



## UNIVERSAL DESTINATIONS & EXPERIENCES UK PROJECT

Former Kempston Hardwick Brickworks  
and adjoining land, Bedford

**Environmental Statement Volume 3**

**Appendix 6.15 - Wintering Bird Survey Report**

Report reference: 4.6.15.0

Revision number: 00

Date: June 2025





# CONTENTS

---

<b>1</b>	<b>INTRODUCTION</b>	<b>1</b>
1.1	PROJECT BACKGROUND	1
1.2	SCOPE OF REPORT	1
1.3	SITE CONTEXT	1
<b>2</b>	<b>METHODS</b>	<b>3</b>
2.1	SURVEY AREA	3
2.2	WINTER BIRD SURVEY	3
2.3	SURVEY LIMITATIONS	4
<b>3</b>	<b>RESULTS</b>	<b>5</b>
<b>4</b>	<b>KEY SPECIES SUMMARY</b>	<b>9</b>
<b>5</b>	<b>CONCLUSION</b>	<b>13</b>

---

---

## TABLES

Table 3-1: Monthly Peak Counts for Target Species	5
---	---

---

## ANNEXES

ANNEX 1

SPECIES NAMES

ANNEX 2

RELEVANT LEGISLATION AND POLICY



ANNEX 3

SURVEY VISIT DETAILS

ANNEX 4

SURVEY RESULTS

ANNEX 5

FIGURES

# 1 INTRODUCTION

---

## 1.1 PROJECT BACKGROUND

- 1.1.1. This winter bird survey report has been prepared in support of the planning proposal for the Proposed Development as described in **Chapter 2: Description of the Proposed Development (Volume 1)** of the Environmental Statement, on land southwest of Bedford, Bedfordshire (hereafter referred to as the 'Site'). Full details of the Proposed Development are provided in **Chapter 2: Description of the Proposed Development (Volume 1)**. The Site boundary is shown in **Figure 1: Site Location and Winter Bird Survey Plot Numbers of Annex 5: Figures**.
- 1.1.2. The Site is subdivided into four Zones: the Lake Zone, the Core Zone, the West Gateway Zone and the East Gateway Zone as shown on **Figure 1: Site Location and Winter Bird Survey Plot Numbers of Annex 5: Figures**.

## 1.2 SCOPE OF REPORT

- 1.2.1. The requirement for winter bird surveys followed the completion of the Preliminary Ecological Appraisal (**Appendix 6.1: Preliminary Ecological Appraisal Report (Volume 3)**) which identified numerous desk records of birds and suitable habitats within the Site of potential importance to support wintering (non-breeding) birds. The purpose of the winter bird survey is:
- To provide baseline information on the winter non-breeding bird community and species of interest within the Site, with reference to whether legally protected and/or notable species are present or likely to be present; and
  - To provide recommendations to enable compliance with relevant nature conservation legislation and planning policies.
- 1.2.2. The scientific names of the bird species referred to in common name format in this report are provided in **Annex 1**. A summary of relevant legislation and other conservation policy pertaining to birds are provided in **Annex 2**.
- 1.2.3. The report presents baseline survey information but does not include an assessment of effects upon wintering (non-breeding) birds. The impact assessment for non-breeding birds is outlined in **Chapter 6: Ecology and Nature Conservation (Volume 1)**.

## 1.3 SITE CONTEXT

- 1.3.1. The Site, extending to 268ha, is located immediately to the south of Bedford town and separated from it by the A421 dual carriageway (road), which links the A1 dual carriageway in the east to Milton Keynes and beyond in the west. At a landscape level the Site is located within an area which comprises of a series of former brick work extraction lakes which extend beyond the southern extent of the Site to Stewartby.
- 1.3.2. The northwest of the Site is bounded by a railway line (linking Bedford to Oxford) to the west of which is the Marsh Leys Industrial Estate. Manor Road, a minor road which links the A421 to Kempston Hardwick Station and village, crosses west-east through the central part of the Site approximately defining the Lake Zone to the north and Core Zone to the south. Part of the East Gateway Zone straddles Manor Road. The B531; Ampthill Road forms much of the northeast boundary of Site.

- 1.3.3. To the south of Manor Road, the Site is bounded to the east by three lakes fringed by woodland and dense scrub. Immediately to the south of the Site are Broadmead and Randall Farms to the south of which is the village of Stewartby. The Marston Vale Railway line cuts south-north through the Site dividing the Core Zone and West Gateway Zone. Bedford Road (now replaced by the A421 which runs adjacent and to the west) forms the western boundary of the West Gateway Zone.
- 1.3.4. The Lake Zone (at the time of the survey) contained three freshwater lakes, water-filled ditches and extensive areas of dense scrub, together with a large (approximately 10ha) area of degraded concrete, hard-standing. The northern-most two lakes were separated by an area (approximately 30-40m wide) of wetland vegetation, which likely form a single lake, (covering approximately 16.2ha) during periods of high water-levels. These lakes were fringed by dense reedbed around much of the perimeter, with the smaller lake to the south (covering approximately 4.3ha) fringed by dense scrub. The Lake Zone also contained an extensive area of rough, uncultivated grassland in the west, bounded along its western perimeter by dense scrub and a reed-lined ditch. Immediately to the east of the Lake Zone is Kempston Hardwick Pits lake used for commercial fishing (covering approximately 50.8ha), also fringed by reeds.
- 1.3.5. The East Gateway Zone straddles Manor Road with adjacent residential housing, hedgerows, gardens and scrub. The eastern part of the East Gateway Zone comprises deciduous woodland and scrub that is dissected, north-south by the B531 road.
- 1.3.6. The Core Zone comprised primarily of one large open field plus a number of smaller enclosed fields comprising arable farmland (cereal crop), bounded by gappy hedges and a belt of deciduous woodland and dense scrub along its eastern boundary. Manor Road and the houses and gardens of Kempston village form the northern boundary of the Core Zone. Adjacent to the east of the Core Zone is Coronation Pit Local Wildlife Site; comprising of a series of open water areas interspersed by scrub and trees.
- 1.3.7. The West Gateway Zone primarily comprised of a single field of arable farmland, bounded by hedgerows alongside Broadmead Road and Woburn Road, which at the time of the survey was planted with winter cereal.

## 2 METHODS

---

### 2.1 SURVEY AREA

- 2.1.1. The Survey Area shown on **Figures 1 – 9 of Annex 5: Figures** comprised all land within the Site and an area of up to approximately 500m of the Site boundary (where access was possible). The 500m buffer was incorporated into the Survey Area to include land within which non-breeding birds could be present and as a result potentially be impacted by disturbance effects of the Proposed Development.

### 2.2 WINTER BIRD SURVEY

- 2.2.1. In order to identify the level and type of use of the Site and surrounding area by wintering birds, a field-by-field survey was undertaken within the Site boundary and within 500m of the boundary, where access permitted (the Survey Area). The methods used were based on those provided for the non-breeding walkover survey by the Bird Survey and Assessment Steering Group (2025)<sup>1</sup>.
- 2.2.2. The Survey Area was visited twice each month in appropriate weather (e.g. with good visibility and without strong winds or persistent rain) from October 2024 to March 2025 inclusive, with each visit taking one day to complete. These surveys were carried out as instantaneous counts, recording a snapshot of the birds present within each block of habitat (field/plot) at the time it was surveyed. Each field or block of habitat defined as a survey 'Plot' was assigned a unique identification number. The Plot numbers are shown on **Figure 1: Site Location and Winter Bird Survey Plot Numbers of Annex 5: Figures**.
- 2.2.3. Within the Survey Area, each Plot was walked and all bird species were recorded. Where access was generally limited to public footpaths and roads, the survey entailed scanning the Plot from suitable vantage points and recording any notable species or potentially important congregations of other species within them. For each bird record mapped, the following information was recorded: time, number of individuals, location, their activity (foraging, loafing [resting], roosting, etc.) and the habitat being used. The habitat/crop types in each field/plot were recorded at the start of the survey in October 2024, and a note made of any subsequent changes during the survey period.
- 2.2.4. The following bird species/species groups are defined as Target Species for the purposes of the winter bird survey:
- All bird of prey species;
  - All waterbird species;
  - Species listed on Annex I of the *Birds Directive*<sup>2</sup> (see **Annex 2**);
  - Species listed on Schedule 1 of the *Wildlife and Countryside Act 1981* as amended<sup>3</sup> (see **Annex 2**);

---

<sup>1</sup> Bird Survey & Assessment Steering Group (2025) *Bird Survey Guidelines for assessing ecological impacts*. Available at: <https://birdsurveyguidelines.org> [Accessed: 06 April 2025].

<sup>2</sup> Birds Directive available at: <http://data.europa.eu/eli/dir/2009/147/2019-06-26> [Accessed: 06 April 2025].

<sup>3</sup> HM Government (1981) *Wildlife and Countryside Act 1981*. Available at: <https://www.legislation.gov.uk/ukpga/1981/69> [Accessed: 06 April 2025].

- Species of Principal Importance (SPI), listed on Section 41 of the *Natural Environment and Rural Communities Act 2006 (NERC)*<sup>4</sup> (see **Annex 2**);
- Red and Amber Listed species in *Birds of Conservation Concern (BoCC)* 5<sup>5</sup>; and
- Other species of potential county or local importance.

## DATES OF SURVEY AND PERSONNEL

- 2.2.5. The surveys were completed by competent ornithological surveyors, experienced in undertaking winter bird surveys. The dates, times and weather conditions for the survey visits are provided in **Table 2** in **Annex 3**.

## 2.3 SURVEY LIMITATIONS

- 2.3.1. Full walking access to some parts of the Lake Zone was not possible during the first visit on 8 October 2024 but was covered on all subsequent visits. In view of this, the overall conclusions set out in this report are considered to provide an accurate and robust assessment of the level of use by the target species on the Site.

---

<sup>4</sup> HM Government (2006) *Natural Environment and Rural Communities Act 2006*. Available at: <https://www.legislation.gov.uk/ukpga/2006/16/contents> [Accessed: 06 May 2025].

<sup>5</sup> Stanbury, A.J., Eaton, M.A., Aebischer, N.J., Balmer, D., Brown, A.F., Douse, A., Lindley, P., McCulloch, N., Noble, D.G. and 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, pp. 723-747. Available at: <https://britishbirds.co.uk/content/status-our-bird-populations> [Accessed: 25 April 2025].



### 3 RESULTS

- 3.1.1. A total of 55 target winter bird species (as defined in Section 2) were recorded within the Survey Area during the winter bird survey. The monthly peak counts for each target species within each zone are presented in **Table 3-1**. Key Species in the table are denoted in bold.
- 3.1.2. Peak counts across the site are provided visually for Key species (as described in Section 4 Key Species Summary below) and shown on **Figures 2 – 9 of Annex 5: Figures**, with details of the records in **Annex 4**. The East Gateway Zone comprises a narrow strip of land either side of Manor Road and a relatively small area of woodland and scrub in the east, both of which provide limited opportunities to support important numbers of wintering birds. Any bird records obtained for this area have therefore been included in the data for the adjacent Core or Lake Zones.

**Table 3-1: Monthly Peak Counts for Target Species**

Species	Zone	Oct	Nov	Dec	Jan	Feb	Mar
Barn Owl	Lake	1	0	0	0	1	0
Black-headed Gull	Core	43	10	82	6	73	1
	Lake	1	1	8	12	8	5
Bullfinch	Core	1	0	0	0	0	0
Buzzard	Core	1	0	3	1	1	0
	Lake	2	2	3	1	3	4
	West Gateway	1	1	0	1	1	1
<b>Cormorant</b>	<b>Core</b>	<b>16</b>	<b>9</b>	<b>14</b>	<b>8</b>	<b>26</b>	<b>27</b>
	<b>Lake</b>	<b>10</b>	<b>8</b>	<b>15</b>	<b>16</b>	<b>22</b>	<b>15</b>
Common Gull	Core	0	2	0	1	2	0
	Lake	0	0	0	1	0	0
<b>Coot</b>	<b>Core</b>	<b>9</b>	<b>12</b>	<b>16</b>	<b>25</b>	<b>38</b>	<b>38</b>
	<b>Lake</b>	<b>7</b>	<b>12</b>	<b>59</b>	<b>163</b>	<b>214</b>	<b>104</b>
Cetti's Warbler	Core	1	1	0	0	0	0
	Lake	7	1	3	4	5	5
Fieldfare	Core	0	10	2	1	0	0
	Lake	0	8	0	1	0	40
Gadwall	Core	0	2	0	0	0	0
	Lake	0	0	0	8	3	6
Golden Plover	Lake	0	0	1	0	0	0
<b>Great Crested Grebe</b>	<b>Core</b>	<b>11</b>	<b>7</b>	<b>5</b>	<b>4</b>	<b>30</b>	<b>18</b>
	<b>Lake</b>	<b>7</b>	<b>5</b>	<b>13</b>	<b>22</b>	<b>27</b>	<b>27</b>
Great White Egret	Core	0	0	1	0	0	0
	Lake	0	0	0	1	2	3

Species	Zone	Oct	Nov	Dec	Jan	Feb	Mar
Greylag Goose	Core	0	7	0	2	16	37
	Lake	0	3	11	39	0	50
	West Gateway	0	0	0	0	4	0
Grey Wagtail	Core	0	0	0	0	2	0
	Lake	1	0	1	0	0	2
Greenfinch	Core	0	3	0	1	0	0
	Lake	1	0	0	0	0	8
Grey Heron	Core	0	0	1	0	0	0
	Lake	0	1	5	2	2	3
	West Gateway	0	0	1	0	0	0
Grey Partridge	Core	0	0	6	0	2	0
Herring Gull	Core	0	1	0	0	0	0
House Sparrow	Core	0	0	0	2	0	0
Jack Snipe	Lake	1	0	0	0	0	0
Kestrel	Core	4	2	2	0	0	1
	Lake	1	1	3	1	2	1
	West Gateway	1	0	0	1	0	0
Kingfisher	Lake	0	0	0	2	1	1
	West Gateway	0	0	1	0	0	0
Red Kite	Core	1	2	2	4	4	0
	Lake	3	1	0	4	2	4
	West Gateway	2	2	1	0	0	0
<b>Lapwing</b>	<b>Core</b>	<b>0</b>	<b>15</b>	<b>80</b>	<b>2</b>	<b>3</b>	<b>0</b>
	<b>Lake</b>	<b>30</b>	<b>17</b>	<b>320</b>	<b>90</b>	<b>66</b>	<b>0</b>
Lesser Black-backed Gull	Core	0	0	2	0	0	0
Little Grebe	Lake	0	0	5	1	2	5
Linnet	Core	0	2	0	0	18	12
	Lake	4	2	0	3	2	36
	West Gateway	0	0	0	0	1	2
Lesser Redpoll	Lake	0	0	0	1	0	0
Mallard	Core	9	3	13	22	2	9
	Lake	8	41	22	13	14	8

