

Tween Bridge Solar Farm

Environmental Statement

Appendix 7.3: Non-Breeding Bird Survey Report (Year 1 and Year 2)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

APFP Regulation 5(2)(a)

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Revision 2

Tween Bridge NSIP Solar Farm

on behalf of Pegasus Planning Ltd.

Technical Appendix 7.3: Non-Breeding Bird Survey Report



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1 INTRODUCTION

1.1 Project Background

1.1.1 Avian Ecology Ltd. was commissioned by Pegasus Planning Ltd. to undertake non-breeding bird surveys in the 2022/2023 (Year 1) and 2023/2024 (Year 2) (passage and winter) periods. The surveys were undertaken in relation to 'The Scheme' of a renewable energy generating project; consisting of ground-mounted solar photovoltaic ('PV') arrays, together with on-site energy storage and associated infrastructure. The Scheme is located on land to the east of the town of Thorne and to the west of the town of Crowle (the 'Order Limits') as illustrated on **Figure 1**.

1.1.2 This report presents the detailed methodologies and findings from surveys conducted between September 2022 and March 2023, and again between September 2023 and April 2024. This report has been prepared in order to provide baseline non-breeding bird information to inform an assessment of effects from The Scheme upon non-breeding ornithological features, as presented within the Ecology and Nature Conservation Chapter 7 of the Environmental Statement¹ (ES).

The objectives of this report are to:

- Identify the presence of non-breeding bird species within the Order Limits, and on adjacent land; and,
- Assess the potential importance of the non-breeding waterbird bird assemblages within the Order Limits and adjacent land supports.

1.1.3 The English vernacular bird names used in this report follows that of 'The British List: A Checklist of Birds of Britain (10th edition)' (British Ornithologists' Union, 2022).

1.2 The Order Limits

1.2.1 The Order Limits (see **Figure 1**) encompass a series of connected agricultural land parcels, predominantly under arable management. The fields are bounded by a network of watercourses, hedgerows, fences, and tree lines. A broadleaved woodland plantation copse is present within the area, along with several ponds.

1.2.2 The Tween Bridge Wind Farm, comprising 22 operational wind turbines, is located within the Order Limits. The Stainforth and Keadby Canal also intersects the centre of the Order Limits, running from west to east.

1.2.3 Several internationally and nationally designated sites of ornithological importance lie within proximity to the Order Limits. Within 10 km are key international sites such as the Humber Estuary SPA and Ramsar site, and the Thorne & Hatfield Moors SPA, all of which are designated for their ornithological importance.

1.2.4 Nationally, the Humberhead Peatlands National Nature Reserve, located directly adjacent to the Order Limits, includes the Thorne, Crowle and Goole Moors SSSI and Hatfield Moors SSSI sites, which are known to support ornithological populations.

1.2.5 The Order Limits also fall within Natural England's SSSI Impact Risk Zones (IRZs) for these sites, highlighting potential sensitivities to bird populations from nearby developments.

¹ Environmental Statement Chapter 7: Ecology and Nature Conservation Document Reference 6.2.7

1.3 Bird Species Definitions

1.3.1 All non-breeding waterbird species will be hereafter referred to as “Notable Species”.

1.3.2 Notable Species also includes species comprising non-breeding (i.e. passage and wintering) qualifying interests of the Humber Estuary SPA and Ramsar site, otherwise referred to as “main component species” in line with Annex B Humber Estuary Special Protection Area: non-breeding waterbird assemblage (Version 1.2, June 2023) guidance².

1.3.3 *Main Component species are defined as:*

- *All species listed individually under the assemblage feature on the SPA citation (i.e. the species that qualified in 2007 when the site was designated);*
- *Species which might not be listed on the SPA citation but occur at site levels of more than 1% of the national population according to the most recent Humber Estuary Wetland Bird Survey (WeBS) 5-year average count;*
- *Species where more than 2000 individuals are present according to the most recent Humber Estuary WeBS count.*

1.3.4 *Natural England advises that the main component species of the Humber Estuary SPA non-breeding waterbird assemblage include (June 2023):*

Species listed individually under the assemblage feature on the SPA citation:

- | | |
|-----------------------|-----------------|
| •Avocet; | •Mallard; |
| •Bar-tailed godwit; | •Oystercatcher; |
| •Bittern; | •Pochard; |
| •Black-tailed godwit; | •Redshank; |
| •Brent goose; | •Ringed plover; |
| •Curlew; | •Ruff; |
| •Dunlin; | •Sanderling; |
| •Golden plover; | •Scaup; |
| •Golden eye; | •Shelduck; |
| •Greenshank; | •Teal; |
| •Grey plover; | •Turnstone; |
| •Knot; | •Whimbrel; and, |
| •Lapwing; | •Wigeon. |

² Natural England (2023) *Annex B: Humber Estuary Special Protection Area: non-breeding waterbird assemblage*. Version 1.2, June 2023. Available at: <https://nsip-documents.planninginspectorate.gov.uk/published-documents/EN020036-000104-Natural%20England.pdf> (Accessed: 16 July 2025).

1.3.5 *Species not listed on the SPA citation but occurring at site levels of more than 1% of the national population according to the most recent Humber Estuary Wetland Bird Survey (WeBS) 5-year average count:*

- Green sandpiper;
- Pink-footed goose;
- Greylag goose;
- Shoveler; and,
- Little egret;
- Crane.

1.3.6 *Other species required for consideration but are not considered to be non-breeding waterbirds but are listed in the citation include:*

- Hen harrier;
- Avocet; and,
- Marsh harrier;
- Bittern.
- Little tern;

Annex 1 and Schedule 1 species

1.3.7 Bird species listed under Schedule 1 of the Wildlife and Countryside Act 1981 (as amended³) and species listed under Annex I of the EU Birds Directive (Directive 2009/147/EC⁴) recorded during the surveys will be referred to as such, unless included in the Notable Species definition above.

Secondary Species

1.3.8 All other species will be referred to as “Secondary Species”. These are species that are neither Schedule one, Annex I, or Notable Species.

2 METHODOLOGY

2.1 Desk study

2.1.1 A desk study was undertaken during 2023, to identify any existing ornithological records within a 2km radius of the Order Limits. Records were requested from the Doncaster Local Records Centre (DLRC) and Greater Lincolnshire Nature Partnership (GLNP).

2.1.2 For the purposes of this report, the search was refined to species listed as qualifying interest of the Humber Estuary Ramsar site and SPA, Natural Environment and Rural Communities (NERC) Act 2006 Section 41 (S41) species, Birds of Conservation Concern (BoCCs) Amber and Red List species (as per Stanbury *et al.*, 2021⁵), Lincolnshire/Doncaster Local Biodiversity Action Plan (LBAP) species^{6,7}, and Annex 1 and Schedule 1 species only.

³ UK Government, 2025. Wildlife and Countryside Act 1981. [online] Legislation.gov.uk. Available at: <https://www.legislation.gov.uk/ukpga/1981/69> [Accessed 16 Jul. 2025].

⁴ European Commission, 2023. Birds Directive. [online] Environment.ec.europa.eu. Available at: https://environment.ec.europa.eu/topics/nature-and-biodiversity/birds-directive_en [Accessed 16 Jul. 2025].

⁵ Stanbury, A.J., Eaton, M.A., Aebischer, N.J., Balmer, D., Brown, A.F., Douse, A., Lindley, P., McCulloch, N., Noble, D.G. & Win, I. 2021. The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. *British Birds* 114: 747.

⁶ <https://www.nelincs.gov.uk/wp-content/uploads/2016/02/201110-LincolnshireBAP-3rd-edition.pdf> (Accessed: 21st August 2025)

⁷ <https://www.doncaster.gov.uk/services/environmental/doncaster-biodiversity-action-plan> (Accessed: 21st August 2025)

- 2.1.3 Furthermore, the search was restricted to only those records for the last 10 years (2013; as part of the 2023 desk study search during the first issue of the report in 2023), to ensure the most up to date information is considered, and less relevant historic records discounted.
- 2.1.4 The results of the desk study are summarised in Section 3.1, with further details presented in Annex 1.

2.2 Non-breeding bird surveys methods during Year 1 and Year 2

- 2.2.1 Surveys were carried out within all suitable habitats within the Order Limits, and all suitable fields within a 600m buffer (the 'Wider Survey Area') of the Order Limits, as shown in **Figure 1**. The combination of the Order Limits and Wider Survey Area will be termed 'Survey Area' hereafter. Note that the survey area changed from Year 1 to Year 2, based on the design evolution of the Scheme. However, all results presented within this document are based on the current design.
- 2.2.2 A total of 14 walkover survey visits (two per month) were completed between September 2022 and March 2023 (Year 1), one diurnal and one nocturnal, with 23 walk-over surveys (three per month, two in April) completed between September 2023 and April 2024 (Year 2). All walk-overs used the 'look-see' methodology as described in Gilbert *et al.* 1998⁸. During each survey visit surveyors observed each field within the Survey Area, walking the boundaries and stopping at intervals and scanning the fields for bird species, with binoculars.
- 2.2.3 All bird species seen and (or) heard were recorded onto field maps. The number of Secondary Species were tallied during the survey; however, these were not formally mapped.
- 2.2.4 A total of seven Nocturnal walkover survey visits were completed adopting an adapted version of the 'look-see' methodology (Gilbert *et al.* 1998⁸). During each survey visit surveyors observed each field within the Survey Area, walking the boundaries and stopping at intervals and scanning the fields for bird species, with thermal imaging cameras and recording vocalisations of birds where possible.
- 2.2.5 Surveys were carried out using Pulsar Lexion thermal imaging cameras used to aid detection of species and where possible record the birds to species level. Where individual birds were unidentifiable due to distance or small size of the species, surveyors used knowledge of behaviour and suitable habitat for these species to make an informed estimate of a species group e.g., *Calidris wader* (sanderling or dunlin).

Survey Area

- 2.2.6 For ease of interpreting the survey results, fields within the Survey Area were numbered 1-626. Fields within the Order Limits and within the Wider Survey Area are defined in **Table 2.1 below** and illustrated on **Figures 2-7**.

Table 2.1: Field allocations for Order Limits and Wider Survey Area.

Land Parcel	Field Number Range
The Order Limits	1-13, 15-35, 37-43, 45-54, 60-64, 67-106, 113-120, 122, 129-130, 132-138, 141-142, 152, 168-176, 180, 217-218, 220-222, 226, 243-246, 248-249, 253-256, 275, 279-285, 289-292, 392, 394, 402, 407-413, 415-416, 420, 436-437, 496-500, 521, 563-564, 570-624 and 626.
Outside of the Order Limits	14, 36, 44, 55-59, 65-66, 107-112, 121-128, 131, 139, 140, 143-149, 150-151, 153-167, 177-178, 181-216, 219, 223-242, 247, 250-252, 257-274, 276-278, 286-288, 293-325, 331-348, 350-353, 355, 357-406, 414, 417-435, 438-495, 501- 543, 545-562, 565-569 and 625.

⁸ Gilbert G, Gibbons D.W. and Evans J. (1998) *Bird Monitoring Methods*. RSPB Sandy.

Survey Effort

Year 1 (2022/23)

- 2.2.7 Non-breeding bird surveys (diurnal and nocturnal) were undertaken between September 2022 and April 2023.
- 2.2.8 During Year 1, Nocturnal Bird Surveys were carried out in tandem with the diurnal non-breeding Bird Surveys.

Year 2 (2023/24)

- 2.2.9 A second year of non-breeding bird surveys were undertaken between September 2023 and March 2024.
- 2.2.10 Nocturnal Bird Surveys were carried out separately from diurnal non-breeding bird surveys and were carried out monthly between September 2023 and March 2024.

Vantage Point Surveys

- 2.2.11 Between September 2023 and March 2024 (not carried out during the April 2024 passage period), Vantage Point (VP) flight activity surveys were undertaken from six VP locations:
- VP1 – SE 72180 11755;
 - VP2 – SE 70377 08799;
 - VP3 – SE 72059 09720;
 - VP4 – SE 75858 10057;
 - VP5 – SE 74195 12713; and,
 - VP6 – SE 71099 15154.
- 2.2.12 **Figure 8** shows the VP locations used and their viewshed coverage which appropriately covered the Order Limits.
- 2.2.13 The VP flight activity surveys followed the NatureScot guidance (SNH, 2017⁹) which although is intended for wind farm developments, is considered appropriate to use for the Scheme, in the absence of guidance specific to solar farm developments. Surveys were carried out over a 3hr period, with flights and activity of Notable Species recorded onto basemaps. Any activity by Secondary Species was also recorded every 15 minutes, but detailed flights of these species were not recorded.
- 2.2.14 All VP surveys were undertaken during daylight hours, and throughout the survey period surveys were timed to cover the full range of low and high tide times which are likely to influence bird use of nearby terrestrial habitats, such as within the Survey Area.
- 2.2.15 Survey effort for VP flight activity surveys and a breakdown of survey conditions are presented in **Annex 2**. A summary of VP survey effort is presented below in **Table 2.2**.

Table 2.2: VP Flight Activity Survey Effort (hrs)

VP	2023				2024			Total
	September	October	November	December	September	October	November	
1	3	3	3	3	3	3	3	21

⁹ Scottish Natural Heritage (2017) - *Guidance Note - Recommended Bird Survey Methods To Inform Impact Assessment of Onshore Windfarms* – available at <https://www.nature.scot/doc/recommended-bird-survey-methods-inform-impact-assessment-onshore-windfarms>

2	3	3	3	3	3	3	3	21
3	3	3	3	3	3	3	3	21
4	3	3	3	3	3	3	3	21
5	3	3	3	3	3	3	3	21
6	3	3	3	3	3	3	3	21

Field Survey Limitations

- 2.2.16 In response to scheme design, the Order Limits boundary has evolved over time. As such, a c.25ha area beyond the southern boundary of the Survey Area was not subject to survey in 2022/23. This area consists of intensively managed agricultural land which is consistent with the majority of the Survey Area. This area was surveyed in 2023/24, so was surveyed throughout the Year 2 survey period. It is therefore considered that this combined with the relatively small extent of the area is not a limitation to the survey and subsequent assessment.
- 2.2.17 As a result of changes to the Order Limits boundary, the following fields included on **Figures 2-7** were excluded from the Survey Area: 326-330, 349, 354, 356, 442-444 and 575-580. Of these, only fields 575-577 and 579-580 are within 600m of the suitable fields comprising the Order Limits.
- 2.2.18 Access was permitted to all other parts of the Order Limits during all surveys. All fields considered suitable for Notable Species within the Wider Survey Area were visible from the Order Limits and/or PRoWs.
- 2.2.19 Nocturnal surveys were aided by Pulsar night-vision scopes however, it is appreciated that identification to species level is not always possible, so observers used knowledge of likely species and their behaviour to identify species as best as possible.
- 2.2.20 No significant limitations in the field survey data in informing the design and assessment of the Scheme are therefore identified.

3 RESULTS

3.1 Desk Study Results

- 3.1.1 **Annex 1** provides details of relevant recent historical ornithological records returned from the Doncaster Biodiversity Records Centre (DBRC) and Greater Lincolnshire Nature Partnership (GLNP).
- 3.1.2 In summary, a variety of Notable Species were returned in the desk study, with the most relevant species considered to be those listed on the Humber Estuary SPA non-breeding waterbird assemblage. Such species returned included bittern, crane, curlew, goldeneye, green sandpiper, greylag goose, hen harrier, lapwing, little egret, mallard, marsh harrier, oystercatcher, pink-footed goose, ringed plover, shelduck, shoveler and wigeon.
- 3.1.3 The most frequent records referred to those observations of birds within Crowle Moor and Thorne Moor within the Thorne & Hatfield Moors SPA to the immediate northeast of the Order Limits.
- 3.1.4 These records informed the identification of Notable Species for survey and recording and the approach to surveys, including the requirement for nocturnal surveys.
- 3.1.5 Although this data search was carried out in 2023, it remains relevant as the landscape has not changed, the species involved are highly mobile, and the data provides a good overall representation.

3.2 Non-Breeding Bird Surveys – Year 1 (2022/23)

- 3.2.1 Ten qualifying species and species part of the wider waterbird assemblage were identified during the non-breeding bird surveys, within the Order Limits. The general trend of peak bird activity during autumn and early winter (September–January), with notable declines from February onward. Greylag goose, pink-footed goose, lapwing, and golden plover were especially abundant in the earlier months. By March and April, most species had decreased significantly or disappeared altogether, indicating seasonal migration patterns or reduced local presence in late winter to early spring.
- 3.2.2 Other notable waterbird species recorded within the Order Limits include whooper swan (Annex 1) with two flocks of 23 and 34 recorded as utilising the area during February and January. Other records included grey heron (peak count 1), and little grebe (2).
- 3.2.3 Marsh harrier, a qualifying non-breeding species of the Humber Estuary SPA and Ramsar was recorded during September and December.
- 3.2.4 Schedule 1 bird species recorded within the Order Limits included barn owl (2), hen harrier (1), peregrine (1), and osprey (1).
- 3.2.5 Outside of the Order Limits, seasonal patterns occurred in bird activity, with peak counts primarily evident in autumn and early winter. Pink-footed goose (peak 700) and lapwing (peak 260) showed the highest numbers, especially in September and October, which coincided with the autumn migration period. Golden plover also peaked sharply in October (480) and did not reach numbers similar to this hereafter. Greylag goose numbers were minimal in September (peak of 150), and did not occur within the Wider Survey Area thereafter. Mallard exhibited steady presence through the winter months, peaking in January (42). Most other species appeared in low numbers or sporadically, with only isolated records, such as common crane (3) and marsh harrier (2).
- 3.2.6 Schedule one species recorded outside of the Order Limits, include barn owl (1), hen harrier (1), osprey (1), peregrine (1) and red kite (1).
- 3.2.7 All data collected can be found in **Annex 3**.

Table 3.1: SPA qualifying species recorded within and outside of the Order Limits during 2022/23.

Note: nocturnal and diurnal surveys were combined and peak count of the two. The Humber Estuary WeBS 5 year mean is also presented for the relevant year 23/24¹⁰.

Species	2022				2023		
	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Within the Order Limits							
Curlew	0	0	0	0	0	0	2
Golden plover (WeBS 5-year mean for the Humber Estuary 21,623)	53	0	0	37	21 (0.1%)	0	0
Green sandpiper	1	1	1	0	1	0	0
Greylag goose	375	0	19	0	0	0	8
Lapwing	390	25	31	127	260 (2.19%)	32 (0.27%)	32 (0.27%)

¹⁰ Calbrade, N.A., Birtles, G.A., Woodward, I.D., Feather, A., Hiza, B., Caulfield, E., Balmer, D.E., Peck, K., Wotton, S.R., Shaw, J.M., and Frost, T.M. 2025. *Waterbirds in the UK 2023/24: The Wetland Bird Survey and Goose & Swan Monitoring Programme*.

WeBS 5-year mean for the Humber Estuary 11,859							
Little egret	0	1	1	0	0	0	1
Mallard	92	24	0	12	27	64	6
Pink-footed goose WeBS 5-year mean for the Humber Estuary 27,329	330	360	0	0	0	0	0
Shoveler	0	0	0	0	2	0	0
Teal	0	2	0	3	6	0	4
Outside of the Order Limits							
Golden plover	76	480	21	20	1	0	38
Green sandpiper	0	0	0	1	0	0	0
Greylag goose	150	0	0	0	0	0	0
Lapwing	260	136	1	0	14	6	13
Little egret	1	2	1	1	1	0	0
Mallard	60	2	5	42	21	17	10
Pink-footed goose	700	40	0	0	0	0	0
Shoveler	1	0	0	0	0	0	0
Teal	0	0	0	0	23	3	9
Common crane	3	0	0	0	0	0	2

Source: Contains Wetland Bird Survey (WeBS) data from Waterbirds in the UK 2023/24 © copyright and database right 2025. WeBS is a partnership jointly funded by the BTO, RSPB and JNCC, with fieldwork conducted by volunteers.

[*]Supplementary counts from the Goose and Swan Monitoring Partnership (GSMP) only are also released under Open Government Licence v3.0. Reuse of these should contain the attribution statement: "Contains Goose and Swan Monitoring Programme (GSMP) data from Waterbirds in the UK 2023/24 © copyright and database right 2025. GSMP is a partnership, run by and jointly funded by BTO, JNCC and NS, with fieldwork conducted by both volunteer and professional surveyors."

3.3 Non-Breeding Bird Surveys – Year 2 (2023/24)

- 3.3.1 Twelve notable non-breeding bird species that are qualifying features and part of the wider bird assemblage were recorded within the Order Limits during the non-breeding bird surveys.
- 3.3.2 Non-breeding bird species recorded within the Order Limits showed clear seasonal trends among the bird species recorded throughout the Survey Area. Many species recorded, including dunlin, lapwing, greylag goose, golden plover, and pink-footed goose, peaked in autumn (October–November), suggesting migratory stopovers or early winter arrivals. Several waterfowl, such as mallard, wigeon, and teal, were more prominent during winter months (December–February), indicating overwintering behaviour. In early spring (March–April), species such as curlew, little egret, and oystercatcher began to appear, likely reflecting returning migrants. Overall, there was a pattern of sharp autumn influxes followed by gradual winter declines and early spring arrivals.
- 3.3.3 Outside of the Order Limits showed that most species peaked in autumn (September–November), especially pink-footed goose, greylag goose, and golden plover, indicating migratory movement. Lapwing, mallard, and teal maintained more consistent presence across months, with mallard and lapwing showing slight increases in February–March. Little egret appeared most common in early autumn, disappearing by winter. Overall, the area appeared to support autumn migration activity, with fewer species and lower numbers through winter and early spring.
- 3.3.4 All data collected can be found in **Annex 3**

Table 3.2. SPA qualifying species and species part of the wider waterbird assemblage recorded within and outside of the Order Limits during the Winter Walkover and Nocturnal Bird Surveys combined during 2023/24.

Note: nocturnal and diurnal surveys were combined and the maximum peak count of the two is provided alongside the percentage of the most up to date (2023/24) WeBS 5-year mean¹¹ Those in bold indicate numbers >1% WeBS 5-year mean for the Humber Estuary.

Species	2023				2024			
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Within the Order Limits								
Curlew	0	0	0	0	0	0	2	2
Dunlin	0	6	27	0	0	0	0	0
Little egret	0	1	0	0	0	0	1	0
Green sandpiper	0	0	0	1	0	0	0	0
Greylag goose	0	210	157	12	0	27	76	9
Golden plover (WeBS 5-year mean for the Humber Estuary 21,623)	0	0	82 (0.38%)	2 (0.009 %)	84 (0.389 %)	0	6 (0.028 %)	0
Lapwing WeBS 5-year mean for the Humber Estuary 11,859	5 (0.042 %)	220 (1.855%)	371 (3.129 %)	53 (0.447 %)	79 (0.666 %)	147 (1.24% %)	11 (0.093 %)	4 (0.034 %)
Mallard	2	33	78	125	49	92	16	10
Oystercatcher	0	0	0	0	0	0	2	0
Pink-footed goose WeBS 5-year mean for the Humber Estuary 27,329	0	1600* (5.85%)	620 (2.27%)	194 (0.71%)	0	1530 (5.63% %)	0	0
Teal	0	0	0	2	12	2	2	1
Wigeon	0	6	0	0	0	42	0	0
Outside of the Order Limits								
Little egret	2	2	6	4	0	0	0	0
Greenshank	1	0	1	0	0	0	0	0
Greylag goose	0	184	36	64	0	0	22	1
Golden plover	0	3	20	0	1	0	0	0
Lapwing	54	48	28	12	27	66	29	2
Mallard	49	57	28	30	8	63	47	2
Pink-footed goose	0	1120	0	668	14	0	0	0
Teal	3	4	5	18	8	9	6	2

* Single large flock spread across four fields (1,600, 1,400, 84 and 9 birds) showing large flock of 3,133 birds

3.3.5 Other notable waterbirds recorded during the non-breeding bird surveys and were not considered part of the SPA wider assemblage, included gull species (black-headed, common, herring, lesser black-backed and greater black-backed), cormorant, Canada goose, Egyptian goose, gadwall, goosander, grey heron, mute swan and tufted duck.

¹¹ Calbrade, N.A., Birtles, G.A., Woodward, I.D., Feather, A., Hiza, B., Caulfield, E., Balmer, D.E., Peck, K., Wotton, S.R., Shaw, J.M., and Frost, T.M. 2025. *Waterbirds in the UK 2023/24: The Wetland Bird Survey and Goose & Swan Monitoring Programme*. BTO/RSPB/JNCC/NatureScot. Thetford.

3.3.6 Schedule 1 species recorded within the Order Limits also included barn owl, merlin and peregrine, where a single bird was recorded during the surveys. Marsh harrier (peak count of one individual), an SPA qualifying species was also recorded within the Order Limits foraging, as well as outside of the Order Limits.

3.3.7 See below for a summary of field usage of SPA qualifying features and the wider assemblage.

- Field 8: mallard in November (17).
- Field 11: lapwing (111 in September) and pink-footed goose (1530 in January).
- Field 16: key site for geese in September—greylag goose (135) and pink-footed goose (1600).
- Field 17: greylag goose (210, 27) and pink-footed goose (1440).
- Field 18: lapwing (371, 147), greylag goose (157), and mallard (125, 29).
- Field 37: green sandpiper (1), exceeding its threshold in October.
- Field 86: important mallard (78) in early October.
- Field 115: notable mallard site during winter (49, 28 individuals in January-February).
- Field 168: pink-footed goose (620) and greylag goose (38).
- Field 253: mallard (33, 37).
- Field 280: mallard (37 in March).
- Field 281: lapwing site (220).
- Field 289: important greylag goose area (57 in September).
- Field 291 & 292: lapwing during September (129 and 257 respectively).
- Field 402: greylag goose (76 in December).

3.4 Vantage Point Flight Activity Survey Results

3.4.1 Over the six surveys undertaken from each of the six vantage points between September 2023 and March 2024, species associated with the Humber Estuary SPA and Ramsar site included golden plover, pink-footed goose lapwing and marsh harrier. Additional Notable Species comprised common crane.

3.4.2 Flocks that exceeded 100 birds included pink-footed goose (eight flocks of between 107 and 220 birds between September 2023 and November 2023) and lapwing (six flocks of between 130 and 310 birds in October 2023, January 2024 and February 2024). Observations generally involved flocks flying over the Order Limits, with the exception of two flocks of lapwing (127 birds in October 2023 and 156 birds in January 2024) seen to land and/or be present feeding on the ground throughout the survey, which is located outside of the Order Limits.

3.4.3 Birds recorded during the vantage point flight activity surveys both on the ground and in flight are summarised in **Table 3.3**. Full survey effort is shown in **Annex 2** with the details of each flight observation shown in **Annex 4**.

