird	2009		No No	Yes No	Yes	No	Yes
51 House Sparrow	bird	2009		No		No	No No	Yes Yes
	bird	2009		No	Yes No	Yes Yes	No	Yes
51 Starling 52 Dunnock	bird	2009		No	No	No.	No	Yes
52 Grey Heron	bird	2009		No	No	No	Yes	Yes
52 Grey Wagtail	bird	2009		No	No	Yes	No No	No
52 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
•	bird	2009		No	No	Yes	No	Yes
52 Starling 53 Bullfinch	bird	2009		No	No	No.	No	Yes
	bird				No		No	
53 Mistle Thrush		2009		No		Yes		No
53 Song Thrush 53 Starling	bird bird	2009		No No	No No	Yes Yes	No No	Yes Yes
•								
54 House Sparrow 54 Starling	bird bird	2009		No No	Yes No	Yes Yes	No No	Yes Yes
•							No No	
55 House Sparrow	bird	2008		No	Yes	Yes		Yes
55 Starling 56 Dunnock	bird bird	2008		No No	No No	Yes No	No No	Yes Yes
	bird			No			No No	Yes
56 House Sparrow 56 Starling	bird	2009		No No	Yes No	Yes Yes	No No	Yes Yes
57 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
58 West European Hedgehog	terrestrial mammal	2015		No	Yes	No.	No	Yes
59 House Sparrow	bird	2009		No	Yes	Yes	No	Yes
J. Rouse Spariow		2009						



