

Newlands Developments

Land Off Barnsley Road, Goldthorpe

WINTERING BIRD SURVEY REPORT

June 2023

FPCR Environment and Design Ltd

Registered Office: Lockington Hall, Lockington, Derby DE74 2RH Company No. 07128076. [T] 01509 672772 [E] mail@fpcr.co.uk [W] www.fpcr.co.uk

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1.0 NON-TECHNICAL SUMMARY

- 1.1 FPCR Environment & Design Ltd. were commissioned by Newlands Developments to conduct a suite of surveys on land at a proposed development site south of Barnsley Road/Doncaster Road (A635), situated to the west of Goldthorpe. Proposals for the site involve the development of existing arable cropland to employment land uses (B2 & B8) with associated access roads, drainage features and landscaping.
- 1.2 The desktop study identified 52 species afforded legislative protection or listed as species of conservation concern in the UK. The presence of these species was taken into consideration during the surveys and into the proposed mitigation and enhancement measures.
- 1.3 A single scoping Wintering Bird Survey was undertaken in February 2022 with a subsequent full Wintering Bird Survey carried out between November 2022 and February 2023 inclusive. The scoping survey identified 27 species of which 15 were considered 'notable'. The full wintering bird survey identified 43 species of which 25 were considered 'notable'.
- 1.4 The Site did not meet any of the county specific Local Wildlife Site (LWS) selection criteria relating to breeding and/or wintering birds or its assemblages thereof and thus does not qualify for consideration for LWS designation.
- 1.5 The wintering bird assemblages within the Site were typical of those habitats in the region comprising largely common and widespread generalist species, The wintering assemblage associated with the arable land was considered of **Local** nature conservation importance while those of the hedgerows, scrub, trees, and the Carr Dike watercourse were considered of **Site** nature conservation importance.
- 1.6 Habitat loss is expected to incur Minor Adverse to Negligible effects at the local level for species recorded associated with the farmland and marginal habitats. The retention of the Carr Dike corridor and a suitable riparian buffer of vegetation within the proposed scheme is such that No Effect due to habitat loss is expected for species recorded from this habitat.
- 1.7 Disturbance that may affect bird behaviour is expected to be limited to the construction phase and is anticipated to have a temporary **Minor Adverse** impact.
- 1.8 Mitigation measures are recommended to minimise disturbance impacts from construction operations; vegetation clearance should be undertaken outside the bird nesting season (March August, inclusive), or checked by an ecologist prior to clearance.
- 1.9 A range of enhancement opportunities have been suggested based on the habitats and bird species recorded to achieve biodiversity gains.

2.0 INTRODUCTION

2.1 FPCR Environment & Design Ltd were commissioned by Newlands Developments to undertake a full Wintering Bird Survey across four visits, plus species-specific surveys to assess the use of the Site by willow tit *Poecile montanus*, on a site to the west of Goldthorpe and south of Barnsley Road/Doncaster Road (A635) (central OS grid reference SE 442 036), hereafter referred to as 'the Site'.

Site Location & Context

- 2.2 A full description of the habitats present on-site will be provided in the Ecological Appraisal which should be read in conjunction with this report (FPCR, June 2023).
- 2.3 The Site lies to the west of the town of Goldthorpe on farmland south of the A635 Barnsley Road/Doncaster Road and adjacent to the west of Aldi Goldthorpe Regional Distribution Centre. Carr Dike bisects the Site running in a south-westerly direction from the A635 in the north. Dearne Valley Wetlands Site of Special Scientific Interest (SSSI) lies to the south-west with the land between dominated by large cultivated arable fields.
- 2.4 The Site comprises of five broad compartments of arable cropland; all seeded with cereal crops over the period covered by the surveys, except the north-easternmost parcel which contained oil seed rape. Additionally, there is a narrow belt of plantation deciduous woodland associated with Carr Dike, and a second parcel of plantation woodland along the northern boundary between the arable fields and the A635 road. Several areas of the latter woodland block had been recently felled with chippings left in situ.
- 2.5 Linear habitat features include several hedgerows separating the agricultural compartments, two ditches, one a wet ditch tributary of Carr Dike discharging onto the Site from the distribution centre to the east , and the other a small field drain in the north of the Site which was overgrown with bramble scrub.
- 2.6 The Site is bound by the existing development of Goldthorpe Industrial Estate to the east, further agricultural land to the north and west (predominantly arable land-use),– and an area of woodland-scrub mosaic which forms part of the Dearne Valley Wetlands SSSI (The Mullins SSSI Unit 14) to the south.

Site Proposals

2.7 As per the illustrative masterplan for the Site (umc architects drawing. *Environmental Statement Figure 4.1*) the proposed development includes four plots for employment uses, a new link road and associated internal access roads, landscaping, and drainage. Carr Dike will be buffered on either side by a "biodiversity corridor" with other areas of green infrastructure including woodland and scrub planting, individual tree planting and grassland through the Site. A biodiversity and flood alleviation area will be created immediately to the west of the Site and will incorporate grassland and wetland habitats, screened from the development by embankments with grassland and scrub planting. Additionally, Sustainable Urban Drainage Systems (SUDS) will be provided with the creation of a number of attenuation basins and ponds throughout the Site.

- 2.8 The Scoping Wintering Bird Survey was carried out across a single visit to the Site in February 2022. The objectives of the survey were to:
 - Identify the presence and distribution of wintering birds;
 - Evaluate the conservation importance of wintering bird populations present;
 - Evaluate the importance of wintering bird populations and the anticipated residual impacts of the development, and
 - To identify areas of ornithological interest and make recommendations to minimise the potential impact of the scheme.
- 2.9 The Wintering Bird Survey was carried out across four visits to the Site one per month between November 2022 and February 2023 inclusive. The objectives of the survey were to:
 - Identify the presence and distribution of wintering birds;
 - Evaluate the conservation importance of wintering bird populations present;
 - Evaluate the importance of wintering bird populations and the anticipated residual impacts of the development, and
 - To identify areas of ornithological interest and make recommendations to minimise the potential impact of the scheme.
- 2.10 A willow tit species-specific survey was undertaken concurrently with the final Wintering Bird Survey visit in February 2023. The objectives of this survey were to:
 - Identify the presence/absence of willow tit within areas of potentially suitable habitat within the Site;
 - Evaluate the conservation importance of any populations identified;
 - Evaluate the anticipated residual impacts of the development on this species; and
 - To identify any areas of particular interest and make recommendations, should they be required, to minimise the potential impact of the scheme.

3.0 LEGISLATION & STATUS

Legislation

- 3.1 The Wildlife and Countryside Act 1981 (as amended) (WCA) is the principal legislation affording protection to UK wild birds. Under this legislation all birds, their nests and eggs are protected by law, and it is an offence, with certain exceptions, to recklessly or intentionally:
 - Kill, injure or take any wild bird.
 - Take, damage, or destroy the nest of any wild bird while in use or being built; or
 - Take or destroy the egg of any wild bird.
- 3.2 Additional protection is afforded to species listed on Schedule 1 of the WCA, whereby intentional disturbance whilst building or occupying a nest or disturbance of dependent young is also considered an offence.
- 3.3 Certain species have also been identified as Species of Principal Importance (SPI) under Section 41 of the NERC Act 2006 (NERC S.41). The S.41 list is used to guide decision-makers such as public bodies, including local and regional authorities, in implementing their duty under Section 40 of the Natural Environment and Rural Communities Act 2006, to have regard to the conservation of biodiversity in England, when carrying out their normal functions.
- 3.4 The Site falls within the Barnsley Biodiversity Action Plan (LBAP) which identifies several targets for UK priority species that occur within this area, however all bird species included are also covered under NERC S.41 or national level conservation classifications discussed below.

