

EASTLEIGH BOROUGH COUNCIL

Horton Heath

Appendix 10.8: Birds

1 NON-TECHNICAL SUMMARY

Johns Associates have carried out breeding bird surveys across the wider Horton Heath Site in 2020 recorded a total of 25 species including the following notable species:

- Barn Owl (Breeding)
- Skylark (non-breeding)
- House Sparrow (Breeding)
- Song Thrush (Breeding)
- Linnet (possible breeding)
- Starling (Breeding)
- Mistle Thrush (probable breeding - off site)

Species previously recorded but absent in 2020:

- Kingfisher (non-breeding record)

Historic surveys carried out by Ecologica Ltd showed a very low level of breeding bird activity throughout the site for notable species.

2 INTRODUCTION

This report presents the results breeding bird surveys undertaken in 2020 by Johns Associates in support of the development proposals and planning application at Horton Heath. It also provides a summary of historic surveys for bird surveys carried out at Horton Heath since 2014.

The aim of the surveys was to update the historic baseline and to confirm the presence or absence of important bird species within the Site and to identify any constraints to development and opportunities that could be delivered through the development proposals.

3 METHODOLOGY

3.1 DESK STUDY

Information provided by the Hampshire Biodiversity Information Centre and from previous surveys conducted by Ecologica Associates Ltd was reviewed for previous records of breeding bird on the Site.

3.2 FIELD SURVEYS

3.2.1 Breeding Bird Surveys

The breeding bird surveys were undertaken by Ben Mitchell BSc (Hons) MCIEEM, an experienced and competent ornithologist.

The Site was assessed as providing habitat of high suitability for nesting birds. Surveys were spaced evenly between the months of May and mid-June and were undertaken by experienced ornithologist Ben Mitchell BSc (Hons) MCIEEM following the standard BBS methodology¹. Survey event details are summarised in Table 3.1. Surveys were started within 2 hours of sunrise, in suitable weather conditions where possible. A transect covering all areas of suitable habitat within the Site was walked at a slow pace in an alternating direction between survey visits. Birds were identified visually using binoculars and identified through song. All singing and non-sing birds, and birds carrying food or nesting material, were recorded using standard BTO registrations. Records during each visit were marked upon separate maps, and then records for each species were combined upon a single map to allow identification of habitat areas used by individual bird species and to allow estimation of the number of bird territories.

¹ Gilbert,G et al (1998). Bird Monitoring Methods: A manual of techniques for key UK species.

Table 3.1 Breeding Bird Survey Methodology Detail

Date	Transect Route	Direction	Weather
29.04.20	South	Clockwise	13°C start of survey, 15°C end of survey Periods of rain and dry weather 8mph NW wind Full cloud cover
01.05.20	North	Clockwise	10°C start of survey, 15°C end of survey Dry 2mph W wind Partial cloud
12.05.20	South	Anticlockwise	11°C start of survey, 17°C end of survey Dry 6mph SW wind Light low lying fog
15.05.20	North	Anticlockwise	10°C start of survey, 15°C end of survey Dry 10mph SW wind Partial cloud
02.06.20	South	Clockwise	11°C start of survey, 16°C end of survey Dry 6mph NE wind Clear
04.06.20	North	Clockwise	11°C start of survey, 18°C end of survey Dry 3mph SW wind Clear

3.2.2 Barn Owl Surveys

The barn owl surveys were undertaken by Ben Mitchell BSc(Hons) MCIEEM on the following dates following survey methodologies devised by the RSPB² and the Barn Owl Trust³:

² Gilbert, G et al (1998). Bird Monitoring Methods: A manual of techniques for key UK species.

³ Barn Owl Trust (2012). Barn Owl Conservation Handbook: A comprehensive guide for ecologists, surveyors, land managers and ornithologists.

