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# Land off Carrs Lane, Cudworth, Barnsley, South Yorkshire

## Extended Phase 1 Habitat Survey Report

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Barratt Yorkshire West & David Wilson Homes

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# 1.0 INTRODUCTION

## 1.1 Terms of Reference

SLR Consulting Ltd was commissioned by Barratt Yorkshire West and David Wilson Homes to undertake an 'Extended' Phase 1 Habitat Survey of land off Carrs Lane, Cudworth, Barnsley in South Yorkshire (approximate central OS grid reference SE386082).

## 1.2 Site Context

The proposed development area (hereafter referred to as the 'application site') is situated on the southwest fringe of Cudworth, South Yorkshire. It comprises of whole and part-fields of arable land, and three small fields of improved grassland (used for grazing livestock), with the latter taking up about 20% of the application site area.

The application site is surrounded by residential properties to the north and east, and by secondary woodland and scrub located along the Trans Pennine Trail to the west. Improved grassland lies to the southwest, alogn with small horse-grazed fields associated with Ring Farm which is the head quarters of the mounted section of the South Yorkshire Police Force. There are various access points into the site, including from the northern boundary and there are informal paths across fields or along field edges, within the site.

Within the wider area the land use is largely mixed, consisting of residential and commercial properties, small to large grazing fields, hedge-lined lanes and the route of the Trans Pennine Trail.

The site itself does not contain any buildings, however, a small stone building, abandoned and set within dense scrub, lies a short distance east of the site boundary.

There were no ponds or streams on or near the boundaries of the application site, however, reference to the relevant OS 1:25,000 scale map and aerial photography shows one water body, formed by a natural spring, to be present 320m to the north-west of the site, a short distance east of the Trans Pennine Trail.

The site lies in Natural England's Coal Measures Natural Area, which characterises the region as a mix of mainly of large cities and towns with extensive re-developed areas of former industrial land, particularly along major river corridors such as the Dearne, as well as restored former colliery spoil heaps and railway lines now used as national trails. The surrounding countryside is a mix of steep-sided wooded valleys, mainly lying to to the west, and large fields of arable or grazing (including those used for horses and ponies), particularly in the more lowland areas, lying to the east.

# 2.0 METHODOLOGY

## 2.1 Desk Study

The Barnsley Biological Records Centre was contacted for ecological data for the application site and land within a 1.5 km radius of the application site boundary, including records of designated sites[1] and species of conservation concern at a national, regional and/or local level[2].

## 2.2 Field Survey

The Extended Phase I habitat survey and mapping exercise was carried out by Mr Jim Flanagan, an experienced Senior Field Ecologist with SLR Consulting, on 18th August 2014 using standard Phase 1 Habitat survey methodology (JNCC, 2010). In addition to general habitat classification and mapping, a botanical species list was also compiled[3], with the abundance of each species being estimated for each main habitat-type using standard 'DAFOR' codes: **D**ominant, **A**bundant, **F**requent, **O**ccasional, **R**are (**L**ocally is used as a prefix where appropriate).

Habitats and features with potential to support protected and/ or conservation priority fauna, together with any field signs of such species were searched for. Trees were assessed for their potential to support roosting bats following the second edition of the Bat Conservation Trust's Good Practice Guidelines (Hundt, 2012). Accessible water bodies located within a 500m radius or so of the application site boundary were subject to a Habitat Suitability Index (HSI) assessment, in order to determine their suitability for great crested newt *Triturus cristatus* (Oldham et al, 2000). In addition searches were undertaken for invasive species, including those listed on Schedule 9 of the Wildlife and Countryside Act 1981. Habitats or features of interest were recorded on the field map using target notes (see Drawing 1, Appendix A).

## 2.3 Limitations

### *2.3.1 Desk Study*

Desk study data is not likely to be exhaustive and is intended mainly to set a context for the study. It is therefore possible that protected species not identified during the data search do in fact occur within the vicinity of the proposed development site.

### *2.3.2 Field Survey*

Lack of evidence of a protected species at the time of survey does not necessarily preclude them from being present intermittently, or at a later date.

[1] Designated sites include those protected under national or international legislation, such as Sites of Special Scientific Interest (SSSI), and local sites afforded protection under the planning system, such as County Wildlife Sites (CWS) and Regionally Important Geological and Geomorphological Sites (RIGS).

[2] This includes species protected under international and national legislation as well as species included in the UK and/or local Biodiversity Action Plans, Red Data Book taxa, and Red or Amber listed birds of conservation concern.

[3] Botanical nomenclature follows Stace (1997).

## 2.4 Quality Assurance & Environmental Management

The surveyor, Mr Jim Flanagan, is a member of the Chartered Institute of Ecology and Environmental Management (CIEEM) and follows the Institute's code of professional conduct when undertaking ecological work.

# 3.0 RESULTS

## 3.1 Desk study

A complete account of the desk study information received is contained in Appendix D of this report. A summary of this information is provided below.

### *3.1.1 Designated sites*

One statutory designated nature reserve was located within the search area, namely Carlton Marsh Local Nature Reserve (LNR), which lies 0.8km to the northwest of the application site. This LNR is noted for its open water and associated swamp and marsh habitats, along with scrub, secondary and plantation woodland and neutral grassland.

In addition to the LNR, Sunny Bank Wood (which forms part of Sunny Bank, Horse Carr and Storrs Wood LWS), lies circa 1.4 km to the south of the application site, and comprises oak-birch woodland with bluebell habitats.

### *3.1.2 Protected species*

A total of 371 protected species records were provided for the search area. The bulk of these related to birds, with only 62 of the records relating to mammals, reptiles and amphibians; there were only seven invertebrate records provided for the search area.

Most of the non-avian records were for mammals. There were 27 records for water vole *Arvicola amphibious,* with Carlton Marsh (located 800m to the north) being given as the location for approximatley half of these. None of the other water vole records relate to the application site, or land in close proximity to it. There were ten records of brown hare *Lepus europaeus,* all from the Bleachcroft Farm area 300m northwest of the application site.

A single badger *Meles meles* record was provided for an active sett dating from 1981 but for a location not within or near the application site. There were six records of bats covering at least one species – common pipistrelle *Pipsitrellus pipistrellus*. Two of these were for roost sites in buildings, one of which lies 550m to the west of the application site in Lundwood, and the other to the east, in Cudworth, approximately 175m from the application site itself.

Three mammal records relate to hedgehog *Erinaceus europaeus,* all for locations in Cudworth, to the northwest and north of the application site.

Eight records of reptiles and amphibians were provided via the desk study; the only record of great crested newt *Triturus cristatus* relates to a pond lying over 1km to the northeast of the application site, within the period 1996-2000. In addition there were two records of smooth newt *Lissotriton vulgaris* and a single record of palmate newt *Lissotriton helveticus*, both within Carlton Marsh Nature Reserve, circa 800m north of the application site, along with a further smooth newt record for a pond located over 1km to the northeast of the site.

The remaining three amphibian records relate to common frog *Rana temporaria* and common toad *Bufo bufo*, all but one provided for Carlton Marsh. A single grass snake *Natrix natrix* record was also supplied, again, relating to Carlton Marsh (800 metre to the north of the site) dating from 2002.

Of the invertebrate records, all but one were for moths, this being for a white-clawed crayfish *Austropotamobius pallipes* record provided for a stream on the edge of Carlton Marsh, circa 1.2km to the north of the application site boundary.

Bird records were provided for a wide area, with a substantial number coming from Bleachcroft Farm, 600-700m northwest of the application site, as well as from Carlton Marsh, circa 800m to the north of the application site. Most of these date from the late 1980s and 1990s, with a scattering of later records. As far as can be ascertained from the level of detail provided, none of the bird records appear to be associated with the application site itself.

## 3.2 Habitat Descriptions

### *3.2.1 Overview*

The results of the Phase 1 Habitat Survey are illustrated in Drawing 1 (Appendix A).

The application site consists of a mixture of large arable fields/ part-fields, and three smaller fields of improved grassland, further east. The hedgerows bordering and/ or separating these arable/ grazing fields are mainly overgrown, species-poor and defunct (i.e. gappy and not stock-proof). There are no mature trees within the site itself; a small number of semi-mature trees (including some silver birch *Betula pendula* and an oak *Quercus* sp.) are situated along the northern boundary, and another semi-mature to mature oak is located between two of the arable fields.

The field margins are either narrow or entirely absent, however, the arable fields support locally frequent to abundant common poppy *Papaver rhoeas*, scentless mayweed *Tripleurospermum inodorum,* dove's-foot crane's-bill *Geranium molle,* and field pansy *Viola arvensis*. Tall herbs are mainly confined to some field margins and within defunct hedgerows, and comprise very common and widespread species. No invasive plant species listed on Schedule 9 Wildlife & Countryside Act in England and Wales were found within or on the boundary of the application site.

There are no ponds or water courses on site; the nearest known pond (formed by a natural spring) lies circa 320 metres to the north-west of the site boundary, beside the Trans Pennine Trail.

### *3.2.2 Habitats*

*Arable cultivation*

One of the three arable fields/ part-fields had been ploughed and seeded at the time of the survey, and the crop is beginning to emerge. The remaining arable fields/ part-fields supported stubble at the time of the survey. A range of arable plant species were recorded in the stubble fields but these comprise mainly of four species: scentless mayweed, poppy, field pansy and dove's-foot crane's-bill.

*Improved grassland*

The three small fields of improved grassland, located in the eastern part of the application site, were characterised by a moderately tall, uncut sward, dominated by perennial rye-grass *Lolium perenne* and a small range of other grass species. The sward was not herb-rich and had all the characteristics of intensively managed improved grassland.



***Plate 1:*** *View (looking north) of improved grassland within the application site.*

*Tall herb*

This habitat is confined to small strips of vegetation along the margins of the application site, and comprised mainly of rosebay willowherb *Chamerion angustifolium*, common nettle *Urtica dioica*, creeping thistle *Cirsium arvense*, and hogweed *Heracleum sphondylium* occasional.

*Hedgerow and scrub*

Hedgerows within the application site are dominated mainly by hawthorn *Crataegus monogyna*, and are mostly in an overgrown and un-managed condition. Only one hedgerow, the one bordering the southernmost arable field (Hedgerow H5 in Drawing 1), showed any evidence of recent management. Other associated woody species present within these hedgerows included locally abundant blackthorn *Prunus spinosa* (within Hedgerow H5), and occasional elder *Sambucus nigra*, holly *Ilex aquifolium* and rarely oak, ash *Fraxinus excelsior* and rose *Rosa* sp. Bramble *Rubus fruticosus* agg. was also frequent in some of these hedgerows.

A scrub belt in the north-east corner of the site (Target Note 3 in Drawing 1) supports a variety of shrub and tree species, including plum *Prunus* sp., cherry *Prunus* sp., young ash and oak, along with apple *Malus domestica*, hawthorn, holly, field maple *Acer campestre* and hazel *Corylus avellana*. The northern site boundary supported semi-mature silver birch and a semi-mature oak, along with scrub including butterfly bush *Buddleja davidii* and bramble.

*Buildings*

The application site itself does not contain any buildings, however, a derelict stone building, set within dense scrub, lies a short distance to the east of the site boundary (refer to Target Note 2).



***Plate 2:*** *View (looking north) of overgrown hedge along the eastern side of the southernmost arable field (Hedgerow H7). As can be seen the field margins are typically absent or very narrow.*



***Plate 3:*** *View (looking northwest) of arable field that has been recently ploughed and seeded. Beyond the scrub and trees in the far distance is the route of the Trans Pennine Trail.*

## 3.3 Fauna

### 3.3.1 Birds

A limited number of bird species were recorded within the application site during the Extended Phase I Habitat Survey, including two Birds of Conservation Concern (BoCC), namely house sparrow *Passer domestica* and starling *Sturnus vulgaris*. The site has potential to support a small range of other shrub/ tree and ground nesting birds, mainly common and widespread passerine species.

### 3.3.2 Amphibians

The site contains no waterbodies or water courses. Reference to the relevant OS 1:25,000 scale map and aerial photography shows one water body to be present within a 500m radius of the application site boundary. This pond lies approximately 320m to the north-west of the site, a short distance east of the Trans Pennine Trail. This pond marks the emergence of a spring (as described on the OS 1:25,000 scale map) and measures approximately 10m x 6m (Plate 4).

The pond is located on the western margin of an improved grazing field, and is viewable through scrub and tree vegetation growing on the former railway embankment of the Trans Pennine Trail. A Habitat Suitabilty Index (HSI) assessment carried out on this pond yielded a score of 0.56, equating to a pond of 'below average' potential for great crested newt.[4] (refer to Appendix C).



***Plate 4:***
*View (from embankment supporting the route of the Trans Pennine Trail) of spring and pond located within an improved grazing field. The banks of the pond are low and have been poached by grazing animals. The pond has 'below average' potential for great crested newt.*

### 3.3.3 Bats

The site does not contain any features, trees or structures with potential to support roosting bats; a single stone building, set within scrub, lies immediately to the east of the site boundary (Target Note 2). The site has potential to support foraging and/ or commuting bats, particularly along the taller hedgerows.

[4] [4] Categorisation of scores in Oldham et al, 2000 is as follows: <0.5 = poor suitability for great crested newt; 0.5-0.59 = below average; 0.6-0-69 = average; 0.7-0.79 = good; >0.8 = excellent

# 4.0 RELEVANT LEGISLATION & POLICY[5]

## 4.1 Legislation

### *4.1.1 Habitat Regulations*

The Conservation of Habitats and Species Regulations 2010 transpose Council Directive 92/43/EEC on the Conservation of Natural Habitats and Wild Flora and Fauna (Habitats Directive) into English law, making it an offence to deliberately capture, kill or disturb[6] wild animals listed under Schedule 2 of the Regulations. It is also an offence to damage or destroy a breeding site or resting place of such an animal (even if the animal is not present at the time).

### *4.1.2 Wildlife & Countryside Act*

The Wildlife and Countryside Act 1981, as amended by the Countryside and Rights of Way Act (CroW) 2000 and the Natural Environment and Rural Communities Act (NERC) 2006, consolidates and amends existing national legislation to implement the Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) and Council Directive 79/409/EEC on the Conservation of Wild Birds (Birds Directive), making it an offence to:

- Intentionally kill, injure or take any wild bird or their eggs or nests (with certain exceptions) and disturb any bird species listed under Schedule 1 to the Act, or its dependent young while it is nesting;
- Intentionally kill, injure or take any wild animal listed under Schedule 5 to the Act; intentionally or recklessly damage, destroy or obstruct any place used for shelter or protection by any wild animal listed under Schedule 5 to the Act; intentionally or recklessly disturb certain Schedule 5 animal species while they occupy a place used for shelter or protection;
- Pick or uproot any wild plant listed under Schedule 8 of the Act.

Special Protection Areas (SPA) are strictly protected sites, designated under the Birds Directive, for rare and vulnerable birds and for regularly occurring migratory species.

### *4.1.3 National Parks & Access to the Countryside Act*

National Nature Reserves (NNR's) and Local Nature Reserves (LNR's) are designated under the National Parks and Access to the Countryside Act 1949.

### *4.1.4 Natural Environment & Rural Communities Act*

The NERC 2006 places a duty on authorities to have due regard for biodiversity and nature conservation during the course of their operations.

[5] Please note that this legal information is a summary and intended for general guidance only. The original legal documents should be consulted for definitive information. Web addresses providing access to the full text of these documents are given in the References & Bibliography section.