Status

- 3.5 In addition to statutory protection, some bird species are classified according to their conservation status, such as their inclusion on the Red and Amber lists of Birds of Conservation Concern (BoCC) in the UK:
- 3.6 Red list (high conservation concern) species meet at least one of the following criteria:
 - They are globally threatened according to IUCN criteria.
 - Their population has declined rapidly (50% or more) in recent years.
 - They that have declined historically and not shown a substantial recent recovery.
- 3.7 Amber list (medium conservation concern) species are those that meet at least one of the following criteria:
 - They have an unfavourable conservation status in Europe.
 - Their population or range has declined moderately (between 25% and 49%) in recent years.
 - Their population has declined historically but made a substantial recent recovery.
 - They are rare breeders.
 - They have internationally important or localised populations.
- 3.8 Green list (low conservation concern) species fulfil none of the above criteria.

4.0 METHODOLOGY

Desktop Study

- 4.1 To compile baseline ornithological information, the following statutory and non-statutory organisations were consulted for data regarding designated sites for which birds are a qualifying feature, and protected/notable bird records:
 - Natural England via the Multi Agency Geographic Information for the Countryside (MAGIC) website; and
 - Barnsley Biological Records Centre (BBRC)
- 4.2 The geographical extent of the search area for biodiversity information was related to the significance of sites and species and potential zones of influence which might arise from development within the Site, as follows:
 - 15km around the Site boundary for sites of International Importance (e.g. Special Areas of Conservation (SACs), Special Protection Areas (SPAs), Ramsar sites);
 - 2km around the Site boundary for statutory sites of National or Regional Importance (e.g. Sites of Special Scientific Interest (SSSIs)) and
 - 1km around the Site for non-statutory designated sites of County Importance (e.g. Sites of Importance for Nature Conservation (SINCs)/Local Wildlife Sites (LWSs) and protected or otherwise notable species records within the last 20 years.

Field Surveys

Wintering Bird Surveys

- 4.3 The wintering bird populations at the Site were assessed by an initial scoping survey in February 2022 to assess the number of species, and individuals thereof, utilising the habitats present with the results of this survey used to determine the need for further survey effort. A route was mapped prior to the surveys being undertaken, paying particular attention to any linear features, such as hedgerows and watercourses, and other features such as ponds and scrub. Bird surveys were not undertaken in unfavourable conditions, such as heavy rain or persistent strong wind (conditions which can negatively affect the results). Table 1 provides details of the survey dates and weather conditions.
- 4.4 To provide a reasonable level of accuracy for determining the population status of the wintering birds at the Site, four surveys were undertaken between dawn and early afternoon between November 2022 and February 2023.
- 4.5 The methodology employed for both the scoping survey and wintering bird surveys was broadly based on territory mapping¹ used for the British Trust for Ornithology (BTO) Common Bird Census (CBC). Standard BTO species codes and symbols for bird activities were used to identify birds and denote activity, sex, and age where appropriate.

	Survey	Date	Cloud Cover (%)	Rain	Wind (Beaufort)	Visibility
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Table 1: Survey Dates and Conditions

1 Bibby, C.J., N.D. Burgess & D.A. Hill, 2000: Bird Census Techniques: 2nd Edition. London: Academic Press

2022 Sco	2022 Scoping Wintering Bird Survey						
1	25.02.22	15	None	4 – Moderate Breeze	Excellent		
2022 Wint	ering Bird S	Survey					
2	30.11.22	100	None	1 – Light Air	Very Good		
3	22.12.22	100	None	0 – Calm	Good		
4	12.01.23	100	Two brief showers <5 minutes in duration otherwise None.	4 – Moderate Breeze	Excellent		
5	23.02.23	40	None	2 – Light Breeze	Excellent		

Willow Tit Species-specific Surveys

- 4.6 As willow tits were identified as being present within 1km of the Site, and the habitats along the Carr Dike corridor as having potential, albeit limited, to support willow tit, a species-specific survey was undertaken in accordance with national survey methods produced to inform the Back from the Brink HLF project³.
- 4.7 The survey was undertaken concurrently with the February visit of the Wintering Bird Surveys discussed above utilising the same survey route. The playback method was used in all areas of habitat identified as potentially suitable for willow tits with playback points set at 200m intervals along the route. At each survey point the standard two-minute recorded willow tit call was played at sufficient volume to be audible from 100m away with a subsequent two-minute period of silence to identify any willow tits responding to the recording.

Species & Assemblage Assessment

- 4.8 The Chartered Institute of Ecology and Environmental Management (CIEEM) guidance on ecological impact assessment assesses nature conservation importance within a geographical context⁴. To attain each level of importance, an ornithological resource or one of the features (species population or assemblage of species) should meet the criteria set out in Table 2. In some cases, professional judgment may be required to increase or decrease the allocation of importance, based upon local knowledge.
- 4.9 The Site has also been assessed against the selection criteria for Local Wildlife Site (LWS) for Barnsley⁵ on criteria set out for breeding birds. LWSs are recognised by central government as an important tool in promoting sustainable development and protecting biodiversity.
- 4.10 The recent county annual bird report, *Yorkshire Bird Report 2018/19⁶*, was consulted to inform the assessment. The abundance of species referred to by these reports is classified by the following criteria:
 - Vagrant Fewer than ten records ever;

³ https://naturebftb.co.uk/wp-content/uploads/2021/09/25221_BftB_Willow_Tit_Handbook_V6.pdf

 $^{4\} http://www.cieem.net/data/files/Publications/EclA_Guidelines_Terrestrial_Freshwater_and_Coastal_Jan_2016.pdf$

⁵ TEP (2011) Barnsley Natural Heritage Sites Species Assessment Criteria 2481.002. Barnsley Metropolitan Borough Council

⁶ Yorkshire Naturalists Union Birds Section (2022) Yorkshire Bird Report 2018/19.

- Rare Between 0 and 10 individuals each year in the past 10 years;
- Scarce Between 11 and 100 individuals each year in the past 10 years;
- Uncommon 101-1,000 individuals each year in the past 10 years;
- Fairly Common More than 1,000 records per year;
- Common More than 10,000 records per year;
- Abundant More than 50,000 records per year.