Species	Zone	Oct	Nov	Dec	Jan	Feb	Mar
	West Gateway	0	4	0	0	2	2
Moorhen	Core	0	1	0	0	0	0
	Lake	0	1	1	0	1	1
Meadow Pipit	Core	1	0	0	0	0	1
	Lake	12	1	13	5	6	3
	West Gateway	4	0	0	0	0	0
Marsh Harrier	Lake	0	1	1	0	1	0
<b>Mute Swan</b>	<b>Core</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>26</b>	<b>2</b>
	<b>Lake</b>	<b>78</b>	<b>61</b>	<b>11</b>	<b>46</b>	<b>11</b>	<b>5</b>
Oystercatcher	Lake	0	0	0	0	1	0
<b>Pochard</b>	<b>Core</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>6</b>	<b>0</b>	<b>2</b>
	<b>Lake</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>54</b>	<b>120</b>	<b>115</b>
Raven	Lake	1	0	1	2	1	0
Reed Bunting	Core	1	0	0	0	0	0
	Lake	6	1	0	1	1	6
	West Gateway	1	0	0	0	0	0
Redwing	Core	0	8	4	7	3	1
	Lake	4	16	12	12	12	7
	West Gateway	0	16	1	0	0	12
Rook	Core	0	1	40	0	0	0
<b>Skylark</b>	<b>Core</b>	<b>11</b>	<b>11</b>	<b>49</b>	<b>16</b>	<b>53</b>	<b>11</b>
	<b>Lake</b>	<b>16</b>	<b>6</b>	<b>3</b>	<b>23</b>	<b>24</b>	<b>16</b>
	West Gateway	20	20	20	1	1	0
Stonechat	Lake	2	0	0	0	0	0
Stock Dove	Core	0	0	33	0	0	21
	Lake	1	3	13	1	5	4
	West Gateway	0	9	0	0	0	3
Starling	Core	14	0	0	51	0	16
	Lake	0	185	50	0	0	0
	West Gateway	0	60	0	0	0	0
Sparrowhawk	Core	1	0	0	0	0	1
	Lake	1	1	1	0	0	0

Species	Zone	Oct	Nov	Dec	Jan	Feb	Mar
Snipe	Lake	2	3	1	2	4	2
Song Thrush	Core	0	0	1	0	2	4
	Lake	5	5	4	8	11	10
	West Gateway	0	0	1	0	0	0
Shoveler	Lake	0	0	1	2	0	0
Teal	Lake	0	0	0	0	4	2
<b>Tufted Duck</b>	<b>Core</b>	<b>23</b>	<b>12</b>	<b>29</b>	<b>70</b>	<b>92</b>	<b>69</b>
	<b>Lake</b>	<b>0</b>	<b>41</b>	<b>181</b>	<b>176</b>	<b>191</b>	<b>142</b>
Water Rail	Lake	0	1	1	0	1	0
Woodcock	Lake	0	0	0	1	0	0
<b>Wigeon</b>	<b>Lake</b>	<b>20</b>	<b>17</b>	<b>60</b>	<b>70</b>	<b>0</b>	<b>0</b>
Wood Pigeon	Core	15	40	4	0	0	35
	Lake	150	270	400	400	160	0
	West Gateway	0	70	0	0	0	0
Yellowhammer	Core	2	2	3	0	0	2
	Lake	3	0	0	0	0	0
	West Gateway	1	18	0	0	0	1

## 4 KEY SPECIES SUMMARY

---

- 4.1.1. Key species are those that we have identified as occurring in numbers that are potentially important at county level. Peak counts for these species are provided visually on **Figures 2 to 9 of Annex 5: Figures**.
- 4.1.2. Results from the Winter Bird Survey indicate that the habitats within the Site support a diverse range of non-breeding bird species, including those associated with wetland, scrub and farmland. Many of the species recorded are resident in the area and were therefore also noted during the breeding bird survey conducted (as detailed in **Appendix 6.9: Breeding Bird Survey Report (Volume 3)**), such as Cetti's Warbler. The numbers of wintering farmland birds recorded were generally low, with few large flocks noted; but included Grey Partridge, Meadow Pipit, Linnet and Yellowhammer. However, relatively high numbers of Lapwing and Skylark were recorded using the fields within the Site, and therefore, the importance of the Site to these species is discussed further below.
- 4.1.3. Potentially important numbers of waterbirds were recorded on the lakes adjacent to the east of the Core Zone (within Coronation Pit) and particularly those within and to the east of the Lake Zone, including Mute Swan, Wigeon, Tufted Duck, Pochard, Great Crested Grebe, Cormorant and Coot. The conservation status and potential importance of the Site to each of these waterbird species is discussed further below, with the full count data for these species provided in **Annex 4**.

### COOT

- 4.1.4. The UK wintering population of Coot was estimated at 205,000 birds in 2012 to 2017<sup>6</sup>. Coot is described as a common breeder and very common winter visitor in Bedfordshire<sup>7</sup>, with a total of 681 birds recorded from 34 sites in the county in January 2020<sup>6</sup>. The peak mean Wetland Bird Survey (WeBS)<sup>8</sup> counts for all sites monitored in Bedfordshire ranged from 1,323-2,366 birds during winters 2018/19 to 2022/23<sup>9</sup>.
- 4.1.5. As summarised on **Figure 2: Peak Counts of Coot in each plot during winter 2024/25 of Annex 5: Figures**, Coot were recorded foraging on the majority of lakes within the Survey Area, with a peak count within a given month of 214 birds recorded in Lake Zone and adjacent plots within the Survey Area in February 2025. The highest counts on Kempston Hardwick Pits lake to the east of the Lake Zone (Plots 30, 33 and 38), was a total of 146 birds counted on 21 January 2025. Within the Lake Zone boundary, a peak count of 135 birds was recorded in Plot 38 on 7 January 2025. Coot were also recorded on Coronation Pit Lakes to the east of the Core Zone, with a peak count of

---

<sup>6</sup> Woodward, I., Aebischer, N., Burnell, D., Eaton, M., Frost, T., Hall, C., Stroud, D.A. and Noble, D. (2020) 'APEP 4 - Population estimates of birds in Great Britain and the United Kingdom', *British Birds*, 113. Available at: <https://www.bto.org/sites/default/files/publications/a pep4-population-estimates-birds-great-britain-uk-2020.pdf> [Accessed: 06 May 2025].

<sup>7</sup> Brind, R. (2022) *Bedfordshire Bird Report 2020, Volume 75*. England: Bedfordshire Natural History Society.

<sup>8</sup> The Wetland Bird Survey (WeBS) core counts (organised by the British Trust for Ornithology) is a long-running scheme that involves the counting of all waterbird species at 1,000s of sites across the UK each month, by professional and volunteer surveyors.

<sup>9</sup> Woodward, I.D., Calbrade, N.A., Birtles, A., Feather, G.A., Peck, K., Wotton, S.R., Shaw, J.M., Balmer, D.E. and Frost, T.M. (2024) *Waterbirds in the UK 2022/23: The Wetland Bird Survey and Goose and Swan Monitoring Programme*. Thetford: British Trust for Ornithology, Royal Society for the Protection of Birds, Joint Nature Conservation Committee and NatureScot.

20 birds in Plot 89 on 21 January 2025. The peak count of 188 birds recorded within the entire Survey Area on 21 January 2025, represents 7.9-14.2% of the WeBS total for Bedfordshire.

## CORMORANT

- 4.1.6. The UK wintering population of Cormorant was estimated at 64,500 birds in 2012 to 2017<sup>5</sup>. The species is described as a common winter visitor, passage migrant and breeder in Bedfordshire<sup>6</sup>, with a total of 152 birds recorded from 29 sites in the county in January 2020<sup>6</sup>. The peak mean WeBS counts for cormorant for all sites monitored in Bedfordshire ranged from 419-650 birds during winters 2018/19 to 2022/23<sup>7</sup>.
- 4.1.7. As indicated on **Figure 3: Peak Counts of Cormorant in each plot during winter 2024/25** of **Annex 5: Figures**, cormorant were primarily recorded as would be expected on the lakes within the Site in the Lake Zone and on Kempston Hardwick Pits and Coronation Pits lake within the Survey Area. Between 1 and 11 birds were recorded feeding on the lakes in the Lake Zone and Kempston Hardwick Pits lake. The peak count within the Survey Area to the east of the Lake Zone involved a total of 11 birds resting in trees surrounding the Kempston Hardwick Pits lake in Plot 38 on 21 January 2025, and in the land to the east of the Core Zone, 15 birds resting around the Coronation Pits lake in Plot 89 on 17 October 2024. The peak count of 31 birds recorded within the entire Survey Area on 4 February 2025, represents 4.8-7.4% of the WeBS total for Bedfordshire.

## GREAT CRESTED GREBE

- 4.1.8. The UK wintering population of Great Crested Grebe was estimated at 18,000 birds in 2012 to 2017<sup>5</sup>. The species is described as a relatively common breeder and more numerous winter visitor in Bedfordshire<sup>6</sup>. The peak mean WeBS counts for all sites monitored in Bedfordshire ranged from 253-414 birds during winters 2018/19 to 2022/23<sup>7</sup>.
- 4.1.9. As shown on **Figure 4: Peak Counts of Great Crested Grebe in each plot during winter 2024/25** of **Annex 5: Figures**, the highest counts of Great Crested Grebe (involving foraging and resting birds) were on the Kempston Hardwick Pits lakes adjacent to the east of the Lake Zone (Plots 30, 33 and 38) where a total of 20 birds were recorded on 21 January 2025. Peak counts of 7 birds were recorded on the lakes in Plots 59, 84 and 89 outside of the Site boundary to the east of the Core Zone. The peak count of 26 birds recorded within the entire Survey Area on 21 January 2025 represents 6.3-10.3% of the WeBS total for Bedfordshire.

## LAPWING

- 4.1.10. Lapwing is a Species of Principal Importance (listed on s41 of NERC<sup>4</sup>) and is BoCC Red listed, due to a severe decline in the UK breeding population (>50% over the past 25 years<sup>4</sup>). The UK wintering population of Lapwing was estimated at 635,000 birds in 2012 to 2017<sup>5</sup>. The species is described as a common winter visitor and passage migrant in Bedfordshire, with a highest count in 2020, involving 1,100 birds at Grovebury SP (20km south of the Site) on 11 December<sup>6</sup>. The peak mean WeBS counts for all sites monitored in Bedfordshire, ranged from 1,665-3,002 birds during winters 2018/19 to 2022/23<sup>7</sup>, though this is likely to represent only part of the total population as this species primarily occurs on farmland, most of which is not counted as part of the WeBS.
- 4.1.11. As shown on **Figure 5: Peak Counts of Lapwing in each plot during winter 2024/25** of **Annex 5: Figures**, a flock of Lapwing was seen feeding within the uncultivated field to the northern end of the Lake Zone (Plots 4-5) with approximately 200 birds recorded on 5 December 2024, 300 birds on 16 December 2024, declining to 90 birds on 7 January 2025 and none recorded in March. Within the

Core Zone, the only record of Lapwing feeding/resting in the fields was of three birds in Plot 95 on 4 February 2025, with all other records relating to flocks of birds commuting (flying over) the area. The peak count of 300 birds recorded during the winter bird survey, represents 10.0-18.0% of the WeBS total for Bedfordshire.

## MUTE SWAN

- 4.1.12. The UK wintering population of Mute Swan was estimated at 52,500 birds in 2004 to 2009<sup>5</sup>. The species is described as a common resident in Bedfordshire<sup>6</sup>. The peak mean WeBS counts for all sites monitored in Bedfordshire ranged from 523-711 birds during winters 2018/19 to 2022/23<sup>7</sup>.
- 4.1.13. For much of the winter, the local shooting club were providing wildfowl with supplementary feed (grain) on the fringes of the Kempston Hardwick Pits lake, adjacent to the east of the Lake Zone in Plot 30. As denoted from the results presented on **Figure 6: Peak Counts of Mute Swan in each plot during winter 2024/25** of **Annex 5: Figures**, this attracted a flock of Mute Swan onto this lake, with a peak count of 77 birds there on 17 October 2024. Elsewhere within the Survey Area, 1-5 birds were recorded on the lakes within and adjacent to the Lake and Core Zones. The peak count of 80 birds recorded within the entire Survey Area on 17 October 2024, represents 11.3-15.3% of the WeBS total for Bedfordshire.

## POCHARD

- 4.1.14. Pochard is BoCC Red listed, primarily due to a severe decline in the UK wintering population (>50% over the past 25 years<sup>4</sup>. The UK wintering population of Pochard was estimated at 29,000 birds in 2012 to 2017<sup>5</sup>. Pochard is described as a numerous winter visitor, with a peak count of 550 birds recorded at Brogborough Lake (5.5km south of the Site) in January 2020<sup>6</sup>. The peak mean WeBS counts for all sites monitored in Bedfordshire ranged from 438-731 birds during winters 2018/19 to 2022/23<sup>7</sup>.
- 4.1.15. As shown on **Figure 7: Peak Counts of Pochard in each plot during winter 2024/25** of **Annex 5: Figures**, the highest counts of Pochard (involving foraging and resting birds) were on the lake within the Lake Zone (Plot 24) where a peak count of 51 birds was recorded on 21 January 2025, with a further three birds on the Kempston Hardwick Pits lake adjacent to the east of the zone (Plot 38) on the same date. Up to six pochard were recorded on the lakes adjacent to the east of the Core Zone in December 2024 and January 2025. The peak count of 54 birds recorded within the entire Survey Area on 21 January 2025, represents 7.4-12.3% of the WeBS total for Bedfordshire.

## TUFTED DUCK

- 4.1.16. The UK wintering population of Tufted Duck was estimated at 140,000 birds in 2012 to 2017<sup>5</sup>. Tufted Duck is described as a numerous winter visitor and regular breeder in Bedfordshire<sup>6</sup>, with a peak count of 840 birds recorded at Brogborough Lake (approximately 5.5km south of the Site) in January 2020<sup>6</sup>. The peak mean WeBS counts for all sites monitored in Bedfordshire ranged from 1,628-2,269 birds during winters 2018/19 to 2022/23<sup>7</sup>.
- 4.1.17. As shown on **Figure 8: Peak Counts of Tufted Duck in each plot during winter 2024/25** of **Annex 5: Figures**, Tufted Duck were recorded on the majority of the lakes within the Survey Area, where they were observed foraging and resting. The highest counts of Tufted Duck were on the Kempston Hardwick Pits lake to the east of the Lake Zone (Plots 30, 33 and 38), where a total of 181 birds were counted on 16 December 2024. Within the Site boundary in the Lake Zone, a peak count of 66 birds (32 on Plot 24 and 44 on Plot 29) was recorded on 21 January 2025. Tufted Duck



were also recorded Coronation Pits lake adjacent to the east of the Core Zone, with a peak count of 52 birds in Plot 89 on 4 February 2025. The peak count of 246 birds recorded within the entire Survey Area on an individual survey (21 January 2025), represents 10.8-15.1% of the WeBS total for Bedfordshire.

## WIGEON

- 4.1.18. Wigeon is BoCC Amber listed, partly due to the international importance of the wintering population in the UK as well as its local occurrence; much of the population occurs at relatively few sites<sup>4</sup>. The UK wintering population of wigeon was estimated at 450,000 birds in 2004 to 2009<sup>5</sup>. The species is described as a numerous winter visitor in Bedfordshire, with a total of 555 birds counted on eight sites in the county in January 2025<sup>6</sup>. The peak mean WeBS counts for all sites monitored in Bedfordshire ranged from 995-1,214 birds during winters 2018/19 to 2022/23<sup>7</sup>.
- 4.1.19. For much of the winter, wildfowl were being given supplementary feed (grain) from the fringes of the Kempston Hardwick Pits lake (Plots 30 and 38), adjacent to the east of the Lake Zone. As denoted from the results presented on **Figure 9: Peak Counts of Wigeon in each plot during winter 2024/25 of Annex 5: Figures**, this attracted a flock of Wigeon onto this lake, with a peak count of 70 birds in Plot 30 on 21 January 2025. Wigeon were not recorded from any other location within the Survey Area. The peak count of 70 birds recorded within the Survey Area, represents 5.8-7.0% of the WeBS total for Bedfordshire.

