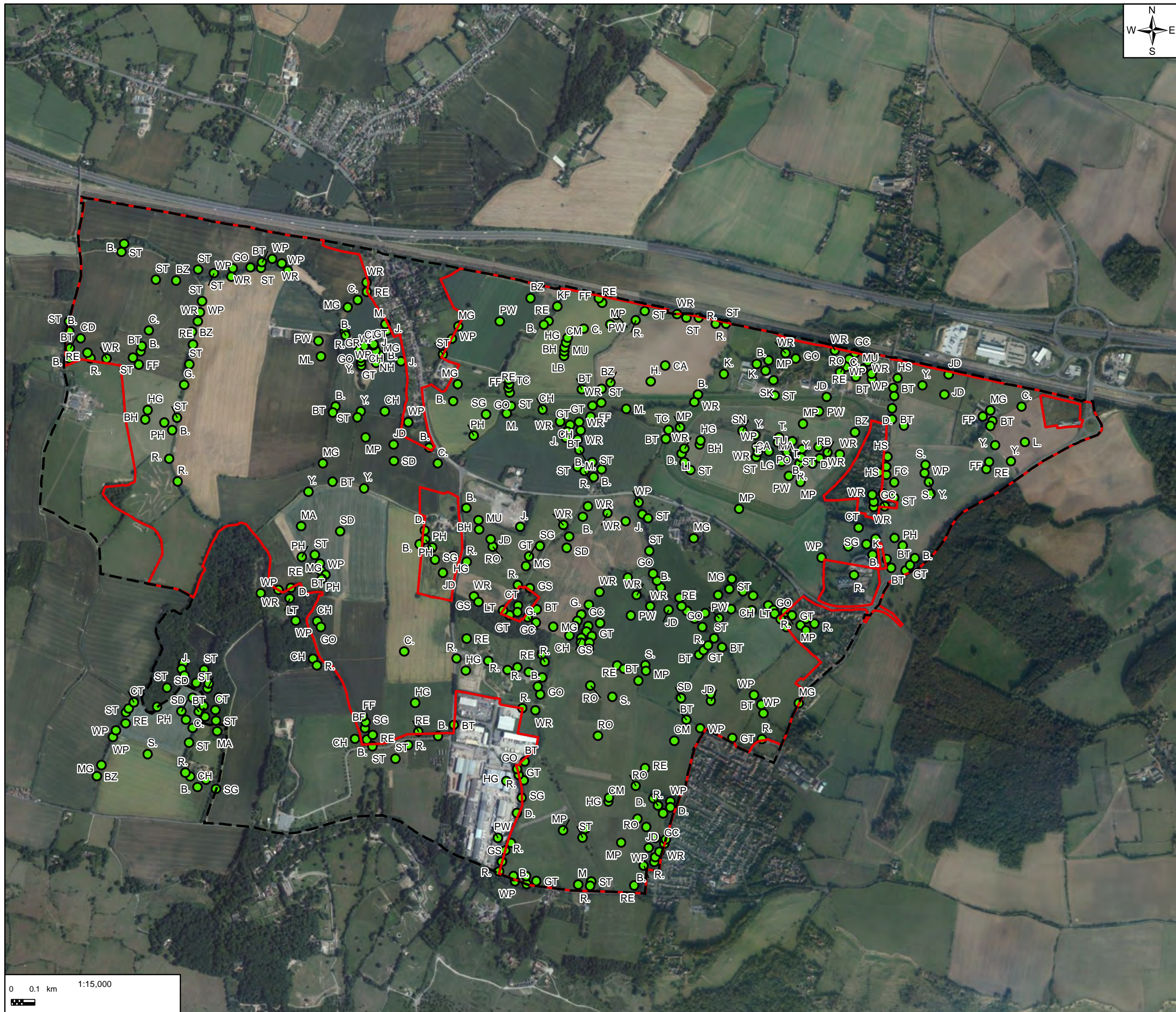


## **Figure 7: Results from 2020 Wintering Bird Survey**

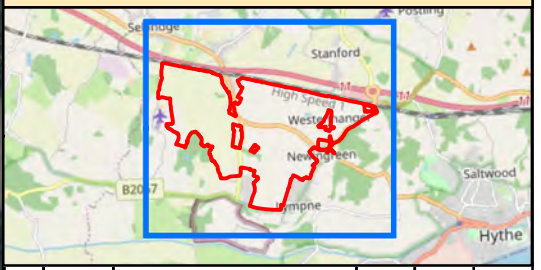




**Legend**

- Outline Planning Application
- Framework Masterplan Boundary
- Bird species with BTO species code**
- Bird species with BTO species code

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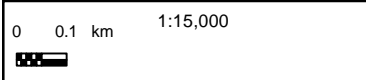


REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

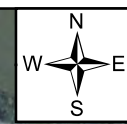
**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 1 of 20



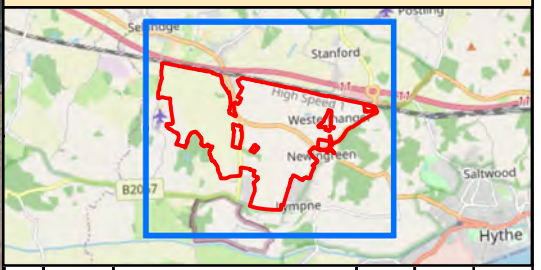
scale	original size	datum	grid
1:15,000	A3	Sx	BNG





- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
  - Bird species with BTO species code**
  - Bird species with BTO species code

Layer Credits: Contains Ordnance Survey data © Crown copyright 2021 OS 0100031673

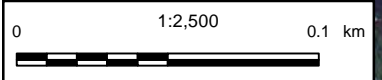


REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

  
**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 2 of 20



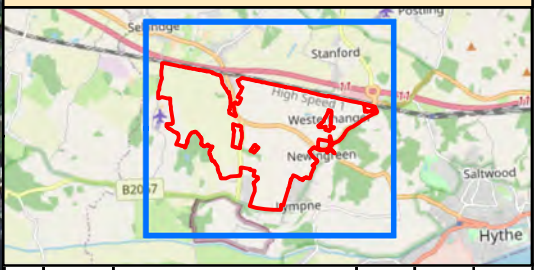
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- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
  - Bird species with BTO species code**
  - Bird species with BTO species code

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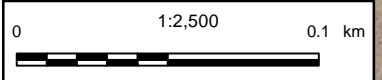


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01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 3 of 20



scale	original size	datum	grid
1:2,500	A3	Sx	BNG

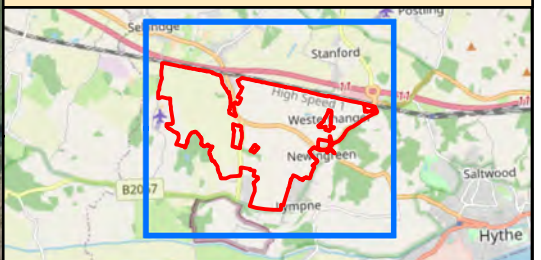




**Legend**

- Outline Planning Application
- Framework Masterplan Boundary
- Bird species with BTO species code**
- Bird species with BTO species code

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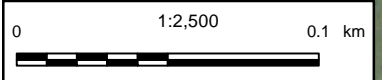


REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80 Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

  
**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 4 of 20



scale	original size	datum	grid
1:2,500	A3	Sx	BNG





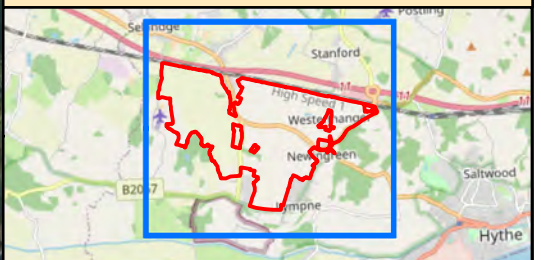
**Legend**

- Outline Planning Application
- Framework Masterplan Boundary

**Bird species with BTO species code**

- Bird species with BTO species code

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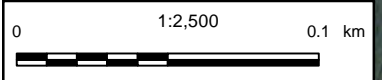
REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**

80Fen  
80 Fenchurch Street  
London  
EC3M 4BY

**OTTERPOOL PARK**  
COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
Results from the December 2020 wintering bird survey  
Page 5 of 20