Table 2: Evaluation Criteria

Nature Conservation Value	Examples of Selection Criteria
International	A species which is part of the cited interest of an SPA and which regularly occurs in internationally or nationally important numbers. A species present in internationally important numbers (>1% of international population).
National	A species which is part of the cited interest of a SSSI and which regularly occurs in nationally or regionally important numbers. A nationally important assemblage of breeding or over-wintering species. A species present in nationally important numbers (>1% UK population). Rare breeding species (<300 breeding pairs in the UK).
Regional	Species listed as being of principal importance under NERC S.41 which are not covered above, and which regularly occurs in regionally important numbers. Species present in regionally important numbers (>1% of regional population). Sustainable populations of species that are rare or scarce within a region. Species on the BoCC Red List & which regularly occur in regionally important numbers.
County	Species listed as being of principal importance under NERC S.41 which are not covered above and which regularly occurs in county important numbers Species present in county important numbers (>1% of county population). Sustainable populations of species that are rare or scarce within a county, or are listed as being of principal importance under S41 of the NERC Act. A site designated for its county important assemblage of birds (e.g. a SINC Site). Species on the BoCC Red List & which regularly occur in county important numbers.
Local	Other species of conservation interest (e.g. all other species on the BoCC Red and Amber List or species listed as being of principal importance under NERC S.41 which are not covered above) regularly occurring in locally sustainable populations. Sustainable populations of species which are rare or scarce within the locality.
Site	Species that are common and widespread

5.0 **RESULTS & EVALUATION**

Desk Study

Designated Sites

- 5.1 The Site is not covered by any statutory designation and no international nature conservation designations were recorded within 15km.
- 5.2 Dearne Valley Wetlands Site of Special Scientific Interest (SSSI) is approximately 100m southwest of the Site and is designated for:
 - Breeding gadwall Mareca strepera, shoveler Spatula clypeata, garganey Spatula querquedula, pochard Aythya farina, bittern Botaurus stellaris, black-headed gull Chroicocephalus ridibundus and willow tit Poecile montanus klienschmidtii
 - Non-breeding gadwall and shoveler; and
 - Diverse assemblage of breeding birds of lowland damp grassland, scrub, open water, and fen.

Non-statutory Designated Sites

5.3 A single non-statutory site is present within 1km of the Site. Old Moor and Wath Ings Local Wildlife Site (LWS), approximately 960m south-west of the Site, and is also designated as a Unit of the Dearne Valley Wetlands SSSI (Unit 17). This LWS site is designated due to its importance as a breeding and/or wintering site for a number of Schedule 1 bird species namely avocet *Recurvirostra avosetta*, bittern *Botaurus stellaris*, Mediterranean gull *Ichthyaetus melanocephalus*, kingfisher A*lcedo atthis*, barn owl *Tyto alba*, and little ringed plover *Charadrius dubius*, as well as a number of nationally important NERC Section 41 species recorded from the site: skylark *Alauda arvensis*, reed bunting *Emberiza schoeniclus*, grasshopper warbler *Locustella naevia*, tree sparrow *Passer montanus*, grey partridge *Perdix perdix*, willow tit *Poecile montanus*, dunnock *Prunella modularis*, bullfinch *Pyrrhula pyrrhula*, song thrush *Turdus philomelos*, and lapwing *Vanellus vanellus*.

Protected/Notable Species

- 5.4 The desktop study returned records of 88 species from within 1km of the Site boundary of which six species were recorded from within the Site: grey partridge, yellow wagtail *Motacilla flava*, linnet *Linaria cannabina*, yellowhammer *Emberiza citrinella*, green sandpiper *Tringa ochropus*, and song thrush *Turdus philomelos*.
- 5.5 Of the 88 species returned, 52 are considered to be notable with 19 BoCC Red-listed species, 30 BoCC Amber-listed species, and three BoCC Green-listed species afforded protection under WCA Schedule 1. These are detailed in Table 3.
- 5.6 Marsh harrier *Circus aeruginosus* was reported to have successfully bred on the RSPB land to the south-west of the Site in 2020 and was reported hunting along several sections of Carr Dike in close proximity to the Site and at the Site in 2020. Marsh harrier were not recorded at the Site during breeding bird surveys in 2022 and in general do not overwinter in the UK, migrating to Africa and returning to the UK around April.

Table 3: Bird Species Records from Desktop Study

	Nama			
Name		WCA Sch.1	NERC S.41	- Within Site Boundary
BoCC Red List				
Pochard	Aythya rufina			
Goldeneye	Bucephala clangula	+		
Grey partridge	Perdix perdix		+	Yes
Swift	Apus apus			
Lapwing	Vanellus vanellus		+	
Herring gull	Larus argentatus		+	
Marsh tit	Poecile palustris		+	
Willow tit	Poecile montanus		+	
Skylark	Alauda arvensis		+	
House martin	Delichon urbicum			
Starling	Sturnus vulgaris		+	
Mistle thrush	Turdus viscivorus			
Fieldfare	Turdus piliaris	+		
Tree sparrow	Passer montanus		+	
House sparrow	Passer domesticus		+	
Yellow wagtail	Motacilla flava		+	Yes
Greenfinch	Chloris chloris			
Linnet	Linaria cannabina		+	Yes
Yellowhammer	Emberiza citrinella		+	Yes
BoCC Amber List				
Greylag goose	Anser anser	+		
Pink-footed goose	Anser brachyrhynchus			
Shelduck	Tadorna tadorna			
Shoveler	Spatula clypeata			
Gadwall	Mareca strepera			
Wigeon	Mareca penelope			
Mallard	Anas platyrhynchos			
Teal	Anas crecca			
Stock dove	Columba oenas			
Woodpigeon	Columba palumbus			
Moorhen	Gallinula chloropus			
Oystercatcher	Haemotopus ostralegus			
Snipe	Gallinago gallinago			
Green sandpiper	Tringa ochropus	+		Yes
Black-headed gull	Chroicocephalus ridibundus			
Common gull	Larus canus			

N	Status			
Name	WCA Sch.1	NERC S.41	Within Site Boundary	
Lesser Black-backed Gull	Larus fuscus			
Sparrowhawk	Accipiter nisus			
Marsh harrier	Circus aeruginosus	+		
Kestrel	Falco tinnunculus			
Rook	Corvus frugliegus			
Willow warbler	Phylloscopus trochilus			
Whitethroat	Curruca communis			
Wren	Troglodytes troglodytes			
Song thrush	Turdus philomelos		+	Yes
Dunnock	Prunella modularis		+	
Grey wagtail	Motacilla cinerea			
Meadow pipit	Anthus pratensis			
Bullfinch	Pyrrhula pyrrhula			
Reed bunting	Emberiza schoeniclus			
BoCC Green List				
Mute swan	Cygnus olor			
Tufted duck	Aythya fuligula			
Goosander	Mergus merganser			
Collared dove	Streptopelia decaocto			
Coot	Fulica atra			
Little grebe	Tachybaptus subruficollis			
Great crested grebe	Podiceps cristatus			
Golden plover	Pluvialis apricaria			
Cormorant	Phalacrocorax carbo			
Grey heron	Ardea cinerea			
Little egret	Egretta garzetta			
Buzzard	Buteo buteo			
Barn owl	Tyto alba	+		
Long-eared owl	Asio otus			
Kingfisher	Alcedo atthis	+		
Green woodpecker	voodpecker Picus viridis			
Jay	Garrulus glandarius			
Magpie	Pica pica			
Jackdaw	Coloeus monedula			
Carrion crow	Corvus corone			
Blue tit	Cyanistes caeruleus			
Great tit	Parus major			

	Status			
Name	WCA Sch.1	NERC S.41	- Within Site Boundary	
Sand martin	Riparia riparia			
Swallow	Hirundo rustica			
Long-tailed tit	Aegithalos caudatus			
Cetti's warbler	Cettia cetti	+		
Chiffchaff	Phylloscopus collybita			
Blackcap	Sylvia atricapilla			
Goldcrest	Regulus regulus			
Blackbird	Turdus merula			
Robin	Erithacus rubecula			
Stonechat	Saxicola rubicola			
Pied wagtail	Motacilla alba			
Chaffinch	Fringilla coelebs			
Goldfinch	Carduelis carduelis			
BoCC Unlisted				
Canada goose	Branta canadensis			
Pheasant	Phasianus colchicus			
Red-legged partridge	Alectoris rufa			
Little owl	Athene noctua			

Field Surveys

2022 Scoping Wintering Bird Survey

- 5.7 During the single scoping Wintering Bird Survey undertaken in February 2022, a total of 27 species were recorded from within the survey area (Appendix A). Of these, 15 species meet the criteria of at least one of the following pieces of legislation/classifications discussed above: Schedule 1 of the WCA; Section 41 of the NERC Act 2006; and BoCC Red or Amber lists. These species are referred to as 'notable' species.
- 5.8 Table 4 summarises the notable wintering bird species, whilst Figure 1 illustrates their distribution across the Site.