				_	_	_	_	BHS_Specie	_
		bird bird	2009 2009		No No	No No	Yes No	No No	Yes Yes
		bird	2009		No	Yes	Yes	No	Yes
		bird	2009		No	No	Yes	No	Yes
		bird	2009	No	No	No	No	No	Yes
61	House Sparrow	bird	2009	No	No	Yes	Yes	No	Yes
62	House Sparrow	bird	2009	No	No	Yes	Yes	No	Yes
		terrestrial mammal	2005		Yes	No	No	Yes	Yes
		bird	2008		No	Yes	Yes	No	Yes
		bird	2008		No	Yes	Yes	No	Yes
		bird bird	2008		No No	No No	Yes No	No No	Yes Yes
		bird	2009		No	Yes	Yes	No	Yes
	•	bird	2009		No	No	Yes	No	Yes
		bird	2011	No	No	Yes	Yes	No	Yes
67	House Sparrow	bird	2007	No	No	Yes	Yes	No	Yes
68	Dunnock	bird	2009	No	No	No	No	No	Yes
68	House Sparrow	bird	2009		No	Yes	Yes	No	Yes
		bird	2009		No	No	Yes	No	Yes
		bird	2014		No	No	No	No	Yes
		bird bird	2009 2009		No No	Yes No	Yes Yes	No No	Yes Yes
		terrestrial mammal	2005		Yes	No	No.	Yes	Yes
		bird	2009		No	Yes	Yes	No	Yes
		bird	2009		No	No	Yes	No	Yes
	-	bird	2009	No	No	Yes	Yes	No	Yes
74	House Sparrow	bird	2008	No	No	Yes	Yes	No	Yes
75	House Sparrow	bird	2009	No	No	Yes	Yes	No	Yes
		bird	2008		No	Yes	Yes	No	Yes
	•	bird	2009		No	Yes	Yes	No	Yes
		bird	2009		No	No	Yes	No	Yes
		bird	2009		No	No	No	No	Yes
		bird terrestrial mammal	2009 2015		No Yes	Yes No	Yes No	No Yes	Yes Yes
	•	terrestriai mammai bird	2009		No.	No	Yes	No No	res Yes
	-	bird	2009		No	Yes	Yes	No	Yes
		bird	2009		No	No	Yes	No	Yes
	-	bird	2009	No	No	No	Yes	No	Yes
80	Dunnock	bird	2009	No	No	No	No	No	Yes
80	House Sparrow	bird	2009	No	No	Yes	Yes	No	Yes
80	Starling	bird	2009	No	No	No	Yes	No	Yes
		bird	2008		No	No	Yes	No	Yes
		bird	2009		No	No	No	No	Yes
		bird	2009		No	No	Yes	No	Yes
		terrestrial mammal	2000 2009		Yes	Yes	No	Yes	Yes
		bird bird	2009		No No	Yes No	Yes Yes	No No	Yes Yes
		bird	2009		No	No	No	No	Yes
		bird	2009		No	No	No	No	Yes
	Song Thrush	bird	2009		No	No	Yes	No	Yes
	-	bird	2009		No	No	Yes	No	Yes
		terrestrial mammal	2001		Yes	Yes	No	Yes	Yes
87	Dunnock	bird	2009	No	No	No	No	No	Yes
		bird	2009		No	Yes	Yes	No	Yes
		bird	2009		No	No	Yes	No	Yes
		bird	2009		No	Yes	Yes	No	Yes
		bird	2012		No	No	Yes	No	Yes
		bird bird	2012		No No	Yes	Yes	No	Yes
	Lawrence and the second		2012		No	Yes No	Yes Yes	No No	Yes No
90			2012			140	ies	NO	140
90 90	Mistle Thrush	bird	2012			Vec	Vec	No	Vec
90 90 91	Mistle Thrush Lapwing	bird bird	2012	No	No	Yes Yes	Yes Yes	No No	Yes Yes
90 90 91 92	Mistle Thrush Lapwing House Sparrow	bird		No No		Yes Yes No	Yes Yes Yes	No No No	Yes Yes No
90 90 91 92 92	Mistle Thrush Lapwing House Sparrow Mistle Thrush	bird bird bird	2012 2011	No No No	No No	Yes	Yes	No	Yes
90 90 91 92 92	Mistle Thrush Lapwing House Sparrow Mistle Thrush Starling	bird bird bird bird	2012 2011 2012	No No No No	No No No	Yes No	Yes Yes	No No	Yes No
90 90 91 92 92 92	Mistle Thrush Lapwing House Sparrow Mistle Thrush Starling Kingfisher	bird bird bird bird bird	2012 2011 2012 2012	No No No No Yes	No No No No	Yes No No	Yes Yes Yes	No No No	Yes No Yes
90 91 92 92 93 94 95	Mistle Thrush Lapwing House Sparrow Mistle Thrush Starling Kingfisher European Water Vole European Water Vole	bird bird bird bird bird bird terrestrial mammal terrestrial mammal	2012 2011 2012 2012 2011 2001 2000	No No No No Yes No	No No No No No Yes Yes	Yes No No No Yes Yes	Yes Yes Yes No No No	No No No No Yes Yes	Yes No Yes No Yes Yes
90 91 92 92 92 93 94 95	Mistle Thrush Lapwing House Sparrow Mistle Thrush Starling Kingfisher European Water Vole European Water Vole House Sparrow	bird bird bird bird bird bird terrestrial mammal terrestrial mammal	2012 2011 2012 2012 2011 2001 2000 2008	No No No No Yes No No	No No No No No Yes Yes	Yes No No No Yes Yes Yes	Yes Yes Yes No No No Yes	No No No No Yes Yes	Yes No Yes No Yes Yes Yes
90 91 92 92 93 94 95 96	Mistle Thrush Lapwing House Sparrow Mistle Thrush Starling Kingfisher European Water Vole European Water Vole House Sparrow Starling	bird bird bird bird bird bird terrestrial mammal terrestrial mammal bird	2012 2011 2012 2012 2011 2001 2000 2006 2006	No No No No Yes No No No	No No No No No Ves Yes No No	Yes No No No Yes Yes Yes No	Yes Yes Yes No No No Yes Yes	No No No No Yes Yes No No	Yes No Yes No Yes Yes Yes Yes
90 91 92 92 93 94 95 96 97	Mistle Thrush Lapwing House Sparrow Mistle Thrush Starling Kingfisher European Water Vole European Water Vole House Sparrow Starling Dunnock	bird bird bird bird bird bird terrestrial mammal terrestrial mammal bird bird	2012 2011 2012 2012 2011 2001 2000 2008 2008	No No No No Yes No No No No	No No No No No No Yes Yes No No No	Yes No No No Yes Yes Yes No No	Yes Yes Yes No No No Yes Yes	No No No No Yes Yes No No	Yes No Yes No Yes Yes Yes Yes Yes
90 91 92 92 92 93 94 95 96 97	Mistle Thrush Lapwing House Sparrow Mistle Thrush Starling Kingfisher European Water Vole European Water Vole House Sparrow Starling Dunnock House Sparrow	bird bird bird bird bird bird terrestrial mammal terrestrial mammal bird	2012 2011 2012 2012 2011 2001 2000 2006 2006	No No No No Yes No No No No	No No No No No Ves Yes No No	Yes No No No Yes Yes Yes No	Yes Yes Yes No No No Yes Yes	No No No No Yes Yes No No	Yes No Yes No Yes Yes Yes Yes