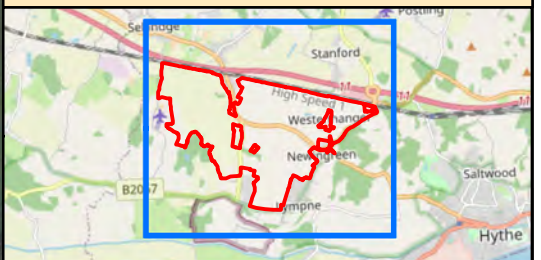
scale	original size	datum	grid
1:2,500	A3	Sx	BNG





- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
  - Bird species with BTO species code**
  - Bird species with BTO species code

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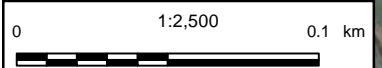


REV	Date	Description	Drawn	Check	Approv
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**ARCADIS**  
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 80 Fenchurch Street  
 London  
 EC3M 4BY

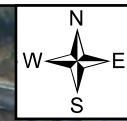
  
**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 6 of 20



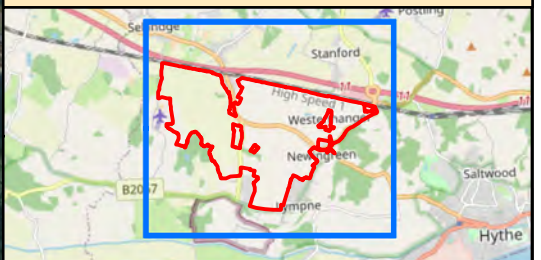
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1:2,500	A3	Sx	BNG





- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
  - Bird species with BTO species code**
  - Bird species with BTO species code

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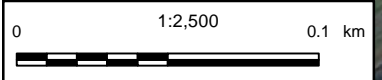


REV	Date	Description	Drawn	Check	Approv
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01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

  
**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 7 of 20



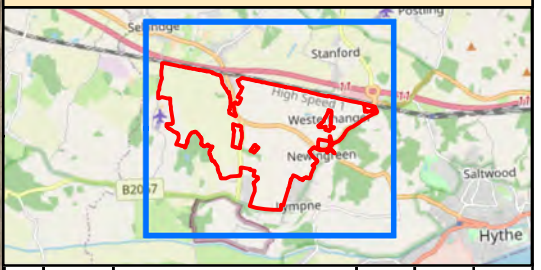
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- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
  - Bird species with BTO species code**
  - Bird species with BTO species code

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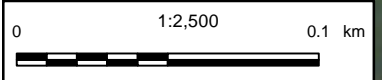


REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
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 80 Fenchurch Street  
 London  
 EC3M 4BY

  
**OTTERPOOL PARK**  
 COUNTRYSIDE • CONNECTED • CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 8 of 20



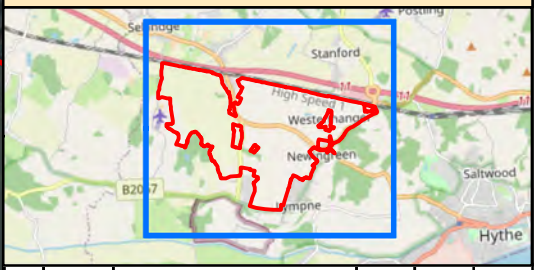
scale	original size	datum	grid
1:2,500	A3	Sx	BNG





- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
  - Bird species with BTO species code**
  - Bird species with BTO species code

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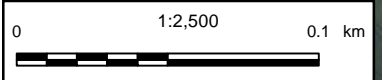


REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 9 of 20



scale	original size	datum	grid
1:2,500	A3	Sx	BNG





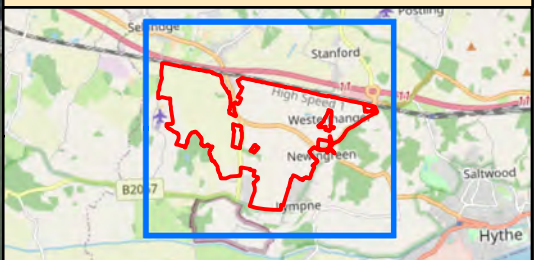
**Legend**

- Outline Planning Application
- Framework Masterplan Boundary

**Bird species with BTO species code**

- Bird species with BTO species code

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REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

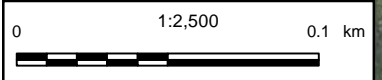
**ARCADIS**

80Fen  
80 Fenchurch Street  
London  
EC3M 4BY

**OTTERPOOL PARK**

COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
Results from the December 2020 wintering bird survey  
Page 10 of 20



scale	original size	datum	grid
1:2,500	A3	Sx	BNG





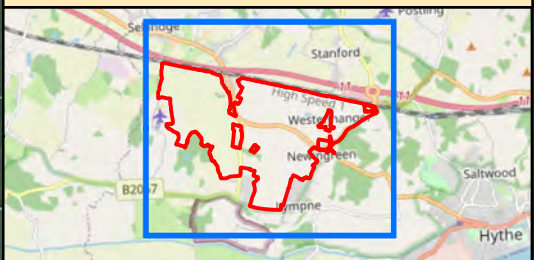
**Legend**

- Outline Planning Application
- Framework Masterplan Boundary

**Bird species with BTO species code**

- Bird species with BTO species code

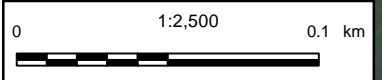
Layer Credits: Contains Ordnance Survey data © Crown copyright 2021 OS 0100031673



REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

80Fen  
80 Fenchurch Street  
London  
EC3M 4BY

**Figure 7**  
Results from the December 2020 wintering bird survey  
Page 11 of 20



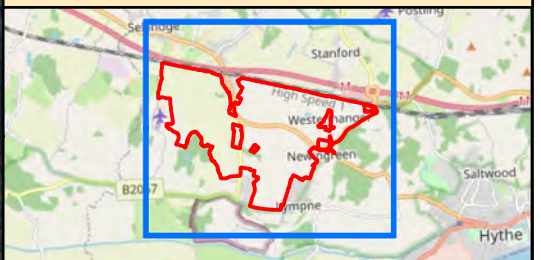
scale	original size	datum	grid
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- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
  - Bird species with BTO species code**
  - Bird species with BTO species code

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01	21-05-2020	FOR INFORMATION	NG	BM	MG

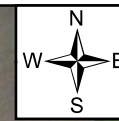
**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

**OTTERPOOL PARK**  
 COUNTRYSIDE • CONNECTED • CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 12 of 20

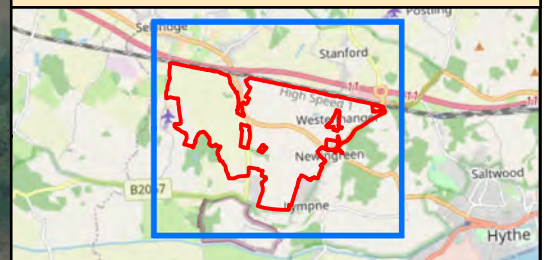
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- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
- Bird species with BTO species code**
- Bird species with BTO species code

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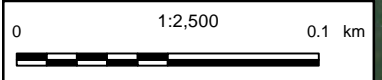


REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

  
**OTTERPOOL PARK**  
 COUNTRYSIDE • CONNECTED • CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 13 of 20



scale	original size	datum	grid
1:2,500	A3	Sx	BNG

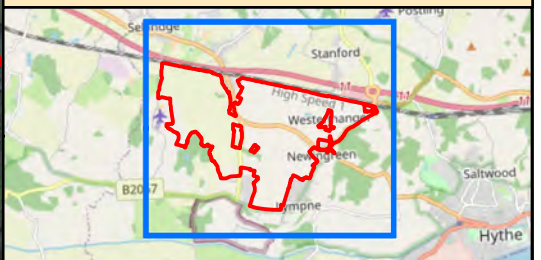




- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
- Bird species with BTO species code**
- Bird species with BTO species code

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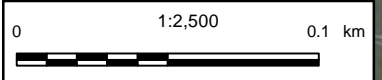


REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
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**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

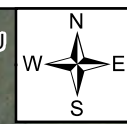
**OTTERPOOL PARK**  
 COUNTRYSIDE • CONNECTED • CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 14 of 20



scale	original size	datum	grid
1:2,500	A3	Sx	BNG

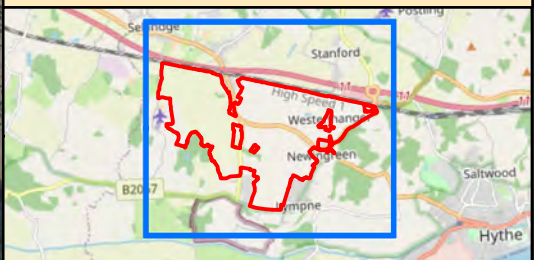




**Legend**

- Outline Planning Application
- Framework Masterplan Boundary
- Bird species with BTO species code**
- Bird species with BTO species code