[6] Disturbance, as defined by the Conservation of Habitats and Species Regulations 2010, includes in particular any action which impairs the ability of animals to survive, breed, rear their young, hibernate or migrate (where relevant); or which affects significantly the local distribution or abundance of the species.

## 4.2 Policy

### *4.2.1 National Planning Policy Framework (NPPF)*

The National Planning Policy Framework (NPPF) states that the planning system should contribute to and enhance the natural and local environment by:

- Recognising the wider benefits of ecosystem services; and
- Minimising impacts on biodiversity and providing net gains in biodiversity where possible, contributing to the Government's commitment to halt the overall decline in biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures.

Other key principles of the NPPF relating to biodiversity are:

- The conservation of International and National statutorily designated sites;
- Protection of ancient woodland and veteran trees;
- The creation, protection, enhancement and management of networks of biodiversity and green infrastructure;
- The preservation, restoration and recreation of priority habitats and ecological networks; and
- The recovery of priority species populations.

### *4.2.2 Biodiversity Action Plans*

The UK Biodiversity Action Plan (UKBAP) (Anon, 1995) was organised to fulfil the Rio Convention on Biological Diversity in 1992, to which the UK is a signatory. A list of national priority species and habitats has been produced with all listed species/habitats having specific action plans defining the measures required to ensure their conservation. Regional and local BAPs have also been organised to develop plans for species/habitats of nature conservation importance at regional and local levels.

### *4.2.3 Local Structure Plans*

County, District and Local Councils have Structure Plans and other policy documents that include targets and policies which aim to maintain and enhance biodiversity. These are used by Planning Authorities to inform planning decisions.

# 5.0 CONCLUSIONS & RECOMMENDATIONS

## 5.1 Species

### *5.1.1 Great crested newt*

The desk study indicates that there is a single great crested newt record within the search area; this record (dating from 2000) relates to a pond located over one kilometre to the north-east of the site, on Cudworth Common, and is separated from the application site by extensive residential development and agricultural land.

The single pond found within 500m radius of the application site, which lies circa 320m to the north-west, beside the Trans Pennine Trail, was subject to HSI assessment and was found to have 'below average' suitability for great crested newt.

Given this, the absence of great crested newt records within 500 metres of the site boundary, and the low pond density which appears to exist in the area, it is concluded that the likelihood of great crested newt occurring on site is considered negligible, and no further surveys are recommended.

### *5.1.2 Birds*

The hedgerows, although mainly defunct and lacking field margins, contain some continuous sections which are either overgrown or have dense growth; these sections in particular have potential for breeding birds, mainly common passerine species.

It is recommended that vegetation clearance within the site should be scheduled to avoid the main bird breeding season, which for most species extends between March and August inclusive. If this is not possible then a breeding bird survey of habitat to be removed should be carried out by a suitably experienced ecologist, immediately prior to clearance taking place. If any active bird nests are found the nest and surrounding vegetation should be protected until the nesting attempt is concluded, and the young have fledged.

In order to ensure that the site retains its value to nesting, and foraing birds, it is recommended that landscape planting should shrubs which provide both cover, and berries or fruits; potentially suitable species include hawthorn, blackthorn, crab apple and rowan.

### *5.1.3 Bats*

The site does not contain any buildings, and none of the trees contain features of potential value to roosting bats. However, the margins of the site, particularly the larger and less intensively managed hedgerows, have potential for roosting bats.

In order to retain its value for foraging bats, it is recommended that a sensitively designed landscaping and lighting scheme should be employed. The landscaping scheme should aim to retain existing hedgerow wherever possible, and to plan new or replacement hedgerows, wherever necessary.

In order to enhance the site for roosting bats, it is recommended that a number of tree mounted wooden and/ or woodcrete bat boxes should be erected, and that a proportion of the new houses should be fitted with externally mounted bat boxes, or internally fitted bat 'tubes' or 'in cavity bat boxes'.

## 6.0 CLOSURE

This report has been prepared by SLR Consulting Limited with all reasonable skill, care and diligence, and taking account of the manpower and resources devoted to it by agreement with the client. Information reported herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of Barratt Yorkshire West and David Wilson Homes; no warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

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

## REFERENCES & BIBLIOGRAPHY

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Eaton MA, Brown AF, Noble DG, Musgrove AJ, Hearn R, Aebischer NJ, Gibbons DW, Evans A and Gregory RD (2009) Birds of Conservation Concern 3: the population status of birds in the United Kingdom, Channel Islands and the Isle of Man. *British Birds* 102, pp 296 -341.

Foster, J. (2001) *Great Crested Newt Mitigation Guidelines*. English Nature, Peterborough.

Gent, T. & Gibson, S. (1998) *Herpetofauna Workers Manual*. Joint Nature Conservation Committee, Peterborough.

Joint Nature Conservation Committee (2010) *Handbook for Phase 1 Habitat Survey – A Technique for Environmental Audit* (Revised reprint). Joint Nature Conservancy Council, Peterborough.

Stace, C. (1997) *New Flora of the British Isles* (2nd edition). Cambridge University Press, Cambridge.

*Web addresses for access to full UK legislation and policy text:*

Conservation of Habitats and Species Regulations 2010:

http://www.opsi.gov.uk/si/si2010/uksi_20100490_en_1

Habitats Directive:

www.europa.eu.int/eur-lex/en/lif/dat/1992/en_392L0043

Birds Directive:

eur-lex.europa.eu/LexUriServ/site/en/consleg/1979/L/01979L0409-20070101-en

Wildlife and Countryside Act 1981:

www.opsi.gov.uk/RevisedStatutes/Acts/ukpga/1981/cukpga_19810069_en_1

Countryside and Rights of Way Act 2000:

www.legislation.hmso.gov.uk/acts/acts2000/20000037

Natural Environment and Rural Communities Act 2006:

http://www.opsi.gov.uk/acts/acts2006/ukpga_20060016_en_1

Protection of Badgers Act 1992:

http://www.opsi.gov.uk/ACTS/acts1992/ukpga_19920051_en_1

National Parks and Access to the Countryside Act 1949:

http://www.opsi.gov.uk/RevisedStatutes/Acts/ukpga/1949/cukpga_19490097_en_1

National Planning Policy Framework

www.gov.uk/government/uploads/system/uploads/attachment_data/file/6077/2116950.pdf

## APPENDIX A – TARGET NOTES TO EXTENDED PHASE 1 HABITAT SURVEY MAP (DRAWING 1)

| Target Note | Photo | Description |
|---|---|---|
| 1 |  | Field bank supporting coarse, tall, rough grasses and herbs between two of the arable fields. |
| 2 |  | Low single storey stone building with single pitch roof of possible value to roosting bats. This building is located a short distance to the east of the application site boundary. |
| 3 |  | Stand of dense scrub containing a range of planted species including plum, cherry, apple, hazel, hawthorn and young ash (semi-mature specimen at rear of shrub belt. |

| | | |
|---|---|---|
| 4 |  | Hedged enclosure containing improved grassland, with tall herb margins alongside hedgerows. Hedgerows are mostly species-poor but very overgrown and therefore provide good bird breeding habitat. |

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A (stubble)

A (recently sown)

A (stubble)

A (stubble)

A (stubble)

I

I

I

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I

H1

H2

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H4

H5

H6

H7

1

2

3

4

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W

E

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Small Bridge

Dike

FB

FF

37.8m

El Sub Sta

Ring Farm

0 0.001

kilometres

03696.00024.05.01.00.Ext_Phase_1

NOTES

LEGEND

- SITE BOUNDARY
- TARGET NOTE
- A ARABLE
- I IMPROVED GRASSLAND
- BROAD-LEAVED PLANTATION WOODLAND
- TALL HERB
- FENCE
- TREE
- SCATTERED SCRUB
- SPECIES POOR HEDGEROW
- SPECIES POOR DEFUNCT HEDGEROW
- DRY DITCH
- WALL
- BUILDING

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# LAND OFF CARRS LANE, CUDWORTH

## ECOLOGICAL ASSESSMENT

**RESULTS OF EXTENDED PHASE 1 HABITAT SURVEY**

**DRAWING 1**

SCALE 1:3,000@A3

DATE AUGUST 2014

## APPENDIX B – BOTANICAL SPECIES LIST AND FREQUENCY VALUES

| Common Name | Latin Name | Frequency (DAFOR) |
|---|---|---|
| Annual meadow-grass | *Poa annua* | F |
| Apple | *Malus domestica* | R |
| Ash | *Fraxinus excelsior* | LA |
| Blackthorn | *Prunus spinosa* | LF |
| Bladder campion | *Silene vulgaris* | LF |
| Bramble | *Rubus fruticosus* agg. | LA |
| Broad-leaved dock | *Rumex obtusifolius* | O-LF |
| Butterfly bush | *Buddleja davidii* | LF |
| Cherry | *Prunus sp.* | LA |
| Cleavers | *Galium aparine* | LA |
| Cock's-foot | *Dactylis glomerata* | F |
| Common field speedwell | *Veronica persica* | LF |
| Common nettle | *Urtica dioica* | LA |
| Common poppy | *Papaver rhoeas* | LF |
| Common ragwort | *Senecio jacobaea* | LF |
| Cow parsley | *Anthriscus sylvestris* | O |
| Creeping thistle | *Cirsium arvense* | LF |
| Cut-leaved crane's-bill | *Geranium dissectum* | LF |
| Dove's-foot cranesill | *Geranium molle* | LF |
| Elder | *Sambucus nigra* | F |
| False oat-grass | *Arrhenatherum elatius* | LF |
| Field forget-me-not | *Myosotis arvensis* | O |
| Field maple | *Acer campestre* | R |
| Field pansy | *Viola arvensis* | LA |
| Field rose | *Rosa arvensis* | R |
| Fool's parsley | *Aethusa cynapium* | LF |
| Great willowherb | *Epilobium hirsutum* | LF |
| Groundsel | *Senecio vulgaris* | O |
| Hawthorn | *Crataegus monogyna* | F-LA |
| Hazel | *Corylus avellana* | R |
| Hedge bindweed | *Calystegia sepium* | LA |
| Hedge mustard | *Sisymbrium officinale* | O |
| Hemlock | *Conium maculatum* | LF |
| Herb Robert | *Geranium robertianum* | O |
| Holly | *Ilex aquifolium* | O |
| Hogweed | *Heracleum sphondylium* | O-LF |
| Ivy | *Hedera helix* | LA-LD |
| Mugwort | *Artemisium vulgare* | O |
| Nipplewort | *Lapsana communis* | O |
| Pedunculate oak | *Quercus robur* | O |
| Perennial rye-grass | *Lolium perenne* | LA-LD |
| Perennial sow-thistle | *Sonchus arvensis* | O |
| Rosebay willowherb | *Chamerion angustifolium* | LF |
| Scentless mayweed | *Tripleurospermum inodorum* | LA |
| Silver birch | *Betula pendula* | LF |
| Spear thistle | *Cirsium vulgare* | O |
| Sycamore | *Acer pseudoplatanus* | R |

| Common Name | Latin Name | Frequency (DAFOR) |
|---|---|---|
| Wild plum | *Prunus domestica* | LF |
| Wood sage | *Teucrium scorodonia* | LF |
| Yorkshire fog | *Holcus lanatus* | F |

Key to frequency value:
D = Dominant
A = Abundant
F = Frequent
O = Occasional
R = Rare
'L' denotes locally dominant, abundant etc.

# APPENDIX C

| Great Crested Newt HSI Assessment | | | |
|---|---|---|---|
| **Project** | **Barratt Homes West & David Wilson Homes** | | |
| Project number | 424.03696.00024 | | |
| Site | Land off Carrs Lane, Cudworth | | |
| Pond number/reference | **P1** | | |
| OS Grid reference | SE381084 | | |
| Location details | A short distance east of the Trans Pennine Trail and within a semi-improved grazing field | | |
| Access permission | No - pond viewable from the edge of the Trail embankment | | |
| Access instructions | N/A | | |
| Landowner name | N/K | | |
| Address/email | N/A | | |
| Telephone | N/A | | |
| **Habitat Suitability Index** | | | **SI value** |
| SI1. Map location | **A/B/C** | A | 1.00 |
| SI2. Surface area | **rectangle/ellipse/irregular** | ellipse | |
| | length (m) | 10 | |
| | width (m) | 5 | |
| | OR estimate ($m^2$) if irregular | | |
| | *area ($m^2$) =* | 39.25 | 0.08 |
| SI3. Dessication rate | **never/rarely/sometimes/frequently** | sometimes | 0.50 |
| SI4. Water quality | **good/moderate/poor/bad** | moderate | 0.67 |
| SI5. Shade | % of margin shaded 1m from bank | 25 | 1.00 |
| SI6. Waterfowl | **absent/major/minor** | minor | 0.67 |
| SI7. Fish population | **absent/possible/minor/major** | possible | 0.67 |
| SI8. Pond density | number of ponds within 1km | 5 | 1.00 |
| SI9. Terrestrial habitat | **good/moderate/poor/isolated** | moderate | 0.67 |
| SI10. Macrophyte cover | % | 10 | 0.41 |
| | | **HSI =** | **0.56** |
| | | provisional HSI = | 0.53 |
| *Use provisional HSI value if above 0.75* | | | |
| | | Date undertaken | 18-08-14 |

# APPENDIX D – DESK STUDY DATA

| *Grid Ref* | *Location* | *Date* | *Scientific Name* | *Common Name* | *Comments* |
|---|---|---|---|---|---|
| SE39770835 | willow pond and ditch E. of Moorland Cres., Cudworth | 01/01/00 | Triturus cristatus | Great Crested Newt | ca 100 each year for 4 years in pitfalls |
| SE3809 | Carlton Marsh LWS | 01/01/02 | Bufo bufo | Common Toad | |
| SE3809 | Carlton Marsh LWS | 01/01/02 | Natrix natrix | Grass Snake | |
| SE381094 | Cudworth Dike | 25/10/12 | Austropotamobius pallipes | Freshwater Crayfish | |
| SE3809 | Carlton Marsh, plantations | 01/10/97 | Perdix perdix | Grey Partridge | small groups |
| SE381091 | Bleachcroft Farm pond, Cudworth | 01/04/01 | Perdix perdix | Grey Partridge | regularly |
| SE3807 | Cudworth | 10/10/03 | Perdix perdix | Grey Partridge | between Cudworth & Lundwood |
| SE3809 | Carlton Marsh, farmland to E of Reserve | 08/11/92 | Perdix perdix | Grey Partridge | together on hillside |
| SE381094 | Carlton Marsh (fields adjacent to) | 24/02/12 | Perdix perdix | Grey Partridge | 2 |
| SE381091 | Bleachcroft Farm pond, Cudworth | 17/05/99 | Vanellus vanellus | Lapwing | singles on a few dates |
| SE381091 | Bleachcroft Farm pond, Cudworth | 01/05/02 | Vanellus vanellus | Lapwing | thro' month |
| SE381091 | Bleachcroft Farm pond, Cudworth | 01/06/02 | Vanellus vanellus | Lapwing | throughout |
| SE3907 | Cudworth Common | 10/02/89 | Vanellus vanellus | Lapwing | |
| SE3907 | Cudworth Common | 10/02/89 | Vanellus vanellus | Lapwing | |
| SE3808 | Bleachcroft Farm, Cudworth | 11/02/12 | Vanellus vanellus | Lapwing | |
| SE381091 | Carlton Marsh Reserve | 15/05/96 | Numenius arquata | Curlew | to N |
| SE30Z | BTO, Barnsley | 01/04/88 | Numenius arquata | Curlew | |
| SE30Z | BTO, Barnsley | 01/04/88 | Streptopelia turtur | Turtle Dove | |
| SE30Z | BTO, Barnsley | 01/04/89 | Streptopelia turtur | Turtle Dove | |
| SE378093 | Monk Bretton | 06/06/92 | Streptopelia turtur | Turtle Dove | on wires |
| SE30Z | BTO, Barnsley | 01/04/88 | Locustella naevia | Grasshopper Warbler | |
| SE30Z | BTO, Barnsley | 01/04/89 | Locustella naevia | Grasshopper Warbler | |
| SE378093 | Monk Bretton | 06/06/92 | Locustella naevia | Grasshopper Warbler | "reeling" from old railway embankment |
| SE3808 | Bleachcroft Farm, Cudworth | 22/04/12 | Locustella naevia | Grasshopper Warbler | Male singing. |
| SE30Z | Cudworth Park | 24/04/03 | Phylloscopus sibilatrix | Wood Warbler | |