Table 3.3: Vantage point flight activity survey results during 2023/24

Vantage Point	Species	No. Observations	No. Birds	On Ground?	Fields
1	Pink-footed goose	4	223	No	Flew over the Order Limits and wider area in flocks of up to 148 birds
	Golden plover	1	23	No	Flew over the Order Limits
	Marsh harrier	5	5	No	Hunting over fields
2	Pink-footed goose	5	143	No	Flew over the Order Limits in flocks of up to 47 birds
	Lapwing	3	384	No	Flew over the Order Limits in
	Marsh harrier	4	4	No	Hunting over fields
3	Pink-footed goose	7	376	No	Flew over the Order Limits in flocks of up to 141 birds
	Common crane	1	2	No	Flew from the adjacent Hatfield Moors SSSI
	Lapwing	1	2	No	Flew over the Order Limits
	Marsh harrier	2	2	No	Hunting over fields.
4	Pink-footed goose	304	11	Yes/No	Flew over the Order Limits in flocks of up to 107 birds and birds foraging on the ground of up to 7 birds.
	Lapwing	855	7	Yes/No	Flew over the Order Limits in flocks of up to 310 birds and birds foraging on the ground of up to 127 birds.
	Marsh harrier	3	3	No	Hunting over fields
5	Pink-footed goose	9	607	No	Flew over the Order Limits in flocks of up to 220 birds
	Marsh harrier	4	4	No	Hunting over fields
6	Pink-footed goose	15	611	No	Flew over the Order Limits in flocks of up to 140 birds
	Marsh harrier	4	4	No	Hunting over fields

ANNEX 1: DESK STUDY RESULTS

Table A1.1 provides a list of the species returned from the desk study from DLRC and GLNP.

Table A1.1: Desk study results provided by GLNP and DLRC.

Common name	No. of records	Source	Most recent record
Barn owl	22	GLNP	2022
	2	DLRC	2015
Bittern	3	GLNP	2021
Black Tern	1	DLRC	2018
Black stork	2	GLNP	2014
Black-headed gull	15	DLRC	2020
Black-necked grebe	1	GLNP	2018
Bullfinch	14	GLNP	2021
	15	DLRC	2018
Cetti's warbler	27	GLNP	2022
	7	DLRC	2021
Common gull	7	DLRC	2018
Corn bunting	4	GLNP	2021
	3	DLRC	2018
Common crane	1	DLRC	2019
Cuckoo	35	GLNP	2022
	3	DLRC	2021
Curlew	7	GLNP	2021
	6	DLRC	2018
Dunnock	1	GLNP	2021
	9	DLRC	2018
Fieldfare	25	GLNP	2022
	16	DLRC	2020
Gadwall	9	GLNP	2017
	16	DLRC	2018
Garganey	3	GLNP	2015
Golden oriole	1	GLNP	2018
Goldeneye	1	DLRC	2018
Golden plover	7	DLRC	2018
Goosander	11	DLRC	2021
Grasshopper warbler	7	GLNP	2020
Great white egret	1	DLRC	2018
Green sandpiper	2	GLNP	2014
	4	DLRC	2018

Common name	No. of records	Source	Most recent record
Greenland white-fronted goose	1	GLNP	2017
Greenfinch	5	DLRC	2018
Grey partridge	10	GLNP	2022
Grey wagtail	2	DLRC	2020
Greylag goose	34	GLNP	2022
	11	DLRC	2018
Hawfinch	1	DLRC	2014
Hen harrier	10	GLNP	2020
Herring gull	4	DLRC	2020
Hobby	25	GLNP	2022
Honey buzzard	2	GLNP	2015
House sparrow	15	GLNP	2021
	3	DLRC	2019
Kestrel	30	DLRC	2020
Kingfisher	2	GLNP	2021
Lapwing	14	GLNP	2022
	17	DLRC	2020
Lesser black-backed gull	2	DLRC	2018
Lesser redpoll	24	GLNP	2021
	14	DLRC	2018
Linnet	27	GLNP	2022
	9	DLRC	2021
Little egret	1	GLNP	2022
	1	DLRC	2021
Little ringed plover	2	DLRC	2018
Mallard	20	DLRC	2019
Marsh harrier	37	GLNP	2022
	10	DLRC	2018
Meadow pipit	16	DLRC	2018
Merlin	1	GLNP	2020
	5	DLRC	2018
Mistle thrush	6	DLRC	2020
Mute swan	6	DLRC	2021
Nightjar	21	GLNP	2017
	81	DLRC	2021
Oystercatcher	1	DLRC	2019
Peregrine	2	GLNP	2014
Pink-footed goose	13	DLRC	2018

Common name	No. of records	Source	Most recent record
Pochard	4	DLRC	2018
Quail	1	GLNP	2013
Red kite	1	GLNP	2014
Red-necked grebe	2	DLRC	2012
Redshank	7	DLRC	2018
Redwing	21	GLNP	2021
	13	DLRC	2018
Reed bunting	43	GLNP	2022
	11	DLRC	2018
Ring ouzel	4	GLNP	2015
Ringed plover	1	DLRC	2018
Rook	2	DLRC	2020
Shelduck	7	DLRC	2018
Short-eared owl	1	DLRC	2012
Shoveler	13	DLRC	2018
Skylark	27	GLNP	2021
	9	DLRC	2018
Snipe	10	GLNP	2021
	11	DLRC	2018
Song thrush	24	GLNP	2022
	9	DLRC	2018
Sparrowhawk	9	DLRC	2018
Spotted flycatcher	4	GLNP	2021
Starling	23	GLNP	2022
	11	DLRC	2018
Stock dove	3	DLRC	2018
Swift	32	GLNP	2020
Teal	20	DLRC	2018
Tree pipit	23	GLNP	2022
	3	DLRC	2014
Tree sparrow	20	GLNP	2020
	1	DLRC	2018
Tufted duck	12	DLRC	2018
Turtle dove	14	GLNP	2020
Water pipit	2	DLRC	2021
Whitethroat	2	DLRC	2018
Whooper swan	6	GLNP	2022
	9	DLRC	2021
Wigeon	6	DLRC	2018

Common name	No. of records	Source	Most recent record
Willow tit	8	DLRC	2018
Willow warbler	2	DLRC	2018
Woodcock	4	DLRC	2018
Woodlark	6	GLNP	2015
Woodpigeon	10	DLRC	2020
Wren	10	DLRC	2018
Yellow wagtail	2	GLNP	2014
Yellowhammer	44	GLNP	2022
	12	DLRC	2018
Yellow-legged gull	1	DLRC	2018

ANNEX 2: NON-BREEDING BIRD SURVEY EFFORT AND METADATA

Table A2.1: Survey Conditions Criteria

Wind Speed		W-Direction	Rain		Cloud Cover		Cloud Height	
Calm	0	Use 16 point Compass	None	0	In eighths e.g. 3/8		<150m	0
Light air	1		Light showers	1			150-500m	1
Light breeze	2	N	Heavy showers	2			>500m	2
Gentle breeze	3	NE	Light rain	3				
Mod. breeze	4	ENE	Heavy rain	4				
Fresh breeze	5	E						
Strong breeze	6	Etc	Visibility		Snow		Frost	
Mod. gale	7		Poor	0	None	0	None	0
Fresh gale	8		< 1km	1	On site	1	Ground	1
Strong gale	9		>1km	2	High ground	2	All day	2
Whole gale	10							

Table A2.2: Non-Breeding Bird Survey Effort 2022/23

Date	Surveyor	Start Time (24 hrs)	End time (24 hrs)	Wind Speed	Wind Direction	Rain	Cloud Height	Cloud Cover	Visibility	Frost	Snow	Notes
19/09/2022	CG/TJ	06:45	14:45	1	WNW	1	2	8	2	0	0	Light showers
20/09/2022	CG/TJ	06:45	14:45	1	W	0	2	6	2	0	0	
21/09/2022	CG/TJ	07:00	15:00	2	S	0	2	6	2	0	0	
22/09/2022	CG/TJ	07:00	12:45	2	S	0	2	4	2	0	0	
26/09/2022	CG/TJ	06:30	14:30	3	NW	0	2	6	2	0	0	
27/09/2022	CG/TJ	07:00	14:00	2	W	0	2	6	2	0	0	
28/09/2022	CG/TJ	07:00	14:00	2	NW	1	2	6	2	0	0	Light showers
29/09/2022	CG/TJ	07:00	14:00	1	N	0-2	2	6	2	0	0	Showers
30/09/2022	CG/TJ	10:00	18:00	3-4	S	2-4	2	8	2	0	0	Heavy showers and heavy rain.
13/10/2022	GT	09:00	14:00	0	-	0	-	-	2	0	0	
14/10/2022	GT	09:00	14:00	2	SW	0	2	1	2	0	0	
15/10/2022	GT	09:00	14:00	4	SW	0	2	3	2	0	0	
19/10/2022	GT	09:00	14:00	3	E	0	2	4	2	0	0	
21/10/2022	GT	09:00	14:00	4	E	2	2	8	2	0	0	Showers
25/10/2022	GT	09:00	14:00	3	SW	0	2	3	2	0	0	
26/10/2022	GT	09:00	14:00	5	SW	0	2	5	2	0	0	
27/10/2022	GT	09:00	14:00	2	S	1	2	8	2	0	0	Showers
28/10/2022	GT	09:00	14:00	3	S	2	2	7	2	0	0	Heavy showers
30/10/2022	GT	09:00	14:00	4	SW	0	2	7	2	0	0	
11/11/2022	GT	09:00	14:00	6	SW	0	2	6	1	0	0	
13/11/2022	GT	09:00	14:00	0	-	0	2	8	1	0	0	Fog
14/11/2022	GT	09:00	14:00	0	-	0	2	8	1	0	0	Fog
17/11/2022	GT	09:00	14:00	4	SW	3	2	8	1	0	0	Heavy rain
20/11/2022	GT	09:00	14:00	3	SW	0	2	8	1	0	0	
24/11/2022	GT	09:00	14:00	3	SE	0	2	8	2	0	0	
26/11/2022	GT	09:00	14:00	4	S	0	2	4	2	0	0	
27/11/2022	GT	09:00	14:00	4	S	0	2	8	2	0	0	
28/11/2022	GT	09:00	14:00	2	S	0	2	8	2	0	0	Misty
29/11/2022	GT	09:00	14:00	1	S	0	2	8	2	0	0	Misty
07/12/2022	GT/AH	17:00	00:00	2	SW	0	-	0	2	1	0	

08/12/2022	GT/AH	17:00	00:00	2	NW	0	2	7	2	0	0	
09/12/2022	GT/AH	17:00	01:30	0	-	0	-	0	1	1	0	Foggy
15/12/2022	GT	09:00	16:00	2	NW	0	-	0	2	1	0	
16/12/2022	GT	09:00	16:00	1	S	0	2	4	2	1	0	
19/12/2022	GT	09:00	16:00	5	SW	0	2	7	2	0	0	
29/12/2022	GT	09:00	16:00	6	SW	2	2	4	2	0	0	Heavy showers
12/01/2023	GT	09:00	16:00	5	SW	0	2	8	2	0	0	
13/01/2023	GT	09:00	16:00	3	N	0	2	1	2	1	0	
18/01/2023	GT	09:00	16:00	2	N	0	2	2	2	1	0	
20/01/2023	GT	09:00	16:00	3	W	0	-	0	2	0	0	
24/01/2023	GT	17:00	23:00	0	-	0	-	0	2	0	0	
25/01/2023	GT	17:00	00:00	3	NW	0	-	0	2	0	0	
27/01/2023	GT	17:00	23:00	3	SW	0	2	8	2	0	0	
30/01/2023	GT	17:00	00:00	3	W	0	2	5	2	0	0	
10/02/2023	GT	10:00	15:30	3	S	0	2	8	2	0	0	
14/02/2023	GT	09:45	15:15	0	N/A	0	2	8	2	0	0	Foggy
15/02/2023	GT	09:00	15:30	1	SW	0	2	5	2	0	0	
20/02/2023	GT	09:00	12:45	4	W	0	2	8	2	0	0	
22/02/2023	GT	18:00	23:45	2	N	3	2	8	2	0	0	
23/02/2023	GT	20:15	23:30	2	N	0	2	8	2	0	0	
26/02/2023	GT	18:30	22:45	4	NE	0	2	4	2	0	0	
27/02/2023	GT	18:00	23:00	4	NE	0	2	4	2	0	0	
05/03/2023	GT	09:00	13:00	2	W	0	2	8	2	0	0	
07/03/2023	GT	10:00	17:00	4	N	0	2	1	1	0	0	
09/03/2023	GT	09:00	15:30	3	E	0	2	8	2	0	1	Sleet
10/03/2023	GT	09:00	13:45	6	N	0	2	8	2	0	1	Flurry
29/03/2023	GT	11:00	17:30	3	SW	2	2	8	2	0	0	
31/03/2023	GT	09:15	16:15	3	NE	4	2	8	1	0	0	
01/04/2023	GT	10:00	16:30	2	NE	0	2	8	2	0	0	
02/04/2023	GT	09:30	13:45	1	E	0	2	4	2	0	0	

Table A2.3: Non-Breeding Bird Survey Effort 2023/24

Start Date	End Date	Surveyor	Start Time (24 hrs)	End time (24 hrs)	Wind Speed	Wind Direction	Rain	Cloud Height	Cloud Cover	Visibility	Frost	Snow	Notes
13/09/2023	18/09/2023	GT	N/R	N/R	4/4/2/3/4	NE/NE/SW/E/E	3/0/2/0/0	8/6/8/8/3	2/2/2/2/2	2/2/2/2/2	0/0/0/0/0	0/0/0/0/0	
25/09/2023	29/09/2023	GT	N/R	N/R	4/3/3/6/4	SW/SW/S/SW/W	0/0/0/0/0	2/4/5/8/3	2/2/2/2/2	2/2/2/2/2	0/0/0/0/0	0/0/0/0/0	
01/10/2023	06/10/2023	GT	N/R	N/R	4/5/4/3/5	S/W/SW/SW/SW	3/0/0/0/4	8/3/8/8/8	2/2/2/2/2	2/2/2/2/1	0/0/0/0/0	0/0/0/0/0	
23/10/2023	27/10/2023	GT	N/R	N/R	1/2/1/4/1	NE/NE/SE/SE/SE	0/4/0/3/0	8/8/8/8/3	0/1/2/2/2	0/2/2/2/2	0/0/0/0/0	0/0/0/0/0	
05/11/2023	09/11/2023	GT	N/R	N/R	4/3/5/3/2	NW/W/W/SE/SW	3/2/0/3/0	8/8/8/8/3	2/2/2/1/2	2/2/2/2/2	0/0/0/0/0	0/0/0/0/0	
24/11/2023	30/11/2023	GT	N/R	N/R	7/5/2/2/4	NW/W/NW/NW/NW	0/4/0/0/2	8/8/1/1/5	2/1/2/2/2	2/1/2/2/2	0/0/0/2/0	0/0/0/0/0	
08/12/2023	14/12/2023	GT	N/R	N/R	3/3/1/3/4	SW/W/SW/N/SW	0/0/0/0/0	8/6/8/5/8	2/2/1/2/2	2/2/1/2/2	0/0/0/0/0	0/0/0/0/0	Misty
20/12/2023	29/12/2023	GT	N/R	N/R	5/5/2/4/5	W/N/W/SE/SW	0/0/0/2/0	7/5/3/8/6	2/2/2/2/2	2/2/2/2/2	0/0/0/0/0	0/0/0/0/0	
05/01/2024	11/01/2024	GT	N/R	N/R	1/3/3/4	NE/E/E/NW	1/0/0/0	8/5/6/4	1/2/2/2	2/2/2/2	0/0/0/0	0/0/0/0	
16/01/2024	20/01/2024	GT	N/R	N/R	4/1/2/4	SW/W/W/SW	0/0/0/0	8/0/0/8	1/-/-/2	1/2/2/2	2/2/2/0	1/0/0/0	Light snow flurries
05/02/2024	09/02/2024	GT	N/R	N/R	4/3/1/6/1	W/W/E/E/SW	0/0/0/2/0	8/8/2/8/8	2/2/2/2/2	2/2/2/2/2	0/0/0/0/0	0/0/0/0/0	
19/02/2024	24/02/2024	GT	N/R	N/R	4/5/4/2	W/SW/W/SW	0/3/0/0	7/8/4/2	2/1/2/2	2/2/2/2	0/0/0/0	0/0/0/0	

03/03/2024	08/03/2024	GT	N/R	N/R	2/3/4/4/5	SW/E/SE/E/E	0/0/1/1/0	3/5/8/8/3	2/2/1/2/2	2/2/1/2/2	0/0/0/0/0	0/0/0/0/0	
25/03/2024	31/03/2024	GT	N/R	N/R	3/3/4/5/4	NE/E/S/SE/SE	0/0/0/0/0	6/3/1/3/4	2/2/2/2/2	2/2/2/2/2	0/0/0/0/0	0/0/0/0/0	

Table A2.4: Nocturnal Bird Survey Effort 2023/24

Date	Surveyor	Start Time (24 hrs)	End time (24 hrs)	Wind Speed	Wind Direction	Rain	Cloud Height	Cloud Cover	Visibility	Frost	Snow	Notes
28/09/2023	GT	19:30	23:30	6	SW	0	2	2	-	0	0	
29/09/2023	GT	19:30	00:30	2	W	1	8	2	-	0	0	
30/09/2023	GT	19:15	22:45	1	W	0	0	-	2	0	0	
10/10/2023	GT	N/R	N/R	2	SW	0	2	2	0	0	0	
11/10/2023	GT	N/R	N/R	4	SW	0	9	2	0	0	0	
12/10/2023	GT	N/R	N/R	4	SW	0	8	2	0	0	0	
13/11/2023	GT	N/R	N/R	5	S	0	5	2	2	0	0	
14/11/2023	GT	N/R	N/R	3	W	0	3	2	2	0	0	
15/11/2023	GT	N/R	N/R	5	W	0	8	2	2	0	0	
16/11/2023	GT	N/R	N/R	2	SE	0	8	2	2	0	0	
17/11/2023	GT	N/R	N/R	2	SW	0	8	2	2	0	0	
11/12/2023	GT	N/R	N/R	3	W	0	8	2	1	0	0	
12/12/2023	GT	N/R	N/R	1	SW	1	8	1	0	0	0	Foggy
13/12/2023	GT	N/R	N/R	3	N	0	0	0	2	0	0	
16/01/2024	GT	N/R	N/R	4	SW	0	2	2	2	2	1	Light snow flurries
17/01/2024	GT	N/R	N/R	1	W	0	0	-	2	2	0	
18/01/2024	GT	N/R	N/R	2	W	0	0	-	2	2	0	
06/02/2024	GT	N/R	N/R	4	W	0	8	2	2	0	0	
07/02/2024	GT	N/R	N/R	2	E	0	2	2	2	0	0	
13/02/2024	GT	N/R	N/R	4	SW	0	7	2	2	0	0	
11/03/2024	GT	N/R	N/R	4	NE	1	8	1	2	0	0	
12/03/2024	GT	N/R	N/R	3	SE	0	3	2	2	0	0	

13/03/2024	GT	N/R	N/R	5	SW	0	6	2	2	0	0	
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Table A2.5: Vantage Point Survey Effort 2023/24

Start Date	Vantage Point	Surveyor	Start Time (24 hrs)	End time (24 hrs)	VP Hours	Wind Speed	Wind Direction	Rain	Cloud Height	Cloud Cover	Visibility	Frost	Snow
27/09/2023	1	GT	12:40	15:40	3	4/4/4	SE/SE/SE	0/0/0	8/8/8	2/2/2	2/2/2	0/0/0	0/0/0
23/09/2023	2	GT	15:00	18:00	3	2/1/1	SW/SW/SW	0/0/0	6/6/6	2/2/2	2/2/2	0/0/0	0/0/0
30/09/2023	3	GT	12:00	15:00	3	3/3/3	SW/SW/SW	0/3/4	7/8/8	2/2/2	2/2/2	0/0/0	0/0/0
25/09/2023	4	GT	16:00	19:00	3	3/2/1	SW/SW/SW	0/0/0	7/6/7	2/2/2	2/2/2	0/0/0	0/0/0
29/09/2023	5	GT	13:40	16:40	3	4/4/3	W/W/W	0/0/0	2/3/2	2/2/2	2/2/2	0/0/0	0/0/0
28/09/2023	6	GT	15:30	18:30	3	4/4/4	SW/SW/SW	0/0/0	8/7/8	2/2/2	2/2/2	0/0/0	0/0/0
15/10/2023	1	GT	10:30	13:30	3	2/3/3	W/W/W	0/0/0	0/0/0	-/-/-	2/2/2	0/0/0	0/0/0
16/10/2023	2	GT	13:10	16:10	3	0/0/1	-/-/E	0/0/0	7/3/3	2/2/2	2/2/2	0/0/0	0/0/0
26/10/2023	3	GT	08:30	11:30	3	1/2/2	SE/SE/SE	0/1/4	8/8/8	2/2/2	2/2/2	0/0/0	0/0/0
15/10/2023	4	GT	14:05	17:05	3	1/1/1	W/W/W	0/0/0	0/0/0	-/-/-	2/2/2	0/0/0	0/0/0
30/10/2023	5	GT	12:05	15:05	3	4/3/3	E/E/E	0/1/1	8/8/8	2/2/2	2/2/2	0/0/0	0/0/0
13/10/2023	6	GT	15:30	18:30	3	1/1/1	NW/NW/NW	3/0/0	8/4/0	2/2/2	2/2/2	0/0/0	0/0/0
14/11/2023	1	GT	13:00	16:00	3	2/3/3	W/W/SW	0/2/0	6/8/7	2/2/2	2/2/2	0/0/0	0/0/0
05/11/2023	2	GT	08:55	11:55	3	2/2/2	SE/SE/SE	0/0/0	4/2/2	2/2/2	2/2/2	0/0/0	0/0/0
27/11/2023	3	GT	10:00	13:00	3	4/4/4	NW/NW/NW	4/3/0	8/8/8	2/2/2	2/2/2	0/0/0	0/0/0
27/11/2023	4	GT	13:10	16:10	3	4/3/3	NW/NW/NW	0/0/0	8/6/6	2/2/2	2/2/2	0/0/0	0/0/0
23/11/2023	5	GT	10:50	13:50	3	5/5/5	SW/SW/SW	1/1/1	8/8/8	2/2/2	2/2/2	0/0/0	0/0/0
16/11/2023	6	GT	13:10	16:10	3	0/0/1	0/0/E	0/0/0	8/8/8	2/2/2	2/2/2	0/0/0	0/0/0
24/12/2023	1	GT	08:40	11:40	3	5/5/5	SW/SW/SW	0/0/0	8/6/6	2/2/2	2/2/2	0/0/0	0/0/0
26/12/2023	2	GT	08:40	11:40	3	2/3/3	W/W/W	0/0/0	0/0/0	-/-/-	2/2/2	0/0/0	0/0/0
18/12/2023	3	GT	13:00	16:00	3	4/5/5	SW/SW/SW	0/0/0	6/6/8	2/2/2	2/2/2	0/0/0	0/0/0
18/12/2023	4	GT	09:45	12:45	3	3/3/3	SW/SW/SW	0/0/0	6/8/7	2/2/2	2/2/2	0/0/0	0/0/0
24/12/2023	5	GT	12:05	15:05	3	6/6/6	W/W/W	0/0/0	5/6/4	2/2/2	2/2/2	0/0/0	0/0/0

03/12/2023	6	GT	13:00	16:00	3	3/3/3	N/N/N	0/0/0	4/5/4	2/2/2	2/2/2	0/0/0	0/0/0
14/01/2024	1	GT	13:00	15:00	3	2/2/2	NW/NW/NW	0/0/0	7/6/7	2/2/2	2/2/2	0/0/0	0/0/0
14/01/2024	2	GT	09:45	12:45	3	2/2/2	NW/NW/NW	0/0/0	1/3/6	2/2/2	2/2/2	1/0/0	0/0/0
31/01/2024	3	GT	11:00	14:00	3	4/4/4	SW/SW/SW	0/0/0	8/7/7	2/2/2	2/2/2	0/0/0	0/0/0
20/01/2024	4	GT	12:45	15:45	3	4/4/4	SW/SW/SW	0/1/4	8/8/8	2/2/2	2/2/2	0/0/0	0/0/0
22/01/2024	5	GT	09:20	12:20	3	5/5/5	SW/SW/SW	0/0/0	2/2/3	2/2/2	2/2/2	0/0/0	0/0/0
30/01/2024	6	GT	10:50	13:50	3	3/3/3	NW/NW/NW	0/0/0	6/5/6	2/2/2	2/2/2	0/0/0	0/0/0
26/02/2024	1	GT	12:50	15:50	3	4/4/4	N/N/N	0/0/2	2/6/8	2/2/2	2/2/2	0/0/0	0/0/0
26/02/2024	2	GT	09:40	12:40	3	4/5/4	N/N/N	3/2/0	5/3/6	2/2/2	2/2/2	0/0/0	0/0/0
23/02/2024	3	GT	10:45	13:45	3	4/4/4	W/SW/SW	0/0/0	4/2/3	2/2/2	2/2/2	0/0/0	0/0/0
11/02/2024	4	GT	10:20	13:20	3	2/2/3	W/W/W	0/0/0	7/5/5	2/2/2	2/2/2	0/0/0	0/0/0
11/02/2024	5	GT	13:35	16:35	3	3/4/4	W/NW/NW	0/0/0	1/1/5	2/2/2	2/2/2	0/0/0	0/0/0
19/02/2024	6	GT	12:00	15:00	3	5/5/6	W/W/W	0/0/0	4/5/2	2/2/2	2/2/2	0/0/0	0/0/0
22/03/2024	1	GT	11:55	14:55	3	5/5/6	W/W/W	0/0/0	4/4/8	2/2/2	2/2/2	0/0/0	0/0/0
31/03/2024	2	GT	11:30	14:30	3	4/4/4	SE/SE/SE	0/0/0	4/4/3	2/2/2	2/2/2	0/0/0	0/0/0
26/03/2024	3	GT	15:30	18:30	3	4/4/4	NE/NE/NE	0/0/0	8/8/8	2/2/2	2/2/2	0/0/0	0/0/0
22/03/2024	4	GT	08:45	11:45	3	4/4/5	W/W/W	0/0/0	6/6/4	2/2/2	2/2/2	0/0/0	0/0/0
12/03/2024	5	GT	15:00	18:00	3	3/3/4	SW/SW/SW	0/0/0	6/7/8	2/2/2	2/2/2	0/0/0	0/0/0
27/03/2024	6	GT	11:20	14:20	3	5/5/5	S/SW/SW	0/0/2	7/8/8	2/2/2	2/2/2	0/0/0	0/0/0

ANNEX 3: BIRD SPECIES RECORDED DURING 2022/23 AND 2023/24

Table A3.1: Bird species Recorded within the Order Limits during the 2022/2023 walk over surveys. Note that this includes diurnal and nocturnal walk-over surveys.