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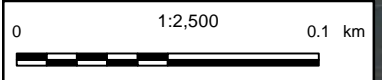


REV	Date	Description	Drawn	Check	Approv
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01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

  
**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 15 of 20



scale	original size	datum	grid
1:2,500	A3	Sx	BNG





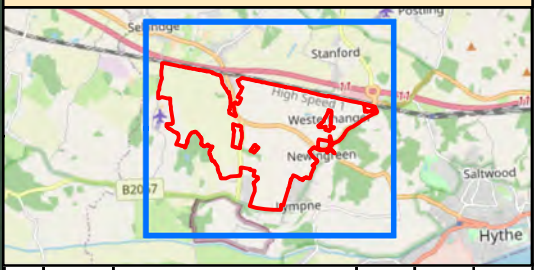
**Legend**

- Outline Planning Application
- Framework Masterplan Boundary

**Bird species with BTO species code**

- Bird species with BTO species code

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REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

**OTTERPOOL PARK**  
 COUNTRYSIDE • CONNECTED • CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 16 of 20

scale	original size	datum	grid
1:2,500	A3	Sx	BNG

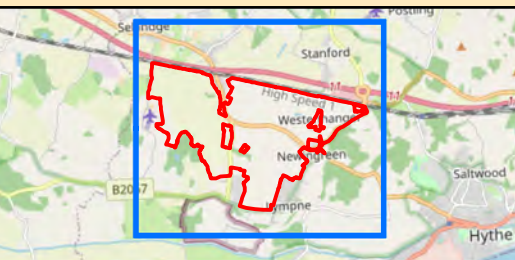




**Legend**

- Outline Planning Application
- Framework Masterplan Boundary
- Bird species with BTO species code**
- Bird species with BTO species code

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REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
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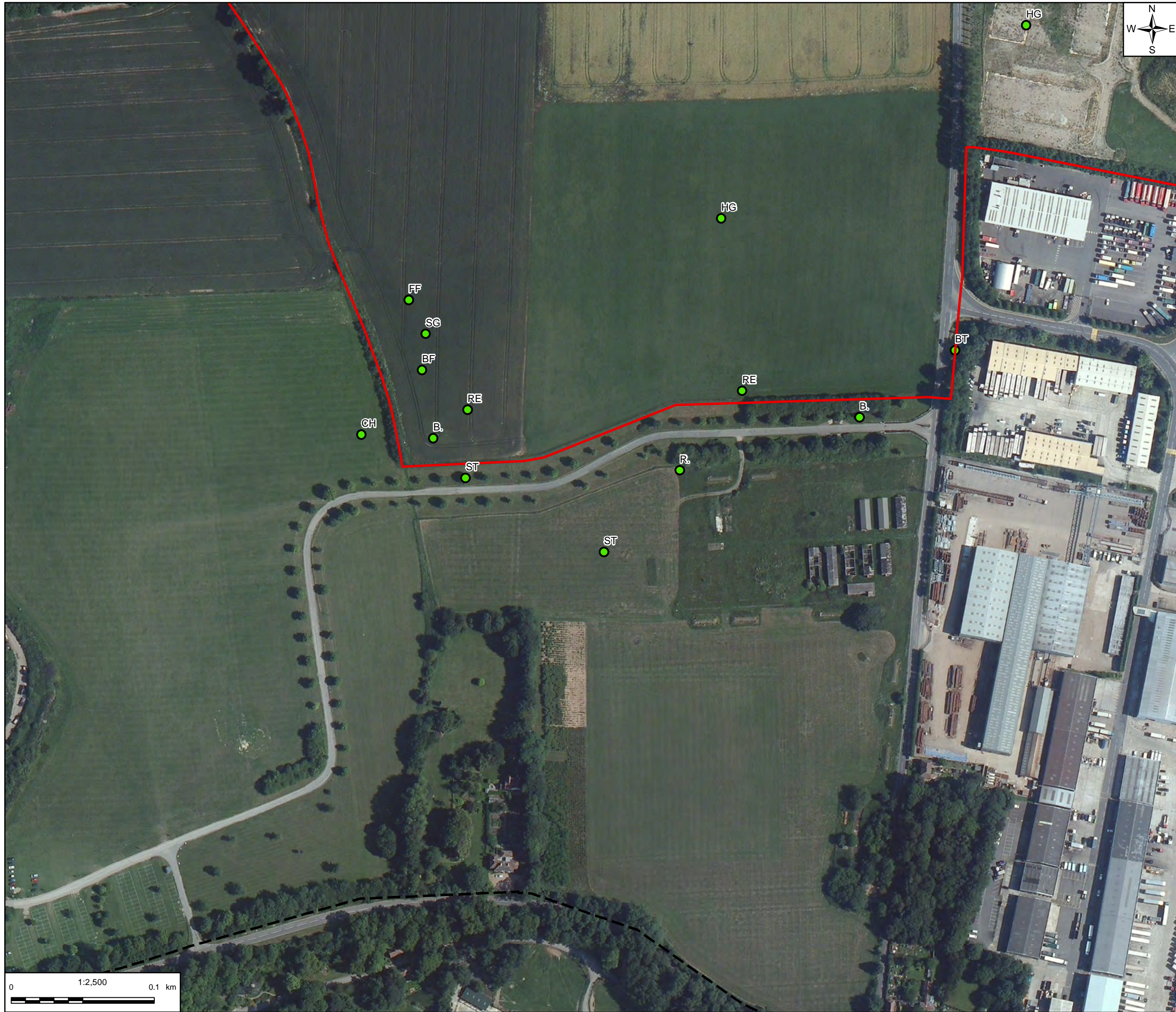
**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 17 of 20

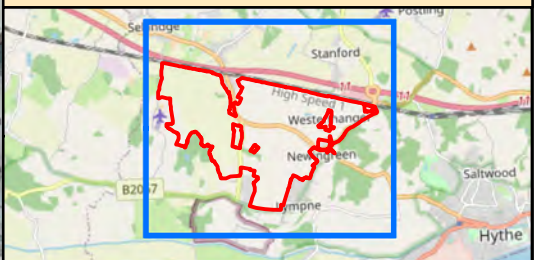
scale	original size	datum	grid
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- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
  - Bird species with BTO species code**
  - Bird species with BTO species code

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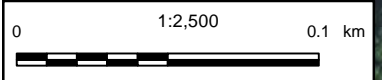


REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
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**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

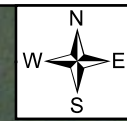
**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 18 of 20



scale	original size	datum	grid
1:2,500	A3	Sx	BNG

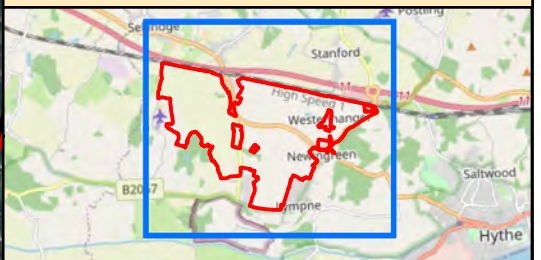




**Legend**

- Outline Planning Application
- Framework Masterplan Boundary
- Bird species with BTO species code**
- Bird species with BTO species code

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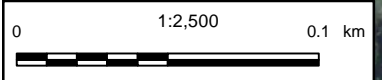


REV	Date	Description	Drawn	Check	Approv
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01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

  
**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
 Page 19 of 20



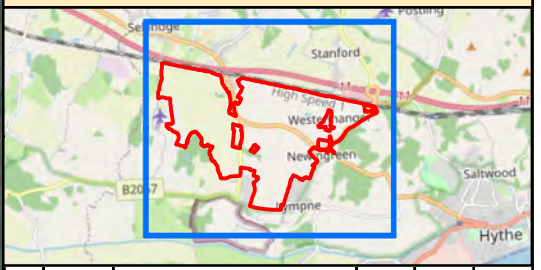
scale	original size	datum	grid
1:2,500	A3	Sx	BNG