Date	Survey Type	
29.04.20	Potential Roost Site Scoping Survey	15°C start of survey, 16°C end of survey Periods of rain and dry weather 8mph NW wind Full cloud cover
01.05.20	Barn Owl Box Inspection	16°C start of survey, 17°C end of survey Dry 2mph W wind Partial cloud
15.05.20	Update roost inspection (Chalcroft)	15°C start of survey, 17°C end of survey Dry 10mph SW wind Partial cloud
22.06.20	Vantage Point Survey (Chalcroft)	18°C start of survey, 15°C end of survey Dry 1mph SW wind Partial cloud
08.07.20	Vantage Point Survey (Fir Tree Farm)	18°C start of survey, 15°C end of survey Dry 1mph SW wind Partial cloud

3.2.3 LIMITATIONS

Access to certain sections of the site were not possible due to the presence of livestock. Surveys of the fields containing livestock were completed from the field boundaries. This is not considered to have constrained the survey.

4 RESULTS

4.1 DESK STUDY AND HISTORIC SURVEYS

Table 4.1 below summarises the notable species that have been recorded within 2km of the Site boundary (data obtained from HBIC). Species of interest are highlighted and discussed in detail .

Table 4.1. Protected and notable species recorded within 2km of the Site boundary

Latin name	Common name	Status									Location	Number of records between 2010 – 2020 & distance from site
		WCA ⁴	Habs Regs ⁵	SoP ⁶	NR ⁷	NS ⁸	IUCN list ⁹	Red-listed ¹⁰	Amber-listed ¹¹	Local interest ¹²		
<i>Alauda arvensis</i>	Skylark			X				X		HBAP	SU493164	9 records in total. 1 record On site on 2012
<i>Alcedo atthis</i>	Kingfisher	Schd1							X		SU470170	22 records in total. Closest record (off site), - Has been recorded on site.
<i>Ardea cinerea</i>	Grey heron									County Scarce	SU618	3 records in total. Closest record (off site) will likely be using site.
<i>Milvus Milvus</i>	Red kite	X		X						HBAP / County Rare	SU4916	47 records in total. On site
<i>Motacilla cinerea</i>	Grey wagtail							X			SU4818	17 records in total. Closest DS record (off site) – Has been seen on site.
<i>Sturnus vulgaris</i>	Starling							X			SU4916	15 records in total. On site
<i>Turdus iliacus</i>	Redwing	Schd 1						X			SU4816	27 records in total. On site
<i>Turdus philomelos</i>	Song thrush							X		HBAP	SU486171	20 records in total. On site
<i>Turdus viscivorus</i>	Mistle thrush							X			SU485163	15 records in total. On site
<i>Tyto alba</i>	Barn owl	Schd 1									SU492188	12 records in total. Closest record 450m south of site – Has been recorded on site.
<i>Gallinago gallinago</i>	Snipe								X	HBAP, County scarce	SU477163	9 records in total. Closest record 450m south of site - Has been recorded on site.
<i>Linaria cannabina</i>	Linnet							X		HBAP	SU477163	5 recorded in total. Closest record 450m south of site - Has been recorded using the site

⁴ Listed on Schedules 1, 5 or 8 of the Wildlife and Countryside Act (1981) (as amended)

⁵ Listed on Schedule 2 of the Conservation of Habitats and Species Regulations (2017)

⁶ Listed as a Species of Principal Importance in England under s41 of the Natural Environment and Rural Communities (NERC) Act (2006)

⁷ Nationally rare: Occurring in 15 or fewer hectads in Great Britain.

⁸ Nationally scarce: Taxa which are recorded in 16-100 hectads in Great Britain.

⁹ IUCN Red List. Taxa are: CE - a taxon is Critically Endangered when it is facing an extremely high risk of extinction in the wild in the immediate future; E - A taxon is Endangered when the best available evidence indicates that it meets any of the criteria A to E for Endangered, and it is therefore considered to be facing a very high risk of extinction in the wild; V - A taxon is Vulnerable when the best available evidence indicates that it meets any of the criteria A to E for Vulnerable, and it is therefore considered to be facing a high risk of extinction in the wild; NT - A taxon is Near Threatened when it has been evaluated against the criteria but does not qualify for Critically Endangered, Endangered or Vulnerable now, but is close to qualifying for or is likely to qualify for a threatened category in the near future. In Britain, this category includes species which occur in 15 or fewer hectads but do not qualify as Critically Endangered, Endangered or Vulnerable.