Table 4: Notable Wintering Bird Species Recorded during the 2022 Scoping Wintering Bird Surveys
and Their Recent Status in Yorkshire

Species	Legal/ Conservation Status	Count	Recent Status in Yorkshire
Greylag Goose Anser anser	Amber List WCA Sch.1 (Part II)	1 flyover	Fairly Common resident.
Mallard Anas platyrhynchos	Amber List	3	Fairly Common resident, Common in winter.
Stock Dove Columba oenas	Amber List	1 flyover	Fairly Common resident.
Woodpigeon Columba palumbus	Amber List	254	Abundant resident.

Species	Legal/ Conservation Status	Count	Recent Status in Yorkshire
Black-headed Gull Chroicocephalus ridibundus	Amber List	10 flyovers	Common resident, Abundant in winter.
Common Gull <i>Larus canus</i>	Amber List	12	Common to Abundant winter visitor, numbers vary annually.
Herring Gull Larus argentatus	Red List NERC S.41	2 flyovers	Common resident.
Skylark Alauda arvensis	Red List NERC S.41	13	Common resident.
Wren Troglodytes troglodytes	Amber List	3	Abundant resident.
Song Thrush Turdus philomelos	Amber List NERC S.41	2	Common resident.
Redwing <i>Turdus iliacus</i>	Amber List WCA Sch.1	3	Common winter migrant.
Dunnock Prunella modularis	Amber List NERC S.41	2	Common resident.
Meadow Pipit Anthus pratensis	Amber List	29	Common resident.
Linnet Linaria cannabina	Red List NERC S.41	25	Common resident.
Yellowhammer Emberiza citrinella	Red List NERC S.41	9 + 1 flyover	Fairly Common resident.

2022-23 Full Wintering Bird Survey

- 5.9 A total of 43 species were recorded during the 2022-23 Wintering Bird Surveys (for full list see Appendix B). Of these, 25 species meet at least one of the criteria of at least one of the following pieces of legislation/classifications discussed above: Schedule 1 of the WCA; Section 41 of the NERC Act 2006; and BoCC Red or Amber lists and are considered notable species.
- 5.10 Table 5 summarises the notable species recorded across the four survey occasions, whilst Figure 2 illustrates their respective distributions within the Site.

 Table 5: Notable Wintering Bird Species Recorded during the 2022-23 Full Wintering Bird Surveys

 and Their Recent Status in Yorkshire

Species	Legal/ Conservation Status	Peak Count / Number of Survey Occasions Recorded	Recent Status in Yorkshire
Mallard Anas platyrhynchos	Amber List	2/2	Fairly Common resident, Common in winter.
Stock Dove Columba oenas	Amber List	50 + 17 flyovers / 2	Fairly Common resident.
Woodpigeon Columba palumbus	Amber List	368 + 8 flyovers / 4	Abundant resident.
Moorhen Gallinula chloropus	Amber List	1/2	Common to Abundant resident, numbers fluctuate substantially.

Species	Legal/ Conservation Status	Peak Count / Number of Survey Occasions Recorded	Recent Status in Yorkshire	
Lapwing Vanellus vanellus	Red List NERC S.41	1 flyover / 1	Uncommon resident, Common in winter.	
Snipe Gallinago gallinago	Amber List	13 / 2	Scarce resident, Fairly Common in winter.	
Black-headed Gull Chroicocephalus ridibundus	Amber List	75 + 2 flyovers / 3	Common resident, Abundant in winter.	
Herring Gull Larus argentatus	Red List NERC S.41	3 flyovers / 4	Common resident.	
Lesser Black- backed Gull <i>Larus fuscus</i>	Amber List	2 flyovers / 2	Uncommon resident, Fairly Common in winter.	
Sparrowhawk Accipiter nisus	Amber List	1 flyover / 1	Fairly Common resident.	
Kestrel Falco tinnunculus	Amber List	1 flyover / 1	Fairly Common resident.	
Rook Corvus frugilegus	Amber List	62 + 7 flyovers / 3	Abundant resident.	
Skylark Alauda arvensis	Red List NERC S.41	99 + 2 flyovers / 4	Common resident.	
Wren Troglodytes troglodytes	Amber List	11/3	Abundant resident.	
Starling Sturnus vulgaris	Red List NERC S.41	80 + 7 flyovers / 3	Abundant but decreasing resident.	
Song Thrush Turdus philomelos	Amber List NERC S.41	3/3	Common resident.	
Mistle Thrush Turdus viscivorus	Red List	4 / 1	Fairly Common resident.	
Redwing <i>Turdus iliacus</i>	Amber List WCA Sch.1	77 / 3	Common winter migrant.	
Fieldfare Turdus piliaris	Red List WCA Sch.1	76 / 4	Common winter migrant.	
House Sparrow Passer domesticus	Red List NERC S.41	3/1	Abundant but decreasing resident.	
Dunnock Prunella modularis	Amber List NERC S.41	7/3	Common resident.	
Meadow Pipit Anthus pratensis	Amber List	34 + 1 flyover / 3	Common resident.	
Greenfinch Chloris chloris	Red List	1/1	Common resident.	
Linnet Linaria cannabina	Red List NERC S.41	526 + 13 flyovers / 4	Common resident.	
Yellowhammer Emberiza citrinella	Red List NERC S.41	66 / 4	Fairly Common resident.	

Willow Tit Species-specific Surveys

- 5.11 The potentially suitable habitats within the Site were considered of low suitability for willow tit as the species composition included several undesirable species as per the national survey method guidelines such as sycamore *Acer pseudoplatanus* and oak *Quercus sp.* with a very limited understorey and little standing deadwood or otherwise rotting material in which nest cavities could be excavated.
- 5.12 No observations or audible contacts of willow tits were made during the species-specific survey undertaken in February 2023 nor were any incidental records forthcoming from the other extensive surveys conducted at the Site throughout 2022 and 2023.