## SKYLARK

- 4.1.20. A peak count map is not included for Skylark; as set out below the results of the surveys do not conclude that the numbers of birds recorded would achieve those of county importance, however it is included in this discussion as a key species to outline the justification.
- 4.1.21. Skylark is a Species of Principal Importance (listed on s41 of NERC<sup>4</sup>) and is BoCC Red listed, due to a severe decline in the UK breeding population (>50% over the past 25 years<sup>4</sup>). The species is described as a widespread resident, common winter visitor and passage migrant in Bedfordshire<sup>6</sup>.
- 4.1.22. The highest counts of Skylark recorded in each zone during the survey included: a flock of 45 birds feeding in winter cereal in Plot 63 in the Core Zone (4 February 2025); 20 birds feeding in cereal stubble in Plot 72 in the West Gateway Zone (16 December 2024); and 20 birds on fallow land in Plot 5 in the Lake Zone (7 January 2025).
- 4.1.23. There are no estimates for the size of the wintering population of Skylark in Bedfordshire, though 25,000-40,000 birds were estimated for the adjacent county of Cambridgeshire during 2007 to 2011<sup>10</sup>. It is acknowledged that the population in Bedfordshire is likely to be lower than this (due to ongoing declines in numbers and the smaller area covered by Bedfordshire). However, the peak count of 64 birds recorded across the Survey Area on 4 February 2025 is unlikely to represent more than 1% of the county population.

---

<sup>10</sup> Bacon, L., Cooper, A. & Venables, H. (2013). Cambridgeshire Bird Atlas 2007-2011. Cambridgeshire Bird Club.



## 5 CONCLUSION

---

- 5.1.1. Results from the winter bird surveys undertaken from between period October 2024 to March 2025 indicate that the wetland, scrub and farmland habitats within the Site provide a valuable resource (for foraging and resting) to the local populations of non-breeding birds. The waterbodies within the Lake Zone and those outside the Site but within the Survey Area, including Kempston Hardwick Pits lake and Coronation Pit lake east of the Core Zone, support potentially important numbers of waterbirds in a Bedfordshire context. These include Mute Swan, Wigeon, Tufted Duck, Pochard, Coot, Great Crested Grebe and Cormorant. The large field in the northern half of the Lake Zone (left uncultivated during winter 2024/25) also supported potentially important numbers, again in a Bedfordshire context, of wintering Lapwing.
- 5.1.2. The surveys however, provided no evidence to indicate that potentially important numbers of farmland bird species (including Skylark) utilise the habitats with the Site.

# ANNEX 1

## SPECIES NAMES



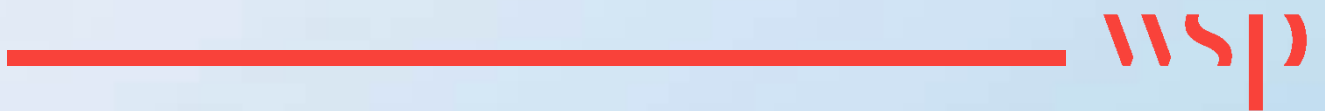
**Table 1 – Species Names**

Species Name (English Vernacular)	Species Name (Scientific)
Barn Owl	<i>Tyto alba</i>
Black-headed Gull	<i>Chroicocephalus ridibundus</i>
Bullfinch	<i>Pyrrhula pyrrhula</i>
Buzzard	<i>Buteo buteo</i>
Canada Goose	<i>Branta canadensis</i>
Cetti's Warbler	<i>Cettia cetti</i>
Common Gull	<i>Larus canus</i>
Coot	<i>Fulica atra</i>
Cormorant	<i>Phalacrocorax carbo</i>
Dunnoek	<i>Prunella modularis</i>
Egyptian Goose	<i>Alopochen aegyptiaca</i>
Fieldfare	<i>Turdus pilaris</i>
Gadwall	<i>Anas strepera</i>
Golden Plover	<i>Pluvialis apricaria</i>
Great Crested Grebe	<i>Podiceps cristatus</i>
Great White Egret	<i>Ardea alba</i>
Greenfinch	<i>Chloris chloris</i>
Grey Heron	<i>Ardea cinerea</i>
Grey Partridge	<i>Perdix perdix</i>
Grey Wagtail	<i>Motacilla cinerea</i>
Greylag Goose	<i>Anser anser</i>
Herring Gull	<i>Larus argentatus</i>
House Sparrow	<i>Passer domesticus</i>
Jack Snipe	<i>Lymnocyptes minimus</i>
Kestrel	<i>Falco tinnunculus</i>
Kingfisher	<i>Alcedo atthis</i>
Lapwing	<i>Vanellus vanellus</i>
Lesser Black-backed Gull	<i>Larus fuscus</i>
Linnet	<i>Linaria cannabina</i>
Little Grebe	<i>Tachybaptus ruficollis</i>
Mallard	<i>Anas platyrhynchos</i>
Marsh Harrier	<i>Circus aeruginosus</i>
Meadow Pipit	<i>Anthus pratensis</i>
Moorhen	<i>Gallinula chloropus</i>
Mute Swan	<i>Cygnus olor</i>

Species Name (English Vernacular)	Species Name (Scientific)
Oystercatcher	<i>Haematopus ostralegus</i>
Pochard	<i>Aythya ferina</i>
Raven	<i>Corvus corax</i>
Redpoll	<i>Acanthis cabaret</i>
Red Kite	<i>Milvus milvus</i>
Redwing	<i>Turdus iliacus</i>
Reed Bunting	<i>Emberiza schoeniclus</i>
Rook	<i>Corvus frugilegus</i>
Shoveler	<i>Spatula clypeata</i>
Skylark	<i>Alauda arvensis</i>
Snipe	<i>Gallinago gallinago</i>
Song Thrush	<i>Turdus philomelos</i>
Sparrowhawk	<i>Accipiter nisus</i>
Starling	<i>Sturnus vulgaris</i>
Stock Dove	<i>Columba oenas</i>
Teal	<i>Anas crecca</i>
Tufted Duck	<i>Aythya fuligula</i>
Water Rail	<i>Rallus aquaticus</i>
Wigeon	<i>Anas penelope</i>
Woodpigeon	<i>Columba palumbus</i>
Woodcock	<i>Scolopax rusticola</i>
Wren	<i>Troglodytes troglodytes</i>
Yellowhammer	<i>Emberiza citrinella</i>

# ANNEX 2

## **RELEVANT LEGISLATION AND POLICY**



## CONSERVATION OF HABITATS AND SPECIES REGULATIONS 2017 (HABITAT REGULATIONS)

The *Habitat Regulations Part 1*<sup>11</sup> Regulation 10 (2) and (3) state that local authorities “*must take such steps in the exercise of their functions as they consider appropriate to contribute to...the preservation, maintenance and re-establishment of a sufficient diversity and area of habitat for wild birds in the UK including by means of the upkeep, management and creation of such habitat...*”. The legislation continues to state that economic and recreation requirements must be taken into consideration in considering which measures are appropriate.

## WILDLIFE AND COUNTRYSIDE ACT 1981 (AS AMENDED)

Under the *Wildlife and Countryside Act 1981* (as amended)<sup>3</sup> all wild birds are protected from killing and injury, and their nests and eggs protected from taking, damage and destruction whilst in use.

Additional protection is extended to species listed under Schedule 1 of the Act<sup>3</sup>, meaning it is also an offence to disturb these species at or near the nest, or whilst they have dependent young during breeding the season.

## NATURAL ENVIRONMENT AND RURAL COMMUNITIES ACT 2006

The *NERC Act 2006*<sup>4</sup> reinforces the duty upon all public authorities, including planning authorities, to have regard for the conservation of biodiversity when discharging their duties. The Act refines the definition of biodiversity conservation, stating that it includes restoring or enhancing a population or habitat. Section 41 of the Act requires the Secretary of State to list Habitats and Species of Principal Importance (HPIs and SPIs) for the conservation of biodiversity in England. The habitats and species listed in accordance with Section 41 largely replicate those listed on the *UK Biodiversity Action Plan (BAP)*<sup>12</sup> which occur in England (however there are exceptions).

---

<sup>11</sup> HM Government (2017) *The Conservation of Habitats and Species Regulations 2017*. Available at: <https://www.legislation.gov.uk/ukxi/2017/1012/contents> [Accessed: 06 April 2025].

<sup>12</sup> The UK Biodiversity Action Plan (UK BAP): 1992–2012, Available at <https://jncc.gov.uk/our-work/uk-bap/> [Accessed 06 April 2025].

## BIRDS OF CONSERVATION CONCERN 5

The UK's leading bird conservation organisations reviewed the most up to date information on the status of birds in the UK and elsewhere in their range to produce the third review of the status of birds which occur regularly in the UK. This is presented as *The status of our bird populations: the fifth Birds of Conservation Concern (BoCC) in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain*<sup>4</sup>. The review comprised a 'red list' of species of high conservation concern, an 'amber' list of species of moderate conservation concern, with other species that do not qualify under red or amber list criteria on the green list.

To qualify on the red list species may be listed as globally threatened by IUCN, have suffered a historical decline without substantial recent recovery, or a decline of more than 50% in breeding or non-breeding populations, or a 50% contraction in breeding range over 25 years (or the longer term). Amber list species can be those listed as Species of European Conservation Concern, those which have suffered a historical decline but shown significant recent recovery, have shown a decline of between 25 and 50% in breeding or non-breeding populations, or a contraction in breeding range of between 25 and 50% over 25 years (or the longer term) or be rare or localised breeders in the UK, or be species for which 20% of the breeding or non-breeding population is found in the UK.

Red or amber listing does not confer additional protection under legislation or planning policy, however it provides a basis for informing evaluation of a site and for targeting conservation effort and is a widely used resource for interpreting bird populations.

# ANNEX 3

## SURVEY VISIT DETAILS





**Table 2 - Winter Bird Survey, Visit Details**

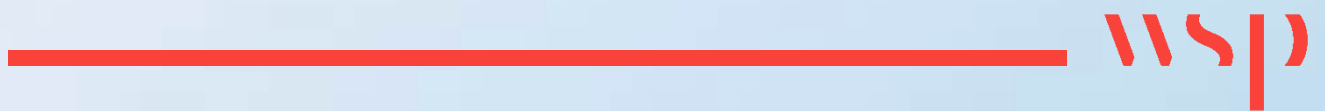
Visit No.	Date	Times	Cloud cover (of 8)	Wind direction	Wind strength (Beaufort Scale)	Precipitation	Visibility	Temperature range (Celsius)
1	08 October 2024	08:30-15:00	6	Variable	1	Occasional drizzle	Very good (3km+)	14-16
2	17 October 2024	8:30-15:30	3		0	None	Very good (3km+)	15-18
3	01 November 2024	08:10-15:30	8	Variable	1	None	Very good (3km+)	10-12
4	12 November 2024	08:30-15:30	7	NW	3	None	Very good (3km+)	10-12
5	05 December 2025	08:30-11:30	8	SW	1	None	Very good (3km+)	12
6	16 December 2024	09:00-11:15	7	W	3	None	Very good (3km+)	10
7	07 January 2025	09:00-11:00	1	SW	2	None	Very good (3km+)	1-3
8	21 January 2025	08:30-13:00	7		0	None	Fair (1km)	2-6
9	04 February 2025	08:30-10:15	7	SW	3	None	Very good (3km+)	8
10	28 February 2025	08:30-12:30	8		0	None	Fair (1km)	2-6



Visit No.	Date	Times	Cloud cover (of 8)	Wind direction	Wind strength (Beaufort Scale)	Precipitation	Visibility	Temperature range (Celsius)
11	05 March 2025	08:30-13:00	4	SW	2	None	Very good (3km+)	5-8
12	18 March 2025	08:30-13:30	0	NE	2-3	None	Very good (3km+)	6-8

# ANNEX 4

## SURVEY RESULTS



The individual records for widespread target species such as dunnock and wren have not been provided as well as relatively small flocks of less than 20 wood pigeon.

**Table 3 -Records of Target Species**

Species name	Date	Zone	Plot No.	Count	Activity
Species name	Date	Zone	Plot No.	Count	Activity
Black-headed gull	08 October 2024	Core	89	6	Loafing
Black-headed gull	17 October 2024	Core	89	8	Feeding/foraging/hunting
Black-headed gull	17 October 2024	Core	95	35	Feeding/foraging/hunting
Black-headed gull	17 October 2024	Lake	24	1	
Black-headed gull	01 November 2024	Core	89	10	Loafing
Black-headed gull	12 November 2024	Lake	30	1	
Black-headed gull	05 December 2024	Core	53	38	Loafing
Black-headed gull	05 December 2024	Core	89	2	Loafing
Black-headed gull	16 December 2024	Core	53	52	Loafing
Black-headed gull	16 December 2024	Core	64	30	Feeding/foraging/hunting
Black-headed gull	16 December 2024	Lake	15	8	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Black-headed gull	07 January 2025	Core	95	6	Feeding/foraging/hunting
Black-headed gull	07 January 2025	Lake	15	12	Loafing
Black-headed gull	21 January 2025	Lake	15	2	
Black-headed gull	21 January 2025	Lake	24	5	Loafing
Black-headed gull	04 February 2025	Core	53	28	Feeding/foraging/hunting
Black-headed gull	04 February 2025	Core	95	36	Feeding/foraging/hunting
Black-headed gull	04 February 2025	Lake	15	8	Feeding/foraging/hunting
Bullfinch	08 October 2024	Core	57	1	Heard calling
Buzzard	08 October 2024	Core	58	1	Soaring
Buzzard	17 October 2024	Core	50	1	Flushed
Buzzard	17 October 2024	Lake	18	1	
Buzzard	17 October 2024	Lake	28	1	
Buzzard	17 October 2024	West Gate	69	1	

Species name	Date	Zone	Plot No.	Count	Activity
Buzzard	01 November 2024	Lake	9	1	Feeding/foraging/hunting
Buzzard	01 November 2024	Lake	18	1	Feeding/foraging/hunting
Buzzard	12 November 2024	Lake	9	1	Flushed
Buzzard	12 November 2024	Lake	10	1	
Buzzard	12 November 2024	West Gate	70	1	Soaring
Buzzard	05 December 2024	Core	50	1	
Buzzard	05 December 2024	Core	70	1	Feeding/foraging/hunting
Buzzard	05 December 2024	Core	97	1	Feeding/foraging/hunting
Buzzard	05 December 2024	Lake	21	1	
Buzzard	05 December 2024	Lake	26	2	
Buzzard	16 December 2024	Core	66	1	Feeding/foraging/hunting
Buzzard	16 December 2024	Lake	4	2	Feeding/foraging/hunting
Buzzard	07 January 2025	Core	82	1	

Species name	Date	Zone	Plot No.	Count	Activity
Buzzard	07 January 2025	Lake	4	1	Circling
Buzzard	21 January 2025	Lake	10	1	Flushed
Buzzard	21 January 2025	West Gate	76	1	Feeding/foraging/hunting
Buzzard	04 February 2025	Lake	9	1	Flushed
Buzzard	04 February 2025	West Gate	74	1	Feeding/foraging/hunting
Cetti's Warbler	08 October 2024	Core	59	1	Singing
Cetti's Warbler	17 October 2024	Core	59	1	Singing
Cetti's Warbler	17 October 2024	Lake	23	3	Singing
Cetti's Warbler	17 October 2024	Lake	33	1	Singing
Cetti's Warbler	17 October 2024	Lake	34	2	Singing
Cetti's Warbler	17 October 2024	Lake	44	1	Singing
Cetti's Warbler	01 November 2024	Core	59	1	Singing
Cetti's Warbler	01 November 2024	Lake	23	1	Singing

Species name	Date	Zone	Plot No.	Count	Activity
Cetti's Warbler	05 December 2024	Lake	1	1	Heard calling
Cetti's Warbler	05 December 2024	Lake	29	1	Flushed
Cetti's Warbler	05 December 2024	Lake	34	1	Heard calling
Cetti's Warbler	16 December 2024	Lake	23	1	Singing
Cetti's Warbler	21 January 2025	Lake	15	1	
Cetti's Warbler	21 January 2025	Lake	26	1	Singing
Cetti's Warbler	21 January 2025	Lake	33	1	Heard calling
Cetti's Warbler	21 January 2025	Lake	38	1	Heard calling
Common Gull	01 November 2024	Core	89	2	Loafing
Common Gull	07 January 2025	Core	63	1	Loafing
Common Gull	21 January 2025	Lake	38	1	Loafing
Common Gull	04 February 2025	Core	95	2	Feeding/foraging/hunting
Coot	08 October 2024	Core	89	7	Loafing