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|---|---|---|---|---|---|
| SE3809 | Carlton Marsh LWS | 01/01/02 | Emberiza schoeniclus | Reed Bunting | |
| SE3808 | Bleachcroft Farm, Cudworth | 05/08/12 | Emberiza schoeniclus | Reed Bunting | A pair feeding fledged young |
| SE30Z | BTO, Barnsley | 01/04/88 | Passer montanus | Tree Sparrow | |
| SE30Z | BTO, Barnsley | 01/04/89 | Passer montanus | Tree Sparrow | |
| SE3808 | Bleachcroft | 28/12/95 | Numenius arquata | Curlew | |
| SE3808 | Bleachcroft | 04/07/95 | Numenius arquata | Curlew | Feeding on meadow |
| SE3808 | Cudworth | 28/12/11 | Perdix perdix | Grey Partridge | 5 Count |
| SE393071 | Rifle Range Farm, Low Cudworth | 21/02/13 | Perdix perdix | Grey Partridge | In ploughed field to north-west of River Dearne. |
| SE390069 | Rifle Range Farm, Low Cudworth | 04/03/13 | Perdix perdix | Grey Partridge | On edge of arable field, near base of relict hedge. |
| SE390069 | Rifle Range Farm, Low Cudworth | 04/03/13 | Perdix perdix | Grey Partridge | On edge of arable field, near base of relict hedge. |
| SE391070 | Rifle Range Farm, Low Cudworth | 04/03/13 | Perdix perdix | Grey Partridge | In arable field with game cover strip along edge. |
| SE398084 | Cudworth Common (N. end of former colliery tip) | 07/03/13 | Perdix perdix | Grey Partridge | Near wet area on top of hill. |
| SE400083 | Cudworth Common (N. end of former colliery tip) | 07/03/13 | Perdix perdix | Grey Partridge | Flushed from wet grassland. |
| SE3808 | Cudworth | 28/12/11 | Passer domesticus | House Sparrow | 20 Count |
| SE390092 | Belle Green Lane, Cudworth | 07/03/13 | Passer domesticus | House Sparrow | At least 6 in hedge along lane. |
| SE3808 | Bleachcroft Farm, Cudworth | 26/09/95 | Passer domesticus | House Sparrow | |
| SE391094 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE392082 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE377073 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE380082 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE385088 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE377073 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE378080 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE391094 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE392082 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE394080 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE378080 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |

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|---|---|---|---|---|---|
| SE380082 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE375077 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE385088 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE394080 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE375077 | 'BARNSLEY MBC' | 25/01/09 | Passer domesticus | House Sparrow | |
| SE3808 | Bleachcroft Farm, Cudworth | 01/01/94 | Vanellus vanellus | Lapwing | 3 pairs bred producing 6 young |
| SE3808 | Bleachcroft Meadow | 01/03/95 | Vanellus vanellus | Lapwing | 3 prs displaying during the month. 1 nest had eggs |
| SE3808 | Bleachcroft Meadow | 13/06/95 | Vanellus vanellus | Lapwing | A pair sheltering a chick from crows |
| SE3808 | Bleachcroft Farm, Cudworth | 11/04/00 | Vanellus vanellus | Lapwing | Displaying |
| SE39900865 | Ferry Moor wader scrape | 10/03/13 | Vanellus vanellus | Lapwing | |
| SE3808 | Bleachcroft Farm, Cudworth | 21/06/93 | Vanellus vanellus | Lapwing | Young |
| SE384075 | Rifle Range Farm, Low Cudworth | 04/03/13 | Vanellus vanellus | Lapwing | In field to W. of former railway embankment. |
| SE391070 | Rifle Range Farm, Low Cudworth | 04/03/13 | Vanellus vanellus | Lapwing | In arable field with game cover strip along edge. |
| SE392072 | Rifle Range Farm, Low Cudworth | 04/03/13 | Vanellus vanellus | Lapwing | In ploughed field adjacent to River Dearne. |
| SE398089 | Fields off Ferry Moor Lane, Cudworth | 07/03/13 | Vanellus vanellus | Lapwing | In field of winter wheat. |
| SE399085 | Cudworth Common (N. end of former colliery tip) | 07/03/13 | Vanellus vanellus | Lapwing | In wet area on top of hill. |
| SE399087 | Wetland near Ferry Moor Lane, Cudworth Common | 07/03/13 | Vanellus vanellus | Lapwing | |
| SE3809 | Cudworth Park | 20/04/93 | Turdus torquatus | Ring Ouzel | Male found on footpath |
| SE3809 | Cudworth Park | 14/06/94 | Muscicapa striata | Spotted Flycatcher | |
| SE3809 | Cudworth Park | 25/09/94 | Muscicapa striata | Spotted Flycatcher | |
| SE3808 | Bleachcroft Farm, Cudworth | 28/03/98 | Passer montanus | Tree Sparrow | |
| SE3808 | Bleachcroft Farm, Cudworth | 01/12/98 | Passer montanus | Tree Sparrow | |
| SE3808 | Bleachcroft Farm, Cudworth | 16/11/98 | Passer montanus | Tree Sparrow | |
| SE381089 | Bleachcroft Farm Pond | 10/07/95 | Streptopelia turtur | Turtle Dove | Copulating |
| SE3808 | Bleachcroft Farm, Cudworth | 23/08/93 | Streptopelia turtur | Turtle Dove | Adults |
| SE378094 | Cudworth North Junction | 04/03/13 | Emberiza citrinella | Yellowhammer | Singing. |
| SE396087 | Fields off Tippit Lane, Cudworth | 07/03/13 | Emberiza citrinella | Yellowhammer | Singing in scrub near eastern end of lane. |

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|---|---|---|---|---|---|
| SE3708 | Carlton Marsh, farmland to E of Reserve | 13/07/02 | Motacilla flava | Yellow Wagtail | to S |
| SE3708 | Carlton Marsh, farmland to E of Reserve | 14/07/02 | Motacilla flava | Yellow Wagtail | to S |
| SE3708 | Carlton Marsh, farmland to E of Reserve | 03/09/02 | Motacilla flava | Yellow Wagtail | |
| SE30Z | Park Avenue, Cudworth | 27/08/03 | Motacilla flava | Yellow Wagtail | to S |
| SE30Z | BTO, Barnsley | 01/04/88 | Motacilla flava | Yellow Wagtail | |
| SE30Z | BTO, Barnsley | 01/04/89 | Motacilla flava | Yellow Wagtail | |
| SE381089 | Bleachcroft Farm, Cudworth | 27/10/91 | Erinaceus europaeus | Hedgehog | Seen in the pasture |
| SE3808 | Cudworth | 30/05/13 | Erinaceus europaeus | Hedgehog | In private enclosed garden. 1 blind and sick. |
| SE3808 | Newtown, Cudworth | 28/06/14 | Apamea remissa | Dusky Brocade | actinic lamp |
| SE3808 | Cudworth | 28/06/14 | Apamea remissa | Dusky Brocade | |
| SE3808 | garden Cusworth | 28/06/14 | Hoplodrina blanda | Rustic | actinic lamp |
| SE3808 | Newtown, Cudworth | 28/06/14 | Hoplodrina blanda | Rustic | |
| SE3808 | garden Cusworth | 28/06/14 | Caradrina morpheus | Mottled Rustic | actinic lamp |
| SE3808 | Newtown, Cudworth | 28/06/14 | Caradrina morpheus | Mottled Rustic | |
| SE3809 | Cudworth Park | 18/09/83 | Erinaceus europaeus | Hedgehog | One |
| SE381089 | Bleachcroft Farm, Cudworth | 25/04/91 | Lepus europaeus | Brown Hare | |
| SE3808 | Bleachcroft | 05/05/91 | Lepus europaeus | Brown Hare | |
| SE3808 | Bleachcroft | 17/05/91 | Lepus europaeus | Brown Hare | |
| SE381089 | Bleachcroft Farm, Cudworth | 25/03/91 | Lepus europaeus | Brown Hare | |
| SE3808 | Bleachcroft Farm, Cudworth | 22/04/93 | Lepus europaeus | Brown Hare | Frequenting the 'hidden plain' opposite the farm |
| SE3808 | Bleachcroft Farm, Cudworth | 28/04/93 | Lepus europaeus | Brown Hare | |
| SE3808 | Bleachcroft Farm, Cudworth | 22/07/00 | Lepus europaeus | Brown Hare | |
| SE3808 | Bleachcroft Farm, Cudworth | 25/07/00 | Lepus europaeus | Brown Hare | |
| SE3808 | Bleachcroft Farm, Cudworth | 28/07/00 | Lepus europaeus | Brown Hare | |
| SE3908 | Cudworth | 01/04/04 | Lepus europaeus | Brown Hare | |
| SE30Z | Cudworth | 23/09/98 | Falco columbarius | Merlin | chasing starlings |
| SE30Z | BTO, Barnsley | 01/04/89 | Coturnix coturnix | Quail | |

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|---|---|---|---|---|---|
| SE3808 | Carlton Marsh Reserve | 26/03/97 | Tyto alba | Barn Owl | at dusk |
| SE381089 | Bleachcroft Farm, Cudworth | 01/01/89 | Tyto alba | Barn Owl | |
| SE30Z | BTO, Barnsley | 01/04/89 | Tyto alba | Barn Owl | |
| SE392069 | Wood Nook Farm | 01/01/11 | Tyto alba | Barn Owl | 3 eggs in SITA nest box - deserted |
| SE381091 | Bleachcroft Farm pond, Cudworth | 08/03/01 | Alcedo atthis | Kingfisher | |
| SE381091 | Bleachcroft Farm pond, Cudworth | 01/04/01 | Alcedo atthis | Kingfisher | on dike |
| SE30Z | BTO, Barnsley | 01/04/89 | Anas querquedula | Garganey | |
| SE3809 | Cudworth | 25/05/12 | Numenius phaeopus | Whimbrel | Over Beech Avenue. |
| SE381091 | Carlton Marsh Reserve | 05/05/96 | Tringa ochropus | Green Sandpiper | |
| SE381091 | Bleachcroft Farm pond, Cudworth | 31/12/99 | Tringa ochropus | Green Sandpiper | to N |
| SE3907 | Cudworth Common | 10/02/89 | Tringa ochropus | Green Sandpiper | |
| SE3808 | Bleachcroft Farm, Cudworth | 15/05/94 | Tringa glareola | Wood Sandpiper | on flood flash |
| SE381091 | Carlton Marsh Reserve | 01/05/96 | Tringa nebularia | Greenshank | to N |
| SE3908 | Cudworth | 11/08/96 | Milvus milvus | Red Kite | |
| SE3808 | Cudworth | 01/06/02 | Pandion haliaetus | Osprey | High over from direction of Carlton Marsh 12.27h |
| SE30Z | Upper Cudworth | 17/01/98 | Falco peregrinus | Peregrine | to SE |
| SE3809 | Cudworth | 08/08/12 | Falco peregrinus | Peregrine | Flying SW over Beech Avenue |
| SE3809 | Carlton Marsh, abandoned railway embankment | 15/04/04 | Turdus pilaris | Fieldfare | |
| SE30Z | Cudworth Park | 14/04/00 | Fringilla montifringilla | Brambling | Cudworth Park |
| SE30Z | Cudworth Park | 24/04/03 | Fringilla montifringilla | Brambling | |
| SE3809 | Cudworth | 04/02/12 | Fringilla montifringilla | Brambling | Male visiting garden on Beech Avenue. |
| SE3808 | Bleachcroft Farm, Cudworth | 15/05/95 | Tyto alba | Barn Owl | |
| SE3808 | Bleachcroft Farm, Cudworth | 17/05/95 | Tyto alba | Barn Owl | |
| SE3809 | Cudworth Park | 15/04/00 | Fringilla montifringilla | Brambling | |
| SE3809 | Cudworth Park | 24/03/98 | Fringilla montifringilla | Brambling | Female flying over |
| SE3808 | Bleachcroft Farm, Cudworth | 19/11/98 | Fringilla montifringilla | Brambling | |
| SE3808 | Cudworth | 28/12/11 | Turdus pilaris | Fieldfare | 20 Count |