Bird Survey Results Description

- 5.13 The majority of species recorded are typical of the habitats present across the Site, being heavily influenced by the current agricultural management. Internal sections of the large arable fields were utilised as foraging areas by several notable and/or declining species commonly associated with farmland landscapes including; stock dove *Columba oenas*, woodpigeon *Columba palumbus*, snipe *Gallinago gallinago*, gulls, rook *Corvus frugilegus*, skylark *Alauda arvensis*, and meadow pipit *Anthus pratensis*. Areas of fields that were inundated or had been left to fallow supported fluctuating numbers of foraging snipe *Gallinago gallinago*.
- 5.14 The margins of the arable fields supported a small number of species but some, including the notable farmland specialist species linnet *Linaria cannabina* and yellowhammer *Emberiza citrinella*, in moderately high numbers. These areas also provided additional foraging resources and potential roosting sites for skylarks and meadow pipits as well as common and widespread granivorous species.
- 5.15 The hedgerows, patches of scrub, and mature trees across the Site hosted a number of common and widespread species including common tit, thrush, and finch species alongside small numbers of corvids, and goldcrest *Regulus regulus*. In addition, these habitats supported a variety of notable species; stock dove, woodpigeon, wren *Troglodytes troglodytes*, song thrush *Turdus philomelos*, mistle thrush *Turdus viscivorus*, redwing *Turdus iliacus*, fieldfare *Turdus piliaris*, dunnock *Prunella modularis*, greenfinch *Chloris chloris*, linnet, and yellowhammer.
- 5.16 Carr Dike supported a very limited number of wintering birds restricted to up to three mallards *Anas platyrhynchos* and a single moorhen *Gallinula chloropus*. In addition, a number of wetland bird species were tracked commuting along the corridor which included greylag goose *Anser anser,* and lapwing *Vanellus*, both of which are notable species.
- 5.17 Several species were recorded overflying the Site only which included the aforementioned greylag goose and lapwing, plus herring gulls *Larus argentatus* and lesser black-backed gulls *Larus fuscus*, sparrowhawk *Accipiter nisus*, and kestrel *Falco tinnunculus*. Whilst the Site provides habitats with foraging/feeding opportunities for all of these species no such activity was noted across the four visits.

Evaluation

Bird Assemblage

Local Wildlife Site Assessment

5.18 The Site was assessed against published criteria for LWS selection in the wider Barnsley area.

- 5.19 The criteria relevant to wintering birds are:
 - a) The Site regularly supports a wintering population of any bird species included on Schedule 1 of the Wildlife & Countryside Act 1981 (as amended) that is considered of significance in the Borough as detailed in Table 3 of the guidance document.
 - b) The Site regularly supports a significant proportion of the Borough's wintering population of two or more bird species listed on Section 41 of the NERC Act 2006 and/or the Barnsley Local Biodiversity Action Plan (LBAP) as detailed in Table 4 of the guidance document.
 - c) The Site supports an assemblage of sufficient diversity to be important in the Borough:
 - a. 20 or more regularly wintering species of which a minimum of three feature on Schedule 1 of the WCA, Section 41 of the NERC Act, and/or the Barnsley LBAP.
 - b. 30 or more regularly wintering species of which a minimum of six feature on Schedule 1 of the WCA, Section 41 of the NERC Act, and/or the Barnsley LBAP.
- 5.20 Under criterion a of the above, two WCA Sch.1 species that are included in the list for consideration were recorded amongst the wintering bird assemblage redwing and fieldfare. Numbers of both species fluctuated significantly throughout the season, considered to be likely indicative of roving flocks of foraging birds passing through the area instead of regularly use of the Site by a core population of birds. It is therefore considered that the Site does not meet the LWS designation on this basis.
- 5.21 Under criterion b of the above, four of the species recorded are included in Table 4 of the guidance document: dunnock, house sparrow, linnet, and yellowhammer. Whilst the number of linnets recorded at the Site is of significance in terms of peak count, the regularly occurring numbers of this species throughout the winter were significantly lower (though still considered significant at the Borough level). Neither dunnock or house sparrow occurred in sufficient numbers or, in the case of the latter, with sufficient regularity to qualify as regular support of a significant population of these species. As only a single species, linnet, is considered to regularly occur in numbers deemed a significant proportion of the Borough's wintering population the Site is not considered to be eligible for LWS designation under this criterion.
- 5.22 Under criterion c of the above the 43 species recorded during the full Wintering Bird Survey is sufficient for the Site to be assessed under both sub-criteria. As regular use in this context is defined as "[...] recorded in at least 3 years (not necessarily consecutive) within the past ten years, at least one recorded occurrence of which should be within the past five years.". Given the limited temporal scope of the survey work undertaken to inform this report, it is considered that there is insufficient data for the Site to be assessed under criterion c and therefore cannot be considered for LWS designation on this basis.

Wintering Bird Assemblage

5.23 Arable field parcels and their associated margins provide good foraging opportunities for many of the notable farmland bird species recorded on the Site including moderately large numbers of skylark, linnet, and yellowhammer, in addition to stock dove, woodpigeon, snipe, black-headed gull, common gull, rook, starling, and meadow pipit. Given the moderately large numbers of some of the farmland specialist species utilising the Site in addition to records of species uncommon within the county, the Site was still considered to be of **Local** nature conservation importance for its farmland bird assemblage.

- 5.24 The hedgerows, scrub, and trees within the Site provided good shelter and foraging opportunities for a variety of common and widespread generalist species. The assemblage recorded is typical of such habitat in the region and whilst the assemblage did include several notable species most occurred in low numbers and are not considered to be of conservation priority in Yorkshire as they are deemed Fairly Common to Abundant in the county. These included stock dove, woodpigeon, wren, starling, song thrush, mistle thrush, redwing, fieldfare, house sparrow, dunnock, and greenfinch. There is extensive arable land with hedgerow boundaries to the north of the Site and an extensive network of hedgerows, scrub, and woodland around the RSPB Old Moor and RSPB Bolton Ings nature reserves to the south, further extending east-west along the River Dearne corridor. Both the species composition, and their relative abundances within this assemblage, are typical of those expected for the Borough with the notable species present restricted to relatively common and widespread generalist foragers, the nature conservation importance of the wintering bird assemblage associated with the hedgerows, scrub, and trees is therefore considered to be of Site level.
- 5.25 The watercourses and wetland areas supported a restricted range of wetland bird species in winter including mallard and moorhen. The total species diversity was low and all wetland bird species present were low numbers or were considered to be associated with offsite habitat, therefore the Site is considered of **Site** nature conservation importance only for this assemblage.

Individual Species

- 5.26 Table 6 provides a summary of the 20 bird species recorded within the Site that are of at least **Local** importance.
- 5.27 The presence of a large number of skylarks during the November 2022 survey occasion is notable as overwintering flocks of this size are typically only reported from a small number of sites across Yorkshire each winter. However, these large counts were not sustained throughout the season suggesting the initial peak count likely involved transient individuals using the Site as a stopover. Consequently, despite the notable count, the species is considered to occur in numbers of **Local** importance as an overwintering species.
- 5.28 The Site also supported a very large number of linnet during the January survey occasion (526 individuals) but only around 10% of this number throughout the remainder of the winter. It is therefore likely that the Site forms part of a wider network of foraging sites across the wider local landscape and is not a Borough or County-important resource for this species in its own right, and is therefore considered of only **Local** importance for this species also.
- 5.29 Further species of at least **Local** importance (see Table 6 below) are considered as such based on their BoCC listing making them species of conservation interest but that do not occur in Borough/County important numbers on the Site.
- 5.30 Notable species recorded as suspected migrants or flyovers are discounted as they are not seen to utilise any of the habitats on-site and are arguably, therefore, unaffected by any changes to the land use.
- 5.31 The other bird species recorded utilising the habitats within the Site were either recorded in smaller numbers and/or considered common and widespread species nationally and/or locally. These species are recognised as being of only **Site** importance and not included in Table 6.