¹⁰ Bird species on the Red List of Birds of Conservation Concern [Easton, M. A., Aebischer, N. J., Brown, A. F., Hearn, R. D., Lock, L., Musgove, A. J., Noble, D. G., Stroud, D. A., and Gregory, R. D. (2015). Birds of Conservation Concern 4: the population status of birds in the United Kingdom, Channel Islands and Isle of Man. *British Birds* 108, 708-746]

¹¹ Bird species on the Amber List of Birds of Conservation Concern (Easton et al, 2015)

¹² Of local interest e.g. listed in a County Red Book or as a priority species within the local Biodiversity Action Plan (BAP)

Latin name	Common name	Status									Location	Number of records between 2010 – 2020 & distance from site
		WCA ⁴	Habs Regs ⁵	SOP ⁶	NR ⁷	NS ⁸	IUCN list ⁹	Red-listed ¹⁰	Amber-listed ¹¹	Local interest ¹²		
<i>Motacilla flava</i>	Yellow wagtail							X		HBAP, County rare	SU477163	16 records in total. Closest record 450m south of site. Possibility of it being present on site.
<i>Emberiza citrinella</i>	Yellowhammer			X				X			SU5016	7 records in total. Closest record 600m east of site - Likely to be present on site.
<i>Ficedula hypoleuca</i>	Pied flycatcher							X		County rare	SU477163	7 records in total. Closest record 450m south of site. Possibility of it being present on site
<i>Larus argentatus</i>	Herring gull							X		County rare	SU467182	8 records in total. Closest record 2km off site. Has been recorded on site
<i>Larus fuscus</i>	Lesser black-backed gull							X		County rare	SU477163	12 records in total. Closest record 450m south of site. Has been recorded on site.
<i>Chroicocephalus ridibundus</i>	Black-headed gull							X		Country rare	SU5016	5 records in total. Closest record 450m south of site - Has been recorded on site
<i>Regulus ignicapilla</i>	Firecrest	Schd 1								HBAP, County scarce	SU477163	41 records in total. Closest record 450m south of site – Possibility of it being present on site.
<i>Emberiza schoeniclus</i>	Reed bunting			X					X	HBAP	SU477163	16 records in total. Closest record 450m south of site. Likely to be present on site.
<i>Cuculus canorus</i>	Cuckoo			X				X			SU4917	23 records in total. On site
<i>Acanthis cabaret</i>	Lesser redpoll			X				X			SU477163	14 records in total. Closest record 450m south of site – Possibility of it being present on site.
<i>Fingilla montifringilla</i>	Brambling			X							SU477163	8 records in total. Closest record 450m south of site – Possibility of it being present on site in winter.
<i>Anthus trivialis</i>	Tree pipit			X				X			SU477163	6 records in total. Closest record 450m south of site
<i>Falco columbarius</i>	Merlin	Schd 1						X		HBAP	SU477163	6 records in total. Closest record 450m south of site. Annex 1 Species on the birds directive
<i>Larus melanocephalus</i>	Mediterranean gull	Schd 1								HBAP, County rare	SU477163	20 records in total. Closest record 450m south of site – Possibility of it being present on site. Annex 1 Species on the birds directive
<i>Numenius arquata</i>	Curlew			X				X			SU4717	3 records in total. Closest record 1km west of site – Possibility of being on site.
<i>Vanellus vanellus</i>	Lapwing			X				X		HBAP	SU477163	14 records in total. Closest record 450m south of site – Possibility of being on site.
<i>Pluvialis apricaria</i>	Golden plover									HBAP	SU477163	6 records in total. Closest record 450m south of site. Possibility of being on site. Annex 1 Species on the birds directive
<i>Pheonicurus ochruros</i>	Black redstart	Schd 1						X		County rare	SU477163	5 records in total. Closest record 450m south of site.
<i>Phoenicurus phoenicurus</i>	Redstart								X	County Interest	SU477163	13 records in total. Closest record 450m south of site.
<i>Phylloscopus sibilatrix</i>	Wood warbler			X				X		County interest	SU4719	1 record in total. Closest record 2km north west of site.
<i>Saxicola rubetra</i>	Whinchat							X		HBAP, County rare	SU477163	10 records in total. Closest record 450m south of site.
<i>Scolopax rusticola</i>	Woodcock							X			SU477163	16 records in total. Closest record 450m south of site – Possibly using the site.