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|---|---|---|---|---|---|
| SE396083 | Fields off Tippit Lane, Cudworth | 07/03/13 | Turdus pilaris | Fieldfare | At least 1 in hedgerow between fields. |
| SE3808 | Bleachcroft Farm, Cudworth | 13/04/93 | Tringa ochropus | Green Sandpiper | |
| SE3808 | Cudworth | 28/12/11 | Anser anser | Greylag Goose | 2 Count |
| SE3808 | Cudworth Park | 01/10/91 | Falco columbarius | Merlin | |
| SE3809 | Cudworth | 23/09/98 | Falco columbarius | Merlin | Chasing starlings near the Pontefract Road School |
| SE3809 | Cudworth | 05/07/95 | Coturnix coturnix | Quail | Singing after dark from field of flax and poppies |
| SE3808 | Cudworth | 28/12/11 | Turdus iliacus | Redwing | 9 Count |
| SE3808 | Bleachcroft | 09/09/95 | Philomachus pugnax | Ruff | On the flooded meadow |
| SE381089 | Bleachcroft Farm Pond | 09/05/95 | Numenius phaeopus | Whimbrel | |
| SE3808 | Bleachcroft Farm, Cudworth | 15/05/94 | Tringa glareola | Wood Sandpiper | |
| SE3809 | Cudworth | 17/01/98 | Falco peregrinus | Peregrine Falcon | Flying south over the Manse |
| SE30Z | BTO, Barnsley | 01/04/88 | Charadrius dubius | Little Ringed Plover | |
| SE30Z | BTO, Barnsley | 01/04/89 | Charadrius dubius | Little Ringed Plover | |
| SE3809 | Carlton Marsh LWS | 01/01/02 | Charadrius dubius | Little Ringed Plover | |
| SE398087 | Cudworth pond 2 | 01/01/07 | Triturus vulgaris | Smooth Newt | |
| SE3809 | Carlton Marsh LWS | 01/01/02 | Triturus vulgaris | Smooth Newt | |
| SE3809 | Carlton Marsh LWS | 01/01/02 | Triturus helveticus | Palmate Newt | |
| SE3808 | Cudworth | 03/05/89 | Rana temporaria | Common Frog | 2 ad spawn introduced 1987 |
| SE3809 | Carlton Marsh LWS | 01/01/02 | Rana temporaria | Common Frog | |
| SE390081 | 5A Aldham Court | 09/06/07 | Pipistrellus pipistrellus | Pipistrelle | 45 counted by householder |
| SE390081 | Sunny Bank Drive, Cudworth | 09/07/04 | Pipistrellus pipistrellus | Pipistrelle | 1 |
| SE390081 | Sunny Bank Drive, Cudworth | 12/07/04 | Pipistrellus pipistrellus | Pipistrelle | 1 |
| SE3809 | 90 Sunnydale Road, Cudworth | 30/09/93 | Pipistrellus pipistrellus | Pipistrelle | 1 |
| SE3809 | Carlton Marsh LWS | 01/01/02 | Pipistrellus pipistrellus | Pipistrelle | |
| SE3808 | Bleachcroft Farm, Cudworth | 04/05/95 | Charadrius dubius | Little Ringed Plover | |
| SE3808 | Bleachcroft Farm, Cudworth | 06/05/95 | Charadrius dubius | Little Ringed Plover | |
| SE30Z | Cudworth | 02/10/98 | Phalacrocorax carbo | Cormorant | to E at 10.05h |

| | | | | | |
|---|---|---|---|---|---|
| SE30Z | Cudworth | 29/12/98 | Phalacrocorax carbo | Cormorant | to NW |
| SE381091 | Bleachcroft Farm pond, Cudworth | 12/07/99 | Phalacrocorax carbo | Cormorant | to N |
| SE3708 | Monk Bretton | 12/04/90 | Tadorna tadorna | Shelduck | on pond |
| SE3708 | Monk Bretton | 12/04/90 | Cygnus olor | Mute Swan | to N returning to S |
| SE380080 | Cudworth | 22/10/90 | Cygnus olor | Mute Swan | on pond |
| SE3907 | Cudworth Common | 09/02/89 | Falco tinnunculus | Kestrel | |
| SE389072 | Wood Nook Farm | 01/01/11 | Falco tinnunculus | Kestrel | 2 young in SITA nest box |
| SE390074 | Wood Nook Farm | 01/01/11 | Falco tinnunculus | Kestrel | 4 young in SITA nest box |
| SE30Z | BTO, Barnsley | 01/04/89 | Rallus aquaticus | Water Rail | |
| SE381091 | Carlton Marsh Reserve | 24/05/96 | Haematopus ostralegus | Oystercatcher | |
| SE3907 | Cudworth Common | 10/02/89 | Pluvialis apricaria | Golden Plover | |
| SE3809 | Cudworth | 10/01/12 | Pluvialis apricaria | Golden Plover | Flying south-west over Beech Avenue. |
| SE381091 | Carlton Marsh Reserve | 05/05/96 | Gallinago gallinago | Snipe | |
| SE381091 | Carlton Marsh Reserve | 12/05/96 | Gallinago gallinago | Snipe | |
| SE3809 | Cudworth | 15/11/12 | Scolopax rusticola | Woodcock | |
| SE381091 | Carlton Marsh Reserve | 28/05/96 | Tringa totanus | Redshank | |
| SE30Z | BTO, Barnsley | 01/04/88 | Tringa totanus | Redshank | |
| SE30Z | BTO, Barnsley | 01/04/89 | Tringa totanus | Redshank | |
| SE3808 | Bleachcroft Farm, Cudworth | 01/04/94 | Tringa totanus | Redshank | only one pair stayed and apparently failed |
| SE3808 | Bleachcroft Farm, Cudworth | 01/04/94 | Tringa totanus | Redshank | 2 pairs set up breeding territory - breeding failed |
| SE3808 | Bleachcroft | 03/12/95 | Tringa totanus | Redshank | Feeding on flood water |
| SE3808 | Cudworth | 28/12/11 | Larus argentatus | Herring Gull | 10 Count |
| SE381091 | Carlton Marsh Reserve | 01/05/96 | Columba oenas | Stock Dove | regularly |
| SE381091 | Bleachcroft Farm pond, Cudworth | 26/04/01 | Columba oenas | Stock Dove | in old buildings |
| SE393071 | 'BARNSLEY MBC' | 01/01/11 | Columba oenas | Stock Dove | 2 eggs in SITA nest box |
| SE30Z | Cudworth | 01/08/98 | Alauda arvensis | Skylark | to N |
| SE30Z | Cudworth | 27/08/98 | Alauda arvensis | Skylark | to N |

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|---|---|---|---|---|---|
| SE3708 | Carlton Marsh, farmland to E of Reserve | 27/07/02 | Alauda arvensis | Skylark | |
| SE381094 | fields adj.to Carlton Marsh | 24/02/12 | Alauda arvensis | Skylark | several in song |
| SE380095 | Fields to east of Carlton Marsh | 24/02/12 | Alauda arvensis | Skylark | |
| SE3809 | Beech Avenue, Cudworth | 13/10/03 | Hirundo rustica | Swallow | |
| SE3808 | Cudworth | 16/10/02 | Delichon urbica | House Martin | |
| SE30Z | BTO, Barnsley | 01/04/88 | Riparia riparia | Sand Martin | |
| SE30Z | BTO, Barnsley | 01/04/89 | Riparia riparia | Sand Martin | |
| SE30Y | BTO, Barnsley | 01/04/88 | Parus montanus | Willow Tit | |
| SE30Z | BTO, Barnsley | 01/04/88 | Parus montanus | Willow Tit | |
| SE30Z | BTO, Barnsley | 01/04/89 | Parus montanus | Willow Tit | |
| SE3708 | Carlton Marsh, farmland to E of Reserve | 14/07/02 | Phoenicurus phoenicurus | Redstart | |
| SE3708 | farmland in SE3708 to S of Carlton Marsh | 02/08/02 | Phoenicurus phoenicurus | Redstart | |
| SE3708 | Carlton Marsh, farmland to E of Reserve | 03/09/02 | Phoenicurus phoenicurus | Redstart | |
| SE381091 | Bleachcroft Farm pond, Cudworth | 22/08/04 | Phoenicurus phoenicurus | Redstart | |
| SE381091 | Bleachcroft Farm pond, Cudworth | 01/05/99 | Motacilla cinerea | Grey Wagtail | also on 16th |
| SE381091 | Bleachcroft Farm pond, Cudworth | 01/04/01 | Motacilla cinerea | Grey Wagtail | regularly on dike |
| SE381091 | Bleachcroft Farm pond, Cudworth | 01/03/02 | Motacilla cinerea | Grey Wagtail | |
| SE3808 | Bleachcroft Farm, Cudworth | 03/11/12 | Motacilla cinerea | Grey Wagtail | |
| SE381091 | Bleachcroft Farm pond, Cudworth | 01/03/02 | Motacilla cinerea | Grey Wagtail | |
| SE381091 | Bleachcroft Farm pond, Cudworth | 01/04/02 | Motacilla cinerea | Grey Wagtail | on 3 dates |
| SE381091 | Bleachcroft Farm pond, Cudworth | 06/05/02 | Motacilla cinerea | Grey Wagtail | |
| SE381091 | Bleachcroft Farm pond, Cudworth | 15/05/04 | Motacilla cinerea | Grey Wagtail | feeding young; also on 28th May |
| SE381091 | Bleachcroft Farm pond, Cudworth | 15/05/04 | Motacilla cinerea | Grey Wagtail | feeding young; also on 28th May |
| SE3808 | Bleachcroft Farm, Cudworth | 01/01/12 | Motacilla cinerea | Grey Wagtail | |
| SE381091 | Bleachcroft Farm pond, Cudworth | 22/08/04 | Motacilla flava | Yellow Wagtail | |
| SE3708 | farmland to E of Carlton Marsh Reserve | 13/07/02 | Motacilla flava | Yellow Wagtail | BTO Habitat Code: E4: to S |
| SE3708 | farmland to E of Carlton Marsh Reserve | 14/07/02 | Motacilla flava | Yellow Wagtail | BTO Habitat Code: E4: to S |

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| SE3708 | farmland to E of Carlton Marsh Reserve | 03/09/02 | Motacilla flava | Yellow Wagtail | BTO Habitat Code: E4 |
| SE30Z | Cudworth | 27/08/03 | Motacilla flava | Yellow Wagtail | |
| SE30Z | BTO, Barnsley | 01/04/88 | Motacilla flava | Yellow Wagtail | |
| SE30Z | BTO, Barnsley | 01/04/89 | Motacilla flava | Yellow Wagtail | |
| SE391094 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Starling | |
| SE392082 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Starling | |
| SE377073 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Starling | |
| SE380082 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Starling | |
| SE3808 | Bleachcroft Farm, Cudworth | 28/10/12 | Sturnus vulgaris | Starling | Heading north. |
| SE375077 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Starling | |
| SE385088 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Starling | |
| SE388085 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Starling | |
| SE3808 | Bleachcroft Farm, Cudworth | 08/02/12 | Sturnus vulgaris | Starling | |
| SE3808 | Bleachcroft Farm, Cudworth | 26/06/12 | Sturnus vulgaris | Starling | |
| SE3808 | Bleachcroft Farm, Cudworth | 25/10/12 | Sturnus vulgaris | Starling | Heading north. |
| SE3809 | Carlton Marsh LWS | 01/01/02 | Carduelis cannabina | Linnet | |
| SE30Y | BTO, Barnsley | 01/04/88 | Miliaria calandra | Corn Bunting | |
| SE30Z | BTO, Barnsley | 01/04/88 | Miliaria calandra | Corn Bunting | |
| SE30Z | BTO, Barnsley | 01/04/89 | Miliaria calandra | Corn Bunting | |
| SE30Z | BTO, Barnsley | 01/04/88 | Anas crecca | Teal | |
| SE30Z | BTO, Barnsley | 01/04/89 | Anas crecca | Teal | |
| SE3808 | Bleachcroft Farm, Cudworth | 24/11/12 | Anas crecca | Teal | |
| SE30Z | Cudworth | 13/10/01 | Anas penelope | Wigeon | after dark at 19.40h |
| SE30Z | BTO, Barnsley | 01/04/88 | Anas clypeata | Shoveler | |
| SE30Z | BTO, Barnsley | 01/04/89 | Anas clypeata | Shoveler | |
| SE30Z | BTO, Barnsley | 01/04/89 | Anas strepera | Gadwall | |
| SE30Z | Cudworth | 31/10/98 | Anser brachyrhyncus | Pink-Footed Goose | large skein calling in darkness 22.30h |

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| SE3808 | Bleachcroft Farm pond, Cudworth | 23/02/99 | Anser brachyrhyncus | Pink-Footed Goose | to month end |
| SE3808 | Bleachcroft Farm pond, Cudworth | 01/04/99 | Anser brachyrhyncus | Pink-Footed Goose | daily |
| SE381091 | Bleachcroft Farm pond, Cudworth | 01/05/99 | Anser brachyrhyncus | Pink-Footed Goose | thro' month "is a good flyer " |
| SE30Z | 18 Newton Av, Cudworth | 13/02/04 | Anser brachyrhyncus | Pink-Footed Goose | unknown number over CG's house at 22.45h |
| SE30Z | Turnberry Grove , Cudworth | 14/02/04 | Anser brachyrhyncus | Pink-Footed Goose | to NW over DMS's house at 10.45 |
| SE30Z | Turnberry Grove , Cudworth | 15/02/04 | Anser brachyrhyncus | Pink-Footed Goose | to W over DMS's garden at 11.40 |
| SE3808 | Carlton Marsh LWS | 11/01/12 | Anser brachyrhyncus | Pink-Footed Goose | Flying NW over White Cross Road |
| SE3809 | Cudworth | 29/12/98 | Phalacrocorax carbo | Cormorant | |
| SE3809 | Cudworth Common | 18/11/98 | Emberiza calandra | Corn Bunting | |
| SE381089 | Bleachcroft Farm, Cudworth | 08/02/91 | Calidris alpina | Dunlin | Standing on ice on the pond |
| SE3808 | Cudworth | 28/12/11 | Prunella modularis | Dunnock | 3 Count |
| SE398087 | Cudworth Common | 07/03/13 | Anas strepera | Gadwall | |
| SE381089 | Bleachcroft Farm Pond | 16/10/95 | Anas strepera | Gadwall | Female |
| SE381089 | Bleachcroft Farm Pond | 17/10/95 | Anas strepera | Gadwall | Female |
| SE381089 | Bleachcroft Farm Pond | 20/10/95 | Anas strepera | Gadwall | Female |
| SE39900865 | Ferry Moor wader scrape | 10/03/13 | Anas strepera | Gadwall | |
| SE3808 | Bleachcroft Meadow | 06/12/95 | Pluvialis apricaria | Golden Plover | Feeding |
| SE3808 | Bleachcroft Meadow | 08/12/95 | Pluvialis apricaria | Golden Plover | |
| SE3808 | Bleachcroft Meadow | 09/12/95 | Pluvialis apricaria | Golden Plover | |
| SE3808 | Bleachcroft Meadow | 03/08/95 | Pluvialis apricaria | Golden Plover | |
| SE381089 | Bleachcroft Farm, Cudworth | 01/01/91 | Delichon urbica | House Martin | Breeding pair |
| SE3809 | Cudworth | 11/04/95 | Delichon urbica | House Martin | Arrived at Turnberry Grove in the village |
| SE3808 | Cudworth | 28/12/11 | Falco tinnunculus | Kestrel | 4 Count |
| SE3808 | Bleachcroft Chimney | 22/03/91 | Falco tinnunculus | Kestrel | First observation of display flights |
| SE3808 | Bleachcroft Chimney | 06/07/91 | Falco tinnunculus | Kestrel | Family of five perched on chimney |
| SE3808 | Bleachcroft Chimney | 01/02/94 | Falco tinnunculus | Kestrel | Displaying birds |
| SE389072 | Rifle Range Farm, Low Cudworth | 04/03/13 | Falco tinnunculus | Kestrel | In relict hedge between fields. |