Field No	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
1	Mallard	4	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Mallard	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Grey heron	2	-	-	-	-	-	-	-	-	-	1	-	-	-
	Snipe	1	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Little owl	-	-	-	-	-	-	-	-	-	-	-	1	-	-
8	Lapwing	-	-	-	-	-	-	-	-	-	-	-	-	1	-
	Little owl	-	-	-	-	-	-	-	-	-	-	-	1	-	-
10	Mute swan	8	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	4	1
	Little grebe	2	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Mute swan	-	-	-	6	-	-	-	2	-	-	-	-	1	1
	Pink-footed goose	-	-	156	-	-	-	-	-	-	-	-	-	-	-
	Grey heron	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	Lapwing	-	-	-	-	-	-	-	-	-	-	-	-	32	-
	Marsh harrier	-	-	-	-	-	-	-	-	-	-	(1)	-	-	-
	Peregrine	-	-	1	-	-	-	-	-	-	-	-	-	-	-

Field No	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
12	Pink-footed goose	(22)	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Lapwing	-	-	-	-	-	-	-	-	-	-	-	20	-	-
	Curlew	-	-	-	-	-	-	-	-	-	-	-	-	2	-
16	Mallard	-	-	-	-	-	-	-	-	-	-	-	1	4	-
17	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	2	-
	Lapwing	-	-	-	-	-	-	-	-	-	-	-	-	2	-
18	Mute swan	-	-	-	-	9	-	-	-	-	-	-	-	-	-
	Mallard	-	-	-	-	-	-	-	-	-	-	-	1	-	2
	Lapwing	-	-	-	23	31	-	2	19	64	-	-	-	-	-
	Golden plover	-	-	-	-	-	-	-	-	11	-	-	-	-	-
	Snipe	-	-	-	-	-	-	10	-	-	-	-	-	-	-
	Marsh harrier	(1)	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Barn owl	-	-	-	-	-	-	1	-	-	-	-	-	-	-
	Mallard	92	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Grey heron	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Lapwing	-	26	-	-	-	-	-	-	-	-	-	-	-	-
22	Woodcock	-	-	-	-	-	2	-	-	-	-	-	-	-	-
24	Lapwing	94	24	-	-	-	-	-	-	-	-	-	-	-	-
26	Barn owl	-	-	-	-	-	-	1	-	-	-	-	-	-	-

Field No	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
29	Pink-footed goose	-	-	6	-	-	-	-	-	-	-	-	-	-	-
30	Marsh harrier	-	-	(2)	-	-	-	-	-	-	-	-	-	-	-
31	Pink-footed goose	-	-	360	1	-	-	-	-	-	-	-	-	-	-
34	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	1	-
35	Mute swan	-	-	-	-	-	2	-	-	2	-	2	-	-	-
	Whooper swan	-	-	-	-	-	-	-	-	-	-	23	-	35	-
	Mallard	-	-	-	-	-	-	-	-	-	-	7	-	-	-
	Lapwing	-	-	-	-	-	-	-	-	-	-	-	-	-	2
36	Lapwing	-	-	-	-	-	-	-	-	-	-	-	-	-	2
39	Pink-footed goose	-	(475)	-	-	-	-	-	-	-	-	-	-	-	-
	Golden plover	-	53	-	-	-	-	-	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	2	-	-	-	-
41	Woodcock	-	-	-	-	-	-	-	-	-	1	-	-	-	-
42	Pink-footed goose	-	330	-	-	-	-	-	-	-	-	-	-	-	-
	Golden plover	-	27	-	-	-	-	-	-	-	-	-	-	-	-
43	Pink-footed goose	-	135	-	-	-	-	-	-	-	-	-	-	-	-
50	Green sandpiper	-	1	-	-	-	-	-	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	2	-	-	-	-
	Marsh harrier	-	-	-	-	-	-	-	1	-	-	-	-	-	-

Field No	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
61	Pink-footed goose	(1)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mallard	-	2	-	-	-	-	-	-	-	-	-	-	-	-
	Grey heron	1	-	-	-	-	-	-	-	-	-	-	-	-	-
63	Green sandpiper	-	1	-	-	-	-	-	-	-	-	-	-	-	-
64	Little egret	(1)	-	-	-	-	-	-	-	-	-	-	-	-	-
65	Grey heron	3	-	-	-	-	-	-	-	-	17	-	-	-	-
	Lapwing	260	-	-	-	-	-	-	-	-	-	-	-	-	-
	Red kite	(1)	-	-	-	-	-	-	-	-	-	-	-	-	-
69	Lapwing	-	-	-	-	-	-	14	-	-	-	-	-	-	-
70	Barn owl	-	-	-	-	-	-	-	-	-	-	-	1	-	-
73	Golden plover	-	12	-	-	-	-	-	-	-	-	-	-	-	-
	Marsh harrier	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)
74	Grey heron	-	1	-	-	-	-	-	-	-	-	-	-	-	-
75	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Snipe	-	-	-	-	-	-	1	-	-	-	-	-	-	-
76	Teal	-	-	-	-	-	-	-	-	-	4	-	-	-	-
	Snipe	-	-	-	-	-	-	-	-	-	1	-	-	-	-
	Jack snipe	-	-	-	-	-	-	-	-	-	1	-	-	-	-
79	Lapwing	-	19	-	-	-	-	-	-	-	-	-	-	-	-

Field No	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
81	Barn owl	-	-	-	-	-	-	-	-	-	2	-	-	-	-
83	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	-	1
84	Little egret	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Lapwing	-	-	-	-	-	-	53	-	-	-	-	-	-	-
86	Lapwing	-	-	-	-	-	-	18	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
87	Lapwing	-	-	-	-	-	-	-	12	-	-	-	-	-	-
92	Woodcock	-	-	-	-	-	-	1	-	-	-	-	-	-	-
93	Pink-footed goose	-	(1)	-	-	-	-	-	-	-	-	-	-	-	-
	Peregrine	1	1	-	-	-	-	-	-	-	-	-	-	-	-
94	Grey heron	-	1	-	-	-	-	-	-	-	-	-	-	-	-
95	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	-	2
	Grey heron	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Marsh harrier	-	(1)	-	-	-	-	-	-	-	-	-	-	-	-
	Barn owl	-	-	-	-	-	-	-	-	-	-	-	1	-	-
98	Lapwing	-	-	-	-	-	-	-	9	-	-	-	-	-	-
100	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	2	-
	Grey heron	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	2	-	-	-	-	-	-	-

Field No	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
103	Lapwing	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	Golden plover	-	-	-	-	-	-	-	1	-	-	-	-	-	-
104	Mallard	-	-	-	9	-	-	-	-	-	-	-	-	-	-
	Teal	-	-	-	-	-	-	3	-	-	-	-	-	4	-
105	Pink-footed goose	(36)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Grey heron	-	-	3	-	-	-	-	-	-	-	-	-	-	-
106	Greylag goose	-	-	-	-	-	-	-	-	-	-	-	-	-	8
	Mallard	-	-	12	-	-	-	-	-	-	27	-	-	-	3
	Teal	-	-	2	-	-	-	-	-	-	6	-	-	-	-
	Shoveler	-	-	-	-	-	-	-	-	-	2	-	-	-	-
	Grey heron	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	Lapwing	-	-	-	-	-	-	-	-	-	112	-	32	-	-
113	Pink-footed goose	-	(1)	-	-	-	-	-	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	5	-	-	3	-	-	-	-
114	Grey heron	-	1	-	-	-	-	-	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	2	-	-	9	-	-	-	-
115	Mute swan	-	-	-	-	-	-	2	-	-	-	-	-	-	-
	Mallard	-	-	-	24	-	-	12	-	-	-	-	-	-	2
	Teal	-	-	-	-	-	-	-	-	-	-	-	-	-	3

Field No	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
	Woodcock	-	-	-	-	-	-	1	-	-	-	-	-	-	-
116	Woodcock	-	-	-	-	-	-	-	-	-	3	-	-	-	-
	Peregrine	-	-	-	-	-	-	-	-	-	-	1	-	-	-
	Barn owl	-	-	-	-	-	-	-	-	-	-	-	1	-	-
117	Mute swan	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mallard	-	-	-	-	-	-	3	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	1	-	-	-	-
118	Golden plover	-	-	-	-	-	-	-	-	-	21	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	Hen harrier	-	-	-	-	-	-	-	(1)	-	-	-	-	-	-
	Marsh harrier	-	(1)	-	-	-	-	-	-	-	-	-	-	-	-
119	Lapwing	-	-	-	-	-	-	-	3	-	-	-	-	-	-
	Snipe	-	-	-	-	-	-	-	2	-	-	-	-	-	-
120	Mallard	-	-	-	-	-	-	4	-	-	-	1	-	-	-
	Little egret	-	-	-	-	-	-	-	-	-	-	-	-	1	-
	Golden plover	17	3	-	-	-	-	-	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	-	-	4	-	-
121	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
129	Green sandpiper	-	-	1	-	-	-	-	-	-	-	-	-	-	-

Field No	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
130	Lapwing	-	-	25	-	-	-	-	-	-	-	-	-	-	-
132	Grey heron	-	-	-	2	-	-	-	-	-	-	-	-	-	-
135	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
136	Pink-footed goose	-	-	(209)	-	-	-	-	-	-	-	-	-	-	-
	Snipe	-	-	-	-	-	-	-	-	-	-	-	1	-	-
137	Grey plover	(17)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Snipe	(1)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Marsh harrier	(1)	-	-	-	-	-	-	-	-	-	-	-	-	-
175	Greylag goose	7	-	-	-	-	-	-	-	-	-	-	-	-	-
252	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	2	-
275	Lapwing	-	-	-	-	-	-	-	-	-	-	-	-	-	2
282	Whooper swan	-	-	-	-	-	-	-	-	-	-	-	-	8	-
	Pink-footed goose	-	-	-	-	-	(320)	-	-	-	-	-	-	-	-
	Lapwing	-	-	-	-	-	-	-	16	-	-	-	-	-	-
284	Lapwing	-	-	-	-	-	-	-	-	-	-	-	-	14	2
285	Woodcock	-	-	-	-	-	-	-	-	-	-	-	4	-	-
288	Lapwing	-	-	-	-	-	-	-	-	-	9	-	-	13	-
290	Mallard	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	Lapwing	-	-	-	-	-	-	-	-	-	-	-	2	-	9

Field No	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
	Woodcock	-	-	-	-	-	-	2	-	-	-	-	2	-	-
497	Pink-footed goose	32	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lapwing	-	-	-	-	-	-	78	77	-	32	-	-	-	-
	Golden plover	-	-	-	-	-	-	-	11	-	-	-	-	-	-
	Barn owl	-	-	-	-	-	-	1	-	-	-	-	-	-	-
498	Mallard	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	Lapwing	-	390	-	-	-	-	-	-	-	7	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	Osprey	1	-	-	-	-	-	-	-	-	-	-	-	-	-

Species associated with the Humber Estuary SPA recorded in **bold**.

'-' means that the species was not recorded during that visit.

Those in brackets were recorded in flight only.

Table A3.2: Bird species Recorded within the Wider Survey Area 2022/23. Note that this includes diurnal and nocturnal walk-over surveys.

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
58	Golden plover	-	-	23	480	-	-	-	-	-	-	-	-	-	-
59	Lapwing	-	-	-	-	-	-	-	-	-	-	-	-	2	-
66	Lapwing	-	-	-	-	-	-	-	-	-	2	-	-	-	-
124	Grey heron	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
125	Mallard	-	-	-	-	-	-	-	-	-	-	-	4	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	-	-	3	-	-
140	Barn owl	-	-	-	-	-	-	-	-	-	(1)	-	-	-	-
144	Marsh harrier	-	(1)	-	-	-	-	-	-	-	-	-	-	-	-
149	Lapwing	9	-	-	-	-	-	-	-	-	-	-	-	-	-
	Golden plover	16	-	-	-	-	-	-	-	-	-	-	-	-	-
158	Pink-footed goose	5	-	-	-	-	-	-	-	-	-	-	-	-	-
164	Pink-footed goose	-	-	-	-	-	-	-	-	-	-	-	9	-	-
	Goose (<i>Anser</i>) sp.	-	-	-	-	-	-	-	-	-	49	-	-	-	-
	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	7	-
	Woodcock	-	-	-	-	-	-	-	-	-	1	-	-	-	-
168	Mute swan	-	-	-	-	-	-	-	-	-	-	2	-	-	-
	Pink-footed goose	(26)	-	(752)	-	-	-	-	-	-	-	-	-	-	-

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
	Grey heron	-	-	-	-	1	-	-	-	-	-	1	-	-	-
	Little egret	-	-	-	1	-	-	-	-	-	-	-	-	-	-
169	Mute swan	-	-	-	-	-	-	-	-	-	-	-	-	-	2
	Whooper swan	-	-	-	-	8	8	-	-	-	-	-	-	-	-
	Pink-footed goose	(23)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Greylag goose	-	-	-	-	19	-	-	-	-	-	-	-	-	-
	Mallard	-	-	-	-	-	-	-	-	-	-	-	2	-	-
	Grey heron	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Lapwing	-	-	-	-	-	-	96	-	5	2	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	Hen harrier	-	-	-	-	-	-	-	(1)	-	-	-	-	-	-
173	Lapwing	-	-	-	-	-	-	127	-	-	-	-	-	-	-
	Barn owl	-	-	-	-	-	-	-	-	-	1	-	-	-	-
182	Mute swan	-	-	-	-	-	-	-	-	-	-	-	-	3	-
	Common crane	-	-	3	-	-	-	-	-	-	-	-	-	-	-
185	Grey heron	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lapwing	-	-	136	-	-	-	-	-	-	-	-	-	-	-
187	Woodcock	-	-	-	-	-	-	-	-	-	-	-	2	-	-
191	Mallard	60	-	-	-	-	-	-	-	-	-	-	-	-	-

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
194	Pink-footed goose	-	-	(251)	-	-	-	-	-	-	-	-	-	-	-
195	Pink-footed goose	-	-	(234)	-	-	-	-	-	-	-	-	-	-	-
216	Pink-footed goose	24	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mallard	5	-	-	-	-	-	-	-	-	-	-	-	-	-
	Grey heron	-	-	-	1	-	-	-	-	-	-	-	-	-	-
217	Mallard	-	-	-	-	-	-	-	-	-	-	8	-	6	-
	Lapwing/Golden Plover	-	-	-	-	-	-	-	-	-	6	-	-	-	-
220	Mallard	40	-	-	-	-	-	-	-	-	-	-	-	-	-
221	Barn owl	-	-	-	-	-	-	-	-	-	1	-	-	-	-
222	Pink-footed goose	46	67	-	-	-	-	-	-	-	-	-	-	-	-
	Greylag goose	375	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mallard	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hen harrier	-	-	(1)	-	-	-	-	-	-	-	-	-	-	-
	Tawny owl	-	-	-	-	-	1	-	-	-	-	-	-	-	-
223	Hen harrier	-	-	(1)	-	-	-	-	-	-	-	-	-	-	-
224	Hen harrier	-	-	(1)	-	-	-	-	-	-	-	-	-	-	-
	Pink-footed goose	-	-	-	(19)	-	-	-	-	-	-	-	-	-	-
	Mallard	-	-	2	-	-	-	-	-	-	-	-	-	-	-
225	Pink-footed goose	-	-	42	-	-	-	-	-	-	-	-	-	-	-

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
	Hen harrier	-	-	(1)	-	-	-	-	-	-	-	-	-	-	-
226	Pink-footed goose	-	-	-	(73)	-	-	-	-	-	-	-	-	-	-
	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	1	2
229	Common crane	3	-	-	-	-	-	-	-	-	-	-	-	-	-
	Snipe	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hen harrier	-	-	(1)	-	-	-	-	-	-	-	-	-	-	-
230	Pink-footed goose	-	-	-	(16)	-	-	-	-	-	-	-	-	-	-
238	Little egret	-	-	-	-	-	-	-	-	1	-	-	-	-	-
242	Pink-footed goose	-	217	-	-	-	-	-	-	-	-	-	-	-	-
243	Pink-footed goose	-	48	-	-	-	-	-	-	-	-	-	-	-	-
249	Mute swan	-	-	-	-	-	-	-	2	-	-	-	-	-	-
250	Mute swan	-	-	-	-	-	-	-	-	-	-	4	-	-	-
264	Whooper swan	-	-	-	-	5	-	-	-	-	-	-	-	-	-
265	Mute swan	-	-	-	-	2	-	-	-	-	-	-	-	-	-
277	Lapwing	-	-	-	-	-	-	-	-	-	12	-	-	-	-
	Golden plover	-	-	43	-	-	-	-	-	-	-	-	-	-	-
278	Woodcock	-	-	-	-	-	-	-	-	-	-	-	3	-	-
279	Lapwing	-	-	-	-	-	-	-	-	3	-	-	-	-	-
286	Greylag goose	-	-	-	-	-	-	-	-	-	-	-	-	2	-

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
	Lapwing	-	-	-	-	-	-	-	-	14	-	-	-	-	-
287	Greylag goose	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Mallard	-	-	-	-	3	-	-	-	-	-	-	-	-	-
291	Pink-footed goose	-	(3000)	-	-	-	-	-	-	-	-	-	-	-	-
	Mallard	-	4	-	-	-	-	-	-	-	-	-	-	-	-
292	Lapwing	17	-	-	-	-	-	-	-	-	-	-	-	-	-
293	Common crane	-	-	(2)	-	-	-	-	-	-	-	-	-	-	-
304	Little egret	-	-	-	-	1	-	-	-	-	-	-	-	-	-
309	Lapwing	-	-	-	-	1	-	-	-	-	-	-	-	-	-
319	Greylag goose	(20)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	3	-
323	Lapwing	-	-	-	-	-	-	-	-	-	14	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
325	Woodcock	-	-	-	-	-	-	-	-	-	5	-	-	-	-
340	Barn owl	-	-	-	-	-	-	-	-	-	-	-	1	-	-
358	Grey heron	-	-	2	-	-	-	-	-	-	-	-	-	-	-
361	Woodcock	-	-	-	-	-	-	1	-	-	-	-	-	-	-
363	Barn owl	-	-	-	-	-	-	-	-	-	1	-	-	-	-
366	Barn owl	-	-	-	-	-	-	(1)	-	-	-	-	-	-	-

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
	Golden plover	-	38	-	-	-	-	-	-	-	-	-	-	-	-
367	Golden plover	-	23	-	-	-	-	-	-	-	-	-	-	-	-
368	Mute swan	-	-	-	-	-	-	-	-	-	-	7	-	-	-
	Mallard	4	-	-	-	-	-	-	-	-	-	-	-	-	-
	Golden plover	-	-	-	-	8	-	-	-	-	-	-	-	-	-
	Snipe	-	-	-	-	-	-	1	-	-	-	-	-	-	-
369	Little egret	-	-	-	2	-	-	-	-	-	-	-	-	-	-
	Golden plover	-	14	-	-	-	-	-	-	-	-	-	-	-	-
370	Grey heron	-	-	-	-	-	-	1	-	-	-	-	-	-	-
371	Golden plover	-	76	-	-	-	-	-	-	-	-	-	-	-	-
372	Mallard	-	-	-	-	(1)	-	-	-	-	-	-	-	-	-
	Golden plover	-	-	-	-	-	-	-	-	-	1	-	-	-	-
373	Mallard	-	22	-	-	-	-	-	-	-	-	-	-	-	-
	Shoveler	-	1	-	-	-	-	-	-	-	-	-	-	-	-
	Grey heron	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	Lapwing	-	-	37	-	-	-	-	-	-	-	-	-	-	-
376	Woodcock	-	-	-	-	-	-	-	-	-	1	-	-	-	-
378	Grey heron	2	-	-	-	-	-	-	-	-	-	-	-	-	-
380	Golden plover	-	(130)	-	-	-	-	-	-	-	-	-	-	-	-

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
	Snipe	1	-	-	-	-	-	-	-	-	-	-	-	-	-
382	Pink-footed goose	-	(160)	-	-	-	-	-	-	-	-	-	-	-	-
	Little egret	1	-	-	-	-	-	-	-	-	-	-	-	-	-
383	Mallard	5	-	-	-	-	-	-	-	-	-	-	-	-	-
384	Pink-footed goose	-	-	-	12	-	-	-	-	-	-	-	-	-	-
	Mallard	-	-	-	-	-	5	-	-	-	-	-	-	10	-
	Teal	-	-	-	-	-	-	-	-	-	-	-	-	9	-
	Grey heron	-	-	-	-	-	-	-	-	-	-	1	-	-	-
	Little egret	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Lapwing	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Golden plover	25	43	-	-	21	-	-	-	-	-	-	-	-	-
	Jack snipe	-	-	-	-	-	-	1	-	-	-	-	-	-	-
385	Mallard	-	-	-	-	-	-	-	-	21	-	-	-	-	-
	Teal	-	-	-	-	-	-	-	-	23	-	-	-	-	-
386	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	3	-
	Teal	-	-	-	-	-	-	-	-	-	-	-	-	8	-
387	Mallard	-	16	-	-	-	-	-	22	-	18	17	12	-	-
	Teal	-	-	-	-	-	-	-	-	-	-	3	2	-	-
	Grey heron	2	-	-	-	-	-	-	-	-	-	-	-	-	-

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
	Golden plover	-	-	-	-	-	12	-	-	-	-	-	-	-	-
388	Mallard	-	9	-	-	-	-	31	-	-	-	-	-	-	-
390	Golden plover	-	-	-	-	-	-	20	-	-	-	-	-	-	-
	Little owl	-	-	-	-	-	-	1	1	-	-	1	-	-	-
391	Mute swan	-	-	-	-	-	-	-	-	9	-	11	-	2	-
398	Mallard	-	-	-	-	-	-	-	42	-	-	-	-	-	-
	Grey heron	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	1	-	-	-	-	-	-	-
416	Golden plover	-	-	-	-	-	-	-	37	-	-	-	-	-	-
417	Lapwing	-	-	-	-	-	-	-	-	-	-	-	6	-	-
428	Barn owl	-	-	-	-	-	-	(1)	-	-	-	-	-	-	-
429	Woodcock	-	-	-	-	-	-	-	-	-	2	-	1	-	-
431	Pink-footed goose	(190)	(216)	-	-	-	-	-	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
436	Snipe	-	-	-	-	-	-	-	-	-	1	-	1	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	-	-	2	-	-
	Marsh harrier	-	(2)	-	-	-	-	-	-	-	-	-	-	-	-
450	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Snipe	-	-	-	-	-	-	-	-	-	2	-	-	-	-

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
464	Barn owl	-	-	-	-	-	-	1	-	-	-	-	-	-	-
465	Little owl	-	-	-	-	-	-	-	-	-	1	-	-	-	-
466	Lapwing	-	-	-	-	-	-	-	-	-	-	-	4	-	-
	Snipe	-	-	-	-	-	-	-	-	-	-	-	1	-	-
476	Little egret	-	-	-	-	-	-	-	1	-	-	-	-	-	-
485	Lapwing	-	-	-	-	-	-	-	-	-	16	-	-	-	-
	Golden plover	-	-	-	-	-	-	-	-	-	-	-	-	38	-
486	Peregrine	-	-	-	-	1	-	-	-	-	-	-	-	-	-
488	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	Barn owl	-	-	-	-	-	-	-	-	-	-	-	1	-	-
489	Lapwing	-	19	-	-	-	-	-	-	-	3	-	-	-	-
490	Woodcock	-	-	-	-	-	-	-	-	-	-	-	2	-	-
492	Lapwing	21	-	-	-	-	-	-	-	-	-	-	-	-	-
493	Lapwing	(4)	8	-	-	-	-	-	-	-	-	-	-	-	-
494	Lapwing	(17)	-	-	-	-	-	-	-	-	-	-	-	-	-
496	Lapwing	-	-	-	-	-	-	37	-	260	27	-	-	-	-
	Woodcock	-	-	-	-	-	-	1	-	-	-	-	-	-	-
501	Pink-footed goose	700	-	-	-	-	-	-	-	-	-	-	-	-	-
	Greylag goose	150	-	-	-	-	-	-	-	-	-	-	-	-	-

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
	Mallard	30	-	-	-	-	-	-	-	-	-	-	-	-	-
504	Greylag goose	-	-	-	-	-	-	-	-	-	-	-	-	2	-
	Grey heron	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	Lapwing	-	-	-	-	-	-	-	-	-	-	-	6	-	-
505	Lapwing	-	-	-	-	-	-	1	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	1	-	-	-	-	-	-	-
506	Woodcock	-	-	-	-	-	-	-	-	-	-	-	1	-	-
507	Pink-footed goose	13	-	-	-	-	-	-	-	-	-	-	-	-	-
508	Pink-footed goose	36	22	-	-	-	-	-	-	-	-	-	-	-	-
509	Osprey	1	-	-	-	-	-	-	-	-	-	-	-	-	-
511	Mallard	-	-	-	-	-	-	-	-	-	-	-	-	-	1
512	Woodcock	-	-	-	-	-	-	-	-	-	1	-	-	-	-
514	Lapwing	-	53	-	-	-	-	-	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	2	-	-	-	-	-	-	-
515	Mute swan	-	-	-	-	-	-	-	-	-	-	-	-	2	-
	Lapwing	-	-	-	-	-	-	-	-	-	14	-	-	-	-
516	Woodcock	-	-	-	-	-	-	1	-	-	-	-	1	-	-
	Barn owl	-	-	-	-	-	-	(1)	-	-	-	-	-	-	-
518	Pink-footed goose	-	(1)	-	-	-	-	-	-	-	-	-	-	-	-

Field N ^o	Species	Survey Visits													
		Sep 2022		Oct 2022		Nov 2022		Dec 2022		Jan 2023		Feb 2023		Mar 2023	
519	Pink-footed goose	-	49	-	-	-	-	-	-	-	-	-	-	-	-
521	Mute swan	-	-	-	1	-	-	-	-	2	-	-	-	-	-
	Greylag goose	-	-	-	-	-	-	-	-	-	-	-	-	2	2
	Mallard	-	-	-	-	-	-	-	-	-	-	64	-	-	-
	Grey heron	-	-	1	-	-	-	-	-	1	-	-	-	-	-
	Lapwing	-	-	-	-	-	-	45	8	-	-	-	-	-	-
	Green sandpiper	-	-	-	-	1	1	-	-	1	-	-	-	-	-
	Snipe	-	-	-	-	-	-	3	-	-	-	-	-	-	-
	Jack snipe	-	-	-	-	-	-	1	-	-	-	-	-	-	-
	Woodcock	-	-	-	-	-	-	-	-	-	1	-	-	-	-
	Tawny owl	-	-	-	-	-	-	-	-	-	1	-	-	-	-
523	Tawny owl	-	-	-	-	-	-	-	-	-	-	-	1	-	-
545	Woodcock	-	-	-	-	-	-	-	-	-	-	-	4	-	-
546	Lapwing	-	-	-	-	-	-	7	-	-	1	-	-	-	-
548	Green sandpiper	-	-	-	-	-	-	-	1	-	-	-	-	-	-
550	Marsh harrier	-	-	-	-	-	-	-	(2)	-	-	-	-	-	-
553	Common crane	-	-	-	-	-	-	-	-	-	-	-	-	2	-
Species associated with the Humber Estuary SPA recorded in bold. '-' means that the species was not recorded during that visit.															

Field Nº	Species	Survey Visits						
		Sep 2022	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023
Those in brackets were recorded in flight only.								

Table A3.3: Bird species Recorded within the Order Limits 2023/24. Winter walk-over (WWO) refers to diurnal surveys and “NOC” denotes nocturnal walk-over surveys. Numbers in brackets denote flying over.