Latin name	Common name	Status									Location	Number of records between 2010 – 2020 & distance from site
		WCA ⁴	Habs Regs ⁵	SOP ⁶	NR ⁷	NS ⁸	IUCN list ⁹	Red-listed ¹⁰	Amber-listed ¹¹	Local interest ¹²		
<i>Spinus spinus</i>	Siskin									County interest	SU477163	24 records in total. Closest record 450m south west of site – Likely to be on site
<i>Turdus pilaris</i>	Fieldfare			X				X			SU477163	20 records in total. Closest record 450m south of site – Likely to be using the site in winter
<i>Riparia riparia</i>	Sand martin									County scarce	SU477163	10 records in total. Closest record 450m south of site.
<i>Poecile palustris</i>	Marsh tit							X			SU501184	12 records in total. Closest record 2km north west of site – Possibility of being on site.
<i>Falco subbuteo</i>	Hobby	Schd 1								HBAP	SU41 - Sensitive	15 records in total. Possible that it is using the site.
<i>Passer domesticus</i>	House sparrow			X				X			SU4818	10 records in total. Closest record - 380m north west of site. Likely to be on site.

4.1.1 Historic Surveys On Site

Breeding, wintering and specific barn owl surveys were carried out by Ecologica Ltd to inform the previous applications on this site in 2014 and 2015 respectively. No records of barn owl were identified.

Table 4.2 Historic Breeding Bird Survey - Full application boundary

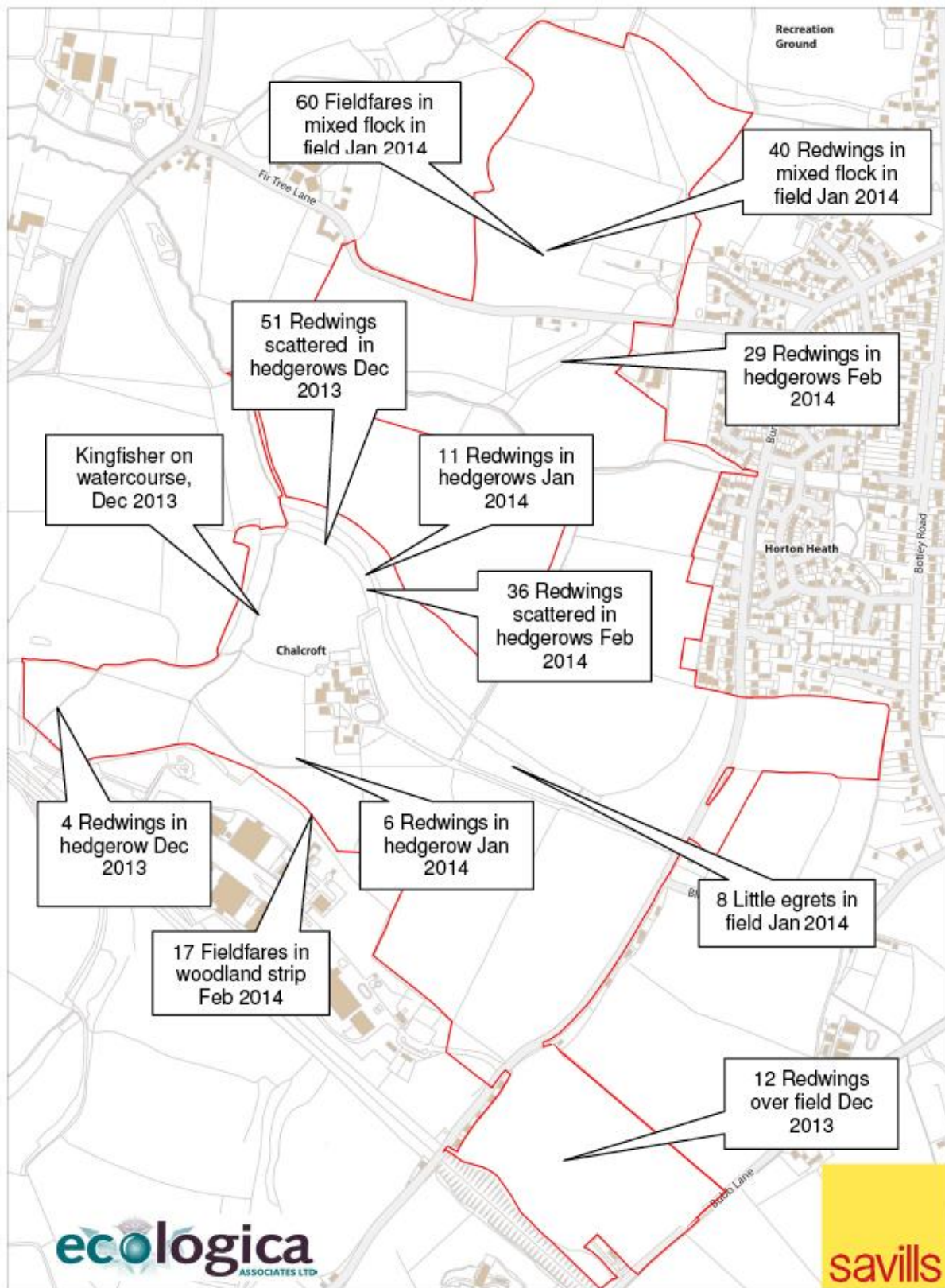
Species	Months Observed			Max No	Observation Notes
	Apr	May	Jun		
NERC & UKBAP Species					
Herring Gull			5	5	Two singles and one group of 3, passing high over the site
Skylark	3		2	3	Three singles in April: two east of Chalcroft & one south of Foxholes Farms. Two singles June, one south-east of Chalcroft, one in new road field in south-east corner of site
Cuckoo		1		1	Single bird in north-west corner of site
Song Thrush	5	8	16	16	Thinly scattered across the site in singles and pairs, with flock of 5 in June
Starling	29	137	24	137	Individuals, pairs & small groups scattered across the site, with clusters around Chalcroft Farm and west of Foxholes Farm: flocks forming from May, with groups of 25, 25 & 17
House Sparrow	33	49	14	49	Small groups scattered across the site, particularly around Foxholes and Chalcroft Farm buildings.
Reed Bunting			2	2	Pair in hedge NW of Chalcroft Farm
Duncock	34	25	29	34	Widely spread in hedgerows across the site, mainly in singles and pairs