- Legend**
- Outline Planning Application
  - Framework Masterplan Boundary
  - Bird species with BTO species code**
  - Bird species with BTO species code

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REV	Date	Description	Drawn	Check	Approv
02	07-03-2022	FOR INFORMATION	PS	BM	MG
01	21-05-2020	FOR INFORMATION	NG	BM	MG

**ARCADIS**  
 80Fen  
 80 Fenchurch Street  
 London  
 EC3M 4BY

  
**OTTERPOOL PARK**  
 COUNTRYSIDE · CONNECTED · CREATIVE

**Figure 7**  
 Results from the December 2020 wintering bird survey  
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scale	original size	datum	grid
1:2,500	A3	Sx	BNG



## APPENDIX A: Wintering Bird Survey Visit Details

Table 14: Details of the wintering bird field surveys

Visit	1a	1b	2	3	4	5	6	7	8	9	10
Surveyors*	DDL, EG	DDL, EG	DDL	DDL	DDL, EG	DDL, EG	DDL, EG	DDL, EP (Assistant)	DDL, RR	DDL	DDL
Date	15/11/2016	16/11/2016	05/12/2016	28/12/2016	10/01/2017	31/01/2017	07/02/2017	23/02/2017	28/11/2019	21/12/20	22/12/20
Start time	10:26	09:20	06:25	11:15	07:00	11:50	07:25	10:40	07:00	08:59	08:19
Finish time	16:40	12:00	13:19	17:00	13:00	17:20	12:11	17:15	15:00	15:56	13:29
Temp (°C)	15	13	-2	7	6	5	7	11	7	10	12-13
Wind direction	W	WSW	ENE	None	W	E	W	SW	W	S	None
Wind speed (Beaufort)	1	4	1	0	2	2	1	3	4	3	0
Cloud cover (Okta)	6	7	0	0	1	8	4	1	8	8	8
Snow	0	0	0	0	0	0	0	0	0	0	0
Rain	0	0	0	0	0	1	0	0	0	0	0

Surveyors: David Darrell-Lambert (DDL), Ewan Gibson (EG), Ellen Poppleton (EP; assistant only) and Rob Regan (RR).



## **APPENDIX B: Wintering Bird Surveys – Results**



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 Table 15: Results from the wintering bird surveys

N.B. The results below are presented for the specific wintering bird surveys only. The results from the first breeding bird survey (20 March 2017) was utilised to inform the analysis, as explained in section 2.5, but was collected according to a differing methodology as outlined in ES Appendix 7.15 and is presented within Table 16.

Species	Survey Data												Status / Designation								
	1a – 15/11/2016	1b – 16/11/2016	2 – 05/12/2016	3 – 28/12/2016	4 – 10/01/2017	5 – 31/01/2017	6 – 07/02/2017	7 – 23/02/2017	8 – 28/11/2019	9 – 21/12/2020	10 – 22/12/2020	Max per visit	SPA	BOCC Green List	BOCC Amber List	BOCC Red List	NERC	Schedule 1	BOCC List	UK BAP	Kent BAP
Blackbird	24	13	93	34	46	24	39	8	30	27	14	93		Y					Green		
Black-headed gull	160	75	297	93	140	434	284	650	551	9	2	650			Y				Amber		
Blue tit	11	4	15	6	26	36	19	4	8	12	18	36		Y					Green		
Brambling			1									1		Y			Y		Green		
Bullfinch	1		4			2			1	2	1	4			Y		Y		Amber		Y
Buzzard	4	6	7	3	5	7	2	3	5	5	1	7		Y					Green		
Canada goose								1				1							Green		
Carrion crow	2	3	5	14	49	23	15	10	22	13	6	49		Y					Green		
Chaffinch	41	5	37	27	92	27	33	6	13	14	31	92		Y					Green		
Chiffchaff			1						3			3		Y					Green		



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Species	Survey Data												Status / Designation								
	1a – 15/11/2016	1b – 16/11/2016	2 – 05/12/2016	3 – 28/12/2016	4 – 10/01/2017	5 – 31/01/2017	6 – 07/02/2017	7 – 23/02/2017	8 – 28/11/2019	9 – 21/12/2020	10 – 22/12/2020	Max per visit	SPA	BOCC Green List	BOCC Amber List	BOCC Red List	NERC	Schedule 1	BOCC List	UK BAP	Kent BAP
Coal tit	1			1				1			4	4		Y					<b>Green</b>		
Collared dove	13		1		2	7	3			7	1	13		Y					<b>Green</b>		
Common gull	200	101	98	456	86	31	4	1450	41	20	56	1450			Y				<b>Amber</b>		
Coot	4		5	3	2		1					5		Y					<b>Green</b>		
Cormorant										2		2	Y						<b>Green</b>		
Dunnock	3	3	24	9	14	13	27	1	7	4	6	27			Y		Y		<b>Amber</b>	Y	
Feral pigeon	120					7			20		7	120		Y					<b>Green</b>		
Fieldfare	112	1	70	18	234	928	305	140	4	232	22	928				Y		Y	<b>Red</b>		
Firecrest											3	3							<b>Green</b>		
Gadwall	15		19	28	28	5	12					28			Y				<b>Amber</b>		
Goldcrest	3		3	5	1	3	7	1	7	1	4	7		Y					<b>Green</b>		
Golden plover			3									3	Y	Y					<b>Green</b>		
Goldfinch	37	8	59	24	45	106	15	52	36	38	20	106		Y					<b>Green</b>		



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Species	Survey Data												Status / Designation								
	1a – 15/11/2016	1b – 16/11/2016	2 – 05/12/2016	3 – 28/12/2016	4 – 10/01/2017	5 – 31/01/2017	6 – 07/02/2017	7 – 23/02/2017	8 – 28/11/2019	9 – 21/12/2020	10 – 22/12/2020	Max per visit	SPA	BOCC Green List	BOCC Amber List	BOCC Red List	NERC	Schedule 1	BOCC List	UK BAP	Kent BAP
Great tit	6	5	7	6	23	21	24	4	3	5	17	24		Y					Green		
Great spotted woodpecker	4	1	4			5	1		4		4	5		Y					Green		
Green woodpecker	7	2	2	1	5	2	4	1	3	2	2	7		Y					Green		
Greenfinch		1	19	1		35	5	2		22		35		Y					Green		
Grey heron			1	1		1	3		1	1		3		Y					Green		
Grey wagtail	2	1	3		1	1	1		2			3				Y			Red		
Greylag goose						3		2				3			Y				Amber		
Herring gull	62	10	127	118	67	85	15	248	96	55	76	248				Y	Y		Red	Y	
House sparrow	2	3		3	10	35	9	5	5		16	35				Y	Y		Red	Y	Y
Jackdaw	132	130	63	46	55	92	53	76	98	95	36	132		Y					Green		
Jay	1	3	2	1	4	3	1	1	7	4	6	7		Y					Green		
Kestrel	1		1	1	3	2	2		2	2	3	3			Y				Amber		



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Species	Survey Data												Status / Designation								
	1a – 15/11/2016	1b – 16/11/2016	2 – 05/12/2016	3 – 28/12/2016	4 – 10/01/2017	5 – 31/01/2017	6 – 07/02/2017	7 – 23/02/2017	8 – 28/11/2019	9 – 21/12/2020	10 – 22/12/2020	Max per visit	SPA	BOCC Green List	BOCC Amber List	BOCC Red List	NERC	Schedule 1	BOCC List	UK BAP	Kent BAP
Kingfisher						2				1		2			Y			Y	Amber		
Lapwing											11	11	Y				Y		Red		
Lesser black-backed gull				1						1		1			Y				Amber		
Linnet		100	6	42	19		1			1		100				Y	Y		Red	Y	
Little egret			2									2		Y					Green		
Little grebe										1		1	Y						Green		
Little Owl		1										1							Green		
Long-tailed tit	15	4	6	43	15	31	8	2	4	1	5	43		Y					Green		
Magpie	3	6	5	2	6	13	3	4	15	6	16	13		Y					Green		
Mallard	17		24	31	8	16	24	67	16	64	2	67			Y				Amber		
Meadow pipit	13	7	70	96	73	46	75	1	16	12	19	96			Y				Amber		
Mediterranean gull	25	11			7	2	9	334	275	215	16	334	Y		Y		Y		Amber		
Merlin						2				1		2				Y		Y	Red		