Species name	Date	Zone	Plot No.	Count	Activity
Coot	17 October 2024	Core	59	1	Feeding/foraging/hunting
Coot	17 October 2024	Core	89	8	Feeding/foraging/hunting
Coot	17 October 2024	Lake	30	6	Feeding/foraging/hunting
Coot	17 October 2024	Lake	38	1	Feeding/foraging/hunting
Coot	01 November 2024	Core	59	2	Feeding/foraging/hunting
Coot	01 November 2024	Core	89	9	Feeding/foraging/hunting
Coot	01 November 2024	Lake	29	1	Loafing
Coot	01 November 2024	Lake	30	11	Loafing
Coot	12 November 2024	Core	59	1	Feeding/foraging/hunting
Coot	12 November 2024	Core	85	11	Feeding/foraging/hunting
Coot	12 November 2024	Lake	29	1	Feeding/foraging/hunting
Coot	12 November 2024	Lake	30	6	Feeding/foraging/hunting
Coot	12 November 2024	Lake	38	3	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Coot	05 December 2024	Core	59	2	Loafing
Coot	05 December 2024	Core	89	8	Feeding/foraging/hunting
Coot	05 December 2024	Lake	15	5	Feeding/foraging/hunting
Coot	05 December 2024	Lake	29	2	Feeding/foraging/hunting
Coot	05 December 2024	Lake	34	52	Feeding/foraging/hunting
Coot	16 December 2024	Core	59	1	Loafing
Coot	16 December 2024	Core	84	3	
Coot	16 December 2024	Core	89	12	Feeding/foraging/hunting
Coot	16 December 2024	Lake	15	1	Loafing
Coot	16 December 2024	Lake	24	4	Loafing
Coot	16 December 2024	Lake	30	13	Feeding/foraging/hunting
Coot	16 December 2024	Lake	33	1	
Coot	16 December 2024	Lake	35	20	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Coot	16 December 2024	Lake	38	13	Feeding/foraging/hunting
Coot	07 January 2025	Core	89	14	Feeding/foraging/hunting
Coot	07 January 2025	Lake	24	14	Feeding/foraging/hunting
Coot	07 January 2025	Lake	33	4	Feeding/foraging/hunting
Coot	07 January 2025	Lake	38	135	Feeding/foraging/hunting
Coot	21 January 2025	Core	59	5	Feeding/foraging/hunting
Coot	21 January 2025	Core	89	20	Feeding/foraging/hunting
Coot	21 January 2025	Lake	15	2	
Coot	21 January 2025	Lake	24	15	Feeding/foraging/hunting
Coot	21 January 2025	Lake	30	6	Feeding/foraging/hunting
Coot	21 January 2025	Lake	33	10	Feeding/foraging/hunting
Coot	21 January 2025	Lake	38	130	Feeding/foraging/hunting
Coot	04 February 2025	Core	59	1	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Coot	04 February 2025	Core	89	15	Feeding/foraging/hunting
Coot	04 February 2025	Lake	1	5	Loafing
Coot	04 February 2025	Lake	15	2	Loafing
Coot	04 February 2025	Lake	24	26	Feeding/foraging/hunting
Coot	04 February 2025	Lake	30	6	Loafing
Coot	04 February 2025	Lake	33	6	Feeding/foraging/hunting
Coot	04 February 2025	Lake	38	92	Feeding/foraging/hunting
Cormorant	08 October 2024	Core	89	8	Loafing
Cormorant	17 October 2024	Core	59	1	Feeding/foraging/hunting
Cormorant	17 October 2024	Core	89	15	Loafing
Cormorant	17 October 2024	Lake	5	6	Commuting
Cormorant	17 October 2024	Lake	6	1	Feeding/foraging/hunting
Cormorant	17 October 2024	Lake	29	3	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Cormorant	01 November 2024	Core	59	1	Feeding/foraging/hunting
Cormorant	01 November 2024	Core	89	5	Loafing
Cormorant	01 November 2024	Lake	29	3	
Cormorant	12 November 2024	Core	85	9	Loafing
Cormorant	12 November 2024	Lake	14	1	Commuting
Cormorant	12 November 2024	Lake	22	2	Loafing
Cormorant	12 November 2024	Lake	24	1	Feeding/foraging/hunting
Cormorant	12 November 2024	Lake	29	1	Feeding/foraging/hunting
Cormorant	12 November 2024	Lake	34	2	Loafing
Cormorant	12 November 2024	Lake	35	1	Feeding/foraging/hunting
Cormorant	05 December 2024	Core	89	14	Loafing
Cormorant	05 December 2024	Lake	1	1	Flushed
Cormorant	05 December 2024	Lake	11	9	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Cormorant	05 December 2024	Lake	24	1	Feeding/foraging/hunting
Cormorant	05 December 2024	Lake	29	3	Loafing
Cormorant	05 December 2024	Lake	33	1	Feeding/foraging/hunting
Cormorant	16 December 2024	Core	59	2	Loafing
Cormorant	16 December 2024	Core	89	9	Loafing
Cormorant	16 December 2024	Lake	11	4	Loafing
Cormorant	16 December 2024	Lake	29	1	Feeding/foraging/hunting
Cormorant	16 December 2024	Lake	38	5	Feeding/foraging/hunting
Cormorant	07 January 2025	Core	89	6	Flushed
Cormorant	07 January 2025	Lake	1	1	Feeding/foraging/hunting
Cormorant	07 January 2025	Lake	11	3	Loafing
Cormorant	07 January 2025	Lake	24	2	Feeding/foraging/hunting
Cormorant	07 January 2025	Lake	29	1	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Cormorant	07 January 2025	Lake	38	1	Feeding/foraging/hunting
Cormorant	21 January 2025	Core	59	1	Feeding/foraging/hunting
Cormorant	21 January 2025	Core	89	7	Loafing
Cormorant	21 January 2025	Lake	4	1	Commuting
Cormorant	21 January 2025	Lake	24	1	Feeding/foraging/hunting
Cormorant	21 January 2025	Lake	29	1	Feeding/foraging/hunting
Cormorant	21 January 2025	Lake	30	1	
Cormorant	21 January 2025	Lake	33	1	Feeding/foraging/hunting
Cormorant	21 January 2025	Lake	38	11	Loafing
Cormorant	04 February 2025	Core	52	1	Commuting
Cormorant	04 February 2025	Core	59	2	Feeding/foraging/hunting
Cormorant	04 February 2025	Core	89	13	Loafing
Cormorant	04 February 2025	Lake	4	1	Commuting

Species name	Date	Zone	Plot No.	Count	Activity
Cormorant	04 February 2025	Lake	24	1	Flushed
Cormorant	04 February 2025	Lake	29	9	Loafing
Cormorant	04 February 2025	Lake	38	4	Feeding/foraging/hunting
Fieldfare	01 November 2024	Core	94	10	Feeding/foraging/hunting
Fieldfare	12 November 2024	Core	52	2	
Fieldfare	12 November 2024	Lake	23	8	Commuting
Fieldfare	05 December 2024	Core	58	1	Loafing
Fieldfare	16 December 2024	Core	51	1	
Fieldfare	16 December 2024	Core	60	1	Feeding/foraging/hunting
Fieldfare	21 January 2025	Core	63	1	Feeding/foraging/hunting
Fieldfare	21 January 2025	Lake	39	1	Heard calling
Gadwall	01 November 2024	Core	89	2	Feeding/foraging/hunting
Gadwall	21 January 2025	Lake	30	4	Feeding/foraging/hunting



Species name	Date	Zone	Plot No.	Count	Activity
Gadwall	21 January 2025	Lake	38	4	Loafing
Golden plover	16 December 2024	Lake	33	1	Commuting
Great Crested Grebe	08 October 2024	Core	84	7	Loafing
Great Crested Grebe	08 October 2024	Core	89	4	Loafing
Great Crested Grebe	17 October 2024	Core	89	7	Feeding/foraging/hunting
Great Crested Grebe	17 October 2024	Lake	24	2	Feeding/foraging/hunting
Great Crested Grebe	17 October 2024	Lake	30	2	Feeding/foraging/hunting
Great Crested Grebe	17 October 2024	Lake	33	1	
Great Crested Grebe	17 October 2024	Lake	38	2	Feeding/foraging/hunting
Great Crested Grebe	01 November 2024	Core	89	7	Feeding/foraging/hunting
Great Crested Grebe	01 November 2024	Lake	30	3	Loafing
Great Crested Grebe	01 November 2024	Lake	38	2	Loafing
Great Crested Grebe	12 November 2024	Core	85	6	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Great Crested Grebe	12 November 2024	Lake	30	1	Feeding/foraging/hunting
Great Crested Grebe	12 November 2024	Lake	38	1	Feeding/foraging/hunting
Great Crested Grebe	05 December 2024	Core	89	4	Loafing
Great Crested Grebe	05 December 2024	Lake	28	2	Loafing
Great Crested Grebe	05 December 2024	Lake	34	8	Loafing
Great Crested Grebe	16 December 2024	Core	89	5	Feeding/foraging/hunting
Great Crested Grebe	16 December 2024	Lake	24	1	Loafing
Great Crested Grebe	16 December 2024	Lake	30	7	Loafing
Great Crested Grebe	16 December 2024	Lake	38	5	Feeding/foraging/hunting
Great Crested Grebe	07 January 2025	Lake	30	11	Feeding/foraging/hunting
Great Crested Grebe	07 January 2025	Lake	38	6	Feeding/foraging/hunting
Great Crested Grebe	21 January 2025	Core	89	4	Feeding/foraging/hunting
Great Crested Grebe	21 January 2025	Lake	24	1	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Great Crested Grebe	21 January 2025	Lake	30	2	Loafing
Great Crested Grebe	21 January 2025	Lake	33	7	Loafing
Great Crested Grebe	21 January 2025	Lake	35	1	Loafing
Great Crested Grebe	21 January 2025	Lake	38	11	Loafing
Great Crested Grebe	04 February 2025	Core	59	7	Feeding/foraging/hunting
Great Crested Grebe	04 February 2025	Core	84	4	Displaying
Great Crested Grebe	04 February 2025	Core	89	2	Feeding/foraging/hunting
Great Crested Grebe	04 February 2025	Lake	24	2	Feeding/foraging/hunting
Great Crested Grebe	04 February 2025	Lake	33	4	Loafing
Great Crested Grebe	04 February 2025	Lake	38	7	Loafing
Great White Egret	05 December 2024	Core	52	1	Commuting
Great White Egret	07 January 2025	Lake	29	1	Flushed
Great White Egret	21 January 2025	Lake	29	1	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Great White Egret	04 February 2025	Lake	11	1	Flushed
Greenfinch	17 October 2024	Lake	41	1	Commuting
Greenfinch	01 November 2024	Core	94	3	Feeding/foraging/hunting
Greenfinch	07 January 2025	Core	59	1	
Grey Heron	01 November 2024	Lake	29	1	
Grey Heron	12 November 2024	Lake	29	1	Loafing
Grey Heron	05 December 2024	Core	68	1	Flushed
Grey Heron	05 December 2024	Lake	9	1	Feeding/foraging/hunting
Grey Heron	05 December 2024	Lake	24	1	
Grey Heron	05 December 2024	Lake	29	2	Flushed
Grey Heron	16 December 2024	Lake	9	1	Feeding/foraging/hunting
Grey Heron	16 December 2024	Lake	29	4	Roosting
Grey Heron	16 December 2024	West Gate	69	1	

Species name	Date	Zone	Plot No.	Count	Activity
Grey Heron	07 January 2025	Lake	29	1	Flushed
Grey Heron	07 January 2025	Lake	38	1	Flushed
Grey Heron	21 January 2025	Lake	33	1	Loafing
Grey Heron	04 February 2025	Lake	38	2	Commuting
Grey Partridge	16 December 2024	Core	61	6	Flushed
Grey Partridge	04 February 2025	Core	63	2	
Grey Wagtail	17 October 2024	Lake	27	1	
Grey Wagtail	05 December 2024	Lake	39	1	
Grey Wagtail	04 February 2025	Core	55	1	Flushed
Grey Wagtail	04 February 2025	Core	95	1	Feeding/foraging/hunting
Greylag Goose	12 November 2024	Core	95	7	Commuting
Greylag Goose	12 November 2024	Lake	30	3	Loafing
Greylag Goose	05 December 2024	Lake	16	9	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Greylag Goose	05 December 2024	Lake	26	2	Commuting
Greylag Goose	07 January 2025	Lake	30	39	Loafing
Greylag Goose	21 January 2025	Core	59	2	Loafing
Greylag Goose	21 January 2025	Lake	30	15	Loafing
Greylag Goose	04 February 2025	Core	59	8	Loafing
Herring Gull	12 November 2024	Core	96	1	Loafing
House Sparrow	07 January 2025	Core	50	2	
Jack Snipe	17 October 2024	Lake	1	1	
Kestrel	17 October 2024	Core	50	2	Feeding/foraging/hunting
Kestrel	17 October 2024	Core	63	2	Feeding/foraging/hunting
Kestrel	17 October 2024	Lake	5	1	Soaring
Kestrel	17 October 2024	West Gate	72	1	Feeding/foraging/hunting
Kestrel	01 November 2024	Core	51	1	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Kestrel	01 November 2024	Core	95	1	Loafing
Kestrel	01 November 2024	Lake	5	1	Feeding/foraging/hunting
Kestrel	05 December 2024	Core	58	1	Feeding/foraging/hunting
Kestrel	05 December 2024	Core	69	1	
Kestrel	05 December 2024	Lake	18	1	
Kestrel	05 December 2024	Lake	23	2	Loafing
Kestrel	16 December 2024	Lake	4	1	
Kestrel	16 December 2024	Lake	26	1	Feeding/foraging/hunting
Kestrel	07 January 2025	Lake	16	1	Loafing
Kestrel	21 January 2025	Lake	5	1	Feeding/foraging/hunting
Kestrel	21 January 2025	West Gate	72	1	
Kestrel	04 February 2025	Lake	23	1	Feeding/foraging/hunting
Kestrel	04 February 2025	Lake	31	1	Commuting

Species name	Date	Zone	Plot No.	Count	Activity
Kingfisher	16 December 2024	West Gate	69	1	Flushed
Kingfisher	07 January 2025	Lake	33	2	Flushed
Lapwing	17 October 2024	Lake	5	8	Circling
Lapwing	17 October 2024	Lake	30	22	Commuting
Lapwing	12 November 2024	Core	63	15	Commuting
Lapwing	12 November 2024	Lake	2	2	Commuting
Lapwing	12 November 2024	Lake	5	15	Loafing
Lapwing	05 December 2024	Core	57	80	Circling
Lapwing	05 December 2024	Lake	4	200	Feeding/foraging/hunting
Lapwing	05 December 2024	Lake	21	120	Feeding/foraging/hunting
Lapwing	16 December 2024	Core	89	13	Commuting
Lapwing	16 December 2024	Lake	4 and 5	300	Feeding/foraging/hunting
Lapwing	07 January 2025	Core	53	2	Flushed