Table 4.3 Historic Breeding Bird Survey - NW Area of the site only

SPECIES	MONTHS OBSERVED			MEAN NO	OBSERVATION NOTES
	Apr	May	Jun		
NERC & UKBAP Species					
Herring Gull	1			<1	Single passing high over the site
Cuckoo		1		<1	Single calling from woodland block
Song Thrush	6	8	6	7	Mainly singles scattered across site
Starling	8	39	8	18	Individuals, pairs & small groups scattered across the site, with clusters around farm buildings
House Sparrow	20	17	33	23	Concentrated around farm buildings and houses, with 7 occupied nests in SW barn
Dunnock	11	11	15	12	Singles and pairs scattered in hedgerows across site and woodland

BOCC Amber Listed Species					
Mallard	3			1	Pair and single flying on SW boundary
House Martin		5	14	6	Circling around buildings & fields nearby, plus twelve apparently recent nests under eaves of Fir Tree Old Farmhouse, with birds arriving and departing

Figure 1 Historic Wintering Bird Survey - Full application boundary



4.2 FIELD SURVEYS

4.2.1 Breeding Bird Surveys

25 bird species were observed during all breeding bird surveys within the Site, with the number of species recorded increasing as survey visits increased. Species recorded are listed in Table 4.4. Summary analysis of estimated territories is shown in Figure 2 and Figure 4