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| SE3808 | Bleachcroft | 01/03/98 | Falco tinnunculus | Kestrel | Displaying near the chimney March into April |
| SE381089 | Bleachcroft Farm, Cudworth | 10/08/93 | Falco tinnunculus | Kestrel | Family party observed |
| SE387070 | Rifle Range Farm, Low Cudworth | 04/03/13 | Carduelis cannabina | Linnet | Heard calling, but not seen. |
| SE396083 | Cudworth | 07/03/13 | Turdus viscivorus | Mistle Thrush | Singing in hedgerow tree. |
| SE386073 | Rifle Range Farm, Low Cudworth | 04/03/13 | Turdus viscivorus | Mistle Thrush | In field (grass ley?) to west of TPT Cudworth Link. |
| SE375077 | 'BARNSLEY MBC' | 25/01/09 | Turdus viscivorus | Mistle Thrush | |
| SE375077 | 'BARNSLEY MBC' | 25/01/09 | Turdus viscivorus | Mistle Thrush | |
| SE3808 | Cudworth | 28/12/11 | Cygnus olor | Mute Swan | 2 Count |
| SE398087 | Cudworth Common | 07/03/13 | Cygnus olor | Mute Swan | |
| SE3808 | Bleachcroft Farm, Cudworth | 29/01/95 | Cygnus olor | Mute Swan | 4 adults, 1 immature |
| SE3808 | Bleachcroft Farm, Cudworth | 06/02/95 | Cygnus olor | Mute Swan | 2 more birds arrived at farm |
| SE3808 | Bleachcroft Farm, Cudworth | 13/03/95 | Cygnus olor | Mute Swan | |
| SE399087 | Cudworth Common | 07/03/13 | Haematopus ostralegus | Oystercatcher | |
| SE3808 | Bleachcroft Farm, Cudworth | 03/04/93 | Haematopus ostralegus | Oystercatcher | |
| SE381089 | Bleachcroft Farm Pond | 16/03/94 | Aythya ferina | Pochard | |
| SE381089 | Bleachcroft Farm Pond | 12/10/94 | Aythya ferina | Pochard | |
| SE381089 | Bleachcroft Farm Pond | 04/12/94 | Aythya ferina | Pochard | |
| SE381089 | Bleachcroft Farm Pond | 01/03/94 | Aythya ferina | Pochard | |
| SE381089 | Bleachcroft Farm Pond | 06/03/94 | Aythya ferina | Pochard | |
| SE381089 | Bleachcroft Farm Pond | 11/03/94 | Aythya ferina | Pochard | |
| SE381089 | Bleachcroft Farm Pond | 02/10/95 | Aythya ferina | Pochard | |
| SE381089 | Bleachcroft Farm Pond | 07/11/95 | Aythya ferina | Pochard | |
| SE381089 | Bleachcroft Farm Pond | 25/09/95 | Aythya ferina | Pochard | |
| SE381089 | Bleachcroft Farm Pond | 29/09/95 | Aythya ferina | Pochard | |
| SE3808 | Bleachcroft Farm, Cudworth | 01/04/93 | Tringa totanus | Redshank | Produced 3 young adjacent to farm pond |
| SE39900865 | Ferry Moor wader scrape | 10/03/13 | Charadrius hiaticula | Ringed Plover | |
| SE3907 | Cudworth Sewage Farm | 15/05/00 | Riparia riparia | Sand Martin | Probably bred at this location |

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| SE3808 | Bleachcroft Farm, Cudworth | 16/01/95 | Tadorna tadorna | Shelduck | |
| SE389069 | Rifle Range Farm, Low Cudworth | 21/02/13 | Alauda arvensis | Skylark | Singing over field to north-west of River Dearne. |
| SE400083 | Cudworth Common (N. end of former colliery tip) | 07/03/13 | Alauda arvensis | Skylark | 1 singing overhead, 1 on ground. |
| SE400085 | Cudworth Common (N. end of former colliery tip) | 07/03/13 | Alauda arvensis | Skylark | On ground. |
| SE400086 | Cudworth Common (N. end of former colliery tip) | 07/03/13 | Alauda arvensis | Skylark | On ground. |
| SE3809 | Cudworth | 27/08/98 | Alauda arvensis | Skylark | |
| SE3809 | Cudworth | 18/11/98 | Alauda arvensis | Skylark | |
| SE389069 | Rifle Range Farm, Low Cudworth | 04/03/13 | Alauda arvensis | Skylark | Singing over arable field. |
| SE394089 | Fields south-east of Belle Green, Cudworth | 07/03/13 | Alauda arvensis | Skylark | Singing. |
| SE397087 | Cudworth Common | 07/03/13 | Alauda arvensis | Skylark | On ground near track. |
| SE398085 | Cudworth Common (N. end of former colliery tip) | 07/03/13 | Alauda arvensis | Skylark | Near wet area on top of hill. |
| SE399086 | Cudworth Common (N. end of former colliery tip) | 07/03/13 | Alauda arvensis | Skylark | Singing. |
| SE399087 | Cudworth Common | 07/03/13 | Alauda arvensis | Skylark | On ground. |
| SE400083 | Cudworth Common (N. end of former colliery tip) | 07/03/13 | Gallinago gallinago | Snipe | Flushed from wet grassland. |
| SE386073 | Rifle Range Farm, Low Cudworth | 04/03/13 | Turdus philomelos | Song Thrush | In field (grass ley?) to west of TPT Cudworth Link. |
| SE3808 | Cudworth | 19/05/94 | Tringa erythropus | Spotted Redshank | Calling bird in full summer plumage flying over |
| SE3808 | Bleachcroft Farm, Cudworth | 29/05/94 | Sturnus vulgaris | Starling | Feeding on pasture |
| SE3808 | Bleachcroft Farm, Cudworth | 09/05/95 | Sturnus vulgaris | Starling | Breeding birds taking insects for their young |
| SE3808 | Bleachcroft Chimney | 01/01/91 | Columba oenas | Stock Dove | Successfully bred two broods |
| SE396082 | Fields off Tippit Lane, Cudworth | 07/03/13 | Columba oenas | Stock Dove | In field of winter wheat. |
| SE390069 | Rifle Range Farm, Low Cudworth | 21/02/13 | Columba oenas | Stock Dove | Approx 20 feeding on ground in arable field |
| SE390069 | Rifle Range Farm, Low Cudworth | 04/03/13 | Columba oenas | Stock Dove | In relict hedge between fields. |
| SE391070 | Rifle Range Farm, Low Cudworth | 04/03/13 | Columba oenas | Stock Dove | At least 20 in arable field |
| SE392072 | Rifle Range Farm, Low Cudworth | 04/03/13 | Columba oenas | Stock Dove | Approx 20 in ploughed field next to River Dearne. |
| SE3808 | Bleachcroft Farm, Cudworth | 01/01/00 | Columba oenas | Stock Dove | Breeding birds utilized a building at the farm |
| SE399087 | Wetland complex near Ferry Moor Lane, Cudworth Common | 07/03/13 | Anas crecca | Teal | |
| SE397083 | Cudworth Common (small wetland on NW edge of site) | 07/03/13 | Anas crecca | Teal | |

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| SE382068 | Lundwood Sewage Treatment Works | 21/02/13 | Anas crecca | Teal | In dike. |
| SE3808 | Bleachcroft | 16/06/95 | Anas crecca | Teal | |
| SE3808 | Bleachcroft Farm, Cudworth | 21/10/94 | Anas penelope | Wigeon | |
| SE398087 | Wetland complex near Ferry Moor Lane, Cudworth Common | 07/03/13 | Anas penelope | Wigeon | |
| SE3808 | Bleachcroft | 26/10/95 | Anas penelope | Wigeon | Male |
| SE3808 | Bleachcroft | 14/11/95 | Anas penelope | Wigeon | Male |
| SE3808 | Bleachcroft | 15/11/95 | Anas penelope | Wigeon | Male |
| SE3808 | Bleachcroft | 16/11/95 | Anas penelope | Wigeon | Male |
| SE39900865 | Ferry Moor wader scrape | 10/03/13 | Anas penelope | Wigeon | |
| SE394080 | 'BARNSLEY MBC' | 25/01/09 | Prunella modularis | Hedge Accentor | |
| SE380082 | 'BARNSLEY MBC' | 25/01/09 | Prunella modularis | Hedge Accentor | |
| SE380082 | 'BARNSLEY MBC' | 25/01/09 | Prunella modularis | Hedge Accentor | |
| SE394080 | 'BARNSLEY MBC' | 25/01/09 | Prunella modularis | Hedge Accentor | |
| SE375077 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Common Starling | |
| SE385088 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Common Starling | |
| SE377073 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Common Starling | |
| SE388085 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Common Starling | |
| SE391094 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Common Starling | |
| SE392082 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Common Starling | |
| SE380082 | 'BARNSLEY MBC' | 25/01/09 | Sturnus vulgaris | Common Starling | |
| [redacted] | [redacted] | 01/04/81 | Meles meles | Badger | sett;active |
| SE377081 | Station Road, Lonawoop! | 04/07/02 | Chiroptera | Bats | Roost of bats entering under fascia. |
| SE3809 | Carlton Marsh LWS | 25/04/82 | Arvicola terrestris | Water Vole | 1 |
| SE380094 | Carlton Marsh LWS | 20/09/08 | Arvicola terrestris | Water Vole | 1 |
| SE380094 | Carlton Marsh LWS | 16/05/08 | Arvicola terrestris | Water Vole | 1 |
| SE380094 | Carlton Marsh LWS | 13/03/08 | Arvicola terrestris | Water Vole | 1 |
| SE380094 | Carlton Marsh LWS | 06/03/09 | Arvicola terrestris | Water Vole | droppings |

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| SE380094 | Carlton Marsh LWS | 20/03/09 | Arvicola terrestris | Water Vole | 1 |
| SE3893007419 | 'BARNSLEY MBC' | 13/05/12 | Arvicola terrestris | Water Vole | Latrine |
| SE3898707707 | 'BARNSLEY MBC' | 13/05/12 | Arvicola terrestris | Water Vole | Latrine |
| SE380094 | Carlton Marsh LWS | 13/03/08 | Arvicola terrestris | Water Vole | Ditch |
| SE3897607783 | 'BARNSLEY MBC' | 13/05/12 | Arvicola terrestris | Water Vole | Burrow |
| SE3897007797 | 'BARNSLEY MBC' | 13/05/12 | Arvicola terrestris | Water Vole | Burrow |
| SE3912107153 | 'BARNSLEY MBC' | 12/05/12 | Arvicola terrestris | Water Vole | Burrow |
| SE380094 | Carlton Marsh LWS | 06/03/09 | Arvicola terrestris | Water Vole | Ditch - droppings |
| SE380094 | Carlton Marsh LWS | 20/03/09 | Arvicola terrestris | Water Vole | Ditch |
| SE3809 | Carlton Marsh LWS | 01/01/02 | Arvicola terrestris | Water Vole | |
| SE380094 | Carlton Marsh LWS | 01/03/09 | Arvicola terrestris | Water Vole | 1 |
| SE3893007419 | 'BARNSLEY MBC' | 13/05/12 | Arvicola terrestris | Water Vole | Burrow |
| SE3893107421 | 'BARNSLEY MBC' | 13/05/12 | Arvicola terrestris | Water Vole | Burrow |
| SE380094 | Carlton Marsh LWS | 16/05/08 | Arvicola terrestris | Water Vole | Ditch |
| SE380094 | Carlton Marsh LWS | 20/09/08 | Arvicola terrestris | Water Vole | Ditch |
| SE380094 | Carlton Marsh LWS | 01/03/09 | Arvicola terrestris | Water Vole | Ditch |
| SE3899207680 | 'BARNSLEY MBC' | 13/05/12 | Arvicola terrestris | Water Vole | Burrow |
| SE3898807706 | 'BARNSLEY MBC' | 13/05/12 | Arvicola terrestris | Water Vole | Burrow |
| SE3898407756 | 'BARNSLEY MBC' | 13/05/12 | Arvicola terrestris | Water Vole | Burrow |
| SE3903607223 | 'BARNSLEY MBC' | 12/05/12 | Arvicola terrestris | Water Vole | Burrow |
| SE3894007382 | 'BARNSLEY MBC' | 13/05/12 | Arvicola terrestris | Water Vole | Feeding pile |
| SE3903807224 | 'BARNSLEY MBC' | 12/05/12 | Arvicola terrestris | Water Vole | Feeding pile |

PLANNING DESIGN ENVIRONMENT



# 27. Carlton Marsh

## LWS Assessment and Phase 1 Survey

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Prepared by

**TEP**

for

| | |
|---|---|
| **Site Name:** | Carlton Marsh |
| **Site Area:** | 26.22ha |
| **Survey Date:** | August 2010 |
| **Nearest Settlement:** | Carlton, Cudworth |
| **Grid Reference at Centre:** | SE37901, 09709 |
| **Surveyor(s)** | VG, LAC |

## Site Description:

This site lies to the north-east of Barnsley centre between Carlton, in the west, and Cudworth to the south-east. The western site boundary is marked by a mineral line and the eastern by the course of Cudworth Dike. The remains of other disused railway lines cross through the site, on embankments through this low-lying area.

This area, until disrupted by the rail embankments, forms a shallow valley at around 50m above sea-level. The route of the disused rail embankment running through the centre of the site has been largely restored for nature conservation, but it does split the site longitudinally. To the west, the site is mainly dry and dominated by neutral grassland (TN1, TN3, TN6). There are areas of broadleaved plantation here too (TN2), associated with development of the site as a nature reserve. Scattered scrub and tree growth occurs as well as some developed scrub and woodland patches with much silver birch (*Betula pendula*). Also in the west half of the site are some small waterbodies (TN14) linked by a ditch (TN12) and tall ruderal is also present.

The eastern side of the site is much wetter with extensive swamp and standing water. A very large pond is present in the north of the site with extensive swamp vegetation (TN15) to the south of it. There is also swamp habitat in the southern extremity of the site (TN11). Neutral grassland habitat is also extensive on this eastern side of the site (TN7, TN16) as well as marshy grassland (TN4, TN10). As in the west, these eastern grasslands and also the swampy area have scattered scrub and tree regeneration occurring. There is dense scrub development and some established woodland along the course of Cudworth Dike and on the former rail bank (TN8, TN9) with a ditch and hedgerow habitat in the north-eastern corner of the site.

None of the woodland on site is on the register of ancient woodlands. Overall this

narrow site provides a very diverse range of habitats within an urban fringe setting. It was designated as a Local Nature Reserve by BMBC in 1980.

**Important Species:**

Water vole (*Arvicola terrestris*) has been recorded on this site in 2009/2010 and is thought to have been present since at least 2003.

The site is important for a number of bird species and in particular wintering bittern *(Botaurus stellaris),* a schedule 1 species and UKBAP species. Other UKBAP species include grey partridge *(Perdix perdix),* yellowhammer *(Emberiza citronella),* reed bunting *(Emberiza schoeniclus),* grasshopper warbler *(Locustella naevia),* willow tit *(Poecile montanus),* dunnock *(Prunella modularis),* bullfinch *(Pyrrhula pyrrhula)* and song thrush *(Turdus philomelos).*

Ancient woodland indicator plant species for South Yorkshire that were noted here during 2010 fieldwork include remote sedge (*Carex remota*), wood horsetail (*Equisetum sylvaticum*), yellow archangel (*Lamiastrum galeobdolon*), wood melick (*Melica uniflora*), dog's mercury (*Mercurialis perennis*) and sessile oak (*Quercus petraea*).