Species name	Date	Zone	Plot No.	Count	Activity
Lapwing	07 January 2025	Lake	4	90	Feeding/foraging/hunting
Lapwing	04 February 2025	Core	95	3	Feeding/foraging/hunting
Lapwing	04 February 2025	Lake	26	66	Feeding/foraging/hunting
Lesser Black-backed Gull	05 December 2024	Core	89	2	Loafing
Lesser Redpoll	07 January 2025	Lake	41	1	Flushed
Linnet	17 October 2024	Lake	2	2	
Linnet	17 October 2024	Lake	5	1	Feeding/foraging/hunting
Linnet	17 October 2024	Lake	24	1	Loafing
Linnet	01 November 2024	Core	94	2	Feeding/foraging/hunting
Linnet	01 November 2024	Lake	27	2	Feeding/foraging/hunting
Linnet	12 November 2024	Lake	26	1	
Linnet	21 January 2025	Lake	1	2	Feeding/foraging/hunting
Linnet	21 January 2025	Lake	29	1	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Linnet	04 February 2025	Core	61	2	
Linnet	04 February 2025	Core	92	1	Singing
Linnet	04 February 2025	Core	94	13	
Little Grebe	05 December 2024	Lake	29	5	Feeding/foraging/hunting
Little Grebe	07 January 2025	Lake	29	1	Feeding/foraging/hunting
Mallard	08 October 2024	Core	59	2	Loafing
Mallard	17 October 2024	Core	59	9	Feeding/foraging/hunting
Mallard	17 October 2024	Lake	30	8	
Mallard	01 November 2024	Core	59	3	Feeding/foraging/hunting
Mallard	01 November 2024	Lake	30	41	Feeding/foraging/hunting
Mallard	12 November 2024	Core	59	2	Feeding/foraging/hunting
Mallard	12 November 2024	Lake	26	2	Feeding/foraging/hunting
Mallard	12 November 2024	Lake	29	3	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Mallard	12 November 2024	Lake	30	34	Loafing
Mallard	12 November 2024	West Gate	69	4	Flushed
Mallard	05 December 2024	Core	59	6	Loafing
Mallard	05 December 2024	Lake	34	22	Loafing
Mallard	16 December 2024	Core	59	13	Loafing
Mallard	16 December 2024	Lake	29	7	Loafing
Mallard	16 December 2024	Lake	30	2	Loafing
Mallard	07 January 2025	Core	59	22	Loafing
Mallard	07 January 2025	Lake	29	4	Feeding/foraging/hunting
Mallard	21 January 2025	Core	59	4	Feeding/foraging/hunting
Mallard	21 January 2025	Lake	29	3	Loafing
Mallard	21 January 2025	Lake	30	10	Loafing
Mallard	04 February 2025	Core	59	2	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Mallard	04 February 2025	Lake	29	9	
Mallard	04 February 2025	West Gate	72	2	Feeding/foraging/hunting
Marsh Harrier	12 November 2024	Lake	2	1	Feeding/foraging/hunting
Marsh Harrier	05 December 2024	Lake	29	1	Feeding/foraging/hunting
Meadow Pipit	08 October 2024	Core	55	1	
Meadow Pipit	08 October 2024	West Gate	70	2	Feeding/foraging/hunting
Meadow Pipit	08 October 2024	West Gate	74	2	
Meadow Pipit	17 October 2024	Lake	1	4	
Meadow Pipit	17 October 2024	Lake	2	2	
Meadow Pipit	17 October 2024	Lake	3	3	
Meadow Pipit	17 October 2024	Lake	5	1	
Meadow Pipit	17 October 2024	Lake	29	2	
Meadow Pipit	01 November 2024	Lake	26	1	

Species name	Date	Zone	Plot No.	Count	Activity
Meadow Pipit	12 November 2024	Lake	31	1	
Meadow Pipit	05 December 2024	Lake	26	6	Feeding/foraging/hunting
Meadow Pipit	05 December 2024	Lake	29	7	Feeding/foraging/hunting
Meadow Pipit	21 January 2025	Lake	26	5	Feeding/foraging/hunting
Meadow Pipit	04 February 2025	Lake	26	6	
Moorhen	01 November 2024	Core	89	1	Heard calling
Moorhen	01 November 2024	Lake	33	1	
Moorhen	05 December 2024	Lake	29	1	Heard calling
Mute Swan	17 October 2024	Core	52	2	Commuting
Mute Swan	17 October 2024	Lake	24	1	
Mute Swan	17 October 2024	Lake	30	77	Loafing
Mute Swan	01 November 2024	Lake	30	61	Feeding/foraging/hunting
Mute Swan	12 November 2024	Lake	30	41	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Mute Swan	12 November 2024	Lake	33	2	Feeding/foraging/hunting
Mute Swan	05 December 2024	Lake	15	1	Feeding/foraging/hunting
Mute Swan	05 December 2024	Lake	28	5	Loafing
Mute Swan	05 December 2024	Lake	33	2	Loafing
Mute Swan	05 December 2024	Lake	34	3	Feeding/foraging/hunting
Mute Swan	16 December 2024	Lake	1	2	Feeding/foraging/hunting
Mute Swan	16 December 2024	Lake	30	2	Feeding/foraging/hunting
Mute Swan	07 January 2025	Lake	29	2	Feeding/foraging/hunting
Mute Swan	07 January 2025	Lake	30	24	Loafing
Mute Swan	21 January 2025	Core	89	1	Feeding/foraging/hunting
Mute Swan	21 January 2025	Lake	29	2	Feeding/foraging/hunting
Mute Swan	21 January 2025	Lake	30	40	Feeding/foraging/hunting
Mute Swan	21 January 2025	Lake	35	2	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Mute Swan	21 January 2025	Lake	38	2	Feeding/foraging/hunting
Mute Swan	04 February 2025	Core	59	26	Feeding/foraging/hunting
Mute Swan	04 February 2025	Lake	29	2	Feeding/foraging/hunting
Mute Swan	04 February 2025	Lake	30	2	Loafing
Mute Swan	04 February 2025	Lake	33	1	Feeding/foraging/hunting
Mute Swan	04 February 2025	Lake	38	2	Loafing
Pochard	05 December 2024	Core	89	5	Roosting
Pochard	05 December 2024	Lake	34	1	Loafing
Pochard	16 December 2024	Lake	38	16	Feeding/foraging/hunting
Pochard	07 January 2025	Core	59	6	Loafing
Pochard	07 January 2025	Lake	24	10	Feeding/foraging/hunting
Pochard	21 January 2025	Lake	24	51	Feeding/foraging/hunting
Pochard	21 January 2025	Lake	38	3	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Pochard	04 February 2025	Lake	1	2	Loafing
Pochard	04 February 2025	Lake	24	34	Loafing
Pochard	04 February 2025	Lake	38	15	Feeding/foraging/hunting
Raven	17 October 2024	Lake	4	1	
Raven	16 December 2024	Lake	4	1	Feeding/foraging/hunting
Raven	07 January 2025	Lake	4	2	Feeding/foraging/hunting
Raven	21 January 2025	Lake	21	2	Feeding/foraging/hunting
Raven	04 February 2025	Lake	5	1	Feeding/foraging/hunting
Red Kite	08 October 2024	West Gate	74	1	Feeding/foraging/hunting
Red Kite	08 October 2024	West Gate	77	1	Feeding/foraging/hunting
Red Kite	17 October 2024	Core	50	1	Feeding/foraging/hunting
Red Kite	17 October 2024	Lake	2	1	
Red Kite	17 October 2024	Lake	27	1	Feeding/foraging/hunting



Species name	Date	Zone	Plot No.	Count	Activity
Red Kite	17 October 2024	Lake	38	1	Feeding/foraging/hunting
Red Kite	12 November 2024	Core	90	2	Feeding/foraging/hunting
Red Kite	12 November 2024	Lake	39	1	Feeding/foraging/hunting
Red Kite	12 November 2024	West Gate	61	1	Feeding/foraging/hunting
Red Kite	12 November 2024	West Gate	70	1	Soaring
Red Kite	05 December 2024	Core	60	1	Feeding/foraging/hunting
Red Kite	05 December 2024	Core	97	1	Feeding/foraging/hunting
Red Kite	16 December 2024	West Gate	79	1	
Red Kite	07 January 2025	Core	63	1	Feeding/foraging/hunting
Red Kite	07 January 2025	Core	85	3	Loafing
Red Kite	07 January 2025	Lake	4	3	Feeding/foraging/hunting
Red Kite	07 January 2025	Lake	28	1	Feeding/foraging/hunting
Red Kite	21 January 2025	Lake	41	1	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Red Kite	04 February 2025	Core	72	1	Feeding/foraging/hunting
Red Kite	04 February 2025	Core	74	1	Feeding/foraging/hunting
Red Kite	04 February 2025	Core	88	2	Feeding/foraging/hunting
Red Kite	04 February 2025	Lake	9	2	Feeding/foraging/hunting
Redwing	17 October 2024	Lake	24	4	
Redwing	01 November 2024	Core	51	1	Commuting
Redwing	01 November 2024	Core	63	1	Commuting
Redwing	01 November 2024	Core	94	6	Feeding/foraging/hunting
Redwing	01 November 2024	Lake	33	1	Loafing
Redwing	01 November 2024	West Gate	72	4	Commuting
Redwing	12 November 2024	Core	52	3	
Redwing	12 November 2024	Core	57	1	
Redwing	12 November 2024	Core	85	2	Heard calling

Species name	Date	Zone	Plot No.	Count	Activity
Redwing	12 November 2024	Lake	3	1	Feeding/foraging/hunting
Redwing	12 November 2024	Lake	14	2	
Redwing	12 November 2024	Lake	29	1	
Redwing	12 November 2024	Lake	35	10	Feeding/foraging/hunting
Redwing	12 November 2024	Lake	41	2	
Redwing	12 November 2024	West Gate	69	12	
Redwing	12 November 2024	West Gate	72	4	Feeding/foraging/hunting
Redwing	05 December 2024	Core	58	2	Loafing
Redwing	05 December 2024	Core	85	2	Loafing
Redwing	05 December 2024	Lake	26	12	
Redwing	16 December 2024	Core	57	1	
Redwing	16 December 2024	Core	92	1	
Redwing	16 December 2024	West Gate	75	1	

Species name	Date	Zone	Plot No.	Count	Activity
Redwing	07 January 2025	Core	50	1	
Redwing	07 January 2025	Core	58	6	
Redwing	07 January 2025	Lake	31	2	Feeding/foraging/hunting
Redwing	07 January 2025	Lake	32	10	Feeding/foraging/hunting
Redwing	21 January 2025	Core	57	2	
Redwing	21 January 2025	Lake	9	2	Feeding/foraging/hunting
Redwing	04 February 2025	Core	57	3	
Redwing	04 February 2025	Lake	23	1	Feeding/foraging/hunting
Redwing	04 February 2025	Lake	29	1	
Reed Bunting	17 October 2024	Core	50	1	
Reed Bunting	17 October 2024	Lake	5	2	Flushed
Reed Bunting	17 October 2024	Lake	23	1	
Reed Bunting	17 October 2024	Lake	24	1	

Species name	Date	Zone	Plot No.	Count	Activity
Reed Bunting	17 October 2024	Lake	34	1	Heard calling
Reed Bunting	17 October 2024	Lake	41	1	
Reed Bunting	17 October 2024	West Gate	70	1	
Reed Bunting	01 November 2024	Lake	23	1	
Reed Bunting	07 January 2025	Lake	30	1	Heard calling
Rook	01 November 2024	Core	94	1	Feeding/foraging/hunting
Rook	16 December 2024	Core	63	40	Feeding/foraging/hunting
Shoveler	16 December 2024	Lake	33	1	
Shoveler	21 January 2025	Lake	30	2	Feeding/foraging/hunting
Skylark	08 October 2024	Core	52	1	
Skylark	08 October 2024	Core	67	6	Singing
Skylark	08 October 2024	Core	70	2	
Skylark	08 October 2024	Core	95	2	

Species name	Date	Zone	Plot No.	Count	Activity
Skylark	08 October 2024	West Gate	71	1	
Skylark	08 October 2024	West Gate	72	18	Feeding/foraging/hunting
Skylark	17 October 2024	Core	59	1	Heard calling
Skylark	17 October 2024	Core	67	2	
Skylark	17 October 2024	Lake	4	2	
Skylark	17 October 2024	Lake	5	6	
Skylark	17 October 2024	Lake	18	1	Heard calling
Skylark	17 October 2024	Lake	28	1	
Skylark	17 October 2024	Lake	31	1	Heard calling
Skylark	17 October 2024	Lake	38	2	Commuting
Skylark	17 October 2024	Lake	41	3	
Skylark	17 October 2024	West Gate	70	2	
Skylark	17 October 2024	West Gate	71	17	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Skylark	17 October 2024	West Gate	72	1	
Skylark	01 November 2024	Core	95	1	
Skylark	01 November 2024	Lake	5	2	
Skylark	01 November 2024	Lake	21	4	
Skylark	01 November 2024	West Gate	72	18	Feeding/foraging/hunting
Skylark	12 November 2024	Core	52	3	
Skylark	12 November 2024	Core	63	7	Feeding/foraging/hunting
Skylark	12 November 2024	Core	85	1	
Skylark	12 November 2024	Lake	5	1	
Skylark	12 November 2024	West Gate	70	2	Feeding/foraging/hunting
Skylark	12 November 2024	West Gate	72	18	Feeding/foraging/hunting
Skylark	05 December 2024	Core	63	40	Feeding/foraging/hunting
Skylark	05 December 2024	Core	70	1	

Species name	Date	Zone	Plot No.	Count	Activity
Skylark	05 December 2024	Core	72	8	Feeding/foraging/hunting
Skylark	05 December 2024	Lake	1	1	
Skylark	05 December 2024	Lake	5	2	Heard calling
Skylark	16 December 2024	Core	63	2	
Skylark	16 December 2024	Core	67	3	Feeding/foraging/hunting
Skylark	16 December 2024	Core	95	3	Feeding/foraging/hunting
Skylark	16 December 2024	West Gateway	72	20	
Skylark	07 January 2025	Core	63	1	
Skylark	07 January 2025	Core	64	2	
Skylark	07 January 2025	Lake	3	3	Feeding/foraging/hunting
Skylark	07 January 2025	Lake	5	20	Feeding/foraging/hunting
Skylark	21 January 2025	Core	95	1	Heard calling
Skylark	21 January 2025	Core	96	15	Feeding/foraging/hunting



Species name	Date	Zone	Plot No.	Count	Activity
Skylark	21 January 2025	Lake	1	1	Heard calling
Skylark	21 January 2025	West Gate	70	1	
Skylark	04 February 2025	Core	50	1	Singing
Skylark	04 February 2025	Core	52	1	
Skylark	04 February 2025	Core	63	45	Feeding/foraging/hunting
Skylark	04 February 2025	Core	98	2	
Skylark	04 February 2025	Lake	4	12	Feeding/foraging/hunting
Skylark	04 February 2025	Lake	21	2	
Skylark	04 February 2025	West Gate	72	1	Feeding/foraging/hunting
Snipe	17 October 2024	Lake	1	1	
Snipe	17 October 2024	Lake	5	1	Flushed
Snipe	01 November 2024	Lake	1	1	Flushed
Snipe	12 November 2024	Lake	1	2	Flushed

Species name	Date	Zone	Plot No.	Count	Activity
Snipe	12 November 2024	Lake	3	1	Flushed
Snipe	05 December 2024	Lake	26	1	Flushed
Snipe	07 January 2025	Lake	1	2	Flushed
Snipe	04 February 2025	Lake	1	1	Flushed
Song Thrush	17 October 2024	Lake	1	1	
Song Thrush	17 October 2024	Lake	4	3	Feeding/foraging/hunting
Song Thrush	17 October 2024	Lake	21	1	
Song Thrush	01 November 2024	Lake	16	1	
Song Thrush	01 November 2024	Lake	21	1	Loafing
Song Thrush	12 November 2024	Lake	16	1	
Song Thrush	12 November 2024	Lake	26	2	
Song Thrush	12 November 2024	Lake	31	2	Flushed
Song Thrush	05 December 2024	Core	70	1	