Grid Square	CommonName	TxGroup	Year	WCA_Sch1	WCA_Sch5	NERC_S41	BoCC4_Red	BHS_Specie	Lancs_BA
100	House Sparrow	bird	2009	No	No	Yes	Yes	No	Yes
100	) Song Thrush	bird	2009	No	No	No	Yes	No	Yes
101	Common Frog	amphibian	2011	No	Yes	No	No	Yes	Yes
102	Lapwing	bird	2013	No	No	Yes	Yes	No	Yes
102	Lapwing	bird	2010	No	No	Yes	Yes	No	Yes
102	Oystercatcher	bird	2013	No	No	No	No	No	Yes
102	Skylark	bird	2013	No	No	Yes	Yes	No	Yes
103	House Sparrow	bird	2013	No	No	Yes	Yes	No	Yes
103	Lapwing	bird	2012	No	No	Yes	Yes	No	Yes
103	Oystercatcher	bird	2012	No	No	No	No	No	Yes
104	House Sparrow	bird	2009	No	No	Yes	Yes	No	Yes
104	Song Thrush	bird	2009	No	No	No	Yes	No	Yes
104	Starling	bird	2009	No	No	No	Yes	No	Yes



## **Local BAP Habitats and Species**

## Lancashire Biodiversity Partnership

### Habitats

- Acid grasslands
- · Arable and horticulture
- Bogs
- Boundary and linear features
- Broadleaved, mixed and yew woodland
- Dwarf scrub-heath
- Montane habitats
- Rivers and streams
- Blanket bog
- Cereal field margins
- · Coastal sand dunes
- Limestone pavements
- Lowland calcareous grassland
- Lowland heathland
- Lowland meadows
- Lowland raised bog
- Reedbeds
- Upland calcareous grassland
- Upland hay meadows
- · Upland heathland
- Upland mixed ashwoods
- Upland oakwood
- Wet woodland

#### Species

- Natterjack toad
- Great crested newt
- Southern wood ant
- Shining guest ant
- Osmia parietina
- Skylark
- Reed bunting
- Grey partridge
- Song thrush
- High brown fritillary
- Northern brown argus
- · Pearl-bordered fritillary
- Freshwater white-clawed crayfish

- · Doros profuges
- Twite
- · Large heath
- Bats
- Lancaster whitebeam
- Lapwing
- Wall whorl snail
- · Mountain whorl snail
- Water vole
- Brown hare
- Otter
- Pipistrelle bat
- Red squirrel
- · Freshwater pearl mussel
- Belted beauty
- Lady's slipper orchid
- Purple ramping-fumitory
- Rock sea-lavender
- Freshwater nemertean