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| **Target Note:** | TN1 |
| **Habitat:** | Modified neutral grassland |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Festuca rubra* | Red Fescue | D |
| *Arrhenatherum elatius* | False Oat-grass | A |
| *Dactylis glomerata* | Cock's-foot | F |
| *Lotus corniculatus* | Bird's-foot Trefoil | F |
| *Sanguisorba minor* | Salad Burnet | F |

| | | |
|---|---|---|
| *Betula pendula* | Silver Birch | O |
| *Quercus robur* | English Oak | O |
| *Salix species* | Willow species | O |
| *Cirsium arvense* | Creeping Thistle | O |
| *Agrostis stolonifera* | Creeping Bent | O |
| *Centaurea nigra* | Knapweed | O |
| *Vicia cracca* | Tufted Vetch | O |
| *Plantago lanceolata* | Ribwort Plantain | O |
| *Cerastium fontanum* | Common Mouse-ear | O |
| *Trifolium pratense* | Red Clover | O |
| *Medicago lupulina* | Black Medick | O |
| *Galium verum* | Lady's Bedstraw | O |
| *Lathyrus pratensis* | Meadow Vetchling | O |
| *Centaurea scabiosa* | Greater Knapweed | O |
| *Phleum pratense* | Timothy | O |
| *Taraxacum officinale agg.* | Dandelion | O |
| *Ranunculus acris* | Meadow Buttercup | O |
| *Holcus lanatus* | Yorkshire-fog | O |
| *Trifolium repens* | White Clover | O |
| *Ranunculus repens* | Creeping Buttercup | O |
| *Linaria vulgaris* | Common Toadflax | R |
| *Hypericum perforatum* | Perforate St John's-wort | R |
| *Silene vulgaris* | Bladder Campion | R |
| *Trifolium medium* | Zigzag Clover | R |
| *Heracleum sphondylium* | Hogweed | R |
| *Achillea millefolium* | Yarrow | R |
| *Anthriscus sylvestris* | Cow Parsley | R |
| *Daucus carota* | Wild Carrot | R |
| *Senecio erucifolius* | Hoary Ragwort | R |
| *Deschampsia cespitosa* | Tufted Hair-grass | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

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|---|---|
| **Target Note:** | TN2 |
| **Habitat:** | Broadleaved plantation |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Populus x canescens* | Grey Poplar | A |
| *Crataegus monogyna* | Hawthorn | A |
| *Populus nigra italica* | Lombardy Poplar | F |
| *Sorbus aucuparia* | Rowan | F |
| *Corylus avellana* | Hazel | F |
| *Acer platanoides* | Norway Maple | F |
| *Betula pendula* | Silver Birch | F |
| *Prunus avium* | Wild Cherry | F |
| *Fagus sylvatica* | Beech | O |
| *Acer pseudoplatanus* | Sycamore | O |
| *Salix caprea* | Goat Willow | O |
| *Quercus robur* | English Oak | O |
| *Acer campestre* | Field Maple | O |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

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|---|---|
| **Target Note:** | TN3 |
| **Habitat:** | Modified neutral grassland, tall ruderal herb |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Chamerion angustifolium* | Rosebay Willowherb | F |
| *Tanacetum vulgare* | Tansy | F |
| *Bromus hordeaceus* | Soft Brome | O |
| *Odontites verna* | Red Bartsia | O |
| *Potentilla reptans* | Creeping Cinquefoil | O |
| *Knautia arvensis* | Field Scabious | O |
| *Hieracium sp.* | Hawkweed species | O |
| *Tragopogon pratensis* | Goat's-beard | R |
| *Teucrium scorodonium* | Woodsage | R |
| *Campanula rotundifolia* | Harebell | R |
| *Origanum vulgare* | Marjoram | R |
| *Linaria repens* | Pale Toadflax | R |
| *Reseda luteola* | Weld | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

| | |
|---|---|
| **Target Note:** | TN4 |
| **Habitat:** | Modified neutral grassland |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Phalaris arundinacea* | Reed Canary-grass | A |
| *Cirsium arvense* | Creeping Thistle | F |
| *Urtica dioica* | Nettle | F |
| *Dactylis glomerata* | Cock's-foot | F |
| *Rubus fruticosus agg.* | Bramble | F |
| *Epilobium hirsutum* | Great Willowherb | F |
| *Deschampsia flexuosa* | Wavy Hair-grass | F |
| *Heracleum sphondylium* | Hogweed | O |
| *Festuca rubra* | Red Fescue | O |
| *Galium aparine* | Cleavers | O |

| | | |
|---|---|---|
| *Impatiens glandulifera* | Himalayan Balsam | O |
| *Dipsacus fullonum* | Teasel | R |
| *Equisetum arvense* | Field Horsetail | R |
| *Angelica sylvestris* | Wild Angelica | R |
| *Lathyrus pratensis* | Meadow Vetchling | R |
| *Rumex sanguineus* | Wood Dock | R |
| *Stachys sylvatica* | Hedge Woundwort | R |
| *Lotus pedunculatus* | Marsh Bird's-foot Trefoil | R |
| *Juncus inflexus* | Hard Rush | R |

**D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare** (within the target note area).

| | |
|---|---|
| **Target Note:** | TN5 |
| **Habitat:** | Swamp, scattered trees along ditchline |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Epilobium hirsutum* | Great Willowherb | A |
| *Alnus glutinosa* | Alder | F |
| *Urtica dioica* | Nettle | F |
| *Salix fragilis* | Crack Willow | O |
| *Callitriche sp.* | Water Starwort species | O |
| *Lythrum salicaria* | Purple Loosestrife | O |
| ***Impatiens glandulifera*** | **Himalayan Balsam** | **O** |
| *Salix alba* | White Willow | O |

**D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare** (within the target note area).

| | |
|---|---|
| **Target Note:** | TN6 |
| **Habitat:** | Modified neutral grassland |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Festuca rubra* | Red Fescue | A |
| *Arrhenatherum elatius* | False Oat-grass | A |
| *Vicia cracca* | Tufted Vetch | F |
| *Rumex acetosa* | Common Sorrel | F |
| *Senecio erucifolius* | Hoary Ragwort | F |
| *Plantago lanceolata* | Ribwort Plantain | F |
| *Sanguisorba minor* | Salad Burnet | F |
| *Trifolium pratense* | Red Clover | F |
| *Lotus corniculatus* | Bird's-foot Trefoil | F |
| *Centaurium erythraea* | Common Centaury | O |
| *Phragmites australis* | Reed | O |
| *Achillea millefolium* | Yarrow | O |
| *Centaurea nigra* | Knapweed | O |
| *Phleum pratense* | Timothy | O |
| *Heracleum sphondylium* | Hogweed | O |
| *Prunella vulgaris* | Selfheal | O |
| *Lathyrus pratensis* | Meadow Vetchling | O |
| *Trifolium repens* | White Clover | O |
| *Equisetum arvense* | Field Horsetail | O |
| *Agrostis stolonifera* | Creeping Bent | O |
| *Poa pratensis* | Smooth Meadow-grass | O |
| *Convolvulus arvensis* | Field Bindweed | O |
| *Tussilago farfara* | Colt's-foot | O |
| *Primula veris* | Cowslip | O |
| *Holcus lanatus* | Yorkshire-fog | O |
| *Cerastium fontanum* | Common Mouse-ear | O |
| *Betula pendula* | Silver Birch | O |

| | | |
|---|---|---|
| *Hypochaeris radicata* | Common Cat's-ear | O |
| *Crataegus monogyna* | Hawthorn | O |
| *Potentilla reptans* | Creeping Cinquefoil | O |
| *Taraxacum officinale agg.* | Dandelion | O |
| *Cirsium arvense* | Creeping Thistle | O |
| *Deschampsia cespitosa* | Tufted Hair-grass | O |
| *Hypericum perforatum* | Perforate St John's-wort | O |
| *Dactylis glomerata* | Cock's-foot | O |
| *Ranunculus acris* | Meadow Buttercup | O |
| *Melilotus albus* | White Melilot | O |
| *Trifolium medium* | Zigzag Clover | O |
| *Elytrigia repens* | Common Couch | R |
| *Centaurea scabiosa* | Greater Knapweed | R |
| *Rosa arvensis* | Field Rose | R |
| *Linum catharticum* | Purging Flax | R |
| *Daucus carota* | Wild Carrot | R |
| *Rubus fruticosus agg.* | Bramble | R |
| *Ulex europaeus* | Gorse | R |
| *Artemisia vulgaris* | Mugwort | R |
| *Leucanthemum vulgare* | Oxeye daisy | R |
| *Medicago lupulina* | Black Medick | R |
| *Cytisus scoparius* | Broom | R |
| *Vicia tetrasperma* | Smooth Tare | R |
| *Linaria vulgaris* | Common Toadflax | R |
| *Quercus sp.* | Oak species | R |
| *Cynosurus cristatus* | Crested Dog's-tail | R |
| *Odontites verna* | Red Bartsia | R |
| *Pulicaria dysenterica* | Fleabane | R |
| *Silene vulgaris* | Bladder Campion | R |
| *Cirsium vulgare* | Spear Thistle | R |
| *Anthriscus sylvestris* | Cow Parsley | R |

| | | |
|---|---|---|
| *Dactylorhiza sp.* | Marsh-orchid | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

| | |
|---|---|
| **Target Note:** | TN7 |
| **Habitat:** | Semi-improved neutral grassland |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Holcus lanatus* | Yorkshire-fog | A |
| *Agrostis stolonifera* | Creeping Bent | A |
| *Arrhenatherum elatius* | False Oat-grass | F |
| *Festuca rubra* | Red Fescue | F |
| *Angelica sylvestris* | Wild Angelica | F |
| *Ranunculus repens* | Creeping Buttercup | F |
| *Persicaria maculosa* | Redshank | O |
| *Galeopsis sp.* | Hemp-nettle species | O |
| *Rumex crispus* | Curled Dock | O |
| *Poa trivialis* | Rough Meadow-grass | O |
| *Rumex obtusifolius* | Broad-leaved Dock | O |
| *Deschampsia cespitosa* | Tufted Hair-grass | O |
| *Anthoxanthum odoratum* | Sweet Vernal-grass | O |
| *Lotus corniculatus* | Bird's-foot Trefoil | O |
| *Equisetum arvense* | Field Horsetail | O |
| *Plantago lanceolata* | Ribwort Plantain | O |
| *Trifolium repens* | White Clover | O |
| *Lathyrus pratensis* | Meadow Vetchling | O |
| *Agrostis capillaris* | Common Bent | O |
| *Centaurea nigra* | Knapweed | O |
| *Senecio erucifolius* | Hoary Ragwort | O |
| *Heracleum sphondylium* | Hogweed | R |
| *Betula pendula* | Silver Birch | D |

| | | |
|---|---|---|
| *Acer pseudoplatanus* | Sycamore | F |
| *Glechoma hederacea* | Ground-ivy | O |
| *Rubus fruticosus agg.* | Bramble | O |
| *Corylus avellana* | Hazel | O |
| *Sorbus aucuparia* | Rowan | O |
| *Sambucus nigra* | Elder | O |
| *Crataegus monogyna* | Hawthorn | O |
| *Prunus spinosa* | Blackthorn | O |
| *Stachys sylvatica* | Hedge Woundwort | O |
| *Populus tremula* | Aspen | O |
| *Urtica dioica* | Nettle | O |
| *Dryopteris dilatata* | Broad Buckler-fern | R |
| *Quercus robur* | English Oak | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

| | |
|---|---|
| **Target Note:** | TN9 |
| **Habitat:** | Semi-improved broadleaved woodland |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Rubus fruticosus agg.* | Bramble | D |
| *Alnus glutinosa* | Alder | A |
| *Hedera helix* | Ivy | F |
| *Alliaria petiolata* | Garlic Mustard | F |
| *Urtica dioica* | Nettle | F |
| ***Mercurialis perennis*** | **Dog's Mercury** | **F** |
| ***Quercus petraea*** | **Sessile Oak** | **F** |
| *Quercus robur* | English Oak | F |
| *Sorbus aria* | Whitebeam | O |
| *Sorbus aucuparia* | Rowan | O |
| *Betula pendula* | Silver Birch | O |

| | | |
|---|---|---|
| *Acer pseudoplatanus* | Sycamore | O |
| *Sambucus nigra* | Elder | O |
| *Prunus avium* | Wild Cherry | O |
| *Equisetum arvense* | Field Horsetail | O |
| *Fraxinus excelsior* | Ash | O |
| *Heracleum sphondylium* | Hogweed | O |
| *Dryopteris filix-mas* | Male-fern | O |
| ***Lamiastrum galeobdolon*** | **Yellow Archangel** | **O** |
| *Salix caprea* | Goat Willow | O |
| *Salix fragilis* | Crack Willow | O |
| *Alnus incana* | Grey Alder | O |
| *Crataegus monogyna* | Hawthorn | O |
| *Cornus sanguinea* | Dogwood | R |
| *Stachys sylvatica* | Hedge Woundwort | R |
| *Deschampsia cespitosa* | Tufted Hair-grass | R |
| *Malus domestica* | Apple | R |
| *Tamus communis* | Black Bryony | R |
| *Valeriana officinalis* | Valerian | R |
| *Geum urbanum* | Wood Avens | R |
| ***Melica uniflora*** | **Wood Melick** | **R** |
| *Teucrium scorodonium* | Woodsage | R |
| *Corylus avellana* | Hazel | R |
| *Verbascum blattaria* | Moth Mullein | R |
| *Primula veris* | Cowslip | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

| | |
|---|---|
| **Target Note:** | TN10 |
| **Habitat:** | Marshy grassland, scattered scrub |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Alopecurus geniculatus* | Marsh Foxtail | D |
| *Agrostis stolonifera* | Creeping Bent | A |
| *Juncus articulatus* | Jointed Rush | F |
| *Ranunculus repens* | Creeping Buttercup | F |
| *Juncus effusus* | Soft Rush | F |
| *Poa trivialis* | Rough Meadow-grass | F |
| *Glyceria fluitans* | Floating Sweet-grass | O |
| *Juncus inflexus* | Hard Rush | O |
| *Bidens tripartita* | Trifid Bur-marigold | O |
| *Ranunculus flammula* | Lesser Spearwort | O |
| *Ranunculus sceleratus* | Celery-leaved Buttercup | R |
| *Dipsacus fullonum* | Teasel | R |
| *Dactylorhiza sp.* | Marsh-orchid | R |
| *Deschampsia cespitosa* | Tufted Hair-grass | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

| | |
|---|---|
| **Target Note:** | TN11 |
| **Habitat:** | Swamp, scattered scrub |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Typha latifolia* | Greater Reedmace | A |
| *Sparganium erectum* | Branched Bur-reed | A |
| *Phalaris arundinacea* | Reed Canary-grass | F |
| *Filipendula ulmaria* | Meadowsweet | O |
| *Lycopus europaeus* | Gypsywort | O |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

| | |
|---|---|
| **Target Note:** | TN12 |

| | |
|---|---|
| **Habitat:** | Swamp, ditchline |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Epilobium hirsutum* | Great Willowherb | D |
| *Juncus inflexus* | Hard Rush | F |
| *Phalaris arundinacea* | Reed Canary-grass | F |
| *Equisetum telmateia* | Great Horsetail | O |
| *Moss sp.* | Moss species | O |
| *Urtica dioica* | Nettle | O |
| *Juncus effusus* | Soft Rush | O |
| *Rubus fruticosus agg.* | Bramble | O |
| *Solanum dulcamara* | Bittersweet | O |
| *Epilobium palustre* | Marsh Willowherb | O |
| ***Carex remota*** | **Remote Sedge** | **O** |
| *Typha latifolia* | Greater Reedmace | O |
| *Rumex acetosa* | Common Sorrel | O |
| *Galium aparine* | Cleavers | O |
| *Lycopus europaeus* | Gypsywort | O |
| *Galium palustre* | Marsh Bedstraw | O |
| *Angelica sylvestris* | Wild Angelica | O |
| *Dryopteris filix-mas* | Male-fern | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

| | |
|---|---|
| **Target Note:** | TN13 |
| **Habitat:** | Species-poor hedge with trees |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|

| | | |
|---|---|---|
| *Rubus fruticosus agg.* | Bramble | D |
| *Crataegus monogyna* | Hawthorn | D |
| *Fraxinus excelsior* | Ash | F |
| *Sambucus nigra* | Elder | O |
| *Sorbus aucuparia* | Rowan | O |
| *Salix caprea* | Goat Willow | O |
| *Prunus domestica* | Plum | O |
| *Rosa canina agg.* | Dog Rose | R |
| *Alliaria petiolata* | Garlic Mustard | R |
| *Solanum dulcamara* | Bittersweet | R |
| ***Equisetum sylvaticum*** | **Wood Horsetail** | **R** |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