Species name	Date	Zone	Plot No.	Count	Activity
Song Thrush	05 December 2024	Lake	2	1	Feeding/foraging/hunting
Song Thrush	05 December 2024	Lake	23	2	
Song Thrush	05 December 2024	Lake	41	1	Flushed
Song Thrush	16 December 2024	Core	63	1	
Song Thrush	16 December 2024	Lake	41	1	Flushed
Song Thrush	16 December 2024	West Gate	69	1	
Song Thrush	07 January 2025	Lake	2	2	
Song Thrush	07 January 2025	Lake	9	2	Feeding/foraging/hunting
Song Thrush	07 January 2025	Lake	23	1	
Song Thrush	07 January 2025	Lake	26	1	Feeding/foraging/hunting
Song Thrush	07 January 2025	Lake	31	2	Feeding/foraging/hunting
Song Thrush	21 January 2025	Lake	23	1	
Song Thrush	04 February 2025	Lake	1	1	

Species name	Date	Zone	Plot No.	Count	Activity
Song Thrush	04 February 2025	Lake	9	1	Flushed
Song Thrush	04 February 2025	Lake	21	1	
Song Thrush	04 February 2025	Lake	23	1	
Song Thrush	04 February 2025	Lake	26	3	
Sparrowhawk	08 October 2024	Core	51	1	Feeding/foraging/hunting
Sparrowhawk	17 October 2024	Core	59	1	Feeding/foraging/hunting
Sparrowhawk	17 October 2024	Lake	26	1	
Sparrowhawk	12 November 2024	Lake	26	1	Feeding/foraging/hunting
Sparrowhawk	05 December 2024	Lake	26	1	Feeding/foraging/hunting
Starling	17 October 2024	Core	95	14	Commuting
Starling	12 November 2024	Lake	5	120	Loafing
Starling	12 November 2024	Lake	10	65	Commuting
Starling	12 November 2024	West Gate	72	60	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Starling	05 December 2024	Lake	4	25	
Starling	16 December 2024	Lake	4	50	Feeding/foraging/hunting
Starling	07 January 2025	Core	55	7	Flushed
Starling	21 January 2025	Core	96	51	Loafing
Stock Dove	17 October 2024	Lake	4	1	Flushed
Stock Dove	01 November 2024	Lake	3	1	Feeding/foraging/hunting
Stock Dove	01 November 2024	Lake	21	2	Flushed
Stock Dove	12 November 2024	West Gate	69	3	Flushed
Stock Dove	12 November 2024	West Gate	72	6	Feeding/foraging/hunting
Stock Dove	05 December 2024	Core	53	1	Flushed
Stock Dove	05 December 2024	Core	63	2	Feeding/foraging/hunting
Stock Dove	05 December 2024	Core	66	30	Feeding/foraging/hunting
Stock Dove	05 December 2024	Lake	21	13	Flushed

Species name	Date	Zone	Plot No.	Count	Activity
Stock Dove	16 December 2024	Core	53	2	Commuting
Stock Dove	07 January 2025	Lake	4	1	Landed
Stock Dove	04 February 2025	Lake	27	1	Feeding/foraging/hunting
Stonechat	17 October 2024	Lake	26	1	
Stonechat	17 October 2024	Lake	30	1	
Tufted Duck	08 October 2024	Core	89	12	Feeding/foraging/hunting
Tufted Duck	17 October 2024	Core	89	23	Feeding/foraging/hunting
Tufted Duck	01 November 2024	Core	89	2	Feeding/foraging/hunting
Tufted Duck	01 November 2024	Lake	29	4	Loafing
Tufted Duck	01 November 2024	Lake	30	9	Loafing
Tufted Duck	12 November 2024	Core	85	12	Feeding/foraging/hunting
Tufted Duck	12 November 2024	Lake	30	41	Feeding/foraging/hunting
Tufted Duck	05 December 2024	Core	59	2	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Tufted Duck	05 December 2024	Core	89	27	Feeding/foraging/hunting
Tufted Duck	05 December 2024	Lake	33	16	Feeding/foraging/hunting
Tufted Duck	05 December 2024	Lake	34	72	Feeding/foraging/hunting
Tufted Duck	16 December 2024	Core	89	10	Feeding/foraging/hunting
Tufted Duck	16 December 2024	Lake	30	55	Feeding/foraging/hunting
Tufted Duck	16 December 2024	Lake	33	14	Feeding/foraging/hunting
Tufted Duck	16 December 2024	Lake	38	112	Feeding/foraging/hunting
Tufted Duck	07 January 2025	Core	59	32	Loafing
Tufted Duck	07 January 2025	Core	89	10	Feeding/foraging/hunting
Tufted Duck	07 January 2025	Lake	24	5	Feeding/foraging/hunting
Tufted Duck	07 January 2025	Lake	29	18	Feeding/foraging/hunting
Tufted Duck	07 January 2025	Lake	30	4	Feeding/foraging/hunting
Tufted Duck	07 January 2025	Lake	33	23	Feeding/foraging/hunting

Species name	Date	Zone	Plot No.	Count	Activity
Tufted Duck	07 January 2025	Lake	38	14	Feeding/foraging/hunting
Tufted Duck	21 January 2025	Core	59	33	Feeding/foraging/hunting
Tufted Duck	21 January 2025	Core	89	37	Feeding/foraging/hunting
Tufted Duck	21 January 2025	Lake	24	32	Feeding/foraging/hunting
Tufted Duck	21 January 2025	Lake	29	44	Loafing
Tufted Duck	21 January 2025	Lake	30	15	Feeding/foraging/hunting
Tufted Duck	21 January 2025	Lake	33	5	Feeding/foraging/hunting
Tufted Duck	21 January 2025	Lake	35	15	Feeding/foraging/hunting
Tufted Duck	21 January 2025	Lake	38	65	Feeding/foraging/hunting
Tufted Duck	04 February 2025	Core	59	2	Feeding/foraging/hunting
Tufted Duck	04 February 2025	Core	89	52	Feeding/foraging/hunting
Tufted Duck	04 February 2025	Lake	1	1	Loafing
Tufted Duck	04 February 2025	Lake	15	6	Feeding/foraging/hunting



Species name	Date	Zone	Plot No.	Count	Activity
Tufted Duck	04 February 2025	Lake	24	21	Loafing
Tufted Duck	04 February 2025	Lake	29	12	
Tufted Duck	04 February 2025	Lake	30	38	Loafing
Tufted Duck	04 February 2025	Lake	38	1	Feeding/foraging/hunting
Water Rail	12 November 2024	Lake	29	1	Heard calling
Water Rail	05 December 2024	Lake	29	1	Heard calling
Wigeon	17 October 2024	Lake	30	20	Loafing
Wigeon	01 November 2024	Lake	30	17	
Wigeon	12 November 2024	Lake	30	16	Loafing
Wigeon	05 December 2024	Lake	30	34	Loafing
Wigeon	16 December 2024	Lake	30	36	Loafing
Wigeon	16 December 2024	Lake	38	24	Loafing
Wigeon	07 January 2025	Lake	30	64	Loafing

Species name	Date	Zone	Plot No.	Count	Activity
Wigeon	21 January 2025	Lake	30	70	Loafing
Wood Pigeon	17 October 2024	Lake	3	100	
Wood Pigeon	17 October 2024	Lake	5	50	Feeding/foraging/hunting
Wood Pigeon	01 November 2024	Core	51	20	Feeding/foraging/hunting
Wood Pigeon	01 November 2024	Lake	3	70	Feeding/foraging/hunting
Wood Pigeon	01 November 2024	Lake	5	200	Feeding/foraging/hunting
Wood Pigeon	12 November 2024	Core	50	40	Feeding/foraging/hunting
Wood Pigeon	12 November 2024	West Gate	72	70	Feeding/foraging/hunting
Wood Pigeon	16 December 2024	Lake	4	400	Feeding/foraging/hunting
Wood Pigeon	07 January 2025	Lake	4	200	Feeding/foraging/hunting
Wood Pigeon	07 January 2025	Lake	5	200	Feeding/foraging/hunting
Wood Pigeon	21 January 2025	Lake	5	200	Feeding/foraging/hunting
Wood Pigeon	21 January 2025	Lake	14	30	

Species name	Date	Zone	Plot No.	Count	Activity
Wood Pigeon	04 February 2025	Lake	4	150	Feeding/foraging/hunting
Woodcock	21 January 2025	Lake	26	1	Flushed
Yellowhammer	08 October 2024	Core	57	2	
Yellowhammer	08 October 2024	West Gate	70	1	Feeding/foraging/hunting
Yellowhammer	17 October 2024	Core	94	1	
Yellowhammer	17 October 2024	Lake	4	2	Feeding/foraging/hunting
Yellowhammer	17 October 2024	Lake	28	1	
Yellowhammer	01 November 2024	West Gate	70	1	Feeding/foraging/hunting
Yellowhammer	01 November 2024	West Gate	72	1	Feeding/foraging/hunting
Yellowhammer	12 November 2024	Core	52	2	
Yellowhammer	12 November 2024	West Gate	70	6	Flushed
Yellowhammer	12 November 2024	West Gate	72	12	Feeding/foraging/hunting
Yellowhammer	05 December 2024	Core	72	3	Feeding/foraging/hunting

# Annex 5

## FIGURES

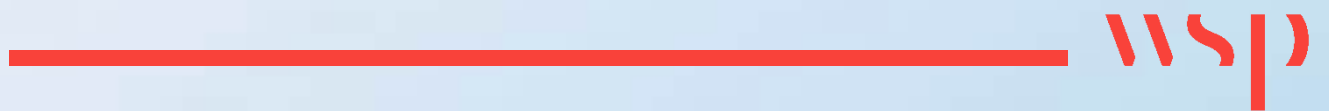




Figure 1: Peak Counts of Coot in each plot during winter 2024/25

Figure 2: Peak Counts of Cormorant in each plot during winter 2024/25

Figure 3: Peak Counts of Great Crested Grebe in each plot during winter 2024/25

Figure 4: Peak Counts of Lapwing in each plot during winter 2024/25

Figure 5: Peak Counts of Mute Swan in each plot during winter 2024/25

Figure 6: Peak Counts of Pochard in each plot during winter 2024/25

Figure 7: Peak Counts of Tufted Duck in each plot during winter 2024/25

Figure 8: Peak Counts of Wigeon in each plot during winter 2024/25

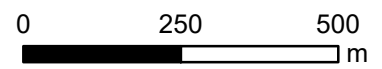
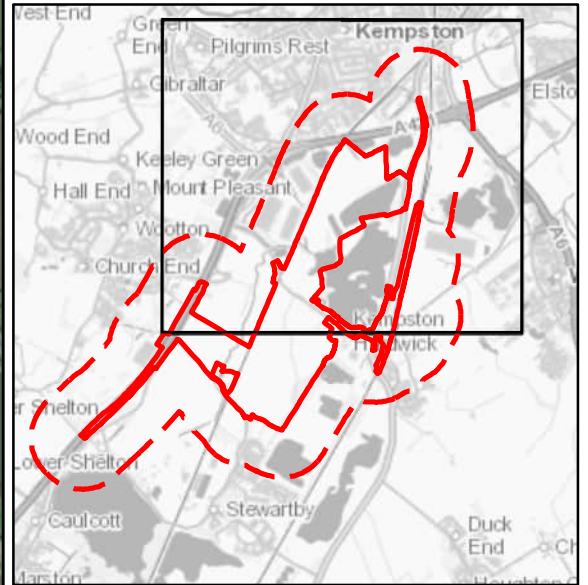
Figure 9: Site Location and Winter Bird Survey Plot Numbers





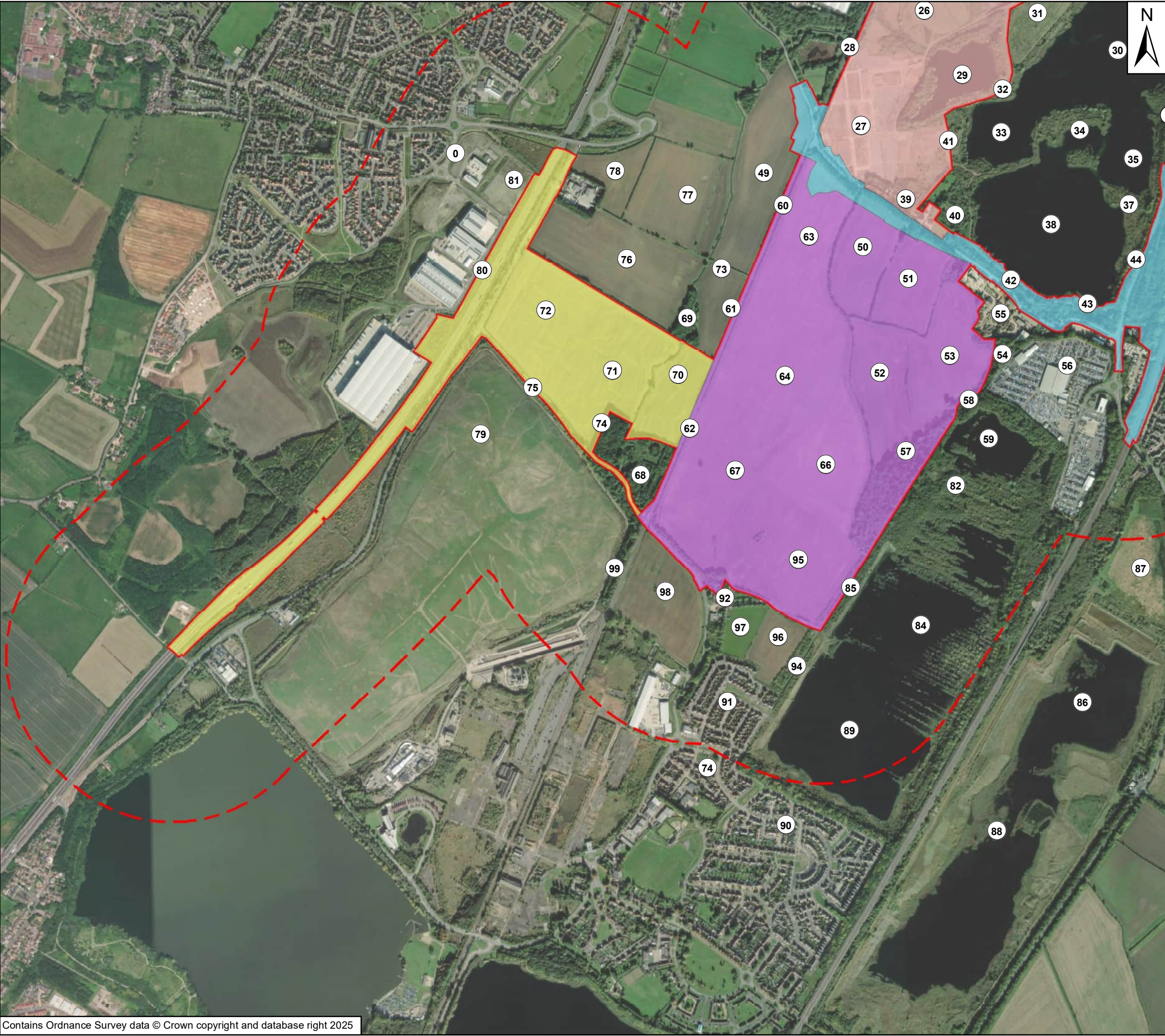
**Key**

- Site boundary
- Survey area
- Core Zone
- East Gateway Zone
- Lake Zone
- West Gateway Zone
- Plot Number



Client:	Universal Destinations & Experiences		
Project:	Universal Destinations & Experiences UK Project		
Title	Site Location and Winter Bird Survey Plot Numbers		
Drawing No:	Figure 1	Drawn:	SS
Date:	20/05/2025	Checked:	JE
Scale:	12,000 @ A3	Approved:	CM





**Key**

- Site boundary
- Survey area
- Core Zone
- East Gateway Zone
- Lake Zone
- West Gateway Zone
- Plot Number

0 250 500 m

Client:

Universal Destinations & Experiences

Project:

Universal Destinations & Experiences UK Project

Title

Site Location and Winter Bird Survey Plot Numbers

Drawing No: Figure 1

Date: 20/05/2025

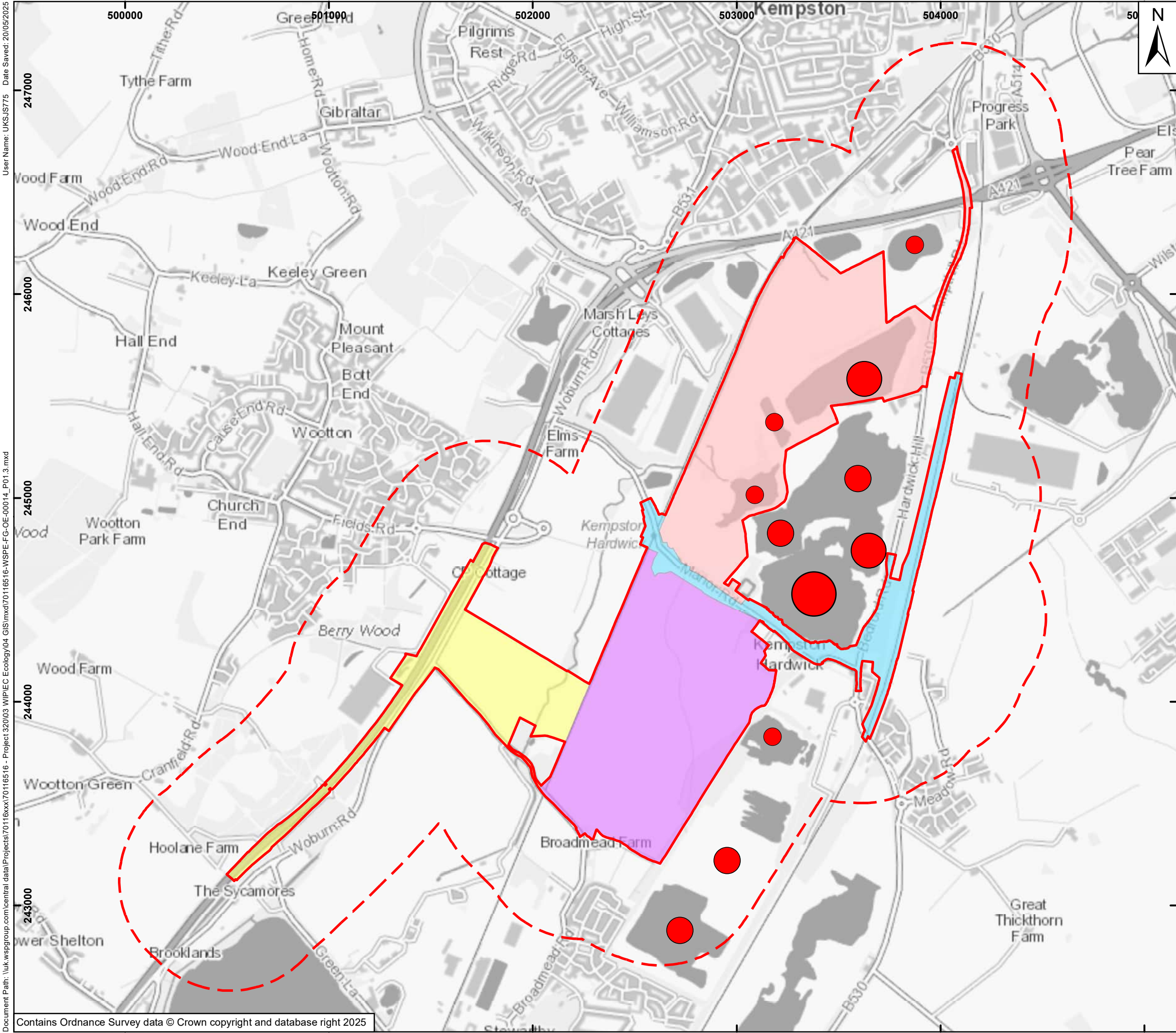
Scale: 12,000 @ A3

Drawn: SS

Checked: JE

Approved: CM





**Key**

- Site boundary
- Survey area
- Core Zone
- East Gateway Zone
- Lake Zone
- West Gateway Zone

**Peak Count**

- 1-9
- 10-24
- 25-99
- 100-135

0 250 500 750 1,000 m

**wsp**

Client: Universal Destinations & Experiences

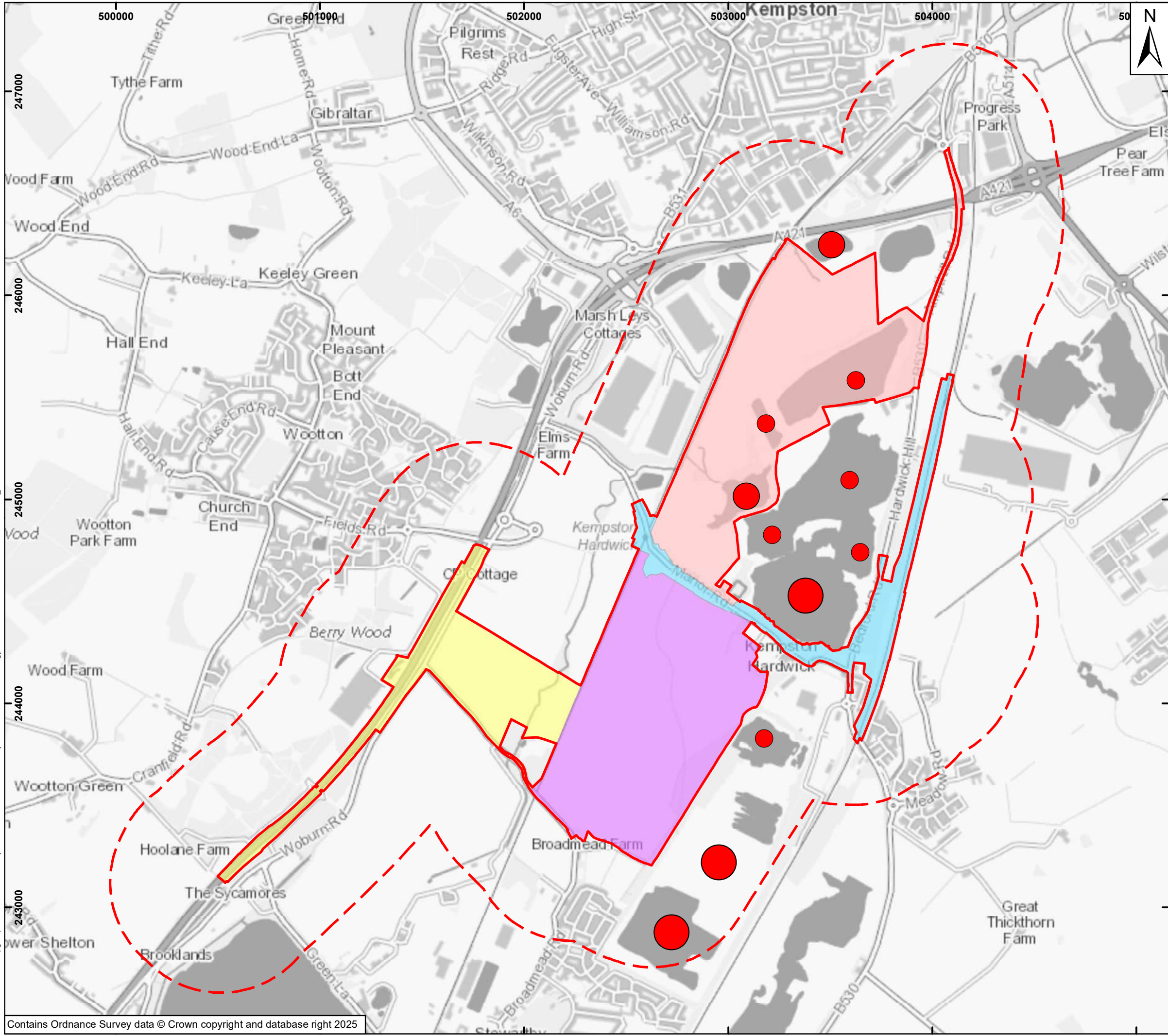
Project: Universal Destinations & Experiences UK Project

Title: Winter Bird Survey - Peak Counts of Coot in each plot during winter

Drawing No:	Figure 2	Drawn:	SS
Scale:	18,000 @ A3	Checked:	JE
Date:	20/05/2025	Approved:	CM



User Name: UKSJ5775 Date Saved: 20/05/2025  
Document Path: \\uk.wspgroup.com\central data\Projects\70116xxx\70116516 - Project 320003 WIP\EC Ecology\04 GIS\mxd\70116516-WSPE-FG-OE-00015\_P01.3.mxd



**Key**

- Site boundary
- Survey area
- Core Zone
- East Gateway Zone
- Lake Zone
- West Gateway Zone

**Peak Count**

- 1-4
- 5-9
- 10-16

0 250 500 750 1,000 m

**wsp**

Client: Universal Destinations & Experiences

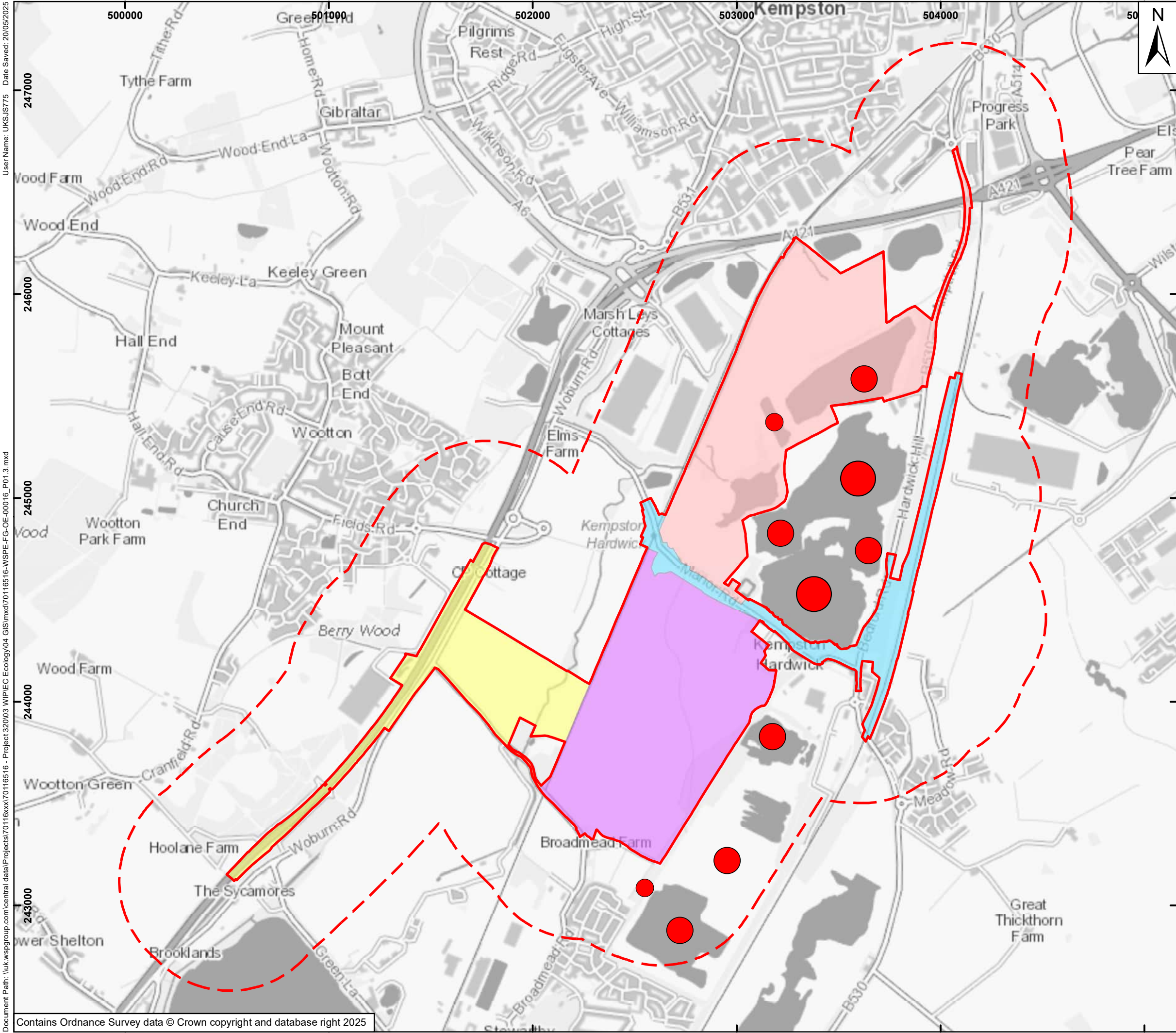
Project: Universal Destinations & Experiences UK Project

Title: Winter Bird Survey - Peak Counts of Cormorant in each plot during winter

Drawing No:	Figure 3	Drawn:	SS
Scale:	18,000 @ A3	Checked:	JE
Date:	20/05/2025	Approved:	CM



User Name: UKSJ5775 Date Saved: 20/05/2025  
Document Path: \\uk.wspgroup.com\central data\Projects\70116xxx\70116516 - Project 320003 WIP\EC Ecology\04 GIS\mxd\70116516-WSPE-FG-OE-00016\_P01.3.mxd



**Key**

- Site boundary
- Survey area
- Core Zone
- East Gateway Zone
- Lake Zone
- West Gateway Zone

**Peak Count**

- 1-4
- 5-9
- 10-11

0 250 500 750 1,000 m

**wsp**

Client:

Universal Destinations & Experiences

Project:

Universal Destinations & Experiences UK Project

Title

Winter Bird Survey - Peak counts of Great Crested Grebe in each plot

Drawing No: Figure 4

Scale: 18,000 @ A3

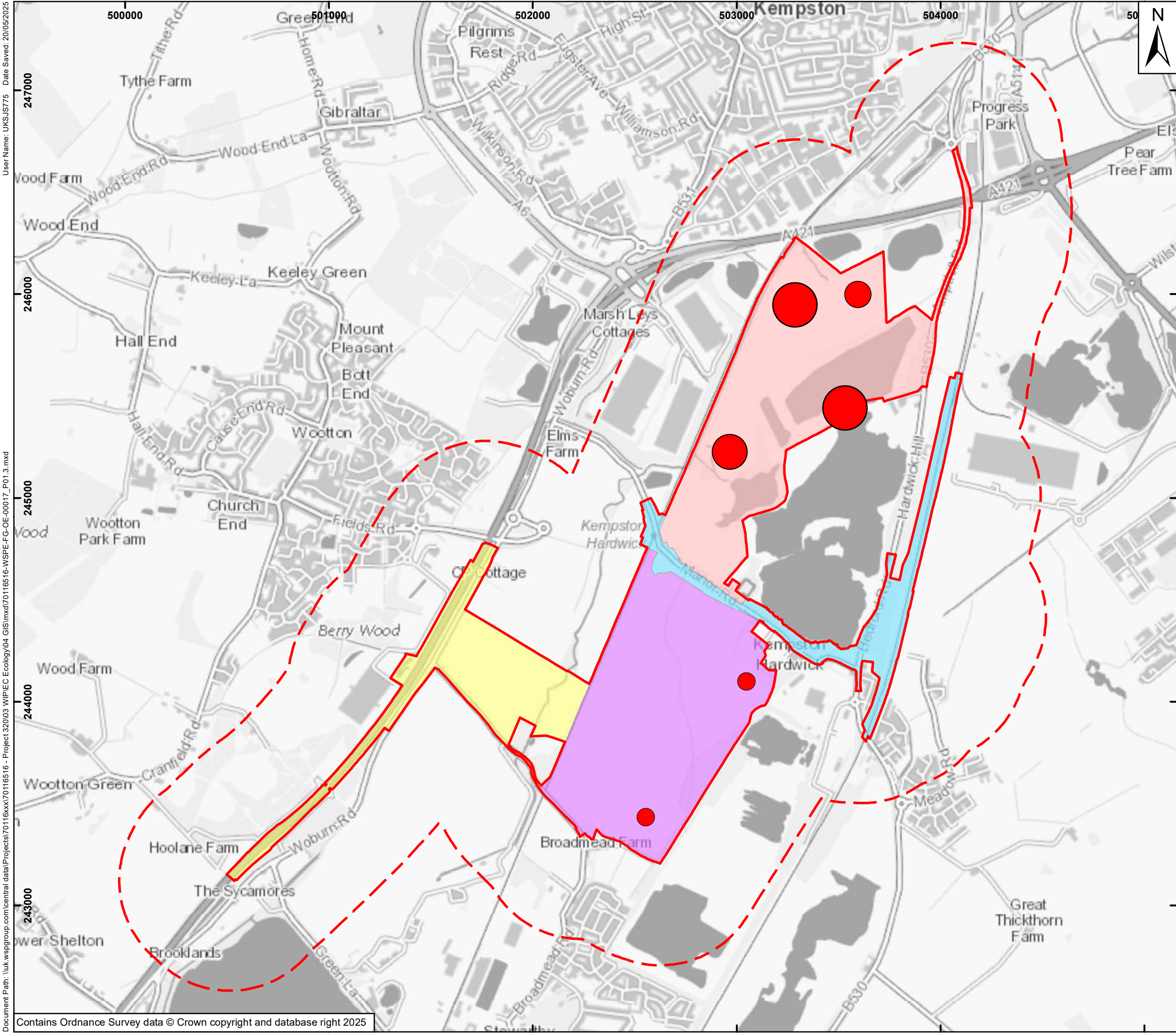
Date: 20/05/2025

Drawn: SS

Checked: JE

Approved: CM





**Key**

- Site boundary
- Survey area
- Core Zone
- East Gateway Zone
- Lake Zone
- West Gateway Zone