		13/ 09/ 202 3	25/ 09/ 202 3	28/ 09/ 202 3	01/ 10/ 202 3	10/ 10/ 202 3	23/ 10/ 202 3	05/ 11/ 202 3	13/ 11/ 202 3	24/ 11/ 202 3	08/ 12/ 202 3	11/ 12/ 202 3	20/ 12/ 202 3	05/ 01/ 202 4	16/ 01/ 202 4	16/ 01/ 202 4	05/ 02/ 202 4	06/ 02/ 202 4	19/ 02/ 202 4	03/ 03/ 202 4	11/ 03/ 202 4	25/ 03/ 202 4	16/ 04/ 202 4	25/ 04/ 202 4
		Sep	Sep	Sep	Oct	Oct	Oct	Nov	Nov	Nov	Dec	Dec	Dec	Jan	Jan	Jan	Feb	Feb	Feb	Mar	Mar	Mar	Apr	Apr
Field	Species Name	WWO	WWO	NOC	WWO	NOC	WWO	WWO	NOC	WWO	WWO	NOC	WWO	WWO	NOC	WWO	WWO	NOC	WWO	WWO	NOC	WWO	WWO	WWO
1	Buzzard																1							
2	Buzzard																							1
	Grey Partridge																2							
	Mallard																					2		1
	Peregrine							1																
	Pink-footed Goose						56																	
	Woodcock											1												
4	Buzzard										1													
	Canada Goose						14																	
	Greylag Goose						1																	9
	Mallard																4						10	
	Mute Swan																			3		1		
	Woodcock														1									
5	Grey Partridge							6																

	Partridge sp.										10												
6	Buzzard						2																
7	Fieldfare								74														
8	Lapwing																		11	2	4	2	
	Mallard									4						17				1	4	2	
	Partridge sp.												8										
	Pink-footed Goose						28																
	Woodcock												1										
9	Lesser Black-backed Gull																				2		
10	Buzzard		1										1									1	
	Fieldfare									110													
	Grey Partridge															2							
	Mallard																			1	4	3	
	Partridge sp.												4										
	Redwing									175													
	Woodcock																		2				
11	Barn Owl															(1)							
11	Buzzard														1								
	Canada Goose						17																
	Curlew																				1	2	
	Fieldfare									70													
	Greylag Goose						13																

	Lapwing							111															
	Mallard	(12)																					2
	Pink-footed Goose						84										1530						
1	Black-headed Gull						172																
2	Buzzard						1													1			
	Common Gull						15																
	Lapwing						38									26							
	Lesser Black-backed Gull						18																
	Mallard																			2			
1	Lapwing																			4			
3	Mallard																4						
1	Buzzard						1																
5	Curlew																						2
	Fieldfare						430																
	Lapwing																						2
	Mallard																						2
1	Black-headed Gull						88																
6	Curlew																				1		
	Greylag Goose						135				12												
	Kestrel																			1			
	Lapwing																			2	4		
	Mallard									11							6	4			2	6	

	Pink-footed Goose						1600																	
	Woodcock																1							
17	Black-headed Gull							47																
	Buzzard																	1						
	Canada Goose						70																	
	Chaffinch															6								
	Fieldfare										140					85								
	Greylag Goose						210											27						
	Kestrel																		2					
	Lapwing																100							
	Mallard			2			8														8			
	Marsh Harrier							(1)																
	Pink-footed Goose						1440																	
	Redwing															10								
	Starling															32								
18	Black-headed Gull						412	257		89	491		169	125		248		94	31					
	Buzzard																					1		
	Common Gull						52	9		4	4					1								
	Cormorant							1																
	Curlew																					2		
	Dunlin						6	27		13														

	Egyptian Goose									1													
	Fieldfare																	19					
	Golden Plover												66										
	Great Black-backed Gull						9																
	Greylag Goose							157										14		76			
	Herring Gull						49																
	Kestrel		2																				
	Lapwing							371		36	53			79			147			6			
	Lesser Black-backed Gull						41	4															
	Mallard						4	29			15		125				3	92	6		11		
	Mute Swan												4										
	Oystercatcher																		2		2		
	Pink-footed Goose						9	4															
	Teal										1												
	Wigeon						6																
19	Buzzard																1						
20	Lapwing																	9					
	Mallard										4							5					
	Snipe										5												
21	Partridge sp.			5																			

2 2	Mallard																	4					
2 3	Kestrel																				1		
	Mallard																2						2
	Woodcock																2						
2 4	Mallard																5						
2 6	Buzzard																				1		
2 8	Kestrel						1																
3 1	Black-headed Gull								22														
	Common Gull								3														
	Pink-footed Goose		(11)																				
3 5	Great Black-backed Gull						3																
	Herring Gull						6																
	Lesser Black-backed Gull						1																
	Starling									85													
3 7	Black-headed Gull									27		17	33								2		
	Green Sandpiper											1											

	Mallard																2			2			
	Partridge sp.										8												
	Woodcock																		1				
3	Fieldfare						390																
9	Kestrel																			1			
4	Woodcock																		1				
4	Golden Plover														6								
5	Lapwing								24						47								
4	Barn Owl													1									
6	Lapwing																		1				
	Woodcock														6				1				
4	Kestrel																					(1)	
7	Mallard																		1				
	Woodcock														1								
5	Black-headed Gull																						37
0	Kestrel		1																				
	Lapwing													47							2		
	Mallard																					1	
	Partridge sp.																		4				
	Red-legged Partridge													5									
	Woodcock													1					6				
5	Lapwing								16														
1																							

5 2	Black-headed Gull						21																
	Golden Plover								1														
	Great Black-backed Gull						4																
	Herring Gull						9																
	Lapwing						3					23											
	Woodcock													1					1				
5 3	Barn Owl													(1)									
5 4	Black-headed Gull										60										2		
	Buzzard																	1					
	Common Gull										4									3			
	Greylag Goose																					8	
	Lapwing						63								17				6		1		
	Partridge sp.								4			6											
	Woodcock																		1				
6 2	Black-headed Gull		1																				
	Great Black-backed Gull		5																				

	Herring Gull		1																				
63	Black-headed Gull																20						
64	Buzzard																1						
67	Fieldfare																64						
	Redwing																44						
	Starling																30						
69	Buzzard						2																
70	Buzzard	1					2						1										
	Fieldfare																	60					
	Kestrel																	1					
	Starling																	80					
71	Buzzard						1																
72	Fieldfare						47																
	Woodcock																		1				
73	Black-headed Gull																2						
	Lapwing								8														
	Skylark																	1					
	Starling												80										
75	Kestrel																					(1)	
	Mallard						2																
	Partridge sp.			7																			
77	Buzzard								1														
79	Buzzard																	1					
	Fieldfare												8				26						

	Lapwing/ Golden plover							23															
	Merlin																			(1)			
	Partridge sp.												2										
8 0	Fieldfare												82										
	Partridge sp.			7																			
8 1	Fieldfare														210								
	Starling														275								
8 2	Fieldfare												163										
	Goosand er																		4				
8 3	Chaffinc h							40															
	Fieldfare												20										
	Reed Bunting							25															
	Skylark												6										
	Sparrow hawk																		(1)				
	Yellowha mmer							36															
8 4	Chaffinc h												6										
	Fieldfare																49						
	Greenfin ch												2										
	Lapwing									12													
	Reed Bunting												10										
	Skylark							4															
	Starling							30									80						
Yellowha mmer												4											

85	Stonechat								2														
86	Barn Owl															1							
	Black-headed Gull				129		11																
	Caspian Gull				2																		
	Chaffinch														40								
	Common Gull						38																
	Great Black-backed Gull																		2				
	Herring Gull				199		41																
	Lapwing					6		26			44												
	Lesser Black-backed Gull				82		13																
	Mallard								78											7			
	Woodcock																			2			
87	Buzzard								1														
	Mallard																				2		1
88	Woodcock								1							1							
89	Skylark																	2					
91	Skylark								2		4					1							
92	Fieldfare														2								
	Kestrel									1													

	Mallard																						1
	Partridge sp.																2						
	Skylark					1													2				
93	Black-headed Gull						53		89	117													
	Buzzard						1																
	Common Gull						4		14	6													
	Herring Gull						2																
	Woodcock																1						
94	Buzzard															1							
	Chaffinch												15										
	Fieldfare															82							
	Starling												17										
	Stonechat								2			1							2				
	Yellowhammer												36									6	
95	Brambling									1													
	Chaffinch									15													
	Kestrel										(1)					1		1					
	Linnet																	16					
	Starling								26														
	Stonechat														2	1							
	Yellowhammer									10													
96	Buzzard						1																
	Fieldfare														3								

	Kestrel					1																	
	Little Egret																	1					
	Mallard															4							
	Peregrine								1														
	Woodcock																	1					
9	Mallard							9															
7	Starling									120													
	Woodcock							2															
9	Black-headed Gull									29													
8	Fieldfare														10								
	Starling														130								
9	Buzzard	1																					
9																							
1	Herring Gull	11																					
0	Lesser Black-backed Gull	190																					
0																							
1	Buzzard				1																		
0																							
1	Buzzard					1									3								
0	Lapwing														12								
3	Starling															320							
	Stonechat														1								
1	Fieldfare																37						
0																							
4	Golden Plover																		6				

	Jack Snipe																			1			
	Linnet				120																	1	
	Mallard										6						13	2		3	2		
	Pied Wagtail																					1	
	Redwing																	2					
	Starling											180											
	Wheatear																					1	1
	Woodcock																3			4			
105	Black-headed Gull		151		211		132	160							71								
	Buzzard														2	1							
	Caspian Gull				1																		
	Common Gull						30	8							43	20							
	Golden Plover													7									
	Great Black-backed Gull						10																
	Herring Gull		233		144		31	37															
	Lapwing					2																	
	Lesser Black-backed Gull		34		14		4	2															
	Marsh Harrier																					(1)	
	Woodcock							1						1									

	Yellow-legged Gull						1																
1 0 6	Fieldfare												12										
	Linnet																18						
	Mallard				2												2		2, 1	2			
	Marsh Harrier		(1)																				
	Skylark										2												
	Teal																	2					
1 1 3	Black-headed Gull						47		84				36					84					
	Buzzard						1		5	2		2	4					1		1			
	Common Gull	1					47		15				182					9					
	Fieldfare														46								
	Golden Plover										2				79								
	Great Black-backed Gull						1																
	Grey Heron						2															1	
	Herring Gull	8					27																
	Lapwing			5																			
	Lesser Black-backed Gull	175					1																
	Little Egret						1																
	Skylark																	1		1			

	Woodcock										7						3						
	Yellow Wagtail																						1
114	Black-headed Gull								131														
	Buzzard						2		4														
	Common Gull								46														
	Golden Plover													78									
	Woodcock										4												
115	Buzzard				2					1								1	1				
	Grey Heron									1													
	Kestrel				1																		
	Mallard											8		49	28				2		5	1	
	Meadow Pipit								12														
	Pink-footed Goose											(51)											
	Teal														12				2				
	Woodcock																			3			
116	Black-headed Gull								138														
	Buzzard															1							
	Common Gull								12														
	Fieldfare														5								
	Grey Heron						1																

	Herring Gull	4							24														
	Kestrel			(1)										1									
	Lesser Black-backed Gull	34																					
	Mallard																2						
	Peregrine											1											
	Skylark																	2					
	Stonechat								2														
117	Black-headed Gull						204																
	Buzzard														1		1						
	Common Gull						68																
	Great Black-backed Gull						1																
	Herring Gull	15			65		50																
	Lesser Black-backed Gull	39			14		8																
	Skylark																2						
	Stonechat									1													
	Woodcock							2															
	Yellow-legged Gull	1			1																		

1 1 8	Black-headed Gull						13																
	Buzzard			1															1				
	Common Gull						25																
	Herring Gull						31																
	Lesser Black-backed Gull						2																
	Merlin			1																			
	Woodcock									2													
1 1 9	Buzzard																1						
	Jack Snipe							2		1						2			3				
	Snipe									3													
1 2 0	Black-headed Gull								10	126													
	Buzzard								1	1							1	1			1		
	Common Gull								36	198						3							
	Fieldfare														53								
	Golden Plover																		1				
	Grey Heron										1			1	2								
	Herring Gull									6													
	Mallard										4												
	Partridge sp.													6									
	Redwing														30								

	Skylark																				1		1	
	Starling						300																	
	Tawny Owl			1																				
	Teal																						1	
	Woodcock							2			16					5			1					
1	Barn Owl										(1)													
2	Woodcock							10			4								6					
1	Woodcock										1													
2																								
9																								
1	Buzzard						1	1																
3																								
0	Pink-footed Goose	(1)		(6)	154																			
	Woodcock																		2					
1	Black-headed Gull														340									
3																								
2	Lapwing														17									
	Starling														110									
1	Black-headed Gull															5								
3																								
4	Golden Plover														20									
	Marsh Harrier							(1)																
	Meadow Pipit														1									
	Snipe														4									
	Woodcock																1							

1 3 5	Black-headed Gull													14										
1 3 6	Mallard				5																			
	Skylark						2																	
	Woodcock										1													
1 3 7	Pink-footed Goose				3																			
	Skylark														8	3								
1 3 8	Common Gull					3																		
	Golden Plover														38									
	Lapwing										1													
	Mallard				3																			
	Skylark															1								
	Woodcock													1										
1 4 1	Black-headed Gull															54		18	40			2		
	Common Gull															5			2					
	Woodcock																1							
1 6 8	Black-headed Gull					39							6											
	Common Gull					1																		
	Greylag Goose					38																		
	Mallard																					3		

	Pink-footed Goose							620			194												
1	Barn Owl					(1)																	
6	Kestrel				1																		
9	Lesser Black-backed Gull	76																					
	Mallard																			2	6		
	Mistle Thrush											4											
	Mute Swan														3		3	3		3			
	Red-legged Partridge																		2				
	Tufted Duck																			2			
	Woodcock																		2				
170	Kestrel							1															
171	Gadwall																					2	
	Mallard						2											16				6	
	Marsh Harrier												(1)										
172	Pink-footed Goose		(32)																				
173	Black-headed Gull																368						
	Mallard																				1		
	Buzzard																			1			

1 7 5	Herring Gull						1																	
	Lesser Black-backed Gull						28																	
2 1 7	Lapwing																2							
	Mallard	2															9			2				
	Mute Swan																		2					
	Teal																2							
2 2 0	Fieldfare							40																
	Mallard								22		2	26		4										
	Teal											2												
2 2 1	Fieldfare														14									
	Hobby	(1)																						
2 2 2	Kestrel	1			(1)																			
	Mallard	(3)																						
	Skylark				6																			
2 4 9	Lapwing								33															
	Pink-footed Goose														1									
2 5 3	Black-headed Gull							198					380	101									93	11
	Buzzard																					1		
	Common Gull												21											
	Fieldfare																		91					
	Lapwing																8							
	Mallard				33												37			8	5			
	Mute Swan																				2	2	2	

	Pied Wagtail												31										
	Starling											220											
275	Starling												44										
279	Black-headed Gull																193						
	Mallard																		2				
	Snipe																		2				
	Woodcock																		1				
280	Gadwall																7						
	Lapwing							32															
	Mallard																37	6			2		
281	Lapwing				220										39								
282	Black-headed Gull				4		219	102			58	3	43							2			
	Common Gull						3	2															
	Golden Plover							16															
	Herring Gull				4							1											
	Lapwing				3		41	53		5		27											
	Lesser Black-backed Gull				76																		
	Partridge sp.			6																			
	Starling						230																

2	Barn Owl										(1)												
8	Lapwing							2											5				
3	Linnet				40																		
	Mallard																		9				
2	Woodcock												4										
8	Greylag Goose					57																	
5	Mallard																	2					
2	Black-headed Gull																			3			
9	Fieldfare											19											
0	Greylag Goose																				2	2	
	Lapwing									9					1			4		2			1
	Partridge sp.												2										
	Redwing											10											
	Woodcock					1					2												
2	Black-headed Gull						94			72					49								
9	Buzzard																	1		1			
1	Golden Plover								82														
	Herring Gull						37																
	Kestrel								(1)														
	Lapwing								129				43	3	25								
	Marsh Harrier	(1)																					

292	Black-headed Gull								7	38		33	46			6								
	Buzzard														1			1						
	Fieldfare														12									
	Great Black-backed Gull						5																	
	Lapwing						257		29	48		12			1									
	Lesser Black-backed Gull						16																	
	Mallard										4	6												
	Starling									197														
402	Black-headed Gull	12					245	14		49		22				1								
	Buzzard						4									1								
	Common Gull						61	1		4		49				32			141					
	Golden Plover														9									
	Great Black-backed Gull						6	1																
	Herring Gull						44									9								
	Lesser Black-backed Gull						20																	
	Woodcock										1			1										
	Fieldfare																		41					

4 1 3	Starling																		65				
4 1 6	Fieldfare							4															
	Lapwing							72															
4 3 6	Barn Owl									(1)													
	Black-headed Gull						49		12			26											
	Buzzard						1		1									2					
	Common Gull						84		39			41											
	Golden Plover													84									
	Great Black-backed Gull						1																
	Grey Heron									1													
	Herring Gull						60																
	Linnet																2						
	Marsh Harrier																					(1)	
	Skylark																2		1				
	Wheatear																				1		
	Woodcock					1		12			12			1			12			3			
	Yellowhammer								26														
4 3 7	Black-headed Gull						22																

	Grey Heron						2																
	Herring Gull						2																
	Mallard															2							
	Peregrine										(1)												
	Pied Wagtail																				1		
	Wheatear																				1		
	Woodcock									13						2			2				
	Yellowhammer								32														
4	Lapwing					4				19													
9	Woodcock									3									1				
6																							
4	Black-headed Gull								9														
9	Buzzard															2							
7	Fieldfare														10								
	Lapwing													1									
	Mallard				(8)														1				
	Partridge sp.															2							
	Reed Bunting						2																
	Skylark														2								
	Woodcock												20			6			6				
	Yellowhammer						25					40		25									
	Golden Plover								22														

4 9 8	Starling					120																	
4 9 9	Mallard								(1)														
5 2 1	Buzzard		1		1		1					1											
	Grey Heron	1					1																
	Greylag Goose																			2			
	Mallard															2						2	
	Sparrow hawk		(1)																				
5 6 3	Gadwall																		1				
	Greenfin ch											8											
	Greylag Goose																		6	2			
	Kestrel																			1			
	Lapwing								8														
	Mallard																		2				
	Wigeon															42							
5 7 0	Black-headed Gull						86																

A3.4: Bird species Recorded within the Wider Survey Area 2023/24. Numbers in brackets denote flying over.

		Sep	Sep	Sep	Oct	Oct	Oct	Nov	Nov	Nov	Dec	Dec	Dec	Jan	Jan	Jan	Feb	Feb	Feb	Mar	Mar	Mar	Apr	Apr
Field	Species Name	WWO	WWO	NOC	WWO	NOC	WWO	WWO	NOC	WWO	WWO	NOC	WWO	WWO	NOC	WWO	WWO	NOC	WWO	NOC	WWO	WWO	WWO	WWO
14	Mallard																					4		
36	Black-headed Gull												50											
	Common Gull												11											
	Fieldfare							48																
	Grey Heron						1																	
	Herring Gull												8											
	Lapwing											6												
	Starling							105																
	Woodcock																	2						
56	Black-headed Gull																							12
	Lapwing																					2		
	Snipe			1																				
58	Mute Swan																	2	2					
59	Black-headed Gull	2					77	22		72	31			63						1				3
	Buzzard						1				1													
	Common Gull						6	3			2		2	1		6								
	Golden Plover								12															
	Great Black-backed Gull	13					4	11																
	Grey Partridge													3										
	Herring Gull	6					11	4						1										
	Lapwing						48			8														
	Lesser Black-backed Gull	3					1																	

	Mallard						47													4			2
	Mute Swan																						2
	Partridge sp.			5, 6		8						10								2			
65	Buzzard															1							
	Common Gull							4															
	Marsh Harrier																						1
66	Black-headed Gull																6				2		
	Green Sandpiper																1						
	Woodcock															5							
109	Buzzard											1											
112	Buzzard									1													
	Grey Heron								1														
	Woodcock								4														
121	Woodcock											6											
123	Buzzard	1									1												
	Fieldfare										41												
	Grey Heron														1								
124	Woodcock											19								12			
125	Marsh Harrier									1													
126	Buzzard		1																				
	Woodcock															5							
127	Kestrel		1																				
128	Kestrel						1																
	Little Egret						2																
	Marsh Harrier	(1)																					
	Sparrowhawk							(1)															(1)
	Tawny Owl			(1)																			
131	Marsh Harrier				(1)																		
139	Skylark								1									2					
	Woodcock															5							
140	Jack Snipe								2														

	Skylark								1														
	Woodcock													2									
149	Yellowhammer							30															
156	Snipe																1						
160	Canada Goose												84										
	Greylag Goose												64										
	Pink-footed Goose												47 6										
163	Black-headed Gull							87															
	Common Gull							6															
164	Black-headed Gull						17							69									
	Lapwing																8						
	Pink-footed Goose											2											
165	Black-headed Gull												20										
	Buzzard																		1				
	Mallard																		2				
166	Black-headed Gull												6										
	Buzzard							1															
177	Black-headed Gull															52 2							
	Lapwing															27							
181	Black-headed Gull																		47				
182	Black-headed Gull																	11		2			
	Green Sandpiper																			1			
	Mallard																			2			
	Mute Swan																					1	
184	Buzzard																					1	
185	Buzzard										1					1							
	Grey Heron							1															
	Sparrowhawk																				1		
	Yellowhammer																46						
186	Buzzard																		1				

	Fieldfare															76								
	Red-legged Partridge							15								19								
	Redwing															5								
	Reed Bunting																			2				
	Yellowhammer																			6				
188	Linnet																80							
191	Teal															8								
193	Woodcock											1												
195	Marsh Harrier				(1)																			
196	Pink-footed Goose				480																			
207	Mallard																						1	
	Teal																						2	
209	Mallard																			5				
	Teal																				6			
223	Lapwing												11											
	Mallard																			2				
224	Buzzard							1																
	Marsh Harrier				(1)																			
	Partridge sp.								5			6												
	Skylark				38																			
	Starling										14													
								0																
225	Buzzard							1																
227	Pink-footed Goose				56																			
228	Kestrel							1																
	Linnet										80													
229	Greylag Goose													51										
	Partridge sp.									7														
	Pink-footed Goose															66								
	Skylark				17											8								
230	Buzzard											1												

	Mallard	(6)																	2					
	Starling									19														
										5														
231	Black-headed Gull									19														
	Mallard																		2					
232	Mallard																					2		
	Sparrowhawk									(1)														
233	Buzzard														1									
	Woodcock																				1			
238	Kestrel														(1)									
	Woodcock																				2			
241	Woodcock																7							
242	Black-headed Gull									36														
	Common Gull									4														
251	Lapwing											5												
252	Barn Owl																(1)							
	Lapwing/ Golden plover									37														
	Woodcock																10				1			
259	Black-headed Gull										12													
										5														
261	Little Owl																1							
262	Black-headed Gull																					2		
	Mallard																						2	
263	Mute Swan												4		5									
265	Lapwing																21							
	Mute Swan																	4	4					
277	Black-headed Gull										95													
	Kestrel												1		1									
	Mallard																						2	
	Partridge sp.									5			9											
	Starling										40													
286	Mallard																					2		

	Marsh Harrier															(1)							
287	Barn Owl				(1)																		
	Buzzard					1																	
	Mallard															3							
	Moorhen				(2)																		
288	Barn Owl			(1)																1			
	Black-headed Gull					74	287			26		68	41										5
	Buzzard								1				1										
	Common Gull					1																	
	Golden Plover														1								
	Greylag Goose							36															
	Herring Gull					7						1											
	Kestrel															1							
	Lapwing							23					6		11	12	24	66	29	19	2		
	Lesser Black-backed Gull					5																	
	Little Egret							6		4		1											
	Mallard															3							
	Woodcock							2						1									
306	Buzzard				1																		
308	Great Black-backed Gull					5																	
	Herring Gull					7																	
309	Black-headed Gull		1																				
	Great Black-backed Gull		1																				
	Herring Gull		5																				
	Partridge sp.																			2			
	Woodcock													1									
310	Black-headed Gull																					4	
	Woodcock							1															
312	Black-headed Gull																					2	
316	Black-headed Gull		26																				
	Great Black-backed Gull		6																				

	Herring Gull		1																				
317	Lapwing									12													
318	Buzzard								1														
	Common Gull																		2				
	Great Black-backed Gull		6																				
	Herring Gull		1																				
	Lapwing		32	54																			
	Mallard															31							
319	Black-headed Gull														12			3					
	Buzzard														2		1						
	Skylark																	4					
	Woodcock					1																	
320	Lapwing								28														
322	Skylark																	2					
323	Black-headed Gull					11				22		6					11	1					9
						8																	
	Common Gull					1				2		1					3						
	Crane																			(3)			
	Great Black-backed Gull					6																	
	Herring Gull					2																	
	Mallard					18																	1
	Partridge sp.										9												
325	Skylark																	2					
	Great Black-backed Gull						4																
	Lesser Black-backed Gull						2																
	Partridge sp.										7						2						
338	Woodcock			1																			
	Black-headed Gull											1					3						
340	Kestrel									1		(1)											
	Black-headed Gull									48													
	Common Gull									1													

343	Barn Owl										(1)												
345	Black-headed Gull											22											
355	Barn Owl													1									
	Black-headed Gull																11			3			
	Greylag Goose																	22					
	Lapwing															6			16				
	Mallard											16				7	63	2	47				1
	Snipe															12							
358	Black-headed Gull		18																				
	Common Gull		1																				
	Herring Gull		30																				
	Lesser Black-backed Gull		25																				
359	Lapwing							11															
361	Black-headed Gull						59																28
	Common Gull						2																
	Fieldfare																70						
	Herring Gull						8																
	Lesser Black-backed Gull						6																
	Starling																	21					
363	Mallard																						1
365	Woodcock															2							
366	Black-headed Gull					87	8																
	Common Gull						3																
	Golden Plover					3																	
	Great Black-backed Gull					2	2																
	Herring Gull					12																	
367	Lapwing										10												
	Woodcock															3							
368	Black-headed Gull					14																	
	Buzzard												1										

	Fieldfare															94								
	Kestrel									1														
	Snipe								1															
369	Lapwing								3															
	Snipe								1															
370	Black-headed Gull																						2	
	Great Black-backed Gull							1																
	Grey Partridge																4							
	Woodcock											3												
371	Barn Owl																	1						
	Black-headed Gull						24			14														
	Common Gull									1														
	Great Black-backed Gull						2																	
	Lapwing								6															
	Little Egret		2																					
	Mallard						9																	
	Mute Swan						6											2						
	Snipe														2									
372	Little Egret											1												
373	Black-headed Gull						9			10													17	
	Common Gull									1														
375	Barn Owl			1																				
376	Kestrel																1							
383	Little Egret									1														
	Mallard						6			28														
	Moorhen						2																	
	Teal									1														
384	Barn Owl															(1)								
	Buzzard				1																			
	Common Gull									4														
	Herring Gull									19														
	Jack Snipe																					1		