Table 6: Birds of Local Nature Conservation Importance or Higher

		Status		Nature Conservation	
Name		WCA Sch.1	NERC S.41	Value	
BoCC Red List					
Skylark	Alauda arvensis		+	Local	
Starling	Sturnus vulgaris		+	Local	
Mistle Thrush	Turdus viscivorus			Local	
Fieldfare	Turdus pilaris	+		Local	
House Sparrow	Passer domesticus		+	Local	
Greenfinch	Chloris chloris			Local	
Linnet	Linaria cannabina		+	Local	
Yellowhammer Emberiza citrinella			+	Local	
BoCC Amber List					
Mallard	Anas platyrhynchos			Local	
Stock Dove	Columba oenas			Local	
Woodpigeon	Columba palumbus			Local	
Moorhen	Gallinula chloropus			Local	
Snipe	Gallinago gallinago			Local	
Black-headed Gull	Chroicocephalus ridibundus			Local	
Rook	Corvus frugilegus			Local	
Wren	Troglodytes troglodytes			Local	
Song Thrush	Turdus philomelos		+	Local	
Redwing	Turdus iliacus	+		Local	
Dunnock	Prunella modularis		+	Local	
Meadow Pipit	Anthus pratensis			Local	

6.0 DISCUSSION & RECOMMENDATIONS

6.1 The following section provides an assessment of the potential impacts upon notable birds breeding and/or wintering on the Site likely to result from the proposed development. Where appropriate, recommendations are provided for mitigation and enhancement that take account of the likely ecological effects. Throughout the evaluation, any recommendations for mitigation have been informed by the most up-to-date illustrative masterplan layout (umc architects drawing. *Environmental Statement Figure 4.1*).

Impact Assessment for Birds

- 6.2 The potential impact of the loss or change of habitat upon breeding bird species arising from the effects of development is based upon an understanding of each species' ecological requirements, the type of development, number of birds recorded within the survey area, their nature conservation criteria based on legislation and current guidance, their county status according to the county bird report and professional judgement.
- 6.3 The following potential impacts to the recorded bird populations and assemblage may result from the proposals:
 - Direct loss/change of habitat, including habitat fragmentation; and/or
 - Disturbance during construction and/or operation.

Habitat Loss

- 6.4 The individual species recorded on-site that are arguably the most vulnerable to impacts from the habitat loss or changes associated with this proposed development include the 20 species considered to be of at least **Local** importance. These are notable species that are either specially protected, appear on the BoCC Red or Amber lists, and/or are listed as a NERC priority species and were recorded in at least locally important numbers.
- 6.5 Development of the arable and grassland habitat present at the Site will likely lead to a total loss of skylark as a wintering species on-site since this species requires expansive open areas of stubble with long lines of sight which would not be present post-development. Given the overall numbers present this total loss is anticipated to represent a **Minor Adverse** impact on these species at the **Local** level. The proposed rough grassland areas to be used as flood compensation areas may provide some compensatory habitat suitable for use by skylark.
- 6.6 The loss of arable habitat will also reduce the overall availability of foraging resources for other species that frequent open habitats for foraging such as stock dove, woodpigeon, snipe, black-headed gull, rook, and meadow pipit, plus other common and widespread species such as corvids and gamebirds. Given the low numbers of these species breeding at the Site, their abundance in the county, and the availability of similar habitat immediately adjacent to the Site boundary or in close proximity, the development is anticipated to have a **Minor Adverse** impact on these species at the **Local** level. In all cases it is considered that this can be offset by the habitat creation included in the scheme.
- 6.7 The associated arable margins will also be lost under the proposed scheme which will remove much of the available foraging resource for linnet and yellowhammer at the Site. It is therefore anticipated that the scheme will result in **Minor Adverse** impacts on these two species at the **Local**

level. However, the habitat creation included in the scheme will include areas of similar, and potentially more extensive, grassland/wildflower habitat that could be use by these species.

- 6.8 The main area of scrub and hedgerow associated with the Carr Dike watercourse corridor is to be retained with losses to these habitats largely confined to sections of hedgerow in the north of the Site. As such it is anticipated that the proposals will overall have a **Negligible** to **Minor Adverse** impact on the species utilising these habitats at the **Local** level namely wren, starling, song thrush, mistle thrush, redwing, fieldfare, house sparrow, dunnock, and greenfinch. The habitat creation proposals include a substantial increase in scrub and woodland habitat as well as hedgerow planting that will compensate for the loss of these habitats.
- 6.9 The watercourse is to be retained as part of the scheme and, as such the development is anticipated to have **No Effect** on the populations and status of mallard and moorhen at the Site.

Mitigation for Habitat Loss

- 6.10 The Carr Dike corridor and associated riparian vegetation will be retained and include additional tree and scrub planting. Additionally, much of the vegetation on the Site boundaries is to be retained under the proposed scheme.
- 6.11 Habitat creation under the proposed scheme includes scrub and woodland planting, the creation of six attenuation basins and five smaller cascading basins, and two flood compensation areas. The development will be screened from the north, west and south using embankments planted with grassland and scrub.
- 6.12 The western flood compensation area is to be used to provide mitigation for biodiversity and targeted towards creating habitat suitable for marsh harrier *Circus aeruginosus* with landscaping requirements designed to include features to maintain habitat connectivity to the arable landscape to the north. Further details for the proposals for this area are discussed in the Marsh Harrier Technical Note (FPCR, 2023) which should be read in conjunction with this report. The hedgerows and rough grassland included within this strategy will also provide on-site habitat mitigation for the areas of similar habitats lost as part of the scheme and provide some suitable habitat for skylark.
- 6.13 Management of the woodland and scrub edges to create varied habitat with a range of woody shrub species will have a further **Minor Beneficial** impact on the species that readily utilise dense scrub for roosting and/or foraging during winter including; stock dove, woodpigeon, wren, starling, song thrush, mistle thrush, redwing, fieldfare, house sparrow, dunnock, and greenfinch.
- 6.14 Planting within green infrastructure is recommended to prioritise the provision of native, fruit and seed-bearing species of local origin to provide an foraging resource for a range of bird species especially; song thrush, mistle thrush, redwing, and fieldfare which are heavily reliant on winter berry crops.
- 6.15 Several areas of grassland are to be created as part of the scheme. Areas of grassland subject to more intensive management are suitable for foraging rook and as such will offset some of the detrimental impacts caused to this species by the loss of arable land and in doing so have a Minor Beneficial impact on this species.
- 6.16 Less intensively managed areas (such as the flood compensation areas) are recommended to use a species diverse seed mix of species tolerant to periods of inundation (such as Emorsgate Meadow Mixture for Wetlands EM8 or similar), to create alternative foraging provisions for

grassland birds through the provision of new resources and safe habitat. This will have a **Minor Beneficial** impact for starling, dunnock, house sparrow, greenfinch, linnet, and yellowhammer.

6.17 The attenuation basins, if planted with some emergent and marginal vegetation, will increase the availability of wetland habitats within the Site post-development and provide a **Minor Beneficial** impact for the mallard, moorhen, and black-headed gull.