| | |
|---|---|
| **Target Note:** | TN14 |
| **Habitat:** | Standing water, marshy grassland |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Juncus inflexus* | Hard Rush | F |
| *Juncus effusus* | Soft Rush | F |
| *Agrostis stolonifera* | Creeping Bent | F |
| *Lythrum salicaria* | Purple Loosestrife | F |
| *Eleocharis palustris* | Common Spike-rush | F |
| *Moss sp.* | Moss species | O |
| *Carex otrubae* | False Fox-sedge | O |
| *Hypochaeris radicata* | Common Cat's-ear | O |
| *Alopecurus geniculatus* | Marsh Foxtail | O |
| *Tripleurospermum inodorum* | Scentless Mayweed | O |

| | | |
|---|---|---|
| *Juncus articulatus* | Jointed Rush | O |
| *Potamogeton sp.* | Pondweed species | O |
| *Equisetum arvense* | Field Horsetail | O |
| *Salix cinerea ssp. cinerea* | Grey Willow | O |
| *Alisma plantago-aquatilis* | Water-plantain | O |
| *Iris pseudacorus* | Yellow Flag Iris | O |
| *Juncus conglomeratus* | Compact Rush | R |
| *Ranunculus flammula* | Lesser Spearwort | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

| | |
|---|---|
| **Target Note:** | TN15 |
| **Habitat:** | Swamp, scattered scrub and trees |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Phragmites australis* | Reed | D |
| *Phalaris arundinacea* | Reed Canary-grass | A |
| *Deschampsia cespitosa* | Tufted Hair-grass | O |
| *Angelica sylvestris* | Wild Angelica | O |
| *Salix cinerea ssp. cinerea* | Grey Willow | O |
| *Salix fragilis* | Crack Willow | O |
| *Salix viminalis* | Osier | O |
| *Filipendula ulmaria* | Meadowsweet | O |
| *Lythrum salicaria* | Purple Loosestrife | O |
| *Typha latifolia* | Greater Reedmace | O |
| *Solanum dulcamara* | Bittersweet | O |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

| | |
|---|---|
| **Target Note:** | TN16 |
| **Habitat:** | Modified neutral grassland |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Arrhenatherum elatius* | False Oat-grass | D |
| *Cirsium arvense* | Creeping Thistle | F |
| *Centaurea nigra* | Knapweed | F |
| *Holcus lanatus* | Yorkshire-fog | F |
| *Hypochaeris radicata* | Common Cat's-ear | F |
| *Ranunculus acris* | Meadow Buttercup | O |
| *Chamerion angustifolium* | Rosebay Willowherb | O |
| *Heracleum sphondylium* | Hogweed | O |
| *Crataegus monogyna* | Hawthorn | O |
| *Rumex acetosa* | Common Sorrel | O |
| *Dactylis glomerata* | Cock's-foot | O |
| *Senecio jacobaea* | Ragwort | O |
| *Filipendula ulmaria* | Meadowsweet | O |
| *Rubus fruticosus agg.* | Bramble | O |
| *Angelica sylvestris* | Wild Angelica | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare

**Management Issues:**

An ecological site management plan has been put into effect by Barnsley Council and has included past excavation and enlargement of ponds as well as creation of meadow habitats and plantations. The majority of the site is managed mainly as a bird reserve and popular with local bird watchers. Recent management (2009) has included cleaning up of oil from Cudworth Dike and this is an ongoing occasional problem due to the nearby scrap-yards.

The neutral grasslands are generally quite species-rich, but over much of the area there is scattered scrub and tree growth. If left unmanaged, this scrub will extend potentially valuable bird breeding habitat, but at the cost of diminishing the grassland area and value.

Some stands of Himalayan balsam (*Impatiens glandulifera*) were noted in the north of site.

**Diversity:**

During the course of the 2010 fieldwork 157 species of plants were recorded. This site is also known to have a rich bird fauna as well as a diversity of invertebrates.

In addition to its species-diversity, the site possesses great structural diversity, with habitats ranging from woodland to dry grasslands, damp grasslands to waterbodies and large areas of swamp.

**Naturalness:**

Although this site has been much affected by railway construction in the nineteenth Century, there has been managed habitat creation more recently. Conditions have been created for large numbers of plant and animal species to colonise naturally and thrive in this publically accessible nature reserve.

Natural processes of plant succession can be observed on site and the bulk of the species present are native plants. A natural watercourse forms the eastern boundary, though in the west the natural drainage pattern has been disrupted by the former railway construction.

Five of the plants recorded in 2010 are on the list of indicator species for ancient woodlands in the South Yorkshire area.

**Rare or Exceptional Features:**

The main asset of this site is its mosaic of wetland sites, grasslands and scrub/woodland habitats. Plants of importance in the Barnsley context, recorded in previous surveys, include Adder's tongue (*Ophioglossum vulgatum*) and Hare's tail cotton-grass (*Eriophorum vaginatum*). Both the bird and the invertebrate fauns are also ecologically significant.

**Fragility:**

The diverse eastern side of the site in particular is susceptible to water-borne contamination. This occurred for some time prior to 2009, when debris and oil affected Cudworth Dike, downstream from the Boulder Bridge Lane industrial estate. By April 2009 the pollution incidents had intensified and Environment Agency contractors put out floating booms to absorb oil and collected as much debris as possible.

The reserve is also accessible by road and therefore affected by fly-tipping. The site is bordered by industrial land, post-industrial land and agricultural land; from any of which potentially damaging pollution could originate.

The range of habitats is quite dynamic, but given that pollution can be kept at bay, the site should long support a diverse array of habitats.

**Typicalness:**

The site is ecologically rich and stands out as unusual in this past industrial area. It has an atypically diverse mix of typical grassland, woodland, swamp and aquatic communities.

**Recorded History & Cultural Associations:**

Details of the complex network of railways constructed in and around this site would be interesting to research. One mineral line, down the western side of the site, still appears to be operational, linking to the large industrial complex at West Green. This site is located in an area with a noted long history in metal and coal mining.

Just to the south of the site Bleach Croft Farm is possibly a significant name, indicating local involvement in the textile industry.

**Connectivity within the Landscape:**

Development of scrub and tree growth along the routes of disused railway lines and watercourses all around and through the site gives strong ecological connectivity. Strong links are formed with both the neighbouring countryside and the urban fringe sites and habitats.

## Value for appreciation of Nature and Learning:

This site is a valued reserve, especially for local bird watchers and it is managed to conserve and enhance its natural diversity. There is a small car park off Shaw Lane to the north, so it is accessible by road as well as by footpath.

A branch of the Trans-Pennine Trail runs along the western side of the mineral line down the western side of the site, linking to the Dearne Way in the south. There is a public footpath crossing the southern part of the site from east to west, linking into the Trans Pennine Trail and a series of informal paths along the complex of disused railway embankments.

## Recommendations:

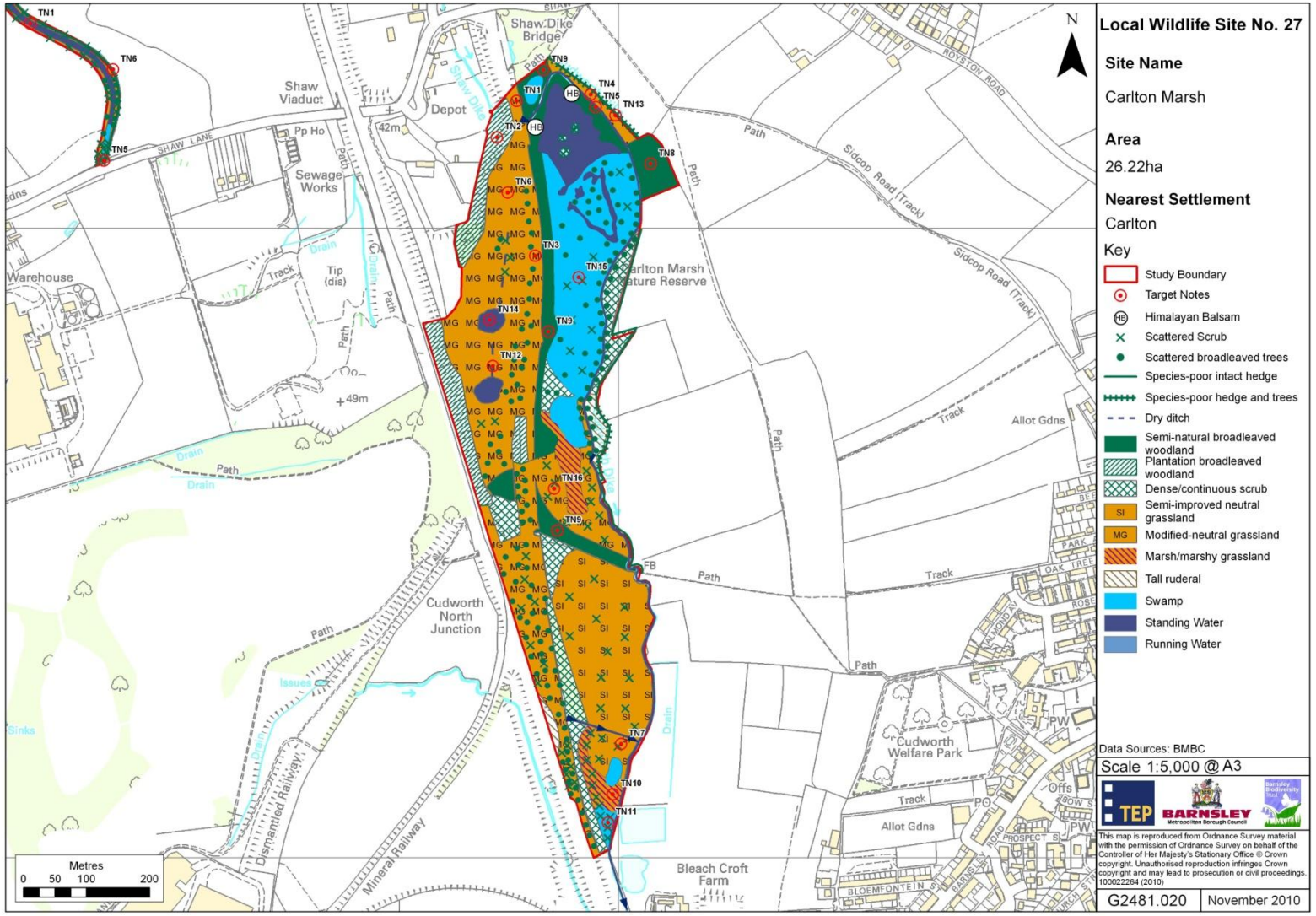
This site is clearly an important element within Barnsley's biodiversity resource, in terms of it floral (157 species recorded in 2010) and faunal interest. The added presence of water vole means that this site satisfies the site selection criteria.

In addition to this, the continued use and recent investment in the site illustrates its value to the surrounding communities. The site is well linked to the wider habitat network by the adjacent railway corridor. Carlton Marsh should be retained as a Local Wildlife Site.

**Action:**

Retain as a Local Wildlife Site

Continue management of the site


Local Wildlife Site No. 27
Site Name
Carlton Marsh
Area
26.22ha
Nearest Settlement
Carlton
Key
Study Boundary
Target Notes
Himalayan Balsam
Scattered Scrub
Scattered broadleaved trees
Species-poor intact hedge
Species-poor hedge and trees
Dry ditch
Semi-natural broadleaved woodland
Plantation broadleaved woodland
Dense/continuous scrub
Semi-improved neutral grassland
Modified-neutral grassland
Marsh/marshy grassland
Tall ruderal
Swamp
Standing Water
Running Water
N
Shaw Dike Bridge
Shaw Viaduct
Depot
Sewage Works
Warehouse
Tip (dis)
Carlton Marsh Nature Reserve
Cudworth North Junction
Cudworth Welfare Park
Bleach Croft Farm
Dismantled Railway
Mineral Railway
Sidcop Road (Track)
Allot Gdns
Track
Path
Drain
Metres
0 50 100 200
Data Sources: BMBC
Scale 1:5,000 @ A3
TEP
BARNSLEY
Metropolitan Borough Council
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PLANNING DESIGN ENVIRONMENT



# 31. Sunny Bank, Horse Carr and Storrs Wood

## LWS Assessment and Phase 1 Survey

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Prepared by

**TEP**

for

**Barnsley Metropolitan Borough Council**

| | |
|---|---|
| **Site Name:** | Sunny Bank, Horse Carr and Storrs Wood |
| **Site Area:** | 22.7ha |
| **Survey Date:** | September 2010 |
| **Nearest Settlement:** | Ardsley, Cudworth and Lundwood |
| **Grid Reference at Centre:** | SE40279, 06835 |
| **Surveyor(s)** | LAC, VG |

## Site Description:

The Sunny Bank, Horse Carr and Storrs Wood site comprises five separate areas of broadleaved semi-natural woodland which are connected through tree lined fields, tracks and disused railways. The areas of woodland lie in an agricultural landscape, close to the eastern edge of Barnsley with residential developments north, west and south of the site and industrial developments northeast of the site.

All five areas are on the register of ancient woodland sites. Sunny Bank Wood is separated by the Dearne Valley Way into two areas (TN3, TN4). The west area of Sunny Bank Wood (TN3) is dominated by English oak (*Quercus robur*) [redacted]. Silver birch *(Betula pendula)* and sessile oak (*Quercus petraea*) are abundant in the east portion of Sunny Bank Wood (TN4). Bluebell (*Hyacinthoides non-scripta*) is present throughout the wood and there are three stands of Himalayan balsam *(Impatiens glandulifera).*

Horse Carr Wood is also separated into two areas of woodland. English oak is abundant in the canopy in the northern section (TN2), with sycamore (*Acer pseudoplatanus)* and silver birch *(Betula pendula)* both frequent as would be expected in a typical W16 woodland community. This wood becomes more open to the west, with sycamore occurring less frequently. As the canopy thins here, there are areas of unimproved neutral grassland where creeping soft grass *(Holcus mollis)* is abundant. The southern section of Horse Carr Wood is typical of W10 woodland community and bluebells are present throughout.

Storrs Wood (TN6) is the largest and most easterly area of the woodland blocks within the site, incorporating Hollins Wood at its western end. This is mainly of W10 type, apart from in the northeast, where W16 community prevails. The northern site boundary borders a dismantled railway and rock exposures run through the wood from west to east, along the sides of an old railway cutting. The River Dearne forms part of the northern edge of this woodland. There is a stand of Himalayan balsam along the old cutting and four more stands of Himalayan balsam in the north-eastern part of the woodland.

## Important Species:

Wood millet (*Milium effusum*), yellow archangel (*Lamiastrum galeobdolon*), wood sorrel (*Oxalis acetosella*), bluebell (*Hyacinthoides non-scripta*), dog's mercury

(*Mercurialis perennis*), great Wood rush (*Luzula sylvatica*) and greater stitchwort (*Stellaria holostea*) are all ancient woodland indicator species in South Yorkshire.