	Kestrel																			(1)		
	Mallard						18									6			2			
	Teal						2															
385	Lapwing												2									
	Mallard											8			36	2					1	
	Snipe															3						
	Teal											1		2	9							
	Woodcock												5			2						
386	Fieldfare											8										
	Woodcock												4									
387	Mallard	49		5	6		57					30				3	17	5		4		2
	Moorhen			3																		
	Teal	3					4					18					1	3		6		1
388	Barn Owl										1											
389	Teal								5			4										
390	Black-headed Gull											1										
	Common Gull											4										
	Fieldfare						13															
	Herring Gull											25										
	Mallard											6		2	6	3				1	1	
	Snipe												14									
	Starling														32							
															0							
	Teal														2			2	1			
391	Woodcock												1									
	Chaffinch						12															
	Fieldfare						12															
							0															
	Mallard																		2			
	Starling						50															
396	Mallard															4						
397	Black-headed Gull						28															

	Mallard		31			4	4																	
	Yellowhammer											12												
398	Fieldfare												83											
	Mallard										5								3				1	
	Mistle Thrush												2											
	Partridge sp.			8																				
	Redwing												16											
	Sparrowhawk						(1)																	
	Woodcock			1												2								
400	Black-headed Gull						27			46		17					4							
	Common Gull																7							
	Sparrowhawk											(1)												
401	Black-headed Gull						28			22		11					31	10	1					
	Common Gull						3										71							
	Mallard																2							
	Woodcock																2							
417	Buzzard								1															
	Fieldfare															2								
	Lapwing															19								
	Stonechat											1												
419	Little Egret									2														
421	Kestrel															1								
428	Buzzard											1												
	Common Gull																	1						
	Fieldfare															20								
	Herring Gull																	2						
	Woodcock										1													
429	Fieldfare															12								
	Kestrel																			2				
430	Buzzard	(1)																						
431	Buzzard																						1	
448	Pink-footed Goose															14								

	Tawny Owl																1						
450	Greylag Goose																	2					
	Little Egret				1																		
	Partridge sp.												6										
	Snipe																9						
451	Buzzard														1								
	Snipe														1					10			
460	Reed Bunting							4															
	Yellowhammer							17															
466	Barn Owl				1																		
	Meadow Pipit																		38				
	Skylark							1	1														
467	Green Sandpiper								1														
	Skylark								1								2		2				
	Woodcock																1						
468	Jack Snipe																1						
	Kestrel				1			1								1							
	Little Egret							1															
	Skylark								1														
469	Linnet																	9					
475	Starling																		26				
																			0				
476	Linnet																				4		
	Reed Bunting							8															
	Skylark																		1				
479	Kestrel														(1)								
	Skylark							2															
480	Lapwing																			12			
	Woodcock											8											
483	Lapwing																		2				
	Snipe																8						
	Woodcock													6									

484	Skylark															2							
485	Green Sandpiper			1																			
	Kestrel						1																
	Little Owl																			2			
	Mallard										8												1
	Skylark						4									1							
	Snipe																6						
	Teal												1										
	Woodcock										1						1						
486	Golden Plover								20														
	Lapwing																			2			
487	Jack Snipe																			2			
	Snipe																			15			
	Woodcock										1												
488	Barn Owl																(1)						
	Grey Partridge																	2					
	Skylark						8						2		4		1						
	Woodcock										1									2			
489	Black-headed Gull						24																
	Common Gull						2																
	Pied Wagtail																	76					
490	Black-headed Gull					34			6				5										
	Common Gull					3																	
	Skylark					2																	
492	Black-headed Gull						27		13				20										
	Greylag Goose																			2			
	Mallard																			2			
494	Black-headed Gull								3				27										
502	Marsh Harrier								(1)														
504	Buzzard				1																		
	Skylark				6																		
506	Barn Owl								1														

507	Greylag Goose																						1	
508	Grey Heron								1															
	Kestrel				1																			
	Skylark				4																			
510	Kestrel							1																
512	Skylark							2																
514	Barn Owl										(1)													
	Buzzard																		1					
	Peregrine											1												
515	Caspian Gull	1																						
	Herring Gull	16																						
	Lesser Black-backed Gull	325																						
	Starling																200							
	Woodcock																	3			1			
	Yellow-legged Gull	6																						
516	Black-headed Gull							194																
	Buzzard											1												
	Common Gull							50																
	Herring Gull							9																
	Lapwing				30																			
	Lesser Black-backed Gull							6																
	Marsh Harrier	(1)																						
	Reed Bunting							24									3							
	Skylark							1																
	Starling							1000																
	Stonechat																1							
517	Woodcock														1									
519	Kestrel							1																

	Pink-footed Goose				112 0																		
523	Buzzard																2						
524	Buzzard																2						
531	Kestrel																				(1)		
534	Black-headed Gull					26 4	235		80			19 4				10 2							
	Common Gull					12	2		19			8				9							
	Herring Gull					2			6			4											
	Kestrel														1								1
	Linnet																17						
	Mallard					6					4	2				4			8			1	
	Starling					17 0											9						
	Woodcock															1							
535	Black-headed Gull															39							
	Mallard																		3				
	Woodcock										1												
536	Common Gull								2														
545	Buzzard																				1		
	Greylag Goose																		7		3		
	Lapwing													2									
	Skylark				27		5																
	Woodcock													1									
546	Barn Owl													1									
	Lapwing													4									
	Meadow Pipit														22								
	Partridge sp.													4									
	Woodcock																		1				
547	Black-headed Gull																					2	
548	Black-headed Gull																					1	
	Buzzard														1								
	Grey Partridge																				2		

	Jack Snipe																	1						
	Kestrel																			1				
	Linnet																		30					
	Mallard																						1	
	Snipe													1				4						
	Woodcock																	10						
550	Marsh Harrier								(1)															
	Pink-footed Goose					100																		
553	Pink-footed Goose				420																			
555	Marsh Harrier							(1)																
566	Black-headed Gull																				2			
	Greylag Goose						18																	
	Marsh Harrier							(1)																

ANNEX 4: VANTAGE POINT SURVEY DATA 2023/24

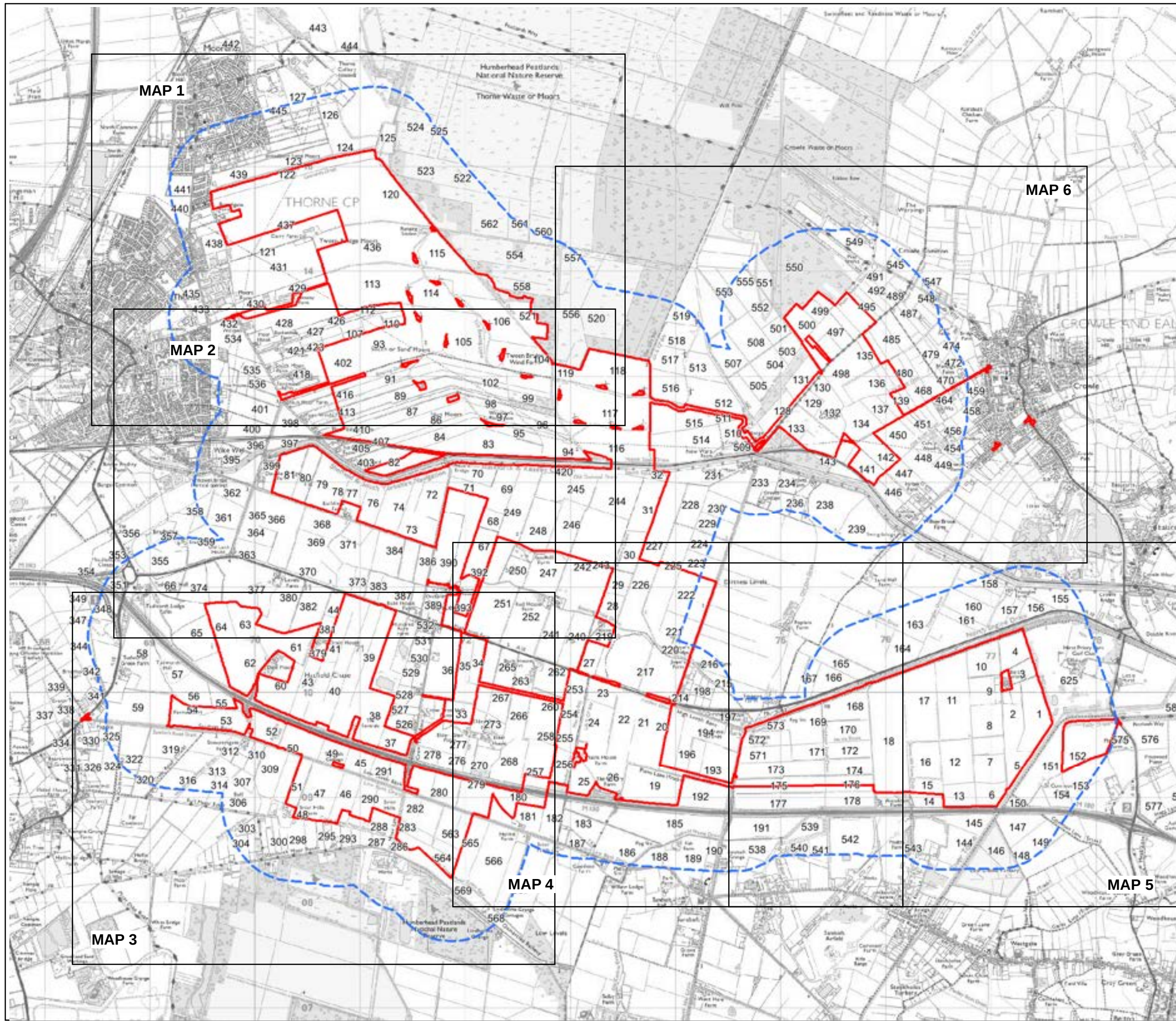
Table A4.1: Vantage Point Survey Data 2023/24

Date	VP	Flight/ Perched	Species	Number	Start time	Duration	HT 1 (0- 10m)	HT 2 (10- 50m)	HT 3 (50m+)
27/09/2023	1	F	Pink-footed goose	148	12:47	65	0	0	65
27/09/2023	1	F	Grey heron	1	13:20	12	12	0	0
27/09/2023	1	F	Marsh harrier	1	14:04	20	20	0	0
23/09/2023	2	F	Marsh harrier	1	15:24	120	120	0	0
23/09/2023	2	F	Pink-footed goose	46	15:47	75	0	0	75
23/09/2023	2	F	Marsh harrier	1	16:06	110	110	0	0
30/09/2023	3	F	Pink-footed goose	27	12:36	110	0	0	110
30/09/2023	3	F	Greylag goose	1	12:56	230	0	230	0
30/09/2023	3	F	Greylag goose	11	13:52	75	0	30	45
25/09/2023	4	F	Pink-footed goose	16	18:52	35	0	15	20
25/09/2023	4	F	Sparrowhawk	1	18:55	20	20	0	0
29/09/2023	5	F	Marsh harrier	1	13:56	110	15	95	0
29/09/2023	5	F	Pink-footed goose	220	14:17	150	30	75	45
29/09/2023	5	F	Pink-footed goose	58	14:30	95	20	30	45
29/09/2023	5	F	Marsh harrier	1	14:40	270	0	270	0
29/09/2023	5	F	Peregrine	1	15:01	170	45	125	0
29/09/2023	5	F	Pink-footed goose	6	15:42	82	22	15	45
29/09/2023	5	F	Pink-footed goose	31	16:04	60	15	15	30
29/09/2023	5	F	Pink-footed goose	7	16:11	50	20	30	0
29/09/2023	5	F	Peregrine	1	16:22	35	0	35	0
28/09/2023	6	F	Pink-footed goose	62	15:44	140	0	0	140
28/09/2023	6	F/P	Grey heron	1	16:37	15	15	0	0
28/09/2023	6	F/P	Grey heron	1	17:02	10	10	0	0
28/09/2023	6	F/P	Grey heron	1	18:01	35	35	0	0
28/09/2023	6	F/P	Grey heron	2	18:03	20	20	0	0
28/09/2023	6	F/P	Grey heron	1	18:08	25	25	0	0
16/10/2023	2	F	Pink-footed goose	37	14:16	120	0	120	0
16/10/2023	2	F	Lapwing	81	14:40	300	45	255	0
26/10/2023	3	F	Pink-footed goose	31	08:42	50	0	0	50
26/10/2023	3	F	Pink-footed goose	6	08:50	35	0	0	35
26/10/2023	3	F	Pink-footed goose	76	09:17	80	0	0	80
26/10/2023	3	F	Pink-footed goose	141	09:43	60	0	0	60
26/10/2023	3	F	Grey heron	1	10:50	25	25	0	0
15/10/2023	4	P	Lapwing	127	14:07	10,800	0	0	0
15/10/2023	4	F/P	Grey heron	1	14:21	20	20	0	0
30/10/2023	5	F	Marsh harrier	1	12:27	80	0	80	0
30/10/2023	5	F	Pink-footed goose	132	12:30	300	0	0	300
30/10/2023	5	F	Pink-footed goose	99	12:59	145	0	0	145
30/10/2023	5	F	Golden plover	9	13:45	75	0	0	75
30/10/2023	5	F	Snipe	1	13:49	135	0	0	135
30/10/2023	5	F	Great white egret	2	14:06	60	0	0	60
13/10/2023	6	P	Grey heron	1	15:30	10,800	0	0	0
13/10/2023	6	F	Pink-footed goose	18	15:36	30	0	0	39
13/10/2023	6	F	Pink-footed goose	14	16:04	150	30	30	90
13/10/2023	6	F	Pink-footed goose	21	16:05	150	30	60	60
13/10/2023	6	F	Grey heron	1	16:20	25	25	0	0
13/10/2023	6	F	Marsh harrier	1	16:30	65	65	0	0
14/11/2023	1	F	Kestrel	1	13:00	75	75	0	0
14/11/2023	1	F	Pink-footed goose	1	13:13	135	0	0	135
14/11/2023	1	F	Pink-footed goose	6	13:29	140	0	0	140

14/11/2023	1	F	Marsh harrier	1	14:48	150	150	0	0
14/11/2023	1	F	Marsh harrier	1	15:11	45	15	30	0
16/11/2023	6	F	Peregrine	1	13:54	40	0	40	0
16/11/2023	6	F	Pink-footed goose	88	14:20	150	0	0	150
16/11/2023	6	F	Pink-footed goose	43	14:22	150	0	0	150
16/11/2023	6	F	Pink-footed goose	3	14:31	60	0	60	0
16/11/2023	6	F	Pink-footed goose	140	14:49	120	0	0	120
16/11/2023	6	F	Pink-footed goose	106	14:57	150	0	0	150
16/11/2023	6	F	Marsh harrier	1	15:23	30	0	30	0
16/11/2023	6	F	Pink-footed goose	26	15:49	100	0	0	100
16/11/2023	6	F	Grey heron	2	16:04	75	75	0	0
05/11/2023	2	F/P	Greylag goose	75	09:04	65	65	0	0
05/11/2023	2	F	Pink-footed goose	3	10:20	85	0	85	0
05/11/2023	2	F	Pink-footed goose	47	10:21	40	0	40	0
05/11/2023	2	F	Marsh harrier	1	10:48	120	0	60	60
05/11/2023	2	F	Pink-footed goose	10	10:57	140	0	0	140
27/11/2023	3	F	Pink-footed goose	83	11:17	90	0	0	90
27/11/2023	4	F	Greylag goose	28	13:11	20	20	0	0
27/11/2023	4	P	Greylag goose	71	13:10	10,800	0	0	0
27/11/2023	4	P	Pink-footed goose	7	13:10	10,800	0	0	0
27/11/2023	4	F	Golden plover	73	13:49	105	45	60	0
27/11/2023	4	F	Pink-footed goose	109	13:51	90	0	0	90
27/11/2023	4	F	Pink-footed goose	9	14:03	60	30	30	0
27/11/2023	4	F	Pink-footed goose	8	14:10	45	0	45	0
27/11/2023	4	F	Golden plover	6	15:01	40	0	0	40
27/11/2023	4	F	Pink-footed goose	33	15:16	150	0	0	150
27/11/2023	4	F	Pink-footed goose	107	15:23	120	0	0	120
27/11/2023	4	F	Lapwing	60	15:29	120	0	0	60
27/11/2023	4	F	Pink-footed goose	11	15:37	135	0	0	135
27/11/2023	4	F	Barn owl	1	16:00	45	45	0	0
23/11/2023	5	F	Whooper swan	4	12:11	75	0	75	0
23/11/2023	5	F	Pink-footed goose	15	12:17	125	0	0	125
23/11/2023	5	F	Pink-footed goose	39	13:09	45	0	45	0
24/12/2023	1	F	Golden plover	23	09:57	45	0	45	0
24/12/2023	1	F	Peregrine	1	10:27	40	40	0	0
24/12/2023	1	F	Pink-footed goose	68	11:08	120	0	0	120
18/12/2023	4	F	Marsh harrier	1	10:31	135	135	0	0
18/12/2023	4	F/P	Pink-footed goose	2	12:01	105	45	60	0
18/12/2023	4	P	Lapwing	12	09:45	10,800	0	0	0
24/12/2023	5	F	Greylag goose	9	14:04	80	0	0	80
03/12/2023	6	F	Grey heron	1	13:56	45	45	0	0
03/12/2023	6	F	Pink-footed goose	90	14:50	120	0	120	0
03/12/2023	6	F	Marsh harrier	1	15:00	210	210	0	0
14/01/2024	1	F	Marsh harrier	1	14:17	180	0	0	180
14/01/2024	2	F	Lapwing	147	11:28	100	0	100	0
14/01/2024	2	F/P	Lapwing	156	11:50	60	60	0	0
14/01/2024	2	F	Little egret	1	12:14	20	20	0	0
14/01/2024	2	F	Marsh harrier	1	12:35	60	60	0	0
31/01/2024	3	F	Common crane	2	12:04	135	0	0	135
22/01/2024	4	F	Marsh harrier	1	09:26	110	0	110	0
22/01/2024	4	F	Pintail	1	09:51	50	0	50	0
22/01/2024	4	F	Marsh harrier	1	10:29	40	0	40	0
22/01/2024	4	F	Lapwing	130	11:06	60	30	30	0
26/02/2024	1	F	Marsh harrier	1	13:12	270	90	180	0
26/02/2024	1	F	Snipe	1	14:30	70	0	0	70
23/02/2024	3	F	Peregrine	1	10:45	180	0	180	0

23/02/2024	3	F	Marsh harrier	1	10:54	170	170	0	0
23/02/2024	3	F	Mute swan	6	11:22	75	75	0	0
23/02/2024	3	F	Marsh harrier	1	11:50	480	0	90	390
23/02/2024	3	F	Lapwing	2	12:23	100	0	100	0
11/02/2024	4	F	Lapwing	180	10:38	330	0	0	330
11/02/2024	4	F	Lapwing	310	11:26	480	0	0	480
11/02/2024	4	F	Pink-footed goose	1	11:36	75	0	75	0
11/02/2024	4	F	Pink-footed goose	1	11:59	90	0	0	90
11/02/2024	4	F	Lapwing	36	12:17	140	50	60	30
11/02/2024	4	F	Golden plover	30	12:25	75	30	30	15
11/02/2024	5	F	Marsh harrier	1	14:06	90	0	90	0
11/02/2024	5	F	Wigeon	6	15:29	45	0	0	45
26/03/2024	3	F	Mute swan	1	16:10	60	60	0	0
26/03/2024	3	F	Grey heron	1	16:54	95	0	0	95
26/03/2024	3	F	Pink-footed goose	12	17:31	160	0	0	160
22/03/2024	4	F	Oystercatcher	2	11:20	90	45	45	0
22/03/2024	4	F	Grey heron	1	11:26	135	0	135	0
12/03/2024	5	F	Gadwall	1	16:11	40	0	40	0
27/03/2024	6	F	Marsh harrier	1	11:52	90	90	0	0

FIGURE 1: NON-BREEDING BIRD SURVEY FIELD PLAN - OVERVIEW



Legend

Order Limits

Survey area

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TWEEN BRIDGE

Figure 1: Non-Breeding Bird Survey Field Plan - Overview

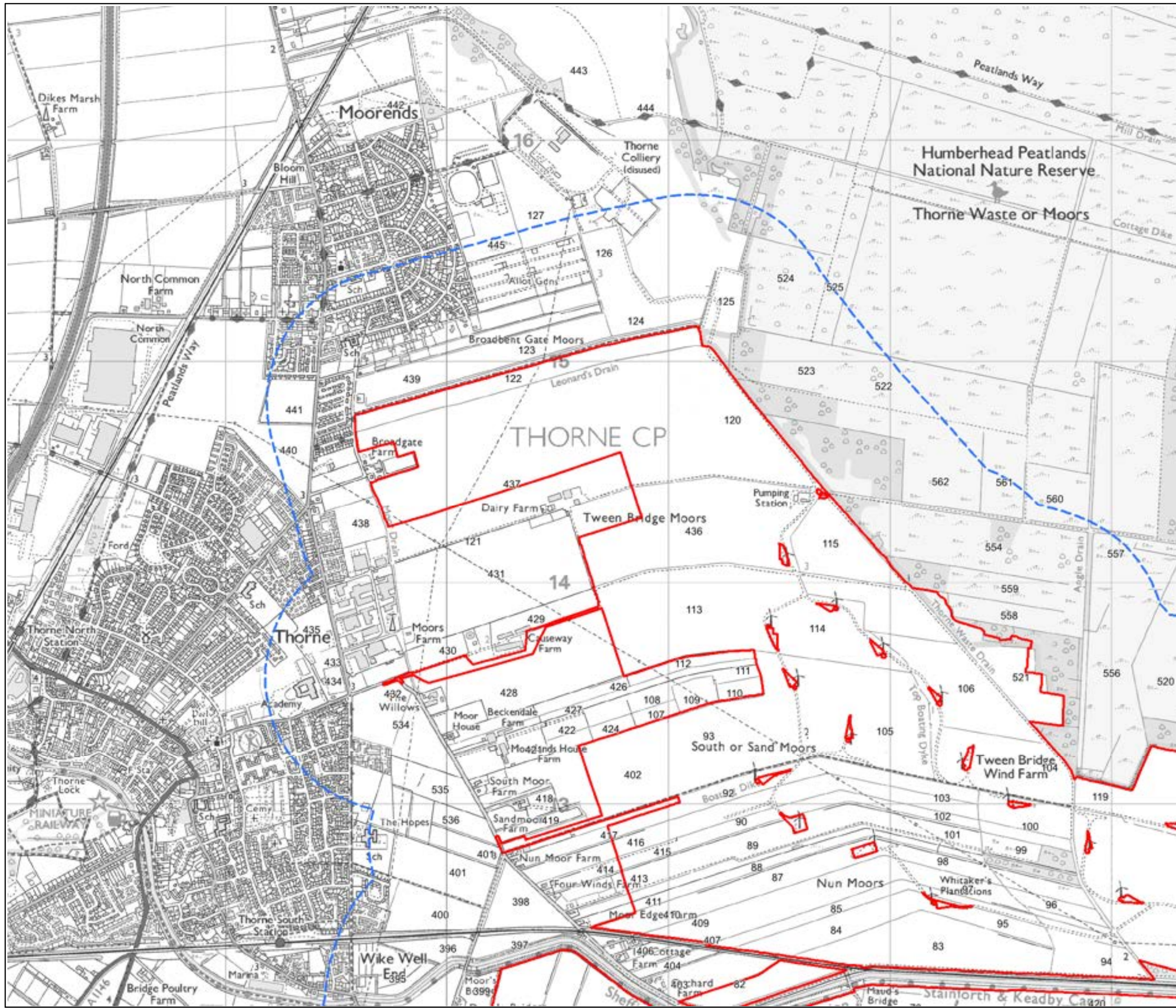
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WA4 4PG
Tel: 0843 506 5116
www.avianecology.co.uk

0

1

kilometres

FIGURE 2: NON-BREEDING BIRD SURVEY FIELD PLANS - 1



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Order Limits

Survey area

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Rev	Date	Description	De	App

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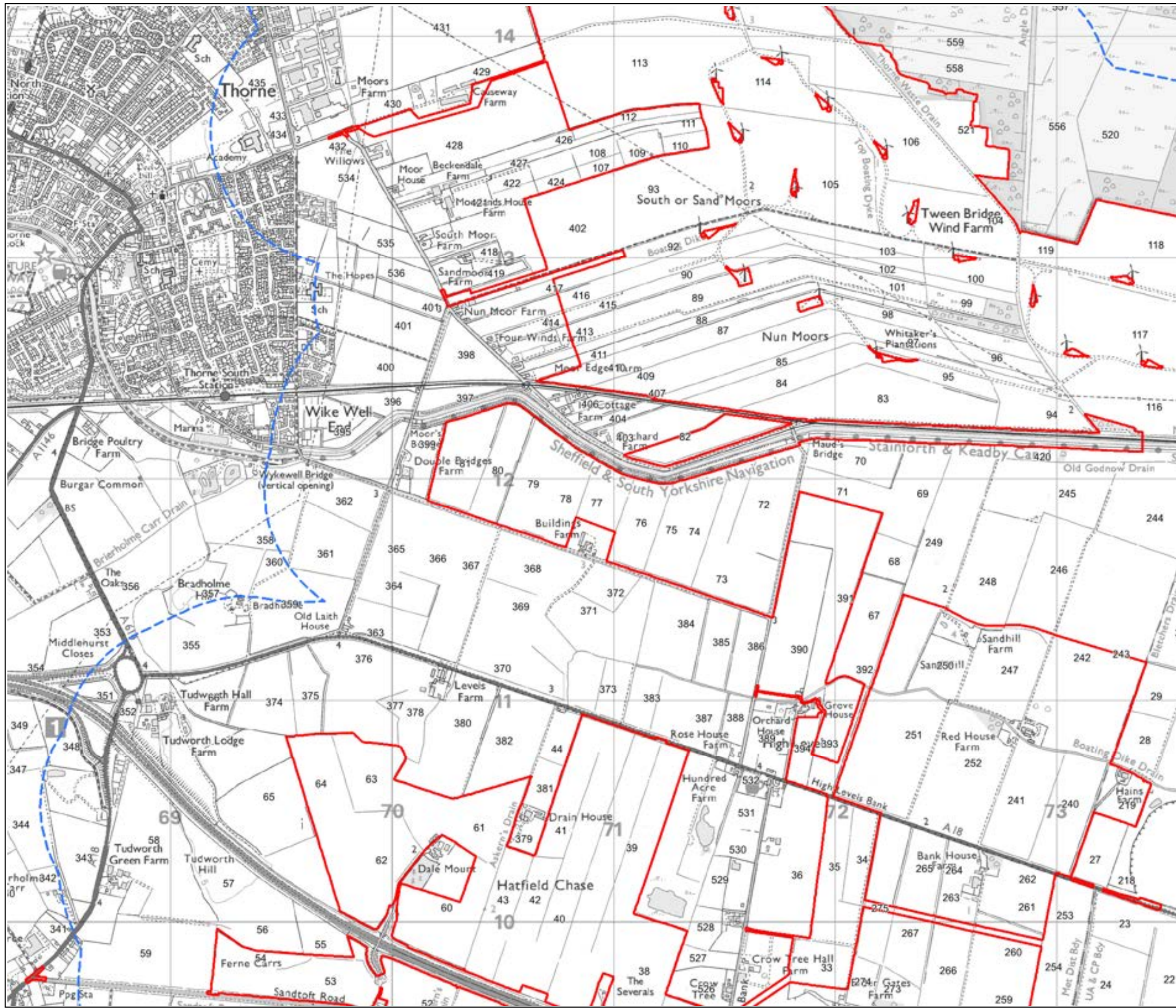
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Figure 2: Non-Breeding Bird Survey Field Plans - 1