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Species	Survey Data												Status / Designation								
	1a – 15/11/2016	1b – 16/11/2016	2 – 05/12/2016	3 – 28/12/2016	4 – 10/01/2017	5 – 31/01/2017	6 – 07/02/2017	7 – 23/02/2017	8 – 28/11/2019	9 – 21/12/2020	10 – 22/12/2020	Max per visit	SPA	BOCC Green List	BOCC Amber List	BOCC Red List	NERC	Schedule 1	BOCC List	UK BAP	Kent BAP
Mistle Thrush	3		9	2	4	2	1	4	1	5	1	9				Y			Red		
Moorhen	1		3		1		1					3		Y					Green		
Nuthatch			2							1		2		Y					Green		
Pheasant	1		3	1		1		1	17	6	5	17		Y					Green		
Pied wagtail	1	3	4	13	68	27	7	12	33	37	6	68		Y					Green		
Pochard										1		1	Y						Red		
Raven									1										Green		
Red-legged partridge		1										1		Y					Green		
Redwing	55	28	36	7	194	149	328	46	36	220	172	328				Y		Y	Red		
Reed bunting	2		3	1	3			3	3	2		3			Y		Y		Amber	Y	Y
Robin	17	15	33	6	21	23	32	6	6	11	26	33		Y					Green		
Rook	45	44	42	26	155	71	67	82	44	82	148	155		Y					Green		
Siskin			1						3	2		1		Y					Green		



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Species	Survey Data												Status / Designation								
	1a – 15/11/2016	1b – 16/11/2016	2 – 05/12/2016	3 – 28/12/2016	4 – 10/01/2017	5 – 31/01/2017	6 – 07/02/2017	7 – 23/02/2017	8 – 28/11/2019	9 – 21/12/2020	10 – 22/12/2020	Max per visit	SPA	BOCC Green List	BOCC Amber List	BOCC Red List	NERC	Schedule 1	BOCC List	UK BAP	Kent BAP
Skylark	11	6	1			5	5	2	8		34	34				Y	Y		Red	Y	
Snipe	3		7	8	6	5	1	1	8	1		8			Y				Amber		
Song thrush	7	18	44	24	21	20	33	5	12	42	25	44				Y			Red	Y	
Sparrowhawk	1			2	3	1	1	1	3			3		Y					Green		
Starling	210	87	191	40	210	300	245	460	134	160	80	460				Y	Y		Red	Y	
Stock dove		3	12	16	11	44	29		37	16	47	47			Y				Amber		
Stonechat	2	2	1		1		3					3		Y					Green		
Teal				72	18	97	6	14		37		97			Y				Amber		
Treecreeper	3		1			5	1		1	3		5		Y					Green		
Tufted duck							6			1		6		Y					Green		
Wood pigeon	104	123	358	100	56	376	1179	112	752	144	138	1179		Y					Green		
Woodcock					1	1	1		1			1				Y			Red		
Wren	17	6	17	7	23	20	14	1	9	21	17	23		Y					Green		



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Species	Survey Data												Status / Designation								
	1a – 15/11/2016	1b – 16/11/2016	2 – 05/12/2016	3 – 28/12/2016	4 – 10/01/2017	5 – 31/01/2017	6 – 07/02/2017	7 – 23/02/2017	8 – 28/11/2019	9 – 21/12/2020	10 – 22/12/2020	Max per visit	SPA	BOCC Green List	BOCC Amber List	BOCC Red List	NERC	Schedule 1	BOCC List	UK BAP	Kent BAP
Yellowhammer	23	3	17	36	64	19	26	8	48	36	52	64				Y			<b>Red</b>	Y	Y



Table 16: Results from the first breeding bird survey conducted (20/03/2017)

N.B. This survey was conducted according to the breeding bird survey methodology presented in ES Appendix 7.15. The results and behaviour observed were largely indicative of wintering behaviour, therefore these results are discussed within this report, as opposed to the breeding bird survey report.

Species (common name)	Survey 20/03/2017
Blackbird	42
Black-headed gull	400
Blue tit	28
Brambling	1
Buzzard	5
Carrion crow	14
Chaffinch	120
Chiffchaff	3
Collared dove	1
Common gull	218
Dunnock	30
Fieldfare	184
Gadwall	3
Goldcrest	4
Goldfinch	49
Great tit	33
Great-spotted woodpecker	2
Green woodpecker	9
Greenfinch	1
Grey heron	1
Herring gull	254
House sparrow	6
Jackdaw	34
Jay	4



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Species (common name)	Survey 20/03/2017
Kestrel	3
Lesser redpoll	1
Lesser-black-backed gull	2
Linnet	1
Long-tailed tit	14
Magpie	6
Mallard	10
Meadow pipit	70
Mediterranean gull	17
Merlin	1
Mistle thrush	4
Moorhen	1
Nuthatch	1
Pheasant	3
Pied wagtail	82
Redwing	138
Reed bunting	2
Robin	35
Rook	183
Skylark	9
Song thrush	26
Sparrowhawk	1
Starling	212
Stock dove	20
Stonechat	1
Treecreeper	3
Wood pigeon	119



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Species (common name)	Survey 20/03/2017
Wren	45
Yellowhammer	95
Grand Total	2553



## **APPENDIX C: BTO Codes Utilised in Mapping**



# Abbreviated code list

# Standard naming and coding of species and subspecies regularly found in Britain and Ireland (long list)



Mute Swan	<i>Cygnus olor</i>	MS	MUTSW	Ring-necked Duck	<i>Aythya collaris</i>	NG	RINDU
Bewick's Swan	<i>Cygnus columbianus</i>	BS	BEWSW	Ferruginous Duck	<i>Aythya nyroca</i>	FD	FERDU
Whooper Swan	<i>Cygnus cygnus</i>	WS	WHOSW	Tufted Duck	<i>Aythya fuligula</i>	TU	TUFDU
Bean Goose	<i>Anser fabalis</i>	BE	BEAGO	Scaup	<i>Aythya marila</i>	SP	SCAUP
Bean Goose (Taiga)	<i>Anser fabalis fabalis</i>	XF		Eider	<i>Somateria mollissima</i>	E.	EIDER
Bean Goose (Tundra)	<i>Anser fabalis rossicus</i>	XR		Long-tailed Duck	<i>Clangula hyemalis</i>	LN	LOTDU
Pink-footed Goose	<i>Anser brachyrhynchus</i>	PG	PIFGO	Common Scoter	<i>Melanitta nigra</i>	CX	COMSC
White-fronted Goose	<i>Anser albifrons</i>	WG	WHFGO	Surf Scoter	<i>Melanitta perspicillata</i>	FS	SURSC
White-fronted Goose (Greenland)	<i>Anser albifrons flavirostris</i>	NW		Velvet Scoter	<i>Melanitta fusca</i>	VS	VELSC
White-fronted Goose (European)	<i>Anser albifrons albifrons</i>	EW		Goldeneye	<i>Bucephala clangula</i>	GN	GOLDE
Greylag Goose	<i>Anser anser</i>	GJ	GREGO	Smew	<i>Mergellus albellus</i>	SY	SMEW.
Greylag Goose (domestic)	<i>Anser anser</i>	ZL		Red-breasted Merganser	<i>Mergus serrator</i>	RM	REBME
Snow Goose	<i>Anser caerulescens</i>	SJ	SNOGO	Goosander	<i>Mergus merganser</i>	GD	GOOSA
Canada Goose	<i>Branta canadensis</i>	CG	CANGO	Ruddy Duck	<i>Oxyura jamaicensis</i>	RY	RUDDU
Barnacle Goose	<i>Branta leucopsis</i>	BY	BARGO	Red Grouse	<i>Lagopus lagopus scotica</i>	RG	REDGR
Brent Goose	<i>Branta bernicla</i>	BG	BREGO	Ptarmigan	<i>Lagopus muta</i>	PM	PTARM
Brent Goose (Dark-bellied)	<i>Branta bernicla bernicla</i>	DB		Black Grouse	<i>Tetrao tetrix</i>	BK	BLAGR
Brent Goose (Light-bellied)	<i>Branta bernicla hrota</i>	PB		Capercaillie	<i>Tetrao urogallus</i>	CP	CAPER
Brent Goose (Black Brant)	<i>Branta bernicla nigricans</i>	BB		Red-legged Partridge	<i>Alectoris rufa</i>	RL	RELPA
Egyptian Goose	<i>Alopochen aegyptiaca</i>	EG	EGYGO	Grey Partridge	<i>Perdix perdix</i>	P.	GREPA
Ruddy Shelduck	<i>Tadorna ferruginea</i>	UD	RUDSH	Quail	<i>Coturnix coturnix</i>	Q.	QUAIL
Shelduck	<i>Tadorna tadorna</i>	SU	SHELD	Pheasant	<i>Phasianus colchicus</i>	PH	PHEAS
Mandarin Duck	<i>Aix galericulata</i>	MN	MANDA	Golden Pheasant	<i>Chrysolophus pictus</i>	GF	GOLPH
Wigeon	<i>Anas penelope</i>	WN	WIGEO	Lady Amherst's Pheasant	<i>Chrysolophus amherstiae</i>	LM	LAAPH
American Wigeon	<i>Anas americana</i>	AW	AMEWI	Red-throated Diver	<i>Gavia stellata</i>	RH	RETDI
Gadwall	<i>Anas strepera</i>	GA	GADWA	Black-throated Diver	<i>Gavia arctica</i>	BV	BLTDI
Teal	<i>Anas crecca</i>	T.	TEAL.	Great Northern Diver	<i>Gavia immer</i>	ND	GRNDI
Green-winged Teal	<i>Anas carolinensis</i>	TA	GRWTE	Little Grebe	<i>Tachybaptus ruficollis</i>	LG	LITGR
Mallard	<i>Anas platyrhynchos</i>	MA	MALLA	Great Crested Grebe	<i>Podiceps cristatus</i>	GG	GRCGR
Mallard (domestic)	<i>Anas platyrhynchos</i>	ZF		Red-necked Grebe	<i>Podiceps grisegena</i>	RX	RENGR
Pintail	<i>Anas acuta</i>	PT	PINTA	Slavonian Grebe	<i>Podiceps auritus</i>	SZ	SLAGR
Garganey	<i>Anas querquedula</i>	GY	GARGA	Black-necked Grebe	<i>Podiceps nigricollis</i>	BN	BLNGR
Shoveler	<i>Anas clypeata</i>	SV	SHOVE	Fulmar	<i>Fulmarus glacialis</i>	F.	FULMA
Red-crested Pochard	<i>Netta rufina</i>	RQ	RECPO	Cory's Shearwater	<i>Calonectris diomedea</i>	CQ	CORSH
Pochard	<i>Aythya ferina</i>	PO	POCHA	Great Shearwater	<i>Puffinus gravis</i>	GQ	GRTSH