This site also contains Japanese knotweed (*Fallopia japonica*) as well as the Himalayan balsam

Kingfisher *(Alcedo atthis)* is a Schedule 1 species which breeds on the River Dearne at these sites and otter *(Lutra lutra),* a UKBAP species, pass along the river exploring new territories. UKBAP breeding birds include dunnock *(Prunella modularis),* bullfinch *(Pyrrhula pyrrhula)* and song thrush *(Turdus philomelos).*

| **Target Note:** | TN1 |
|---|---|
| **Habitat:** | Semi-natural broadleaved woodland |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Holcus mollis* | Creeping Soft-grass | A |
| *Pteridium aquilinum* | Bracken | A |
| *Quercus robur* | English Oak | A |
| *Rubus fruticosus agg.* | Bramble | A |
| *Acer pseudoplatanus* | Sycamore | F |
| *Betula pendula* | Silver Birch | F |
| *Deschampsia flexuosa* | Wavy Hair-grass | F |
| ***Milium effusum*** | **Wood Millet** | **F** |
| *Sambucus nigra* | Elder | F |
| *Chamerion angustifolium* | Rosebay Willowherb | O |
| *Crataegus monogyna* | Hawthorn | O |
| ***Hyacinthoides non-scripta*** | **Bluebell** | **O** |
| ***Quercus petraea*** | **Sessile Oak** | **O** |
| *Stachys sylvatica* | Hedge Woundwort | O |
| *Stellaria media* | Chickweed | O |
| *Urtica dioica* | Nettle | O |
| *Agrostis capillaris* | Common Bent | R |
| *Corylus avellana* | Hazel | R |
| *Dactylis glomerata* | Cock's-foot | R |

| | | |
|---|---|---|
| *Digitalis purpurea* | Foxglove | R |
| *Dryopteris dilatata* | Broad Buckler-fern | R |
| ***Fallopia japonica*** | **Japanese knotweed** | **R** |
| *Fraxinus excelsior* | Ash | R |
| *Galeopsis tetrahit* | Common Hemp-nettle | R |
| ***Luzula sylvatica*** | **Great Woodrush** | **R** |
| ***Oxalis acetosella*** | **Wood Sorrel** | **R** |
| *Rosa canina agg.* | Dog Rose | R |
| *Salix caprea* | Goat Willow | R |
| *Sorbus aucuparia* | Rowan | R |
| *Teucrium scorodonium* | Woodsage | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare.

| | |
|---|---|
| **Target Note:** | TN2 |
| **Habitat:** | Semi-natural broadleaved woodland |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Quercus robur* | English Oak | D |
| *Holcus mollis* | Creeping Soft-grass | A |
| *Pteridium aquilinum* | Bracken | A |
| ***Hyacinthoides non-scripta*** | **Bluebell** | **F** |
| *Ilex aquifolium* | Holly | F |
| *Betula pendula* | Silver Birch | O |
| *Hedera helix* | Ivy | O |
| ***Quercus petraea*** | **Sessile Oak** | **O** |
| *Rubus fruticosus agg.* | Bramble | O |
| *Sambucus nigra* | Elder | O |
| *Sorbus aucuparia* | Rowan | O |

| | | |
|---|---|---|
| *Urtica dioica* | Nettle | O |
| *Crataegus monogyna* | Hawthorn | R |
| *Digitalis purpurea* | Foxglove | R |
| *Sorbus intermedia* | Swedish Whitebeam | R |
| *Ulmus glabra* | Wych Elm | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare.

| | |
|---|---|
| **Target Note:** | TN3 |
| **Habitat:** | Semi-natural broadleaved woodland – two parcels of woodland with a similar mix of species. |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Betula pendula* | Silver Birch | A |
| ***Quercus petraea*** | **Sessile Oak** | **A** |
| *Deschampsia flexuosa* | Wavy Hair-grass | F |
| *Holcus mollis* | Creeping Soft-grass | F |
| *Pteridium aquilinum* | Bracken | F |
| *Quercus robur* | English Oak | F |
| *Rubus fruticosus agg.* | Bramble | F |
| *Urtica dioica* | Nettle | F |
| *Acer pseudoplatanus* | Sycamore | O |
| *Agrostis capillaris* | Common Bent | O |
| *Anthriscus sylvestris* | Cow Parsley | O |
| *Crataegus monogyna* | Hawthorn | O |
| *Digitalis purpurea* | Foxglove | O |
| *Hedera helix* | Ivy | O |
| *Heracleum sphondylium* | Hogweed | O |
| ***Hyacinthoides non-scripta*** | **Bluebell** | **O** |
| *Ilex aquifolium* | Holly | O |
| ***Mercurialis perennis*** | **Dog's Mercury** | **O** |

| | | |
|---|---|---|
| *Sambucus nigra* | Elder | O |
| *Chamerion angustifolium* | Rosebay Willowherb | R |
| *Juncus effusus* | Soft Rush | R |
| *Luzula sp.* | Woodrush species | R |
| ***Milium effusum*** | **Wood Millet** | **R** |
| *Sorbus aucuparia* | Rowan | R |
| *Ulmus glabra* | Wych Elm | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare.

| | |
|---|---|
| **Target Note:** | TN4 |
| **Habitat:** | Semi-natural broadleaved woodland |

**Species List:**

| Scientific Name | Common Name | Frequency |
|---|---|---|
| *Betula pendula* | Silver Birch | A |
| *Quercus robur* | English Oak | A |
| *Agrostis capillaris* | Common Bent | F |
| *Deschampsia flexuosa* | Wavy Hair-grass | F |
| *Holcus mollis* | Creeping Soft-grass | F |
| *Pteridium aquilinum* | Bracken | F |
| ***Quercus petraea*** | **Sessile Oak** | **F** |
| *Rubus fruticosus agg.* | Bramble | F |
| *Crataegus monogyna* | Hawthorn | O |
| *Dryopteris dilatata* | Broad Buckler-fern | O |
| *Dryopteris filix-mas* | Male-fern | O |
| *Epilobium montanum* | Broad-leaved Willowherb | O |
| *Fraxinus excelsior* | Ash | O |
| *Galeopsis tetrahit* | Common Hemp-nettle | O |
| *Hedera helix* | Ivy | O |

| | | |
|---|---|---|
| ***Hyacinthoides non-scripta*** | **Bluebell** | **O** |
| ***Lamiastrum galeobdolon*** | **Yellow Archangel** | **O** |
| *Moss sp.* | Moss species | O |
| *Polytrichum sp.* | Moss species | O |
| *Silene dioica* | Red Campion | O |
| ***Stellaria holostea*** | **Greater Stitchwort** | **O** |
| *Urtica dioica* | Nettle | O |
| *Arum maculatum* | Lords-and-Ladies | R |
| *Blechnum spicant* | Hard Fern | R |
| *Corylus avellana* | Hazel | R |
| *Crepis capillaris* | Smooth Hawk's-beard | R |
| *Cytisus scoparius* | Broom | R |
| *Hieracium sp.* | Hawkweed species | R |
| *Ilex aquifolium* | Holly | R |
| ***Impatiens glandulifera*** | **Himalayan Balsam** | **R** |
| ***Milium effusum*** | **Wood Millet** | **R** |
| *Phyllitis scolopendrium* | Hart's-tongue | R |
| *Populus tremula* | Aspen | R |
| *Rubus idaeus* | Raspberry | R |
| *Salix cinerea ssp. cinerea* | Grey Willow | R |
| *Sambucus nigra* | Elder | R |
| *Viburnum opulus* | Guelder-rose | R |
| *Viola riviniana* | Wood-dog-violet | R |

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare.

## Management Issues:

The proximity of Sunny Bank Wood to the sewage works and residential areas has led to some incidences of fly tipping. The riverside location of Sunny Bank and Storrs Woods has led to some quite large-scale colonisation by Himalayan balsam and there is a stand of Japanese knotweed (*Fallopia japonica*) at the western end of the northern section of Horse Carr Wood (TN2).

Management of the nuisances of tipping and invasive alien species needs to be put

into effect to protect these ancient woodland fragments.

Some areas have very dense canopy with little understorey or groundflora and would benefit from thinning to allow more light through.

Major Wood, between the southern part of Horse Carr Wood and Hollins Wood, is also on the register of ancient woodlands and should be included in woodland management plans for this site. Increasing the connectivity of these small woodlands would be ecologically advantageous.

**Diversity:**

The site is more-or-less uniformly woodland habitat and there is not much structural diversity within the stands. The course of the river and the railway cuttings do add some diversity.

During the course of 2010 fieldwork a total of 58 species was recorded, seven of which are indicative of ancient woodland habitats in South Yorkshire.

**Naturalness:**

Although constricted to narrow strips across an active agricultural land, these woodlands represent natural vegetation surviving from a formerly much more widespread habitat type.

Watercourses through the area generally still follow their natural routes but there has been past disturbance, as evidenced by the now disused railway routes through most of the woods.

**Rare or Exceptional Features:**

Surviving ancient woodland, along with possible surviving invertebrate fauna, is the most notable feature of this site.

**Fragility:**

This site appears to be susceptible to fly tipping where there is road access, otherwise the woodland habitat is quite robust. There is potential for damage to the site by water-borne contamination or possibly prolonged flooding of the Dearne valley.

**Typicalness:**

The woodland appears to be typical of surviving small areas of ancient woodland in the Barnsley area. As a designated Local Wildlife Site, it is relatively unusual in being fragmented into five separated areas.

## Recorded History & Cultural Associations:

The western parts of this site lie less than 1km east of Monk Bretton Priory, established in 1154 in what was then the wooded valley of the Dearne. The monks and lay brothers would have undoubtedly exploited the woodlands for various purposes.

There appears to be little evidence of past woodland management activities remaining in these small stands, though the name Hollins Wood could derive from former usage of pollarding holly to feed to stock in winter.

There is more evidence of industrial history, with remains of former railway routes crossing through the area.

The site is now owned by Barnsley Council, after its purchase from the Talbot family in the 1930s.

## Connectivity within the Landscape:

This woodland habitat is quite isolated within arable farmland, but there is some minor linkage via scattered hedgerows and the wooded banks of disused railways. The Dearne Valley is a major landscape link in the wider sense, but is no longer as wooded as in the days of the monks at Monk Bretton.

## Value for appreciation of Nature and Learning:

The Dearne Way snakes through the site, following the course of the river. A close network of other public footpaths links the various elements of the site with each other (with the exception of the eastern portion of Sunny Bank Wood) and also to the local settlements of Lundwood, Cudworth and Ardsley.

There are schools in each of these areas, making these ecologically valuable ancient woodlands very accessible.

## Recommendations:

This site appears on the Natural England Ancient Woodland Inventory and seven species associated with ancient woodland were recorded during the 2010 survey. Further survey, earlier in the year, may reveal a larger number of species. Management to diversify structure of the woodlands may improve the biodiversity of woodland compartments especially for these typical ancient woodland species.

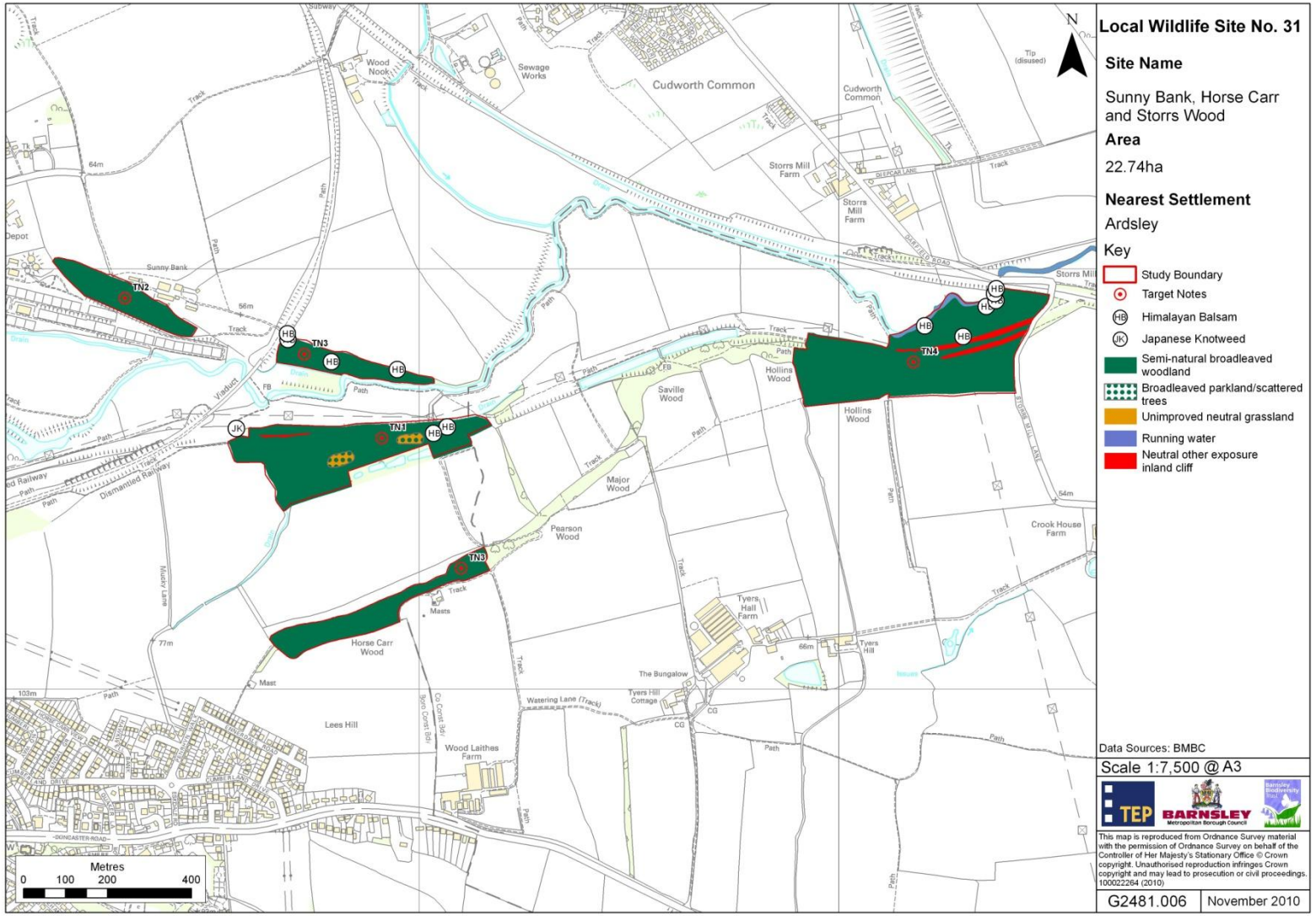
As part of the Ancient Woodland Inventory, this site qualifies under the site assessment criteria and should be retained as a Local Wildlife Site. Consideration should also be given to the possibility of surveying the adjoining Saville, Major and Pearson Woods and consider their inclusion as Local Wildlife Site, subject to survey and approval.

The site would benefit from improvement and diversification delivered through ecological management.

**Action:**

Retain as a Local Wildlife Site

Survey adjoining wooded areas


Local Wildlife Site No. 31
Site Name
Sunny Bank, Horse Carr and Storrs Wood
Area
22.74ha
Nearest Settlement
Ardsley
Key
Study Boundary
Target Notes
Himalayan Balsam
Japanese Knotweed
Semi-natural broadleaved woodland
Broadleaved parkland/scattered trees
Unimproved neutral grassland
Running water
Neutral other exposure inland cliff
N
Metres
0 100 200 400
Cudworth Common
Sunny Bank
Wood Nook
Sewage Works
Storrs Mill Farm
Saville Wood
Hollins Wood
Major Wood
Pearson Wood
Horse Carr Wood
Tyers Hall Farm
Crook House Farm
Lees Hill
Wood Laithes Farm
The Bungalow
Tyers Hill Cottage
Dismantled Railway
Viaduct
Watering Lane (Track)
Data Sources: BMBC
Scale 1:7,500 @ A3
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