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0 400
metres

FIGURE 3: NON-BREEDING BIRD SURVEY FIELD PLANS - 2



Legend

Order Limits

Survey area

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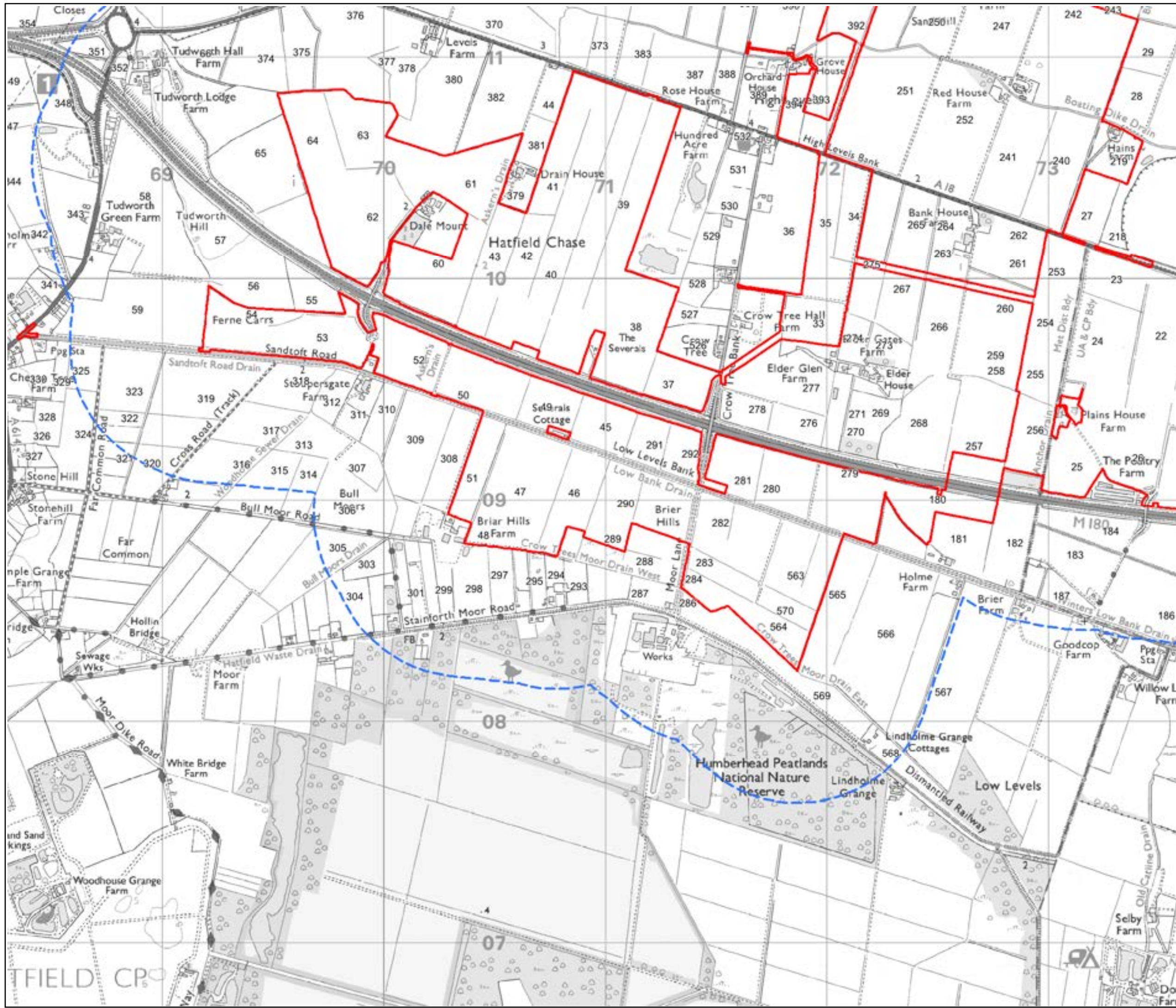
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Figure 3: Non-Breeding Bird Survey Field Plans - 2

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0 400
metres

FIGURE 4: NON-BREEDING BIRD SURVEY FIELD PLANS - 3



Legend

Order Limits

Survey area

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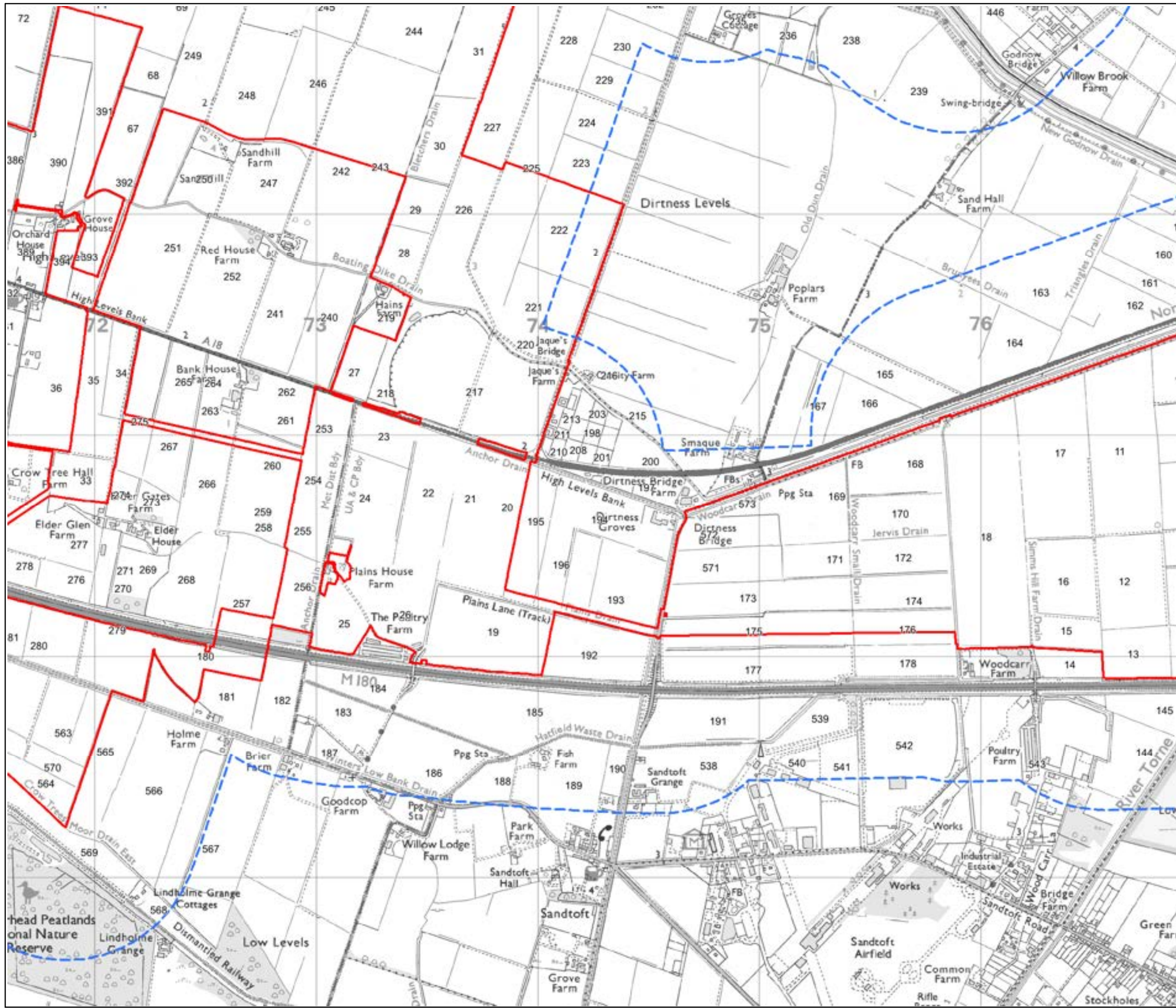
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Figure 4: Non-Breeding Bird Survey Field Plans - 3)

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0 400
metres

FIGURE 5: NON-BREEDING BIRD SURVEY FIELD PLANS - 4



Legend

Order Limits

Survey area

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Figure 5: Non-Breeding Bird Survey Field Plans - 4

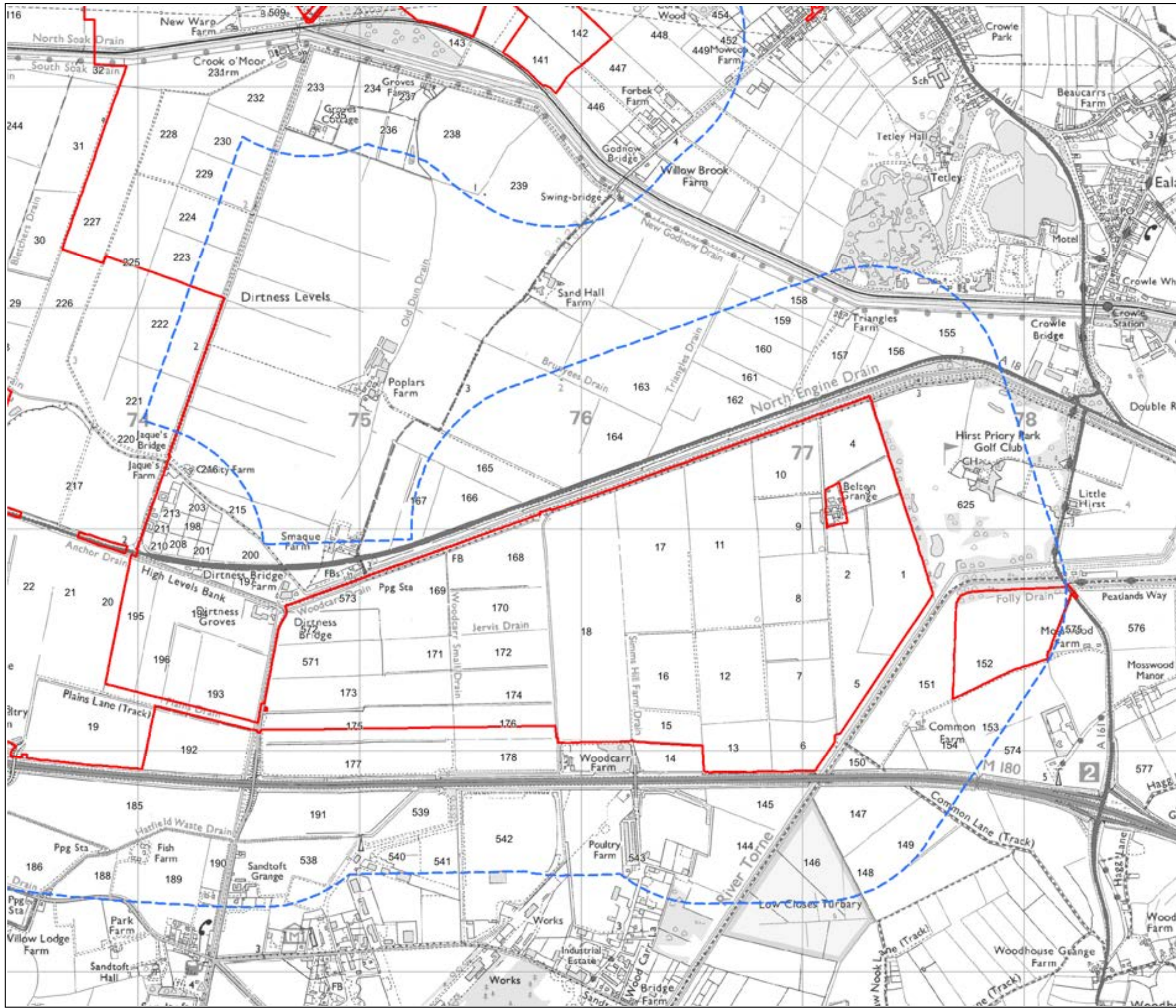
avianecology

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0 400 metres

N
W E
S

FIGURE 6: NON-BREEDING BIRD SURVEY FIELD PLANS - 5



Legend

Order Limits

Survey area

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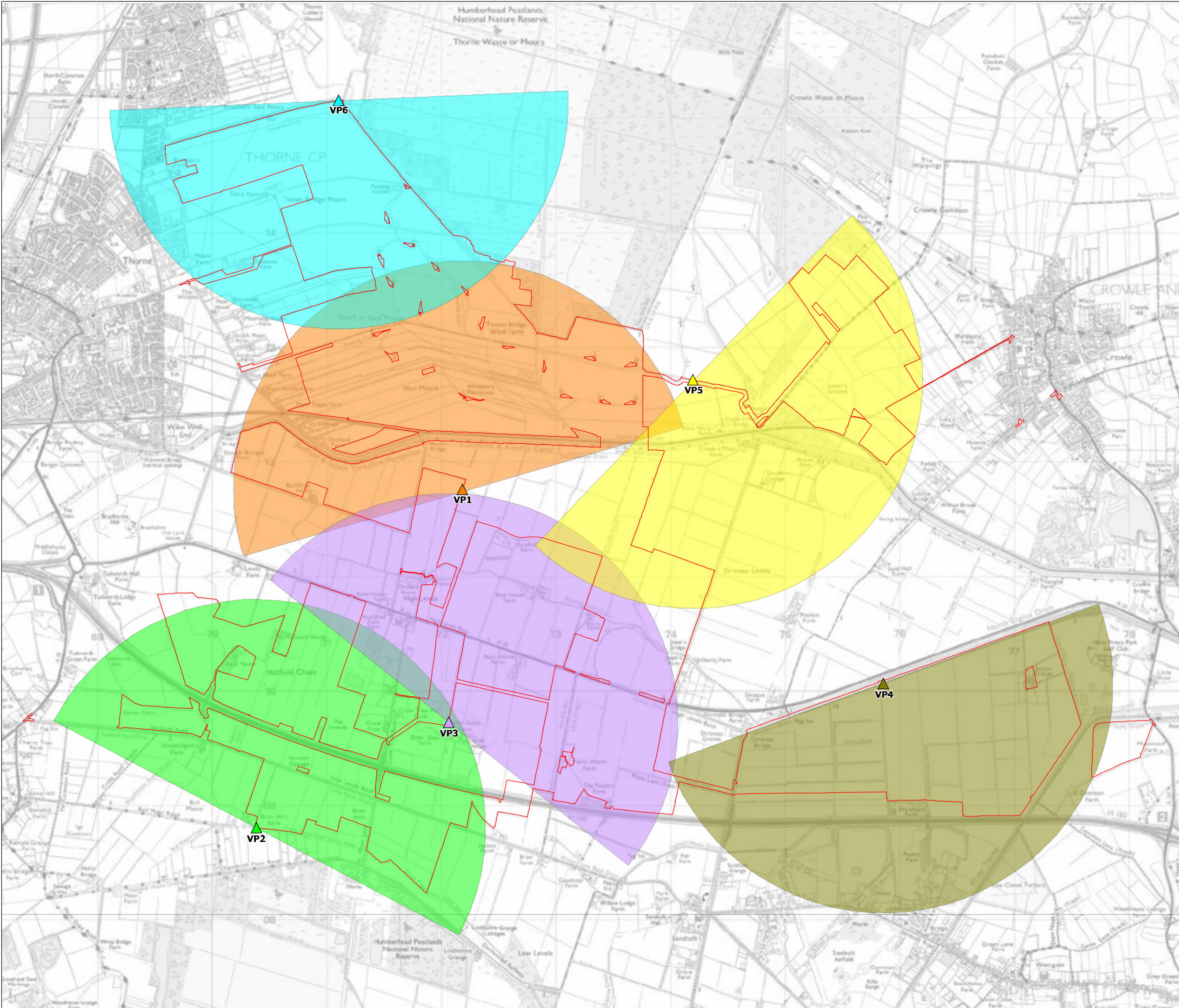
Figure 6: Non-Breeding Bird Survey Field Plans - 5

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0 400 metres

FIGURE 7: NON-BREEDING BIRD SURVEY FIELD PLANS - 6

FIGURE 8: VANTAGE POINT SURVEY LOCATIONS



Legend

Order Limits

Vantage Point (VP)

VP1 - SE7218011755

VP2 - SE7037708799

VP3 - SE7205909720

VP4 - SE7585810057

VP5 - SE7419512713

VP6 - SE7109915154

Viewshed 1

Viewshed 2

Viewshed 3

Viewshed 4

Viewshed 5

Viewshed 6

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Figure 8: Vantage Point Survey Locations

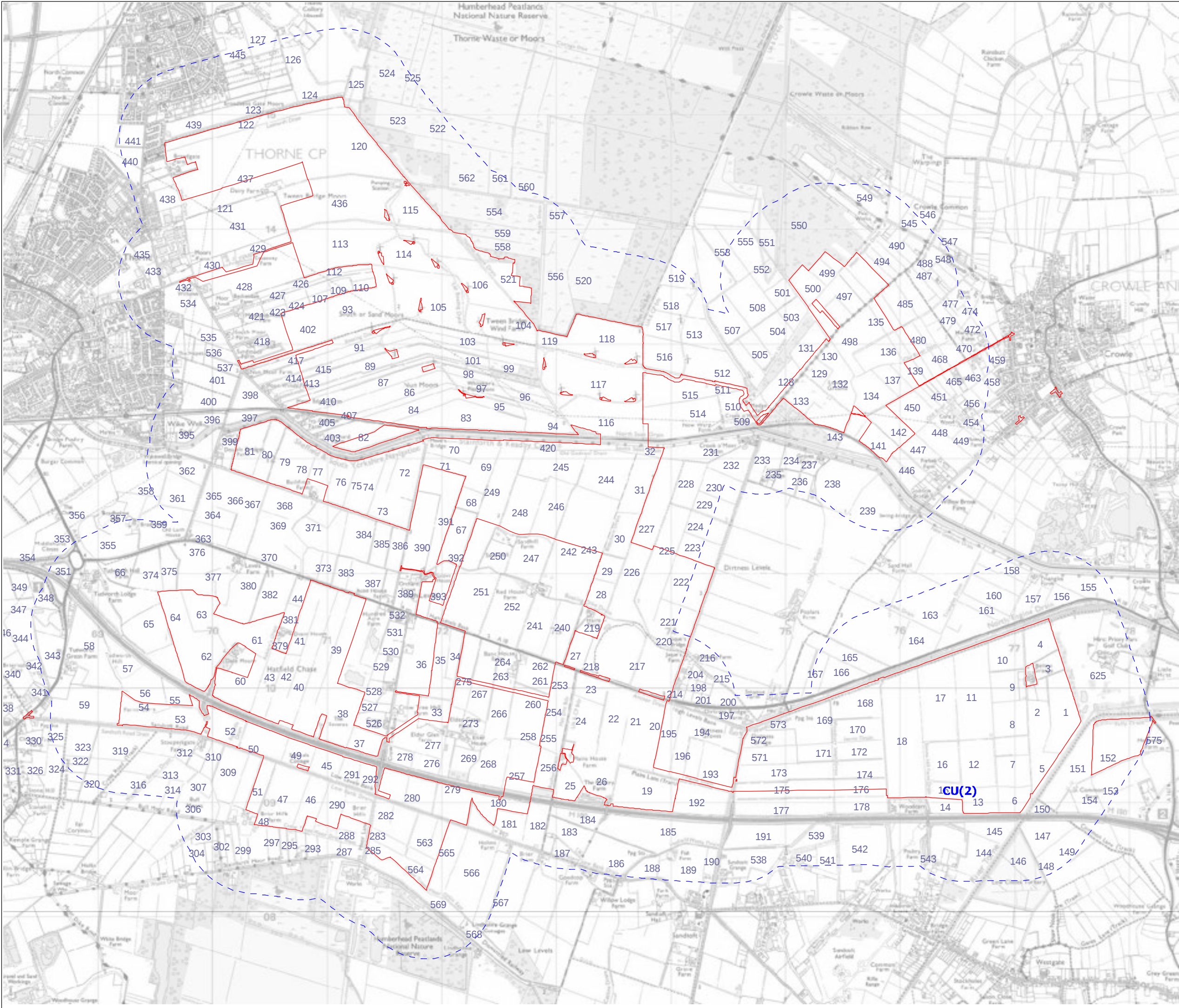
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0

1

kilometres

FIGURE 9: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – CURLEW



Legend

Order Limits

Survey Area

Target Species

Curlew (CU)

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Figure 9: Non-Breeding SPA Bird Survey Results 2022/23 – Curlew

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0

1

kilometres

FIGURE 10: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – GOLDEN PLOVER

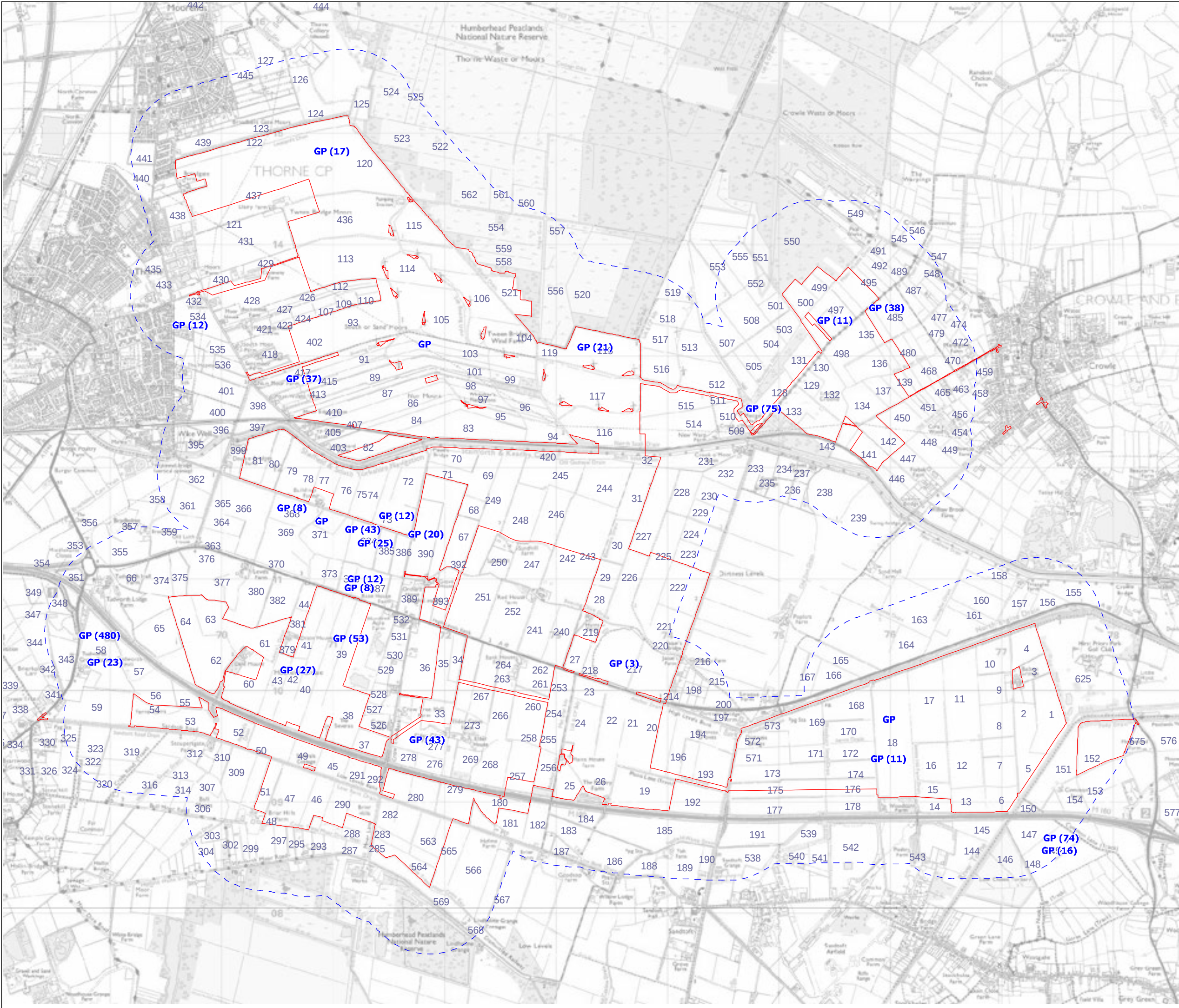
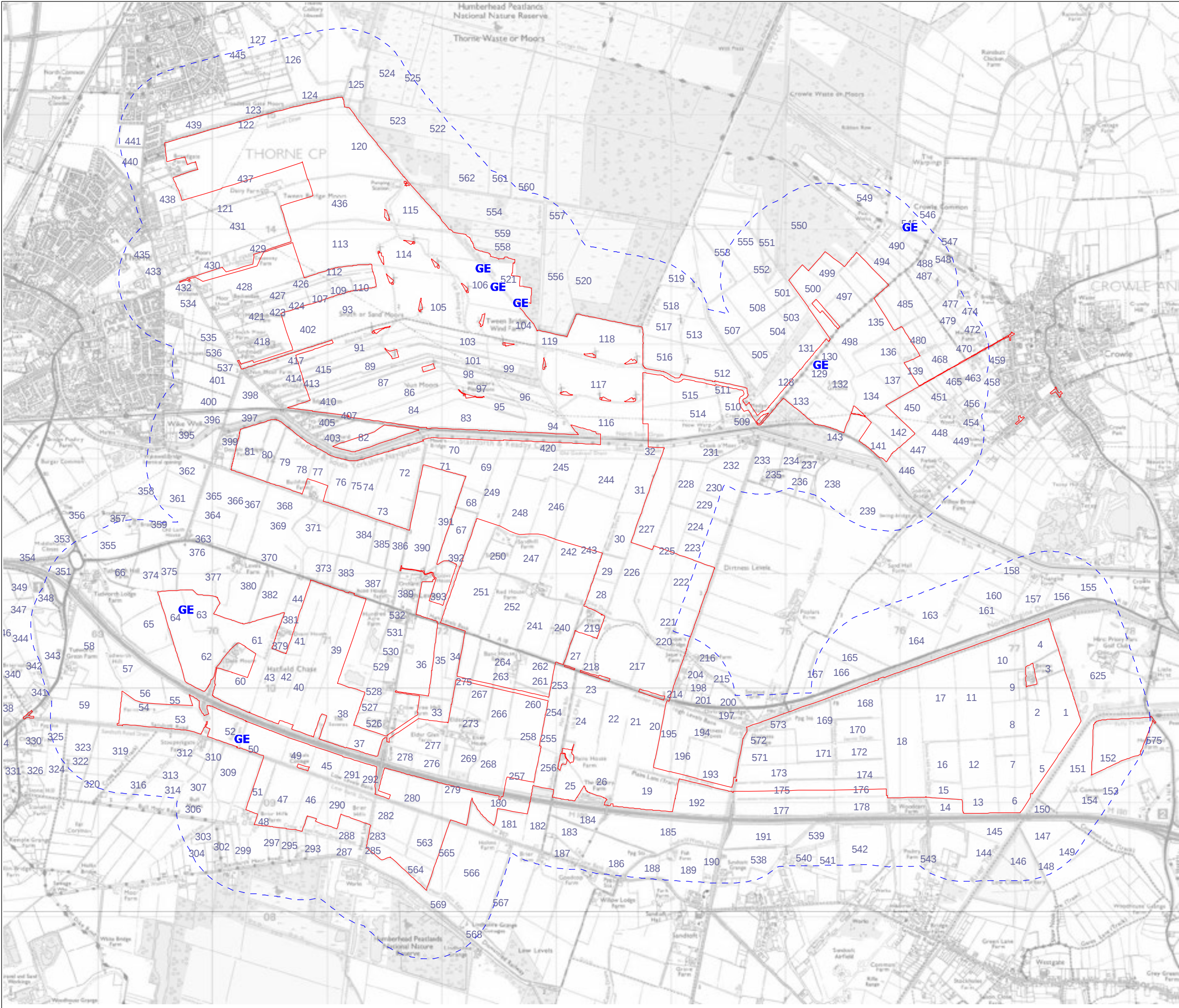