Disturbance Impacts

6.18 All nesting birds and their nests are protected under the Wildlife and Countryside Act, 1981 (as amended). Construction operations have the potential to disturb birds using the development area of the Site for roosting, foraging, and breeding. Operations likely to disturb breeding birds include; noise and displacement during Site clearance, displacement from vegetation/habitat clearance, initial ground works, and some construction activities. During the breeding season disturbance may lead to nest desertion or the avoidance of the area and reduce the suitability of retained nesting areas, such as the retained habitats including hedgerows or woodland edge. Whilst there is some potential for breeding success to be reduced, this is expected to have a temporary **Minor Adverse** impact on the local conservation status of most of the bird species using the survey area for breeding.

Mitigation for Disturbance

6.19 To avoid disturbance to breeding birds, ground and vegetation clearance works are recommended to be undertaken prior to the bird-breeding season (generally accepted to be March to August, inclusive). If this is not possible, the area will be checked prior to removal of vegetation or ground works by an experienced ecologist with specific advice provided prior to clearance. If active nests are found, vegetation will be left untouched, and a protection zone demarcated within which no works will take place until all birds have fledged and the nest is abandoned. Upon abandonment an experienced ecologist would supervise the clearance of the area...

Enhancements

- 6.20 Wildlife-friendly enhancements are recommended to further improve the ponds/basins and could include planting with native emergent and marginal vegetation, including common reed *Phragmites australis* to establish reed bed habitat. If included this would provide further habitat, plus nesting opportunities for many species including reed bunting *Emberiza schoeniclus* and sedge warbler *Acrocephalus schoenobaenus* not currently present onsite but that will readily colonise newly available habitat. These recommendations would lead to a **Minor Beneficial** to **Moderate Beneficial** impact on the assemblage of birds.
- 6.21 Newly-created, grassland areas could include seed mixes specifically designed to provide foraging resources for birds and be cut after mid-July to allow plants to set seed. The use of fertilisers and pesticides should be avoided. Recommended enhancements to achieve the above are:
 - Areas of native species tussock-forming grassland;
 - Areas of native species-rich wildflower grassland;
 - Areas of tree and hedgerow planting using native species and good landscape planting, to create substantive habitat corridors within and around the Site.

- 6.22 As part of planting for retained and created hedgerows, shrub and scrub planting, consideration should be given to native and fruit/nut-bearing species, including, but not limited to field maple *Acer campestre*, hawthorn *Crataegus monogyna*, dogwood *Cornus sanguinea*, hazel *Corylus avellana*, honeysuckle *Lonicera periclymenum*, blackthorn *Prunus spinosa*, dog-rose *Rosa canina*, elder *Sambucus* nigra and holly *Ilex aquifolium*.
- 6.23 Provision could be made to provide suitable nesting habitat within retained and created scrub/woodland areas for willow tit. Willow tit require specialist nesting habitat, deadwood can be attached to existing trees, decaying logs of birch or willow 10 20cm diameter. Logs can be attached using wire and staples for sturdiness and should measure 1.0 1.5 metres in height, placed just off the ground. Alternatively a small number of suitable retained trees of at least 10-20cm diameter could be "ring barked" to create standing deadwood.

APPENDIX A: BARSLEY ROAD, GOLDTHORPE – 2022 SCOPING WINTERING BIRD SURVEY RESULTS

Species: British Common Name	Species: Latin name	Survey 1 25.02.22	Conservation Status & Protection
Greylag Goose	Anser anser	1 flyover	Amber List WCA Sch.1 (Part II)
Mallard	Anas platyrhynchos	3	Amber List
Pheasant	Phasianus colchicus	2	Not Listed
Red-legged Partridge	Alectoris rufa	28	Not Listed
Stock Dove	Columba oenas	1 flyover	Amber List
Woodpigeon	Columba palumbus	254	Amber List
Black-headed Gull	Chroicocephalus ridibundus	10 flyovers	Amber List
Common Gull	Larus canus	12	Amber List
Herring Gull	Larus argentatus	2 flyovers	Red List NERC S.41
Buzzard	Buteo buteo	2 flyovers	Green List
Magpie	Pica pica	2	Green List
Carrion Crow	Corvus corone	1 flyover	Green List
Blue Tit	Cyanistes caeruleus	3	Green List
Skylark	Alauda arvensis	13	Red List NERC S.41
Long-tailed Tit	Aegithalos caudatus	5	Green List
Wren	Trogolodytes trogolodytes	3	Amber List
Song Thrush	Turdus philomelos	2	Amber List NERC S.41
Redwing	Turdus iliacus	3	Amber List WCA Sch.1
Blackbird	Turdus merula	5	Green List
Robin	Erithacus rubecula	5	Green List
Dunnock	Prunella modularis	2	Amber List NERC S.41
Pied Wagtail	Motacilla alba	21	Green List

Species: British Common Name	Species: Latin name	Survey 1 25.02.22	Conservation Status & Protection
Meadow Pipit	Anthus pratensis	29	Amber List
Chaffinch	Fringilla coelebs	2	Green List
Linnet	Linaria cannabina	25	Red List NERC S.41
Goldfinch	Carduelis carduelis	5	Green List
Yellowhammer	Emberiza citrinella	9 + 1 flyover	Red List NERC S.41
Total No. Species	27	27	

APPENDIX B: BARNSLEY ROAD, GOLDTHORPE – 2022-23 WINTERING BIRD SURVEY RESULTS

Species: British Common Name	Species: Latin name	Survey 1 30.11.22	Survey 2 22.12.22	Survey 3 12.01.23	Survey 4 23.02.23	Conservation Status & Protection
Mallard	Anas platyrhynchos	2		2 flyovers		Amber List
Pheasant	Phasianus colchicus	1				Not Listed
Red-legged Partridge	Alectoris rufa	6		10	8	Not Listed
Feral Pigeon	Columba livia f. domestica	10 flyovers				Not Listed
Stock Dove	Columba oenas	47 + 2 flyovers		50 + 17 flyovers		Amber List
Woodpigeon	Columba palumbus	39 + 1 flyover	135	154 + 1 flyover	368 + 8 flyovers	Amber List
Moorhen	Gallinula chloropus	1			1	Amber List
Lapwing	Vanellus vanellus	1 flyover				Red List NERC S.41
Snipe	Gallinago gallinago	13		1		Amber List
Black-headed Gull	Chroicocephalus ridibundus	10 flyovers	12 + 2 flyovers	75 + 2 flyovers		Amber List
Herring Gull	Larus argentatus	3 flyovers	2 flyovers	1 flyover	1 flyover	Red List NERC S.41
Lesser Black- backed Gull	Larus fuscus	1 flyover		2 flyovers		Amber List
Grey Heron	Ardea cinerea	1 flyover				Green List
Sparrowhawk	Accipiter nisus		1 flyover			Amber List
Buzzard	Buteo buteo	2				Green List
Kestrel	Falco tinnunculus		1 flyover			Amber List
Jay	Garrulus glandarius	2		2	1	Green List
Magpie	Pica pica	8	9	18 + 1 flyover	24	Green List
Jackdaw	Coloeus monedula	55 + 4 flyovers	20	15	1 flyover	Green List
Rook	Corvus frugilegus	60	20	62 + 7 flyovers		Amber List
Carrion Crow	Corvus corone	33	5	16 + 2 flyovers	8 + 7 flyovers	Green List
Blue Tit	Cyanistes caeruleus	3	1	2	4	Green List