# Abbreviated code list

Sooty Shearwater	<i>Puffinus griseus</i>	OT	SOOSH
Manx Shearwater	<i>Puffinus puffinus</i>	MX	MANSH
Balearic Shearwater	<i>Puffinus mauretanicus</i>	YQ	BALSH
Wilson's Petrel	<i>Oceanites oceanicus</i>		WILPE
Storm Petrel	<i>Hydrobates pelagicus</i>	TM	STOPE
Leach's Petrel	<i>Oceanodroma leucorhoa</i>	TL	LEAPE
Gannet	<i>Morus bassanus</i>	GX	GANNE
Cormorant	<i>Phalacrocorax carbo</i>	CA	CORMO
Cormorant (Continental)	<i>Phalacrocorax carbo sinensis</i>		
Shag	<i>Phalacrocorax aristotelis</i>	SA	SHAG.
Bittern	<i>Botaurus stellaris</i>	BI	BITTE
Night-heron	<i>Nycticorax nycticorax</i>	NT	NIGHE
Little Egret	<i>Egretta garzetta</i>	ET	LITEG
Great White Egret	<i>Ardea alba</i>	HW	GRWEG
Grey Heron	<i>Ardea cinerea</i>	H.	GREHE
Purple Heron	<i>Ardea purpurea</i>	UR	PURHE
White Stork	<i>Ciconia ciconia</i>	OR	WHIST
Glossy Ibis	<i>Plegadis falcinellus</i>	IB	GLOIB
Spoonbill	<i>Platalea leucorodia</i>	NB	SPOON
Honey-buzzard	<i>Pernis apivorus</i>	HZ	HONBU
Black Kite	<i>Milvus migrans</i>	KB	BLAKI
Red Kite	<i>Milvus milvus</i>	KT	REDKI
White-tailed Eagle	<i>Haliaeetus albicilla</i>	WE	WHTEA
Marsh Harrier	<i>Circus aeruginosus</i>	MR	MARHA
Hen Harrier	<i>Circus cyaneus</i>	HH	HENHA
Montagu's Harrier	<i>Circus pygargus</i>	MO	MONHA
Goshawk	<i>Accipiter gentilis</i>	GI	GOSHA
Sparrowhawk	<i>Accipiter nisus</i>	SH	SPARR
Buzzard	<i>Buteo buteo</i>	BZ	BUZZA
Rough-legged Buzzard	<i>Buteo lagopus</i>	RF	ROLBU
Golden Eagle	<i>Aquila chrysaetos</i>	EA	GOLEA
Osprey	<i>Pandion haliaetus</i>	OP	OSPRE
Kestrel	<i>Falco tinnunculus</i>	K.	KESTR
Red-footed Falcon	<i>Falco vespertinus</i>	FV	REFFA
Merlin	<i>Falco columbarius</i>	ML	MERLI

# Standard naming and coding of species and subspecies regularly found in Britain and Ireland (long list)



Hobby	<i>Falco subbuteo</i>	HY	HOBBY
Peregrine	<i>Falco peregrinus</i>	PE	PEREG
Water Rail	<i>Rallus aquaticus</i>	WA	WATRA
Spotted Crane	<i>Porzana porzana</i>	AK	SPOCR
Corncrake	<i>Crex crex</i>	CE	CORNC
Moorhen	<i>Gallinula chloropus</i>	MH	MOORH
Coot	<i>Fulica atra</i>	CO	COOT.
Crane	<i>Grus grus</i>	AN	CRANE
Oystercatcher	<i>Haematopus ostralegus</i>	OC	OYSTE
Black-winged Stilt	<i>Himantopus himantopus</i>	IT	BLWST
Avocet	<i>Recurvirostra avosetta</i>	AV	AVOCE
Stone-curlew	<i>Burhinus oedicephalus</i>	TN	STOCU
Little Ringed Plover	<i>Charadrius dubius</i>	LP	LIRPL
Ringed Plover	<i>Charadrius hiaticula</i>	RP	RINPL
Kentish Plover	<i>Charadrius alexandrinus</i>	KP	KENPL
Dotterel	<i>Charadrius morinellus</i>	DO	DOTTE
American Golden Plover	<i>Pluvialis dominica</i>	ID	AMGPL
Golden Plover	<i>Pluvialis apricaria</i>	GP	GOLPL
Grey Plover	<i>Pluvialis squatarola</i>	GV	GREPL
Lapwing	<i>Vanellus vanellus</i>	L.	LAPWI
Knot	<i>Calidris canutus</i>	KN	KNOT.
Sanderling	<i>Calidris alba</i>	SS	SANDE
Little Stint	<i>Calidris minuta</i>	LX	LITST
Temminck's Stint	<i>Calidris temminckii</i>	TK	TEMST
White-rumped Sandpiper	<i>Calidris fuscicollis</i>	WU	WHRSA
Pectoral Sandpiper	<i>Calidris melanotos</i>	PP	PECSA
Curlew Sandpiper	<i>Calidris ferruginea</i>	CV	CURSA
Purple Sandpiper	<i>Calidris maritima</i>	PS	PURSA
Dunlin	<i>Calidris alpina</i>	DN	DUNLI
Buff-breasted Sandpiper	<i>Tryngites subruficollis</i>	BQ	BUBSA
Ruff	<i>Philomachus pugnax</i>	RU	RUFF.
Jack Snipe	<i>Lymnocyptes minimus</i>	JS	JACSN
Snipe	<i>Gallinago gallinago</i>	SN	SNIFE
Woodcock	<i>Scolopax rusticola</i>	WK	WOODC
Black-tailed Godwit	<i>Limosa limosa</i>	BW	BLTGO