FIGURE 11: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – GREEN SANDPIPER



Legend

Order Limits

Survey Area

Target Species

Green Sandpiper (GE)

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TWEEN BRIDGES NSIP

Figure 11: Non-Breeding SPA Bird Survey
Results 2022/23 – Green sandpiper

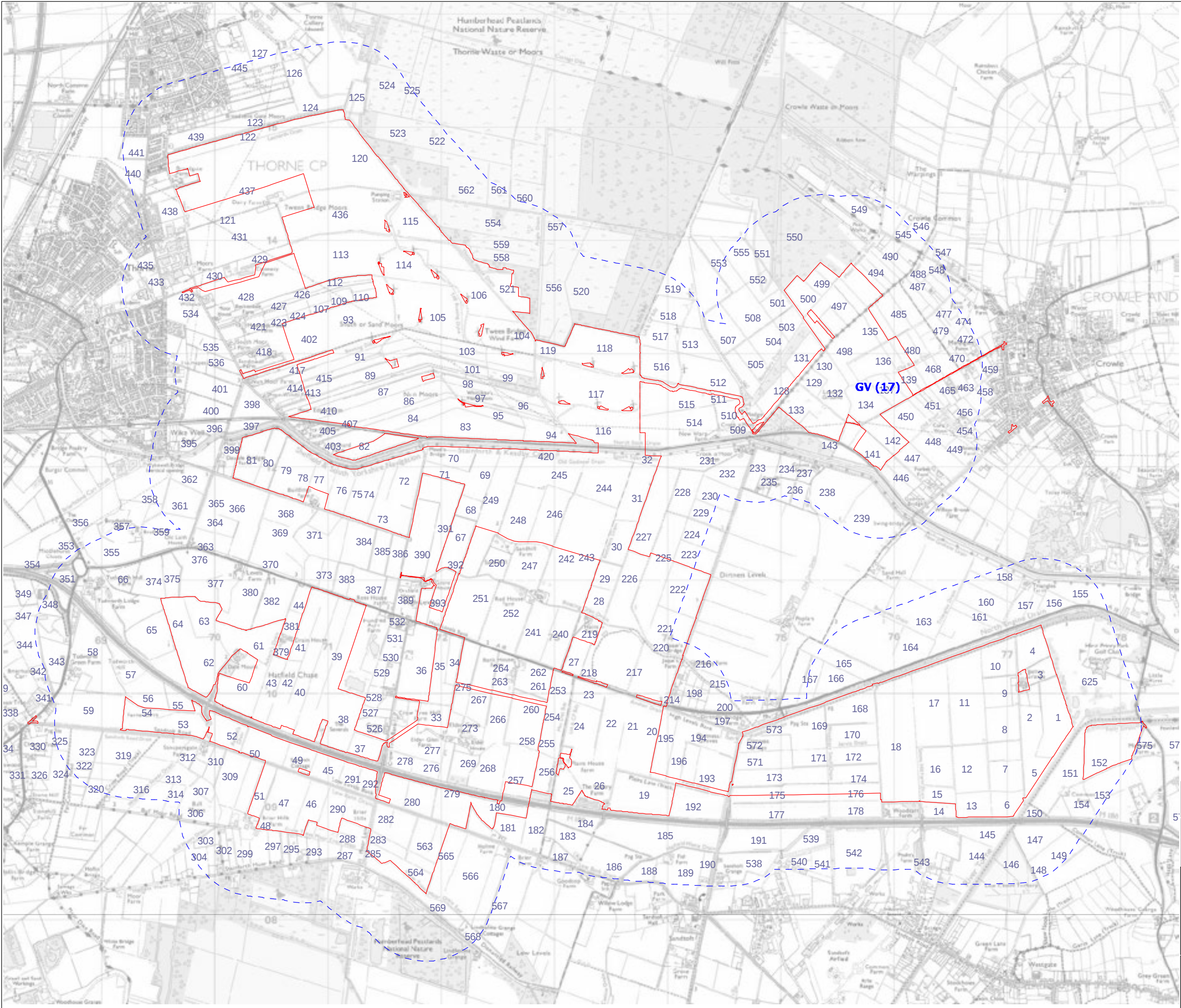
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0

1

kilometres

FIGURE 12: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 - GREY PLOVER



Legend

Order Limits

Survey Area

Target Species

Grey plover (GV)

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Figure 12: Non-Breeding SPA Bird Survey
Results 2022/23 - Grey plover

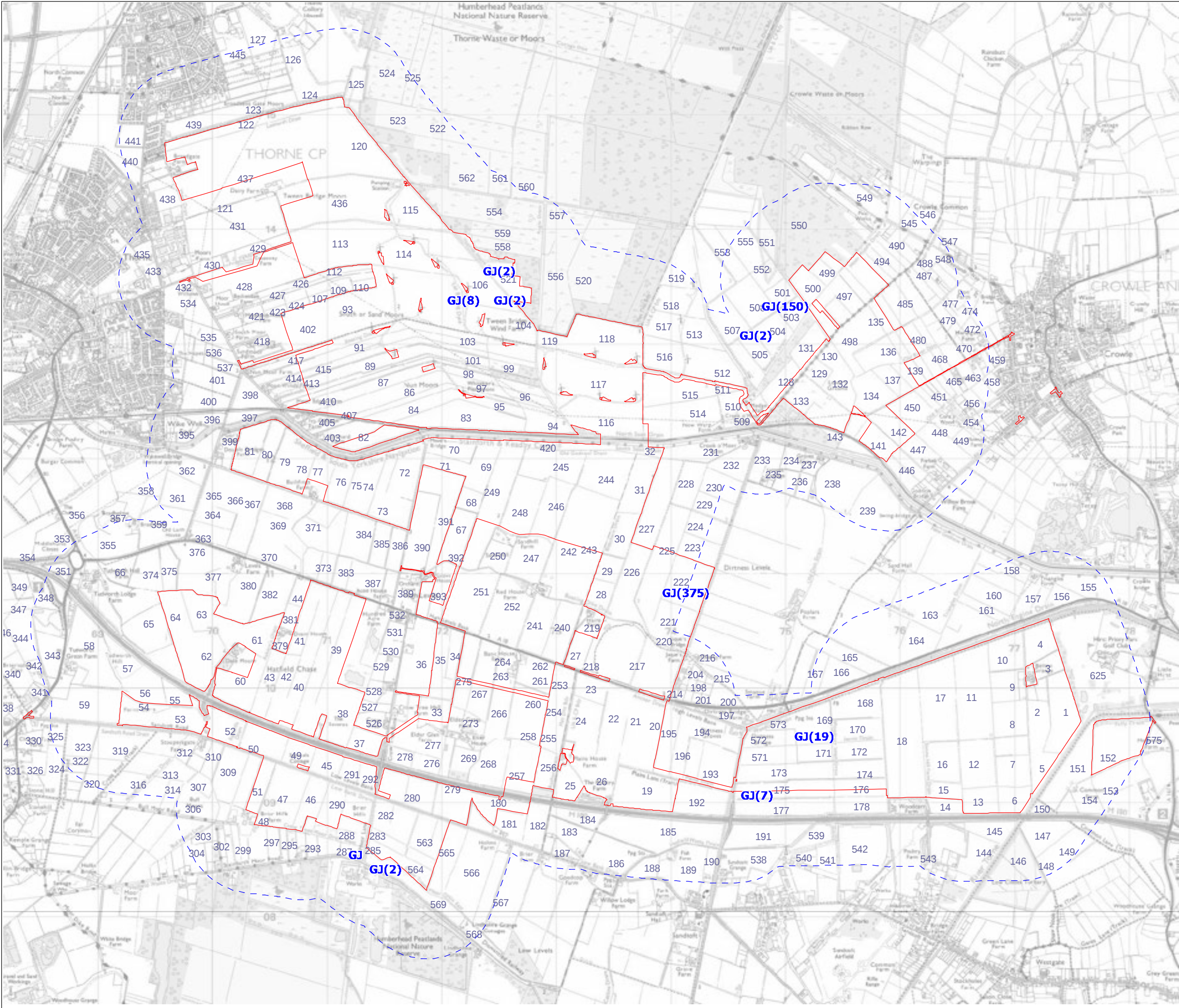
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0

1

kilometres

FIGURE 13: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – GREYLAG GOOSE



Legend

Order Limits

Survey Area

Target Species

Greylag goose (GJ)

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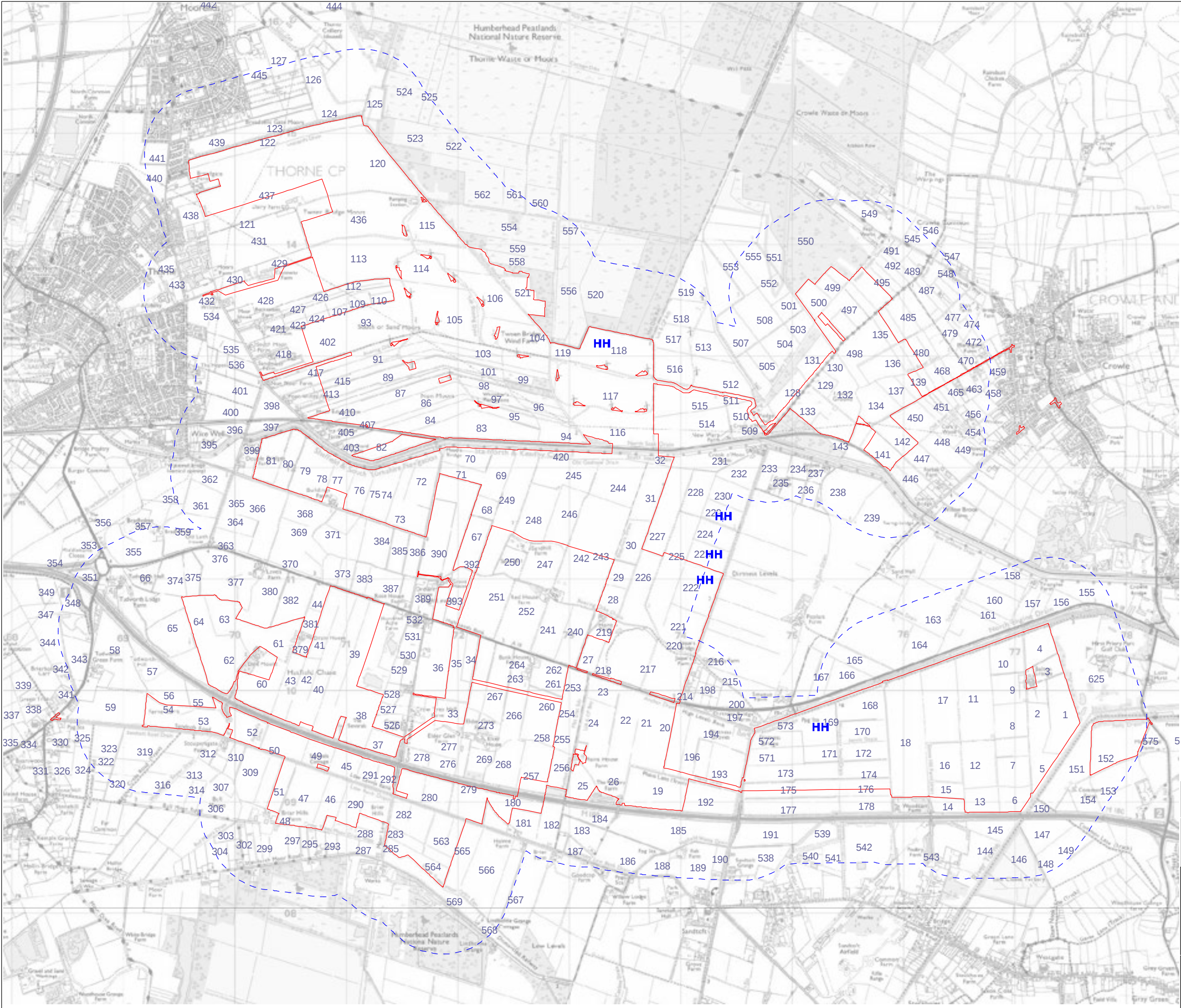
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Figure 13: Non-Breeding SPA Bird Survey
Results 2022/23 – Greylag goose

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0 1
kilometres

FIGURE 14: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – HEN HARRIER



Legend

Order Limits

Survey Area

Target Species

Hen harrier (HH)

00	04/11/2025		ZH	HD
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Figure 14: Non-Breeding SPA Bird Survey
Results 2022/23 – Hen harrier

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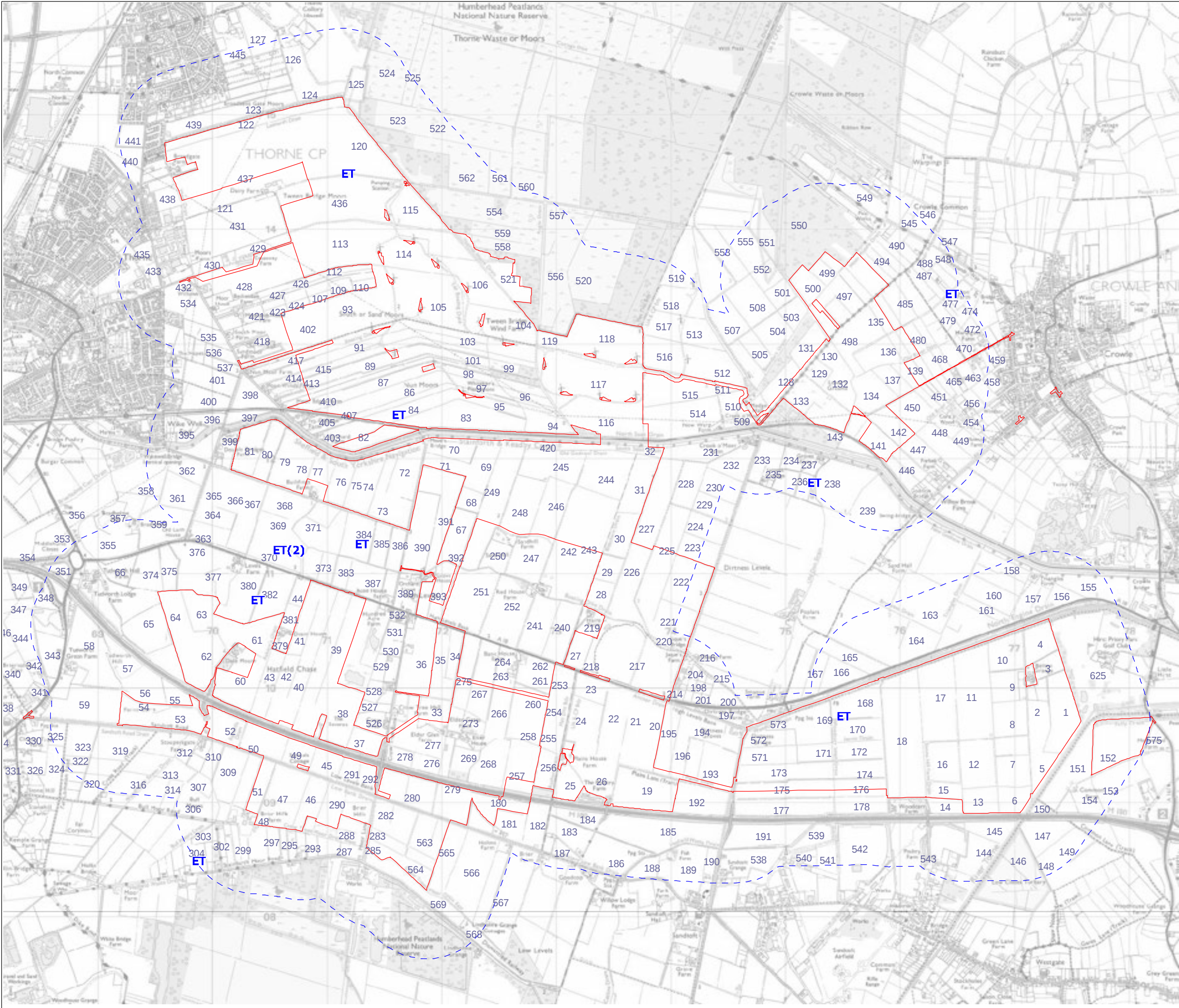
0

1

kilometres

FIGURE 15: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – LAPWING

FIGURE 16: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – LITTLE EGRET



Legend

Order Limits

Survey Area

Target Species

Little egret (ET)

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TWEEN BRIDGES NSIP

Figure 16: Non-breeding SPA Bird Survey
Results 2022/23 – Little egret

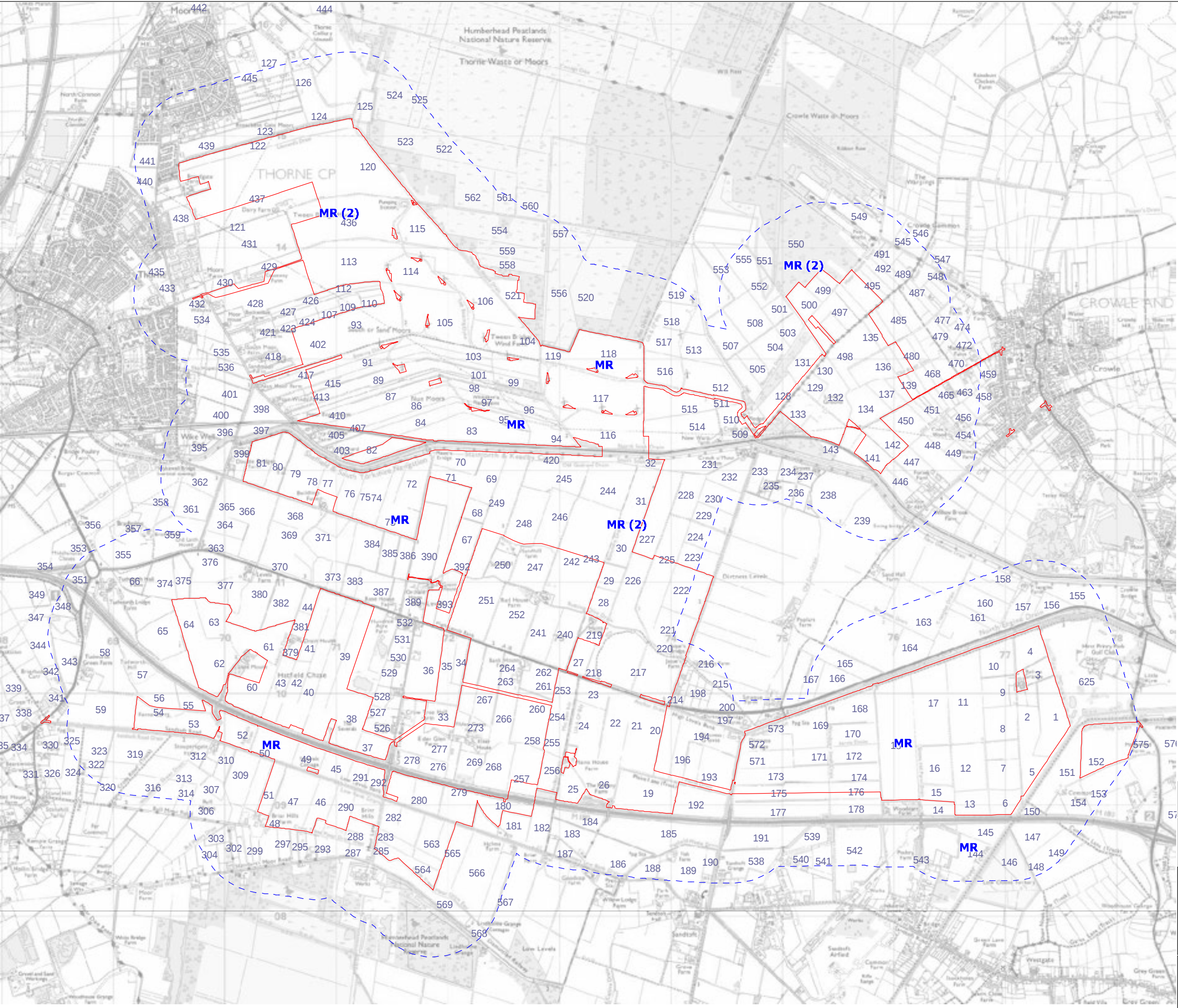
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0

1

kilometres

FIGURE 17: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – MARSH HARRIER



Legend

Order Limits

Survey Area

Target Species

Marsh harrier (MR)

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TWEEN BRIDGES NSIP

Figure 17: Non-Breeding SPA Bird Survey
Results 2022/23 – Marsh harrier

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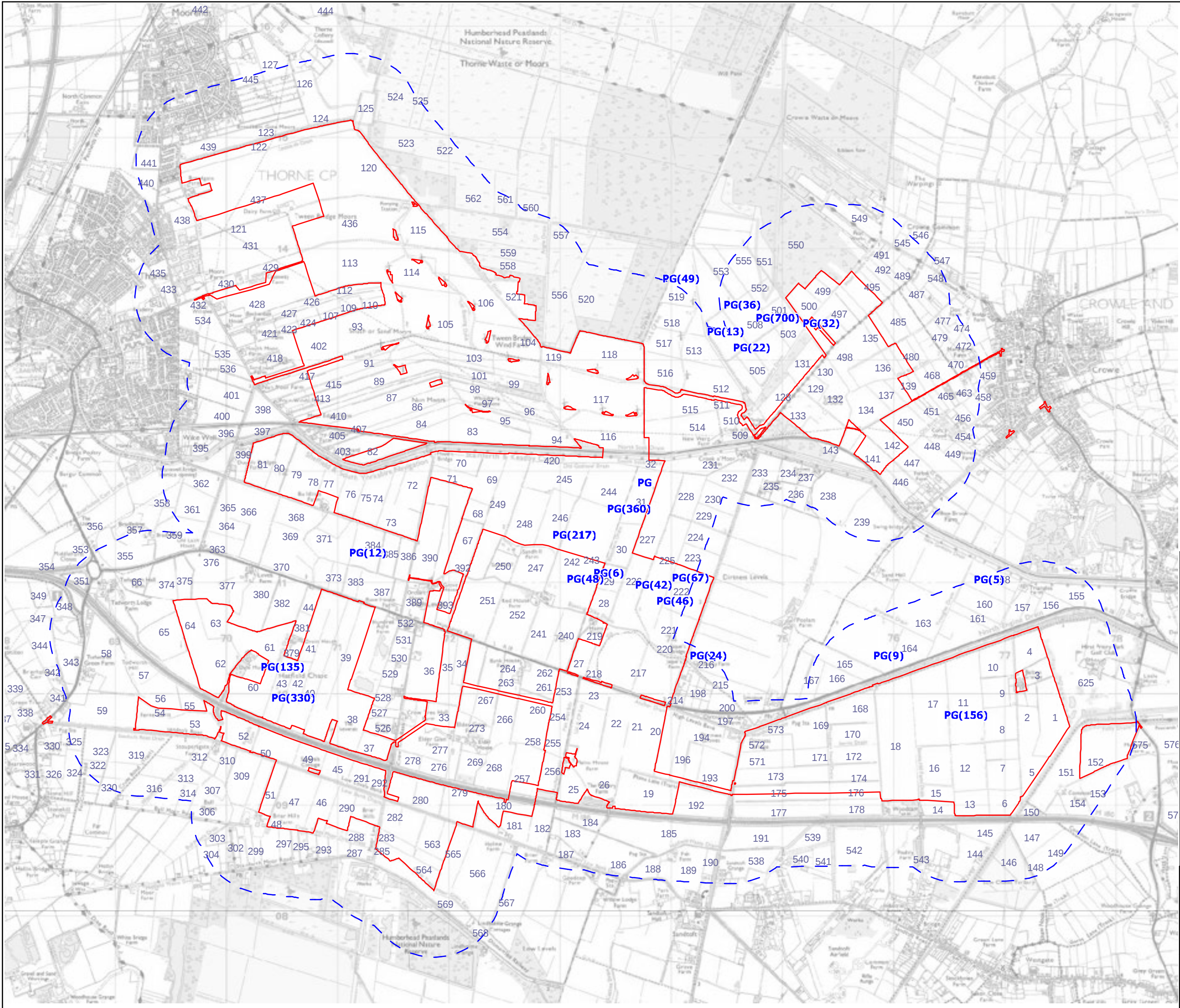
0

1

kilometres

FIGURE 18: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – MALLARD

FIGURE 19: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – PINK-FOOTED GOOSE



Legend

Order Limits

Survey Area

Target Species

Pink-footed goose (PG)

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Rev	Date	Description	De	App

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TWEEN BRIDGES NSIP

Figure 19: Non-breeding SPA Bird Survey Results 2022/23 – Pink-footed goose

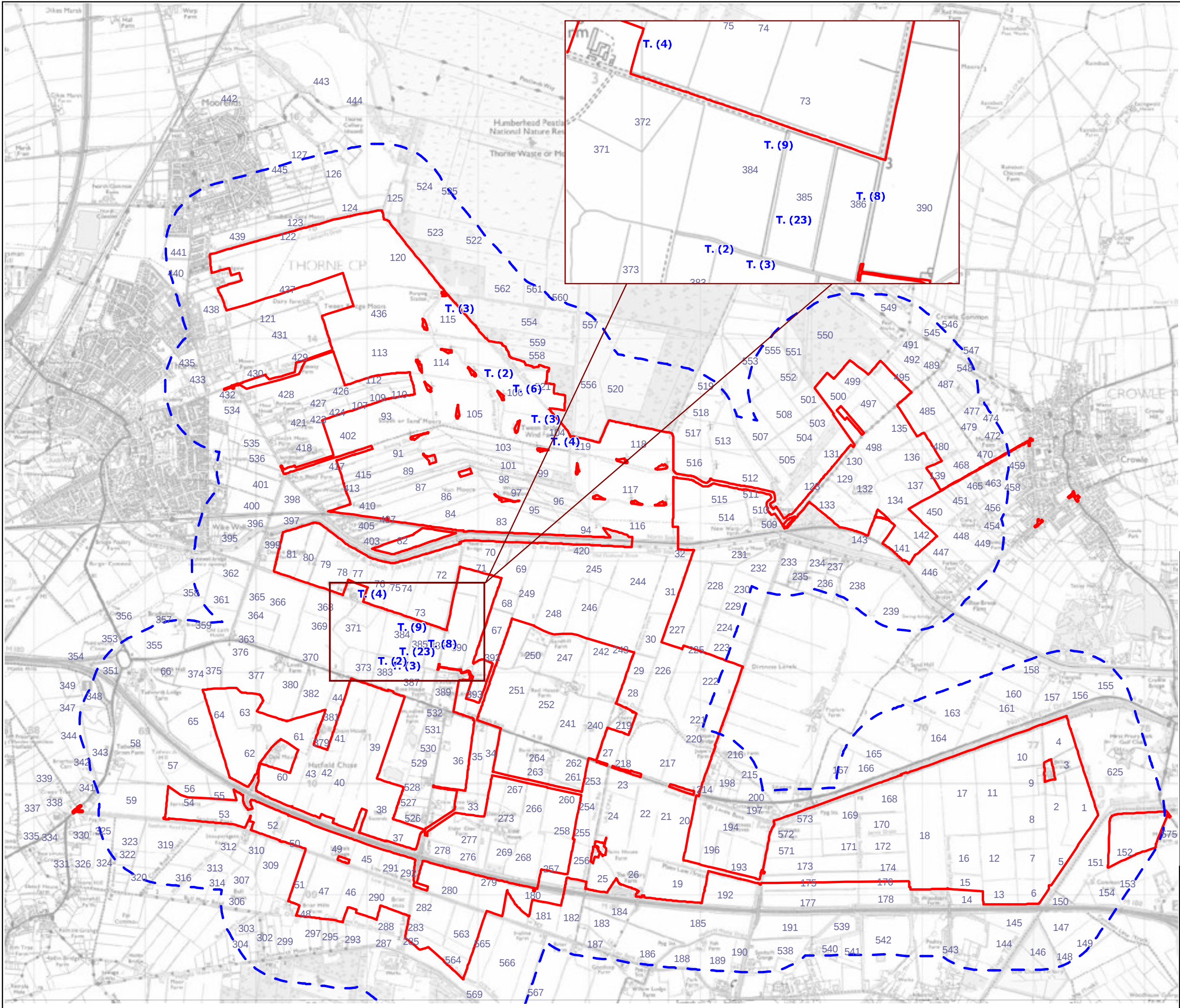
Avian Ecology, Suite 3c Walnut Tree Farm, Northwich Road, Lower Stretton
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0

1

kilometres

FIGURE 20: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – TEAL



Legend

Order Limits

Survey Area

Target Species
Teal (T.)