Table 4.4 Breeding Bird Survey 2020 - Total Registrations - All Species

Species	Latin Name	Registrations
Barn Owl	<i>Tyto alba</i>	2
Blackbird	<i>Turdus merula</i>	25
Blackcap	<i>Sylvia atricapilla</i>	38
Blue Tit	<i>Cyanistes caeruleus</i>	27
Chaffinch	<i>Fringilla coelebs</i>	21
Chiffchaff	<i>Phylloscopus collybita</i>	21
Cormorant	<i>Phalacrocorax carbo</i>	2
Dunnock	<i>Prunella modularis</i>	9
Golden Pheasant	<i>Chrysolophus pictus</i>	1
Goldfinch	<i>Carduelis carduelis</i>	3
Great Spotted Woodpecker	<i>Dendrocopos major</i>	1
Great Tit	<i>Parus major</i>	17
Greenfinch	<i>Chloris chloris</i>	4
House Martin	<i>Delichon urbicum</i>	2
House Sparrow	<i>Passer domesticus</i>	9
Jackdaw	<i>Coloeus monedula</i>	3
Linnet	<i>Linaria cannabina</i>	3
Little Owl	<i>Athene noctua</i>	1
Long-tailed Tit	<i>Aegithalos caudatus</i>	3
Mallard	<i>Anas platyrhynchos</i>	2
Marsh Tit	<i>Poecile palustris</i>	1
Mistle Thrush	<i>Turdus viscivorus</i>	1
Moorhen	<i>Gallinula chloropus</i>	2
Nuthatch	<i>Sitta europaea</i>	2
Redshank	<i>Tringa totanus</i>	1
Robin	<i>Erithacus rubecula</i>	61
Skylark	<i>Alauda arvensis</i>	13
Snowy Owl	<i>Bubo scandiacus</i>	11
Starling	<i>Sturnus vulgaris</i>	9
Stock Dove	<i>Columba oenas</i>	1
Whitethroat	<i>Sylvia communis</i>	12
Woodpigeon	<i>Columba palumbus</i>	9
Wren	<i>Troglodytes troglodytes</i>	73
Grand Total		390

4.2.2 Territory Assessment

The data has been subject to an assessment to estimate the number of breeding territories present on site following the BBS/CBC methodology to identify cluster of registrations over multiple visits. This assessment is complex and subject to a number of variables including habitat quality and seasonal variation. The estimated territory sizes are primarily based on behavioural observations over the three visits and an appropriate extent of suitable nesting habitat rather than the precise extent of the habitats used by any given pair. The size and location of these territories will also vary significantly between breeding seasons and, as such this assessment

is correct as of the breeding season 2020 and is not a substitute for any pre-construction diligence in terms of additional surveying or protecting nesting birds.

Where singing males have only been recorded on one occasion only in a given area, these have been included in the territory analysis on a precautionary basis.

Records of very common and ubiquitous bird species (robin, wren, blackbird, carrion crow, blue tit & great tit) were captured but have been excluded from the detailed assessment on the basis that they are common, ubiquitous species that display generalist requirements and are therefore unlikely to be affected by the scheme.

Table 4.5 Breeding Bird Surveys - Summary Results – Notable Species

Common Name	Latin Name	Total Registrations	Estimated Territories	Confirmed Nests	Assessment
Blackcap	<i>Sylvia atricapilla</i>	37	18		Blackcap are a dominant feature of the breeding bird assemblage, with a wide distribution throughout the site, with a preference for mature field boundaries and woodland.
Barn Owl	<i>Tyto alba</i>	2	2	1	The barn owl surveys identified an active barn owl nest within the nest box within the parkland south of Chalcroft Farm with a roost used by at least one adult within the stables building on the southern edge of the farm complex. No barn owl activity was observed in the north of the site. All potential roost and nest sites were surveyed, and no activity was recorded. Given that the home range for this species can be between 350 (summer) to 5000 ha (winter), the survey results indicate that the site is likely to support one breeding pair. The pair in the nest box bred successfully in 2020 fledging 3-4 chicks.
Chiffchaff	<i>Phylloscopus collybita</i>	21	13		Chiffchaff are also dominant feature of the breeding bird assemblage, with a wide distribution throughout the site, with a preference for mature field boundaries and woodland. This is typical as they are a widespread, loud and easily identifiable species.
Chaffinch	<i>Fringilla coelebs</i>	21	14		Chaffinch are also distributed across the site, relying primarily on mature hedgeorws.
Dunnock	<i>Prunella modularis</i>	7	7		An estimated 7 dunnock breeding territories were observed at low density within the Site, singing upon hedgerow perches.
Goldfinch	<i>Carduelis carduelis</i>	4	2		Records across the site are sparse with activity observed occasionally. A slight increase in activity observed along Quobleigh stream.