# Abbreviated code list

Bar-tailed Godwit	<i>Limosa lapponica</i>	BA	BATGO
Whimbrel	<i>Numenius phaeopus</i>	WM	WHIMB
Curlew	<i>Numenius arquata</i>	CU	CURLE
Spotted Redshank	<i>Tringa erythropus</i>	DR	SPORE
Redshank	<i>Tringa totanus</i>	RK	REDSH
Greenshank	<i>Tringa nebularia</i>	GK	GRESH
Lesser Yellowlegs	<i>Tringa flavipes</i>	LY	LESYE
Green Sandpiper	<i>Tringa ochropus</i>	GE	GRESA
Wood Sandpiper	<i>Tringa glareola</i>	OD	WOOSA
Common Sandpiper	<i>Actitis hypoleucos</i>	CS	COMSA
Turnstone	<i>Arenaria interpres</i>	TT	URNS
Red-necked Phalarope	<i>Phalaropus lobatus</i>	NK	RENPH
Grey Phalarope	<i>Phalaropus fulicarius</i>	PL	GREPH
Pomarine Skua	<i>Stercorarius pomarinus</i>	PK	POMSK
Arctic Skua	<i>Stercorarius parasiticus</i>	AC	ARCSK
Long-tailed Skua	<i>Stercorarius longicaudus</i>	OG	LOTSK
Great Skua	<i>Stercorarius skua</i>	NX	GRESK
Mediterranean Gull	<i>Larus melanocephalus</i>	MU	MEDGU
Little Gull	<i>Hydrocoloeus minutus</i>	LU	LITGU
Sabine's Gull	<i>Larus sabini</i>	AB	SABGU
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	BH	BLHGU
Ring-billed Gull	<i>Larus delawarensis</i>	IN	RIBGU
Common Gull	<i>Larus canus</i>	CM	COMGU
Lesser Black-backed Gull	<i>Larus fuscus</i>	LB	LBBGU
Herring Gull	<i>Larus argentatus</i>	HG	HERGU
Yellow-legged Gull	<i>Larus michahellis</i>	YG	YELGU
Caspian Gull	<i>Larus cachinnans</i>	YC	
Iceland Gull	<i>Larus glaucooides</i>	IG	ICEGU
Glaucous Gull	<i>Larus hyperboreus</i>	GZ	GLAGU
Great Black-backed Gull	<i>Larus marinus</i>	GB	GBBGU
Kittiwake	<i>Rissa tridactyla</i>	KI	KITTI
Sandwich Tern	<i>Sterna sandvicensis</i>	TE	SANTE
Roseate Tern	<i>Sterna dougallii</i>	RS	ROSTE
Common Tern	<i>Sterna hirundo</i>	CN	COMTE
Arctic Tern	<i>Sterna paradisaea</i>	AE	ARCTE

# Standard naming and coding of species and subspecies regularly found in Britain and Ireland (long list)



Little Tern	<i>Sternula albifrons</i>	AF	LITTE
Black Tern	<i>Chlidonias niger</i>	BJ	BLATE
White-winged Black Tern	<i>Chlidonias leucopterus</i>	WJ	WWBTE
Guillemot	<i>Uria aalge</i>	GU	GUILL
Razorbill	<i>Alca torda</i>	RA	RAZOR
Black Guillemot	<i>Cephus grylle</i>	TY	BLAGU
Little Auk	<i>Alle alle</i>	LK	LITAU
Puffin	<i>Fratercula arctica</i>	PU	PUFFI
Rock Dove	<i>Columba livia</i>	DV	ROCDO
Feral Pigeon	<i>Columba livia</i>	FP	
Stock Dove	<i>Columba oenas</i>	SD	STODO
Woodpigeon	<i>Columba palumbus</i>	WP	WOODP
Collared Dove	<i>Streptopelia decaocto</i>	CD	COLDO
Turtle Dove	<i>Streptopelia turtur</i>	TD	TURDO
Ring-necked Parakeet	<i>Psittacula krameri</i>	RI	RINPA
Cuckoo	<i>Cuculus canorus</i>	CK	CUCKO
Barn Owl	<i>Tyto alba</i>	BO	BAROW
Little Owl	<i>Athene noctua</i>	LO	LITOW
Tawny Owl	<i>Strix aluco</i>	TO	TAWOW
Long-eared Owl	<i>Asio otus</i>	LE	LOEOW
Short-eared Owl	<i>Asio flammeus</i>	SE	SHEOW
Nightjar	<i>Caprimulgus europaeus</i>	NJ	NIJAR
Swift	<i>Apus apus</i>	SI	SWIFT
Alpine Swift	<i>Apus melba</i>	AI	ALPSW
Kingfisher	<i>Alcedo atthis</i>	KF	KINGF
Bee-eater	<i>Merops apiaster</i>	MZ	BEEEA
Hoopoe	<i>Upupa epops</i>	HP	HOOPU
Wryneck	<i>Jynx torquilla</i>	WY	WRYNE
Green Woodpecker	<i>Picus viridis</i>	G.	GREWO
Great Spotted Woodpecker	<i>Dendrocopos major</i>	GS	GRSWO
Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>	LS	LESWO
Short-toed Lark	<i>Calandrella brachydactyla</i>	VL	SHTLA
Woodlark	<i>Lullula arborea</i>	WL	WOODL
Skylark	<i>Alauda arvensis</i>	S.	SKYLA
Shore Lark	<i>Eremophila alpestris</i>	SX	SHOLA



# Abbreviated code list

Sand Martin	<i>Riparia riparia</i>	SM	SANMA
Swallow	<i>Hirundo rustica</i>	SL	SWALL
Red-rumped Swallow	<i>Cecropis daurica</i>	VR	RERSW
House Martin	<i>Delichon urbicum</i>	HM	HOUMA
Richard's Pipit	<i>Anthus richardi</i>	PR	RICPI
Tawny Pipit	<i>Anthus campestris</i>	TI	TAWPI
Tree Pipit	<i>Anthus trivialis</i>	TP	TREPI
Meadow Pipit	<i>Anthus pratensis</i>	MP	MEAPI
Red-throated Pipit	<i>Anthus cervinus</i>	VP	RETPI
Rock Pipit	<i>Anthus petrosus</i>	RC	ROCPI
Water Pipit	<i>Anthus spinoletta</i>	WI	WATPI
Yellow Wagtail	<i>Motacilla flava</i>	YW	YELWA
Yellow Wagtail (Blue-headed)	<i>Motacilla flava flava</i>		
Yellow Wagtail (Grey-headed)	<i>Motacilla flava thunbergi</i>		
Grey Wagtail	<i>Motacilla cinerea</i>	GL	GREWA
Pied/White Wagtail	<i>Motacilla alba</i>	PW	PIEWA
Pied Wagtail (yarrellii)	<i>Motacilla alba yarrellii</i>		
White Wagtail (alba)	<i>Motacilla alba alba</i>	WB	
Waxwing	<i>Bombycilla garrulus</i>	WX	WAXWI
Dipper	<i>Cinclus cinclus</i>	DI	DIPPE
Wren	<i>Troglodytes troglodytes</i>	WR	WREN.
Dunnock	<i>Prunella modularis</i>	D.	DUNNO
Robin	<i>Erithacus rubecula</i>	R.	ROBIN
Nightingale	<i>Luscinia megarhynchos</i>	N.	NIGAL
Bluethroat	<i>Luscinia svecica</i>	BU	BLUTH
Bluethroat (White-spotted)	<i>Luscinia svecica cyanecula</i>		
Bluethroat (Red-spotted)	<i>Luscinia svecica svecica</i>		
Black Redstart	<i>Phoenicurus ochruros</i>	BX	BLARE
Redstart	<i>Phoenicurus phoenicurus</i>	RT	REDST
Whinchat	<i>Saxicola rubetra</i>	WC	WHINC
Stonechat	<i>Saxicola torquatus</i>	SC	STOCH
Wheatear	<i>Oenanthe oenanthe</i>	W.	WHEAT
Wheatear (Greenland)	<i>Oenanthe oenanthe leucorhoa</i>		
Ring Ouzel	<i>Turdus torquatus</i>	RZ	RINOUE
Blackbird	<i>Turdus merula</i>	B.	BLABI