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Figure 20: Non-breeding SPA Bird Survey
Results 2022/23 – Teal

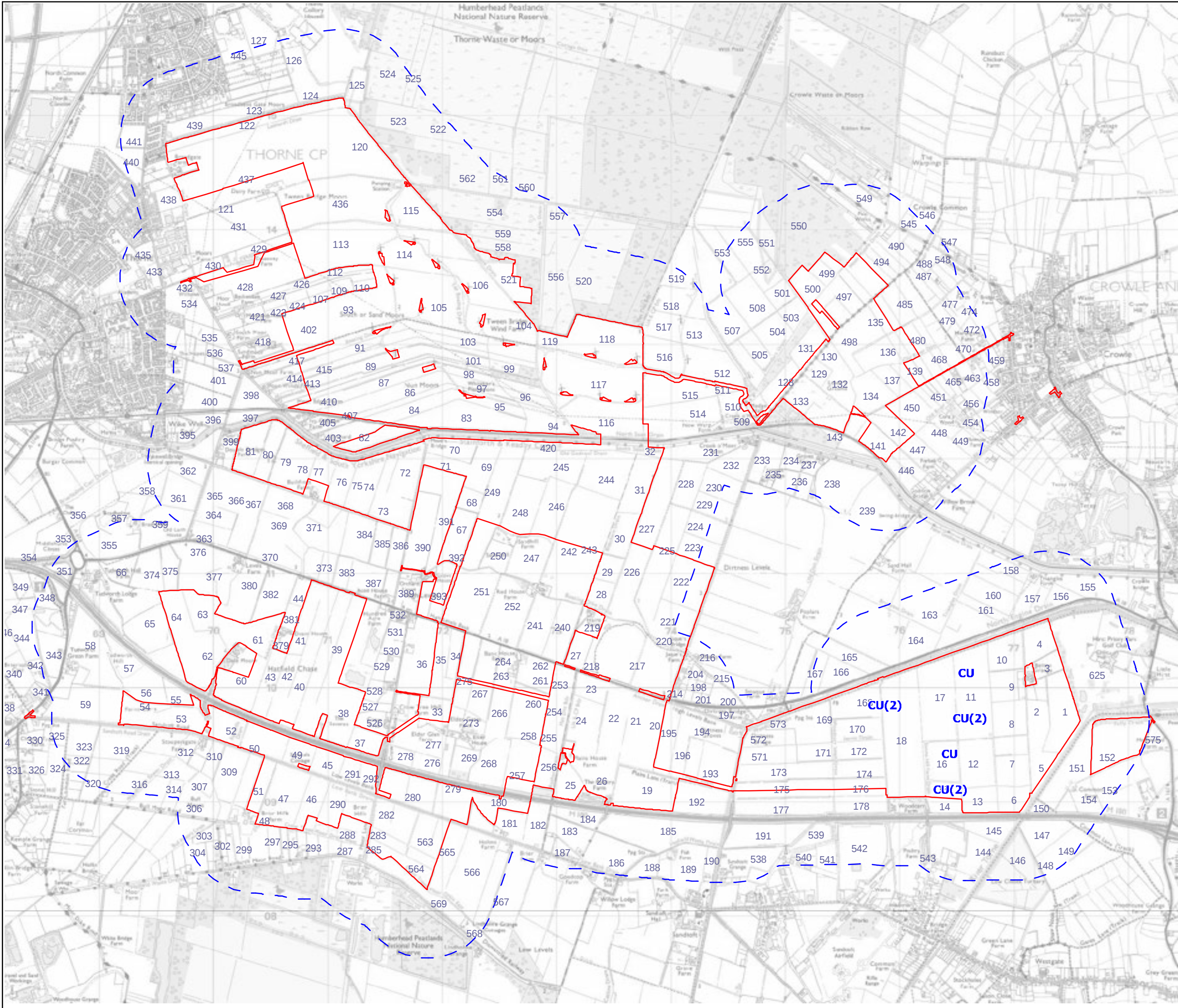
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0

1

kilometres

FIGURE 21: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – CURLEW



Legend

Order Limits

Survey Area

Target Species

Curlew (CU)

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Figure 21: Non-breeding SPA Bird Survey
Results 2023/24 – Curlew

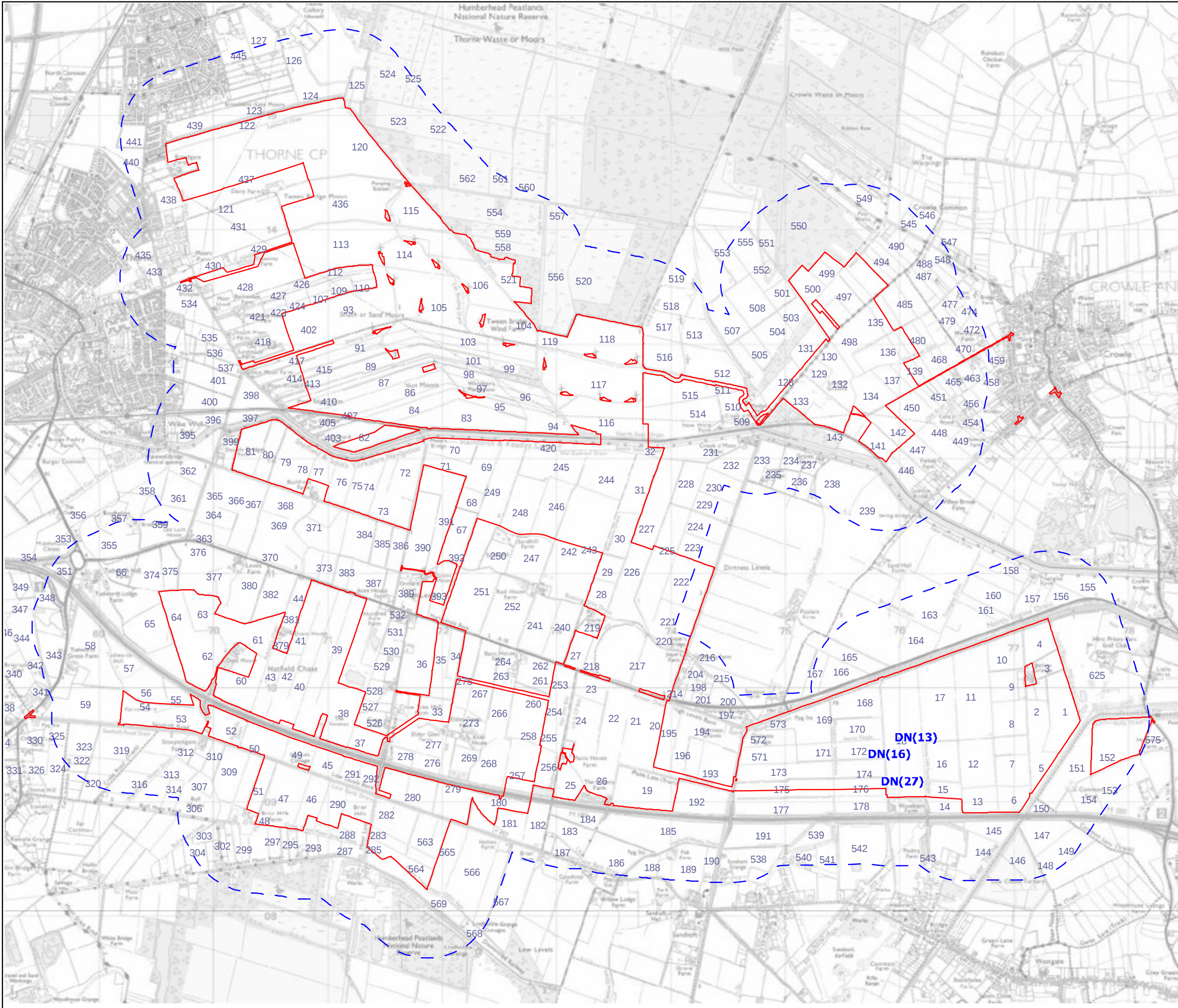
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0

1

kilometres

FIGURE 22: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – DUNLIN



Legend

Order Limits

Survey Area

Target Species

Dunlin (DN)

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TWEEN BRIDGES NSIP

Figure 22: Non-breeding SPA Bird Survey
Results 2023/24 – Dunlin

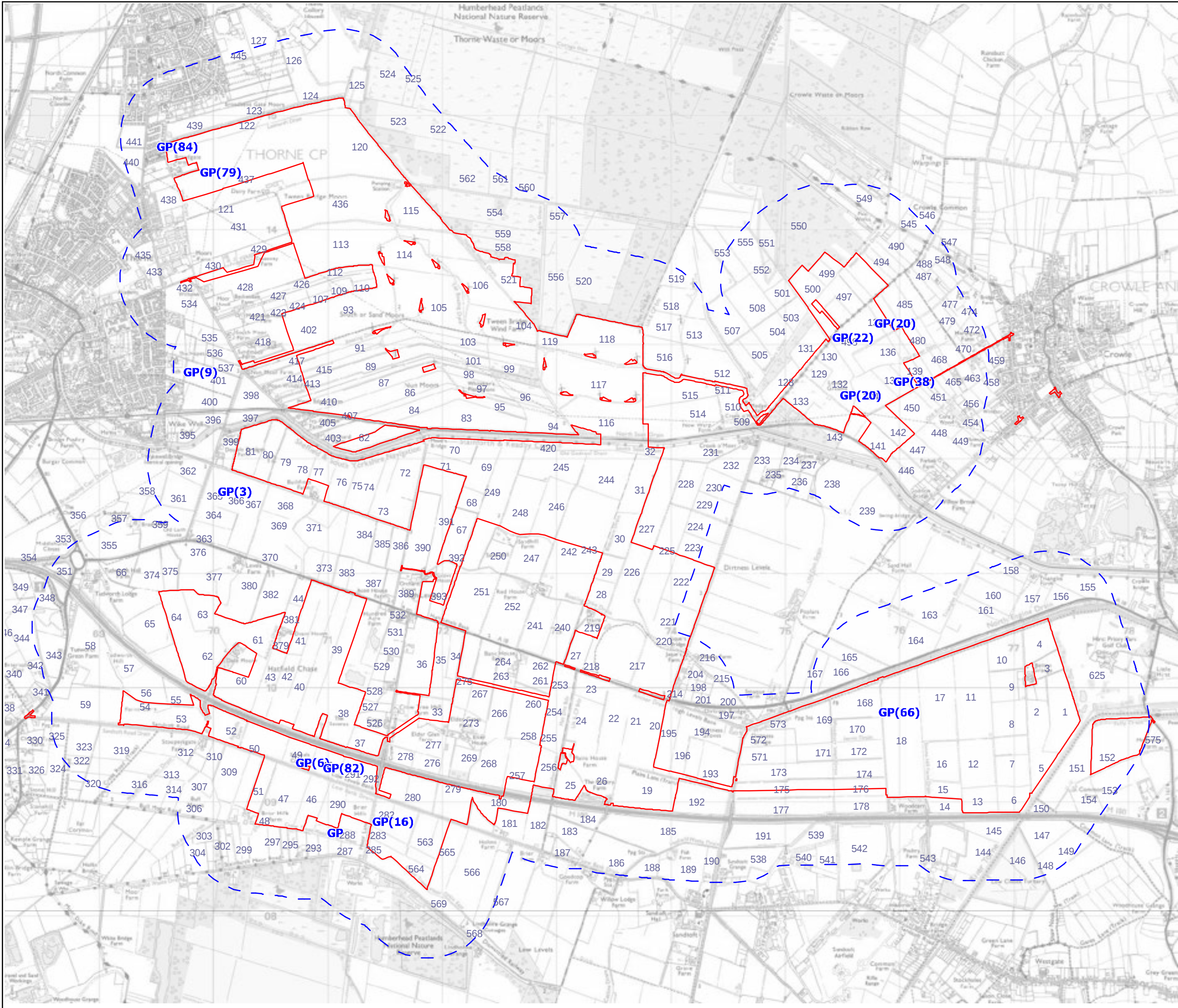
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0

1

kilometres

FIGURE 23: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – GOLDEN PLOVER



Legend

Order Limits

Survey Area

Target Species

Golden plover (GP)

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TWEEN BRIDGES NSIP

Figure 23: Non-breeding SPA Bird Survey Results 2023/24 – Golden plover

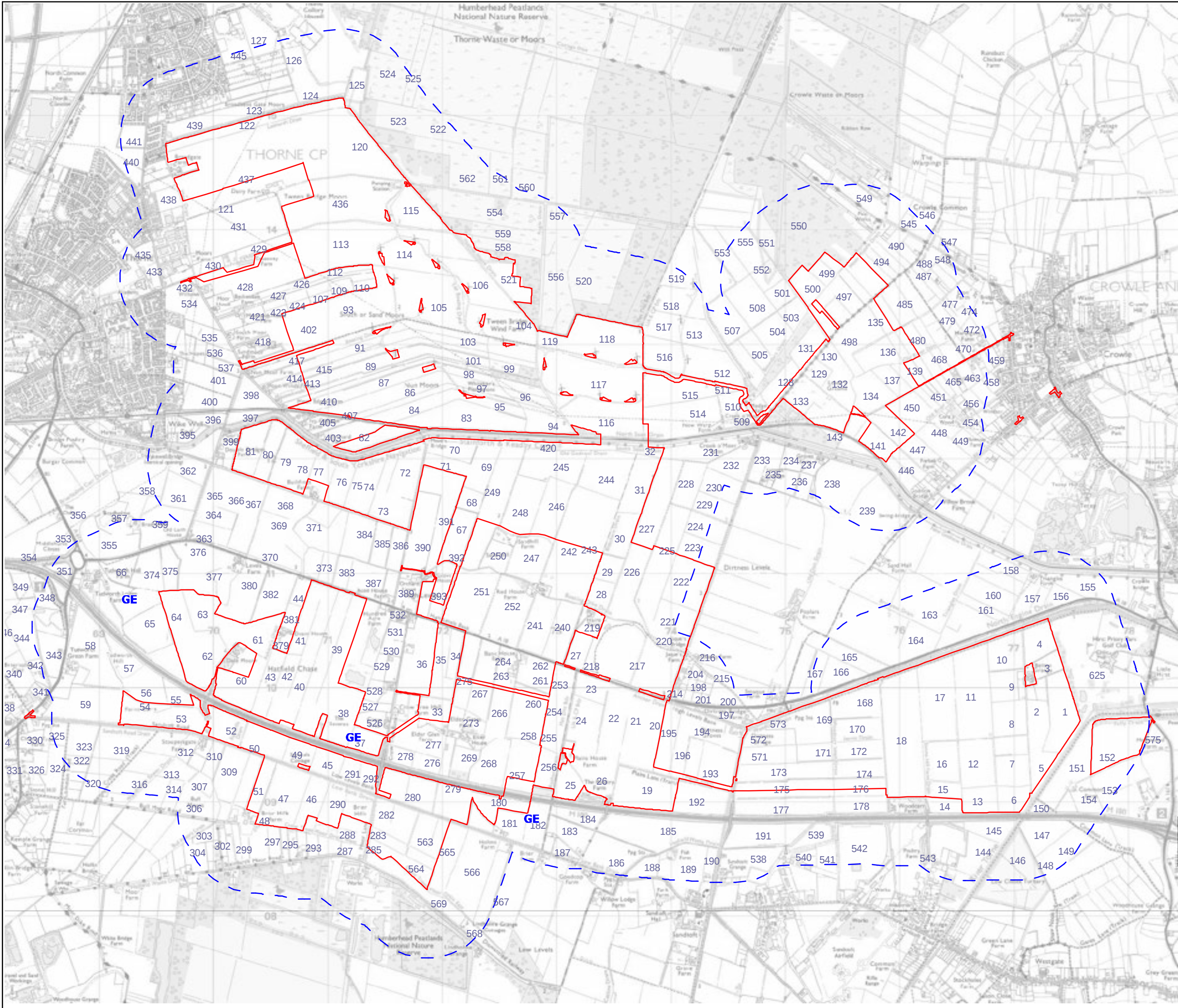
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0

1

kilometres

FIGURE 24: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – GREEN SANDPIPER



Legend

Order Limits

Survey Area

Target Species

Green sandpiper (GE)

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Figure 24: Non-breeding SPA Bird Survey Results 2023/24 – Green sandpiper

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FIGURE 25: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – GREYLAG GOOSE

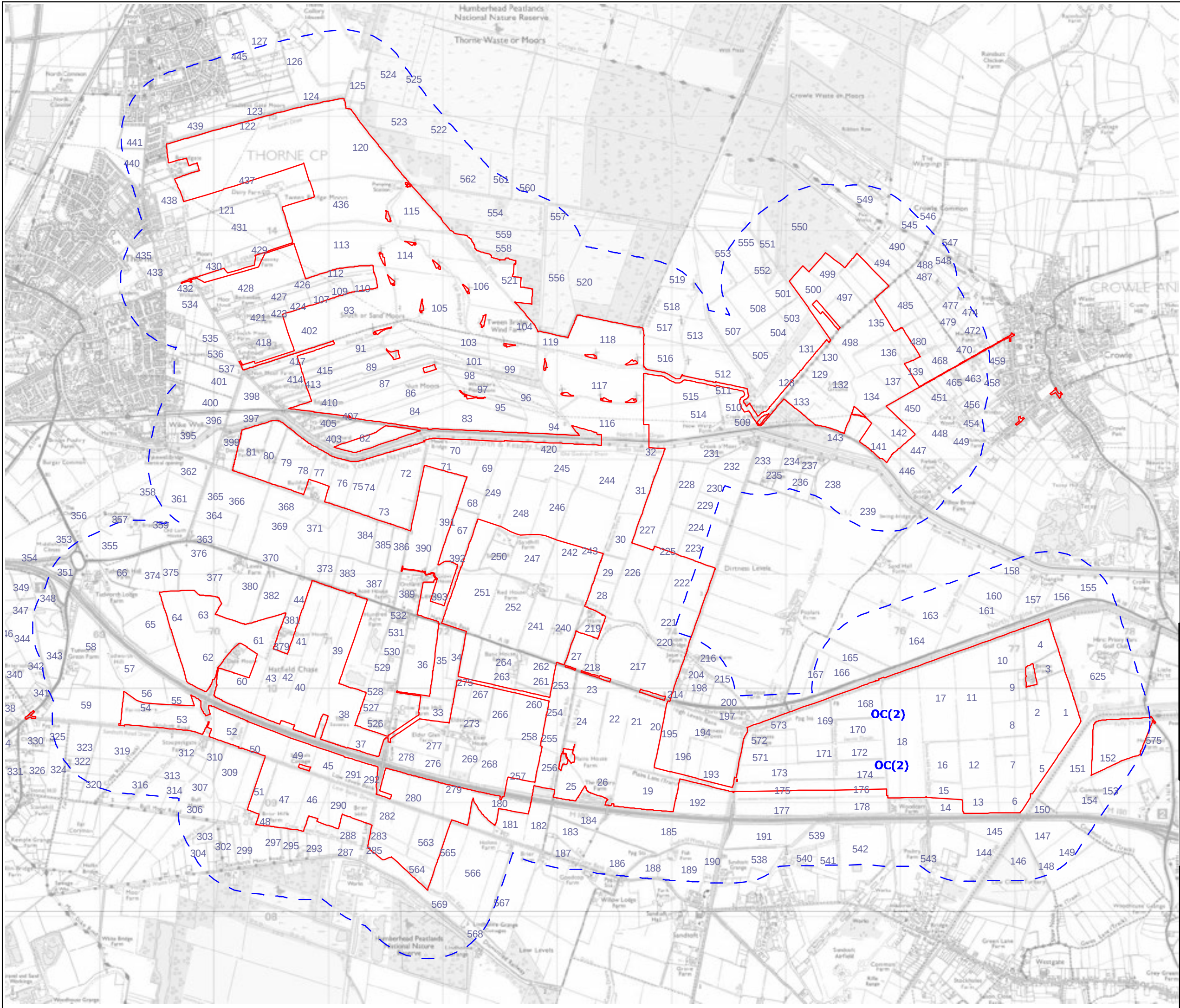
FIGURE 26: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – LAPWING

FIGURE 27: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – LITTLE EGRET

FIGURE 28: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – MARSH HARRIER

FIGURE 29: NON-BREEDING SPA BIRD SURVEY RESULTS 2022/23 – MALLARD

FIGURE 30: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – OYSTERCATCHER



Legend

Order Limits

Survey Area

Target Species

Oystercatcher (OC)

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TWEEN BRIDGES NSIP

Figure 30: Non-breeding SPA Bird Survey
Results 2023/24 – Oystercatcher

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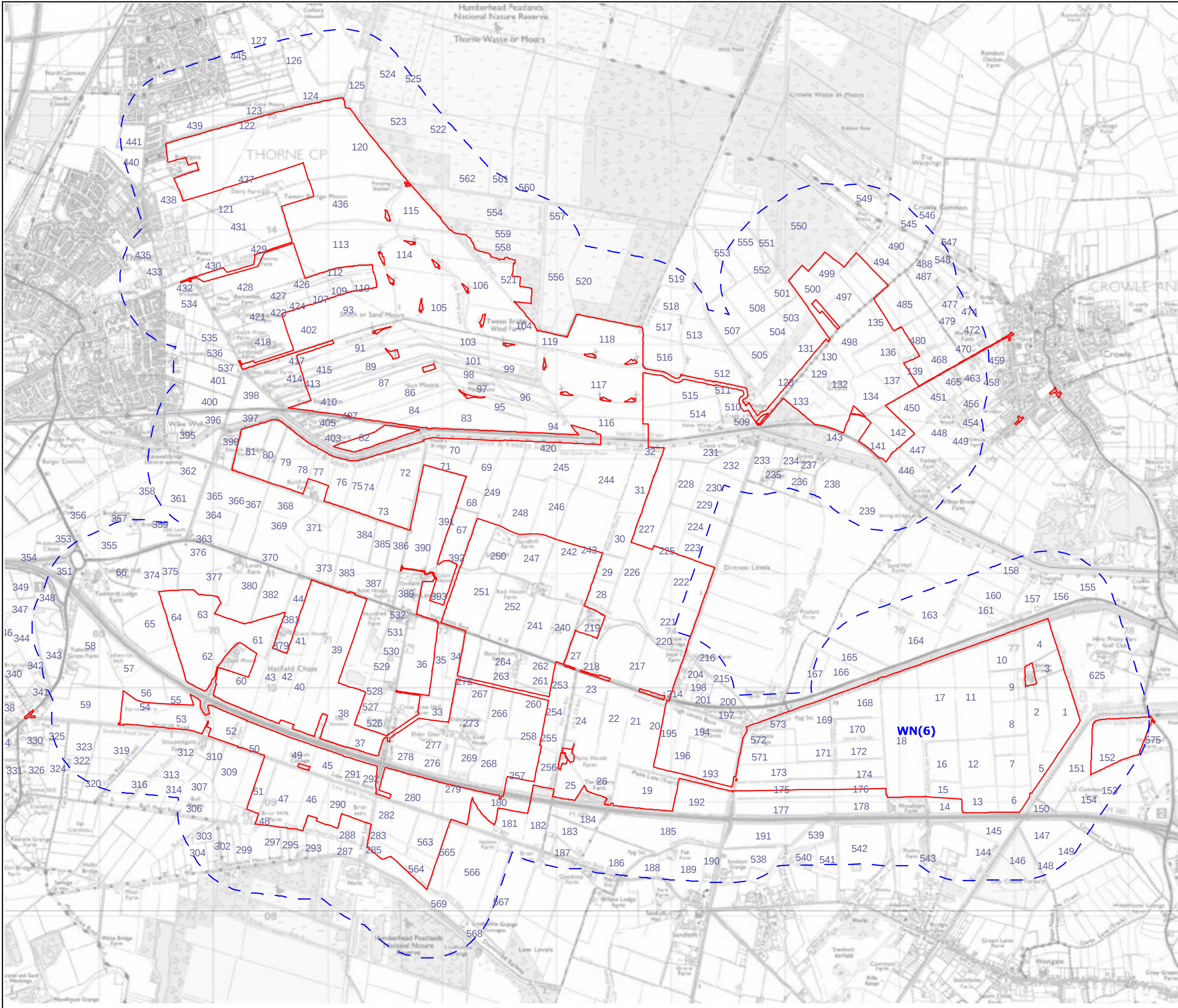
1

kilometres

FIGURE 31: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – PINK-FOOTED GOOSE

FIGURE 32: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – TEAL

FIGURE 33: NON-BREEDING SPA BIRD SURVEY RESULTS 2023/24 – WIGEON



Legend

Order Limits

Survey Area

Target Species

Wigeon (WN)

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TWEEN BRIDGES NSIP

Figure 33: Non-Breeding SPA Bird Survey
Results 2023/24 – Wigeon

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