Greenfinch	<i>Chloris chloris</i>	4	3		Localised on site and largely contained to the Quobleigh stream area.
House Martin	<i>Delichon urbicum</i>	5	5	5	A total of 5 house martin nests were recorded on site with associated nest construction and mud gathering behavior. These were limited to the established Fir Tree Farmhouse colony.
House Sparrow	<i>Passer domesticus</i>	9	9	7	Seven house sparrow nests were recorded in 2020 clustered around Chalcroft Farm and the unoccupied Fir Tree Farm. Additional activity was observed associated with the gardens and properties immediately adjacent to the site on the eastern boundary.
Jackdaw	<i>Coloeus monedula</i>	3	2	2	A small colony of jackdaws was present through the surveys, nesting in tree cavities immediately south west of Quobleigh Wood, along the stream corridor. Juvenile birds were observed in June confirming breeding on site.
Linnet	<i>Linaria cannabina</i>	2	1		One singing male was observed on two occasions singing from the hedgerow immediately to the north of the Chalcroft Farm track. A subsequent record of a pair with two juveniles in this area could indicate breeding but a direct link between these records, and therefore breeding on site, is uncertain. The habitats in these areas are considered suitable nesting habitat for this species.
Long-tailed Tit	<i>Aegithalos caudatus</i>	4	1		A small (assumed family) flock of long tailed tits were observed. The breeding status of this species on site is unknown.
Mistle Thrush	<i>Turdus viscivorus</i>	2	1		A pair of mistle thrush were observed in the large dead oak tree in the south west of the site, flying into the Chalcroft distribution Park woodland on two separate visits in April and June. This pair is assumed to be breeding within this woodland.
Moorhen	<i>Gallinula chloropus</i>	2	1	1	A single pair bred successfully on Chalcroft pond.
Nuthatch	<i>Sitta europaea</i>	2	2		Nuthatch were recorded in two locations within mature woodland areas adjacent to the site boundaries in the west and far northeast.

Rook	<i>Corvus frugilegus</i>	1	1		A rookery is present in the mature ash trees immediately north east of the Chalcroft Farm complex.
Skylark	<i>Alauda arvensis</i>	4	2		One singing male was observed in the areas both north and south of the Chalcroft farm track. A possible pair was observed in this area during the second survey visits but these were absent during the third visit and are unlikely to have bred in this area in 2020.
Starling	<i>Sturnus vulgaris</i>	9	5	4	Activity was dispersed over the site with multiple records of foraging and singing adults. Four nests were confirmed (2 within holes in telegraph poles) with a number of foraging sorties observed with adult birds returning to nests within the adjacent Horton Heath residential areas. Additional observations in late summer/autumn recorded small post breeding flocks of adults and juvenile birds with the largest group comprising 20 birds. No large murmurations or aggregations of this species have been recorded on site through the suite of 2018-2020 surveys delivered on site for multiple species.
Song Thrush	<i>Turdus philomelos</i>	11	3	1	Three singing males were recorded on site with one confirmed nest identified in a hedgerow just north of Quobleigh stream containing 4 chicks.
Whitethroat	<i>Sylvia communis</i>	12	9		Associated with hedgerows. Likely breeding given close proximity of multiple records.

4.2.3 Notable absences from historic surveys

4.2.3.1 Kingfisher

No kingfisher were recorded on site despite numerous surveys across the site throughout the summer along the watercourses. A notable lack of suitable breeding habitat was also noted on or adjacent to the site. The previous record was of a single wintering bird and this is considered to be the likely extent of the usage of this site for dispersal or young birds by this species given the suboptimal nature of the habitat. Confidence in the absence of breeding kingfisher is high.

4.2.3.2 Firecrest

A challenging species to identify. Given the historic record nearby, particular attention was given to woodland habitat areas with a focus on identifying this species. No evidence of the common cryptic species, goldcrest, were identified during the surveys either. The confidence in this assessment is moderate.

4.2.3.3 Anecdotal records

Red Kite

One observation was reported of a Red kite over the western site boundary. No records during formal surveys

Kestrel

A record of breeding kestrel in a mature oak tree immediately north of Foxholes Cottages was reported by tenant. This was investigated during each survey in 2020 in the vicinity with no individuals observed on site.