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Fieldfare	<i>Turdus pilaris</i>	FF	FIELD
Song Thrush	<i>Turdus philomelos</i>	ST	SONTH
Redwing	<i>Turdus iliacus</i>	RE	REDWI
Mistle Thrush	<i>Turdus viscivorus</i>	M.	MISTH
Cetti's Warbler	<i>Cettia cetti</i>	CW	CETWA
Grasshopper Warbler	<i>Locustella naevia</i>	GH	GRAWA
Savi's Warbler	<i>Locustella luscinioides</i>	VI	SAVWA
Aquatic Warbler	<i>Acrocephalus paludicola</i>	AQ	AQUWA
Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	SW	SEDWA
Marsh Warbler	<i>Acrocephalus palustris</i>	MW	MARWA
Reed Warbler	<i>Acrocephalus scirpaceus</i>	RW	REEWA
Icterine Warbler	<i>Hippolais icterina</i>	IC	ICTWA
Melodious Warbler	<i>Hippolais polyglotta</i>	ME	MELWA
Blackcap	<i>Sylvia atricapilla</i>	BC	BLACA
Garden Warbler	<i>Sylvia borin</i>	GW	GARWA
Barred Warbler	<i>Sylvia nisoria</i>	RR	BARWA
Lesser Whitethroat	<i>Sylvia curruca</i>	LW	LESWH
Whitethroat	<i>Sylvia communis</i>	WH	WHITE
Dartford Warbler	<i>Sylvia undata</i>	DW	DARWA
Subalpine Warbler	<i>Sylvia cantillans</i>		SUBWA
Greenish Warbler	<i>Phylloscopus trochiloides</i>	NP	GSHWA
Arctic Warbler	<i>Phylloscopus borealis</i>	AP	ARCWA
Pallas's Warbler	<i>Phylloscopus proregulus</i>	PA	PALWA
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	YB	YEBWA
Radde's Warbler	<i>Phylloscopus schwarzi</i>		RADWA
Dusky Warbler	<i>Phylloscopus fuscatus</i>	UY	DUSWA
Wood Warbler	<i>Phylloscopus sibilatrix</i>	WO	WOOWA
Chiffchaff	<i>Phylloscopus collybita</i>	CC	CHIFF
Willow Warbler	<i>Phylloscopus trochilus</i>	WW	WILWA
Goldcrest	<i>Regulus regulus</i>	GC	GOLDC
Firecrest	<i>Regulus ignicapilla</i>	FC	FIREC
Spotted Flycatcher	<i>Muscicapa striata</i>	SF	SPOFL
Red-breasted Flycatcher	<i>Ficedula parva</i>	FY	REBFL
Pied Flycatcher	<i>Ficedula hypoleuca</i>	PF	PIEFL
Bearded Tit	<i>Panurus biarmicus</i>	BR	BEATI



# Abbreviated code list

Long-tailed Tit	<i>Aegithalos caudatus</i>	LT	LOTTI
Long-tailed Tit (Northern)	<i>Aegithalos caudatus caudatus</i>		
Marsh Tit	<i>Poecile palustris</i>	MT	MARTI
Willow Tit	<i>Poecile montana</i>	WT	WILTI
Crested Tit	<i>Lophophanes cristatus</i>	CI	CRETI
Coal Tit	<i>Periparus ater</i>	CT	COATI
Coal Tit (Continental)	<i>Periparus ater ater</i>		
Blue Tit	<i>Cyanistes caeruleus</i>	BT	BLUTI
Great Tit	<i>Parus major</i>	GT	GRETI
Nuthatch	<i>Sitta europaea</i>	NH	NUTHA
Treecreeper	<i>Certhia familiaris</i>	TC	TREEC
Golden Oriole	<i>Oriolus oriolus</i>	OL	GOLOR
Red-backed Shrike	<i>Lanius collurio</i>	ED	REBSH
Great Grey Shrike	<i>Lanius excubitor</i>	SR	GRGSH
Woodchat Shrike	<i>Lanius senator</i>	OO	WOOSH
Jay	<i>Garrulus glandarius</i>	J.	JAY..
Magpie	<i>Pica pica</i>	MG	MAGPI
Chough	<i>Pyrrhocorax pyrrhocorax</i>	CF	CHOUG
Jackdaw	<i>Corvus monedula</i>	JD	JACKD
Rook	<i>Corvus frugilegus</i>	RO	ROOK.
Carrion Crow	<i>Corvus corone</i>	C.	CARCR
Hooded Crow	<i>Corvus cornix</i>	HC	HOOCR
Carrion/Hooded Crow hybrid	<i>Corvus corone x cornix</i>	HB	INTCR
Raven	<i>Corvus corax</i>	RN	RAVEN
Starling	<i>Sturnus vulgaris</i>	SG	STARL
Rose-coloured Starling	<i>Sturnus roseus</i>	OE	ROCST
House Sparrow	<i>Passer domesticus</i>	HS	HOUSP
Tree Sparrow	<i>Passer montanus</i>	TS	TRESP
Chaffinch	<i>Fringilla coelebs</i>	CH	CHAFF
Brambling	<i>Fringilla montifringilla</i>	BL	BRAMB
Serín	<i>Serinus serinus</i>	NS	SERIN
Greenfinch	<i>Carduelis chloris</i>	GR	GREFI
Goldfinch	<i>Carduelis carduelis</i>	GO	GOLDF
Siskin	<i>Carduelis spinus</i>	SK	SISKI
Linnet	<i>Carduelis cannabina</i>	LI	LINNE

# Standard naming and coding of species and subspecies regularly found in Britain and Ireland (long list)



Twite	<i>Carduelis flavirostris</i>	TW	TWITE
Common Redpoll	<i>Carduelis flammea</i>	FR	COMRE
Lesser Redpoll	<i>Carduelis cabaret</i>	LR	LESRE
Common Redpoll (Mealy)	<i>Carduelis flammea flammea</i>		
Common Redpoll (Greenland)	<i>Carduelis flammea rostrata</i>		
Redpoll (Common/Lesser)	<i>Carduelis flammea/cabaret</i>	FQ	REDPO
Arctic Redpoll	<i>Carduelis hornemanni</i>	AL	ARCRE
Common Crossbill	<i>Loxia curvirostra</i>	CR	CROSS
Scottish Crossbill	<i>Loxia scotica</i>	CY	SCOCR
Parrot Crossbill	<i>Loxia pytyopsittacus</i>	PC	PARCR
Common Rosefinch	<i>Carpodacus erythrinus</i>	SQ	SCARO
Bullfinch	<i>Pyrrhula pyrrhula</i>	BF	BULLF
Hawfinch	<i>Coccothraustes coccothraustes</i>	HF	HAWFI
Lapland Bunting	<i>Calcarius lapponicus</i>	LA	LAPBU
Snow Bunting	<i>Plectrophenax nivalis</i>	SB	SNOBU
Yellowhammer	<i>Emberiza citrinella</i>	Y.	YELHA
Cirl Bunting	<i>Emberiza cirlus</i>	CL	CIRBU
Ortolan Bunting	<i>Emberiza hortulana</i>	OB	ORTBU
Rustic Bunting	<i>Emberiza rustica</i>		RUSBU
Little Bunting	<i>Emberiza pusilla</i>	LJ	LITBU
Reed Bunting	<i>Emberiza schoeniclus</i>	RB	REEBU
Corn Bunting	<i>Emberiza calandra</i>	CB	CORBU
Black Swan	<i>Cygnus atratus</i>	AS	
Bar-headed Goose	<i>Anser indicus</i>	HD	
Muscovy Duck	<i>Cairina moschata</i>	MY	MUSDU
Wood Duck	<i>Aix sponsa</i>	DC	WOODU
Chukar	<i>Alectoris chukar</i>	KR	
Indian Peafowl	<i>Pavo cristatus</i>	PX	



## APPENDIX D: Pen Portraits of Key Surveyors

Table 17: Surveyor Pen Portraits

Surveyor	CV details
Ewan Gibson BSc (hons) Grad CIEEM	Ewan is an ecologist with a broad range of ecological experience. Ewan has been a professional ecologist for three years and has conducted surveys for a range of species, including bats, badger, dormouse, amphibians and reptiles, as well as being licensed to survey for barn owl. Ewan strives to collect and collate data with accuracy and precision. He has received in-house 'on the job' training in order to understand the requirements of these surveys, including the usage of survey equipment and identification of field signs.
David Darrell-Lambert	David has over thirty years field experience and has travelled all over Britain as well as overseas surveying a range of birds and wildlife. David has an excellent knowledge of all British breeding birds and migratory species. David is a Schedule 1 licence holder for barn owl for England, this has been extended for other species including black redstart and little ringed plover.
Rob Regan BSc MSc Qualifying CIEEM	Rob is a graduate ecologist who has worked with Arcadis for just over two years. The extensive field experience he gained during this time complements and builds upon the knowledge he acquired throughout University. Rob has a broad experience of protected species surveys, including bird surveys.



Arcadis (UK) Limited

80Fen  
80 Fenchurch Street  
London  
T: +44 (0) 20 7812 2000

[arcadis.com](https://www.arcadis.com)