Species: British Common Name	Species: Latin name	Survey 1 30.11.22	Survey 2 22.12.22	Survey 3 12.01.23	Survey 4 23.02.23	Conservation Status & Protection
Great Tit	Parus major	1	1		8	Green List
Skylark	Alauda arvensis	99 + 2 flyovers	33	39	16	Red List NERC S.41
Long-tailed Tit	Aegithalos caudatus	9		1		Green List
Goldcrest	Regulus regulus	3				Green List
Wren	Trogolodytes trogolodytes	11		3	10	Amber List
Starling	Sturnus vulgaris	15 + 6 flyovers		80 + 7 flyovers	1	Red List NERC S.41
Song Thrush	Turdus philomelos	2		3	1	Amber List NERC S.41
Mistle Thrush	Turdus viscivorus			4		Red List
Redwing	Turdus iliacus	77		20	33	Amber List WCA Sch.1
Blackbird	Turdus merula	28	6	13	16	Green List
Fieldfare	Turdus piliaris	2	1	76	21	Red List WCA Sch.1
Robin	Erithacus rubecula	14	2	7	18	Green List
House Sparrow	Passer domesticus			3		Red List NERC S.41
Dunnock	Prunella modularis	3		2	7	Amber List NERC S.41
Pied Wagtail	Motacilla alba	3 + 1 flyover		25		Green List
Meadow Pipit	Anthus pratensis	16 + 12 flyovers		34 + 1 flyover	9	Amber List
Chaffinch	Fringilla coelebs	27 + 2 flyovers	1	5	2 flyovers	Green List
Greenfinch	Chloris chloris				1	Red List
Linnet	Linaria cannabina	68 + 63 flyovers	50	526 + 13 flyovers	12	Red List NERC S.41
Goldfinch	Carduelis carduelis	18 + 23 flyovers		20 + 4 flyovers	8 + 2 flyovers	Green List
Yellowhammer	Emberiza citrinella	39	17	66	4	Red List NERC S.41
Total No. Species	43	38	18	32	25	



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Key

Site Boundary

BoCC Red List Species

- LI Linnet
- Skylark
- Y Yellowhammer

BoCC Amber List Species

- BH Black-headed Gull
- D Dunnock
- G] Greylag Goose
- MA Mallard
- MP Meadow Pipit
- **RE** Redwing
- ST Song Thrush
- WP Woodpigeon
- WR Wren
- -----> Fly over only

Additional Protections:

NERC Species of Principal Importance

- Schedule 1 Species
- LBAP Species (underlined)



Newlands Developments

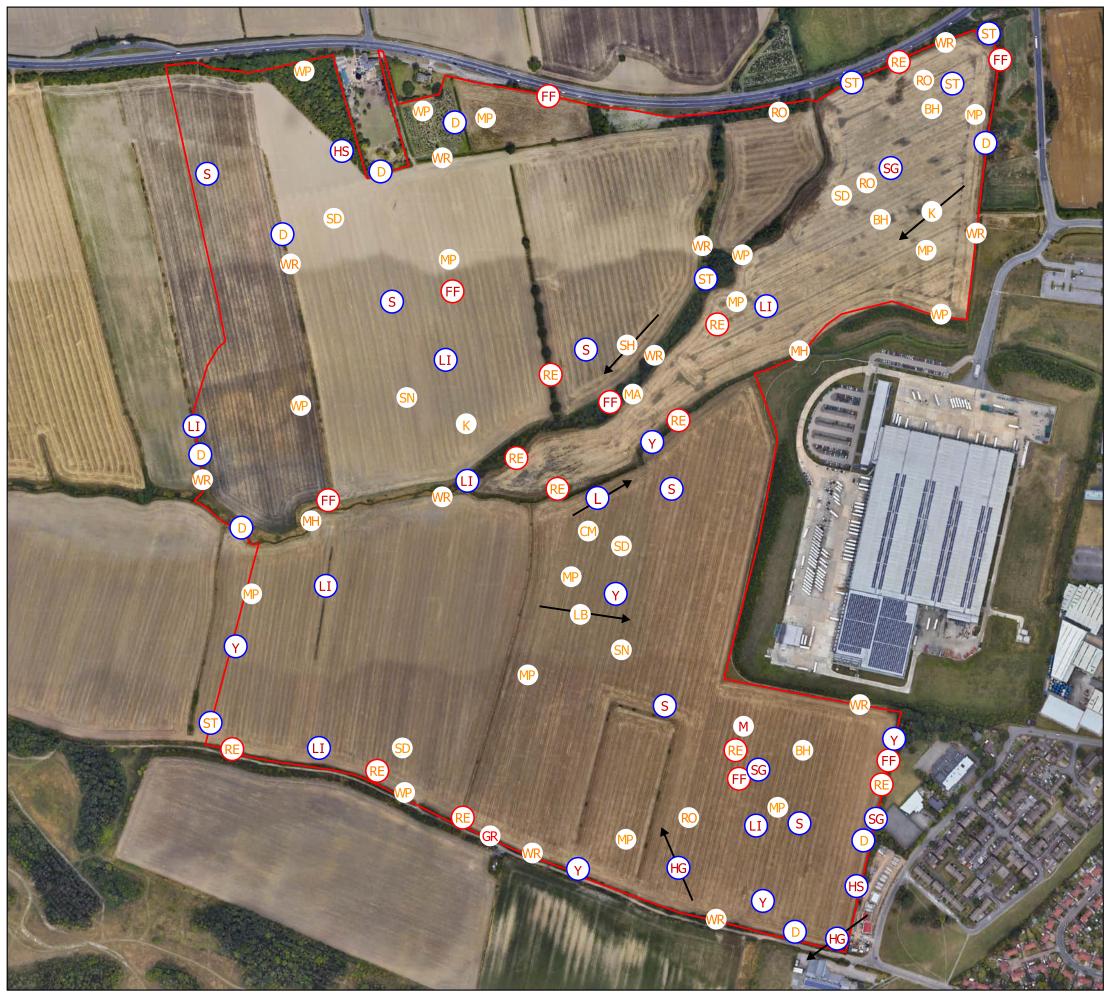
Project
Land off Barnsley Road,
Goldthorpe

drawing title
2022 SCOPING WBS RESULTS PLAN DISTRIBUTION OF NOTABLE SPECIES

Scale @ A3
IS,5000

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OBF / EOM / MJF
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SIJ(3/2023)

drawing / figure number Figure 1 rev



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Key

Site Boundary

BoCC Red List Species

- FF Fieldfare
- HG Herring Gull
- **HS** House Sparrow
- L Lapwing
- LI Linnet
- Mistle Thrush
- Skylark
- SG Starling
- Y Yellowhammer
- GR Greenfinch

BoCC Amber List Species

- BH Black-headed Gull
- CM Common Gull
- D Dunnock
- Kestrel
- LB Lesser Black-backed Gull
- MA Mallard
- MP Meadow Pipit
- SN Snipe
- SD Stock Dove
- MH Moorhen
- **RE** Redwing
- RO Rook
- ST Song Thrush
- SH Sparrowhawk
- WP Woodpigeon
- WR Wren



 project

 Land off Barnsley Road,

 Goldthorpe

 drawing title

 2022-23 FULL WBS RESULTS PLAN

 DISTRIBUTION OF NOTABLE SPECIES

 scale @ A3 1:5,000

 drawn OJB / EOM / MJF

 sisue date 31/3/2023

Newlands Developments

Figure 2



NERC Species of Principal Importance

Schedule 1 Species

LBAP Species (underlined)