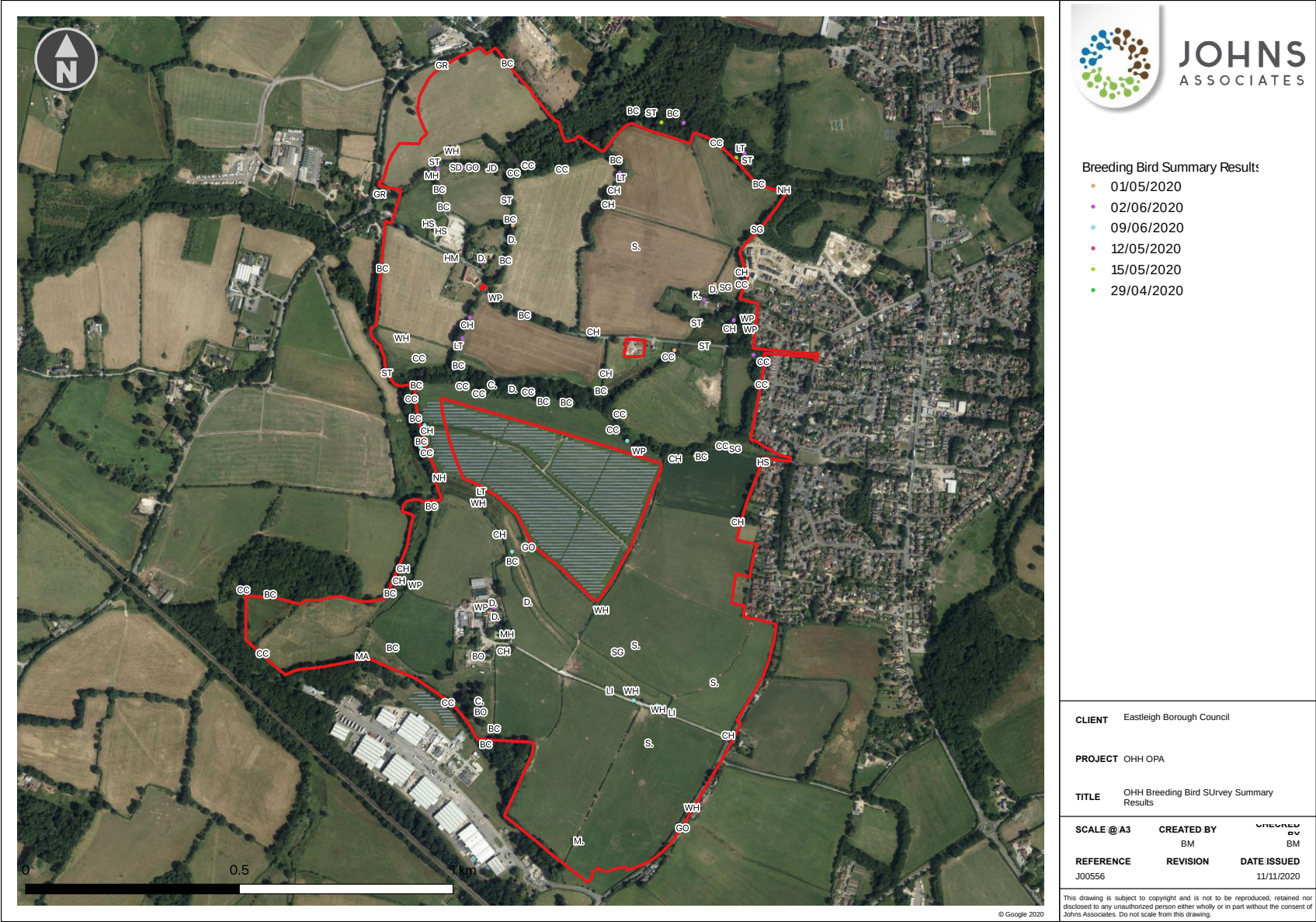
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Figure 2 Breeding Bird Survey 2020 - Summary Results - All Species



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Legend:

- BC
- BO
- C.
- CC
- CH
- D.
- GO
- GR
- GT
- HM
- HS
- LI
- M.
- MH
- NH
- RO
- S.
- SG
- ST
- WH

Map Details:

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- PROJECT:** OHH
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- CREATED BY:** BM
- CHECKED BY:** BM
- REFERENCE:** J00556 - BBS
- REVISION:**
- DATE ISSUED:** 23/11/2020

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