**Peak Count**

- 1-9
- 10-24
- 25-99
- 100-300

0 250 500 750 1,000 m

**wsp**

Client: Universal Destinations & Experiences

Project: Universal Destinations & Experiences UK Project

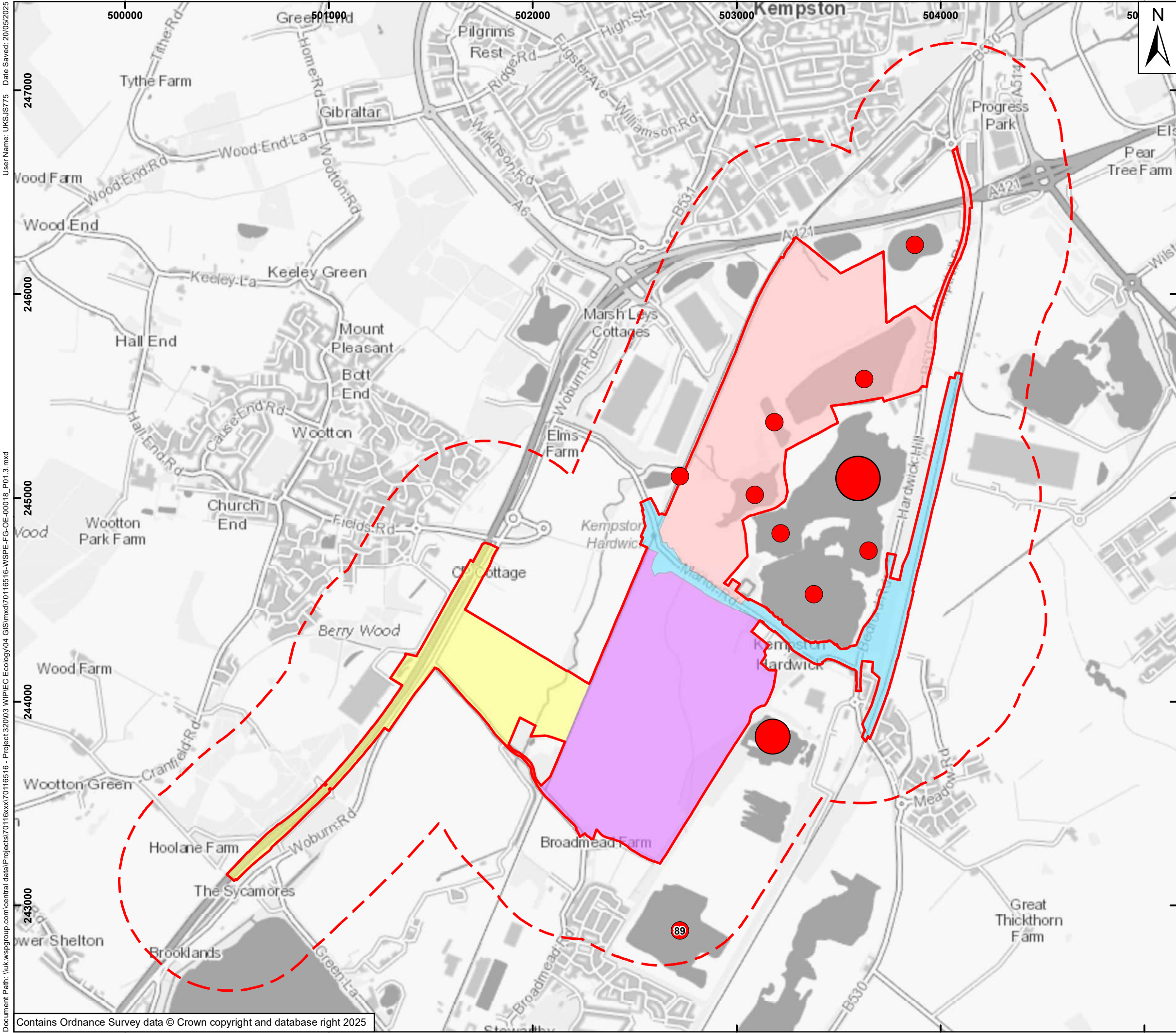
Title: Winter Bird Survey - Peak counts of Lapwing in each plot during winter

Drawing No: Figure 5  
Scale: 18,000 @ A3  
Date: 20/05/2025

Drawn: SS  
Checked: JE  
Approved: MR



User Name: UKSJ5775 Date Saved: 20/05/2025  
Document Path: \\uk.wspgroup.com\central data\Projects\70116xxx\70116516 - Project 320003 WIP\EC Ecology\04 GIS\mxd\70116516-WSPE-FG-OE-00018\_P01.3.mxd



**Key**

- Site boundary
- Survey area
- Core Zone
- East Gateway Zone
- Lake Zone
- West Gateway Zone

**Peak Count**

- 1-9
- 10-24
- 25-49
- 50-77

0 250 500 750 1,000 m

**wsp**

Client:

Universal Destinations & Experiences

Project:

Universal Destinations & Experiences UK Project

Title

Winter Bird Survey - Peak counts of Mute Swan in each plot during winter

Drawing No: Figure 6

Scale: 18,000 @ A3

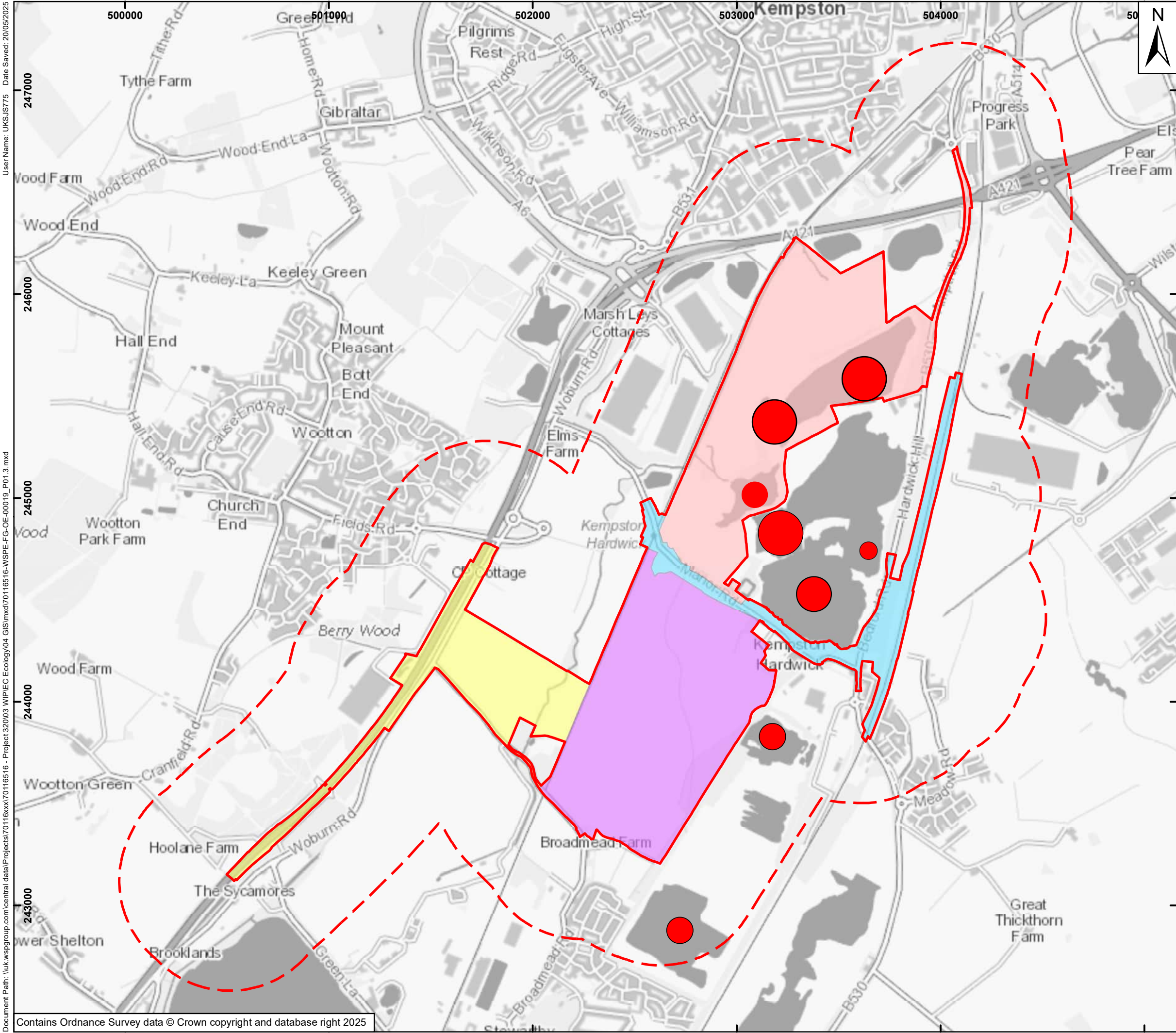
Date: 20/05/2025

Drawn: SS

Checked: JE

Approved: CM





**Key**

- Site boundary
- Survey area
- Core Zone
- East Gateway Zone
- Lake Zone
- West Gateway Zone

**Peak Count**

- 1-4
- 5-9
- 10-24
- 25-51

0 250 500 750 1,000 m

**wsp**

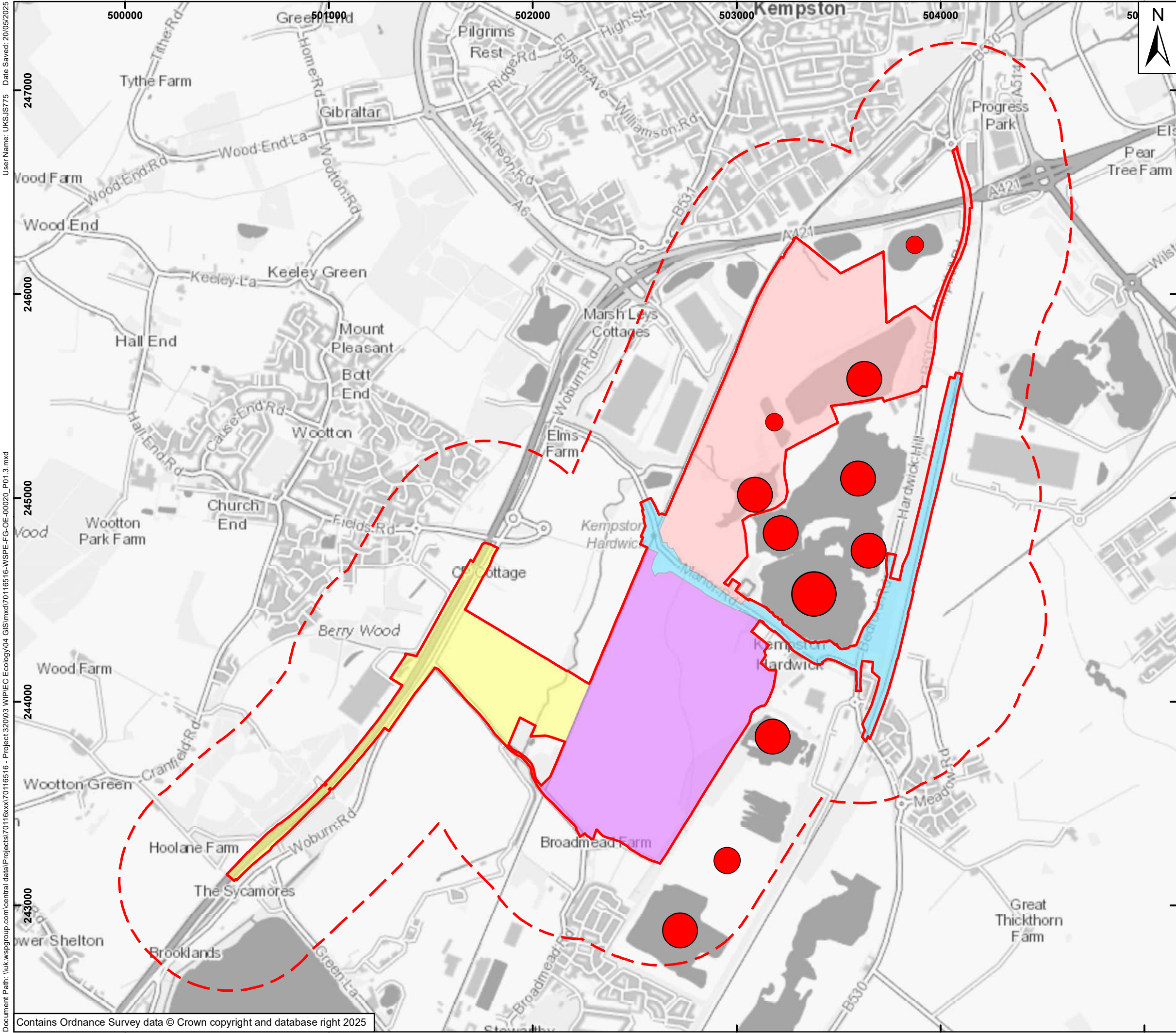
Client: Universal Destinations & Experiences

Project: Universal Destinations & Experiences UK Project

Title: Winter Bird Survey - Peak counts of Pochard in each plot during winter

Drawing No:	Figure 7	Drawn:	SS
Scale:	18,000 @ A3	Checked:	JE
Date:	20/05/2025	Approved:	CM





**Key**

- Site boundary
- Survey area
- Core Zone
- East Gateway Zone
- Lake Zone
- West Gateway Zone

**Peak Count**

- 1-9
- 10-24
- 25-99
- 100-112

0 250 500 750 1,000 m

**wsp**

Client:

Universal Destinations & Experiences

Project:

Universal Destinations & Experiences UK Project

Title

Winter Bird Survey - Peak counts of Tufted Duck in each plot during winter

Drawing No: Figure 8

Scale: 18,000 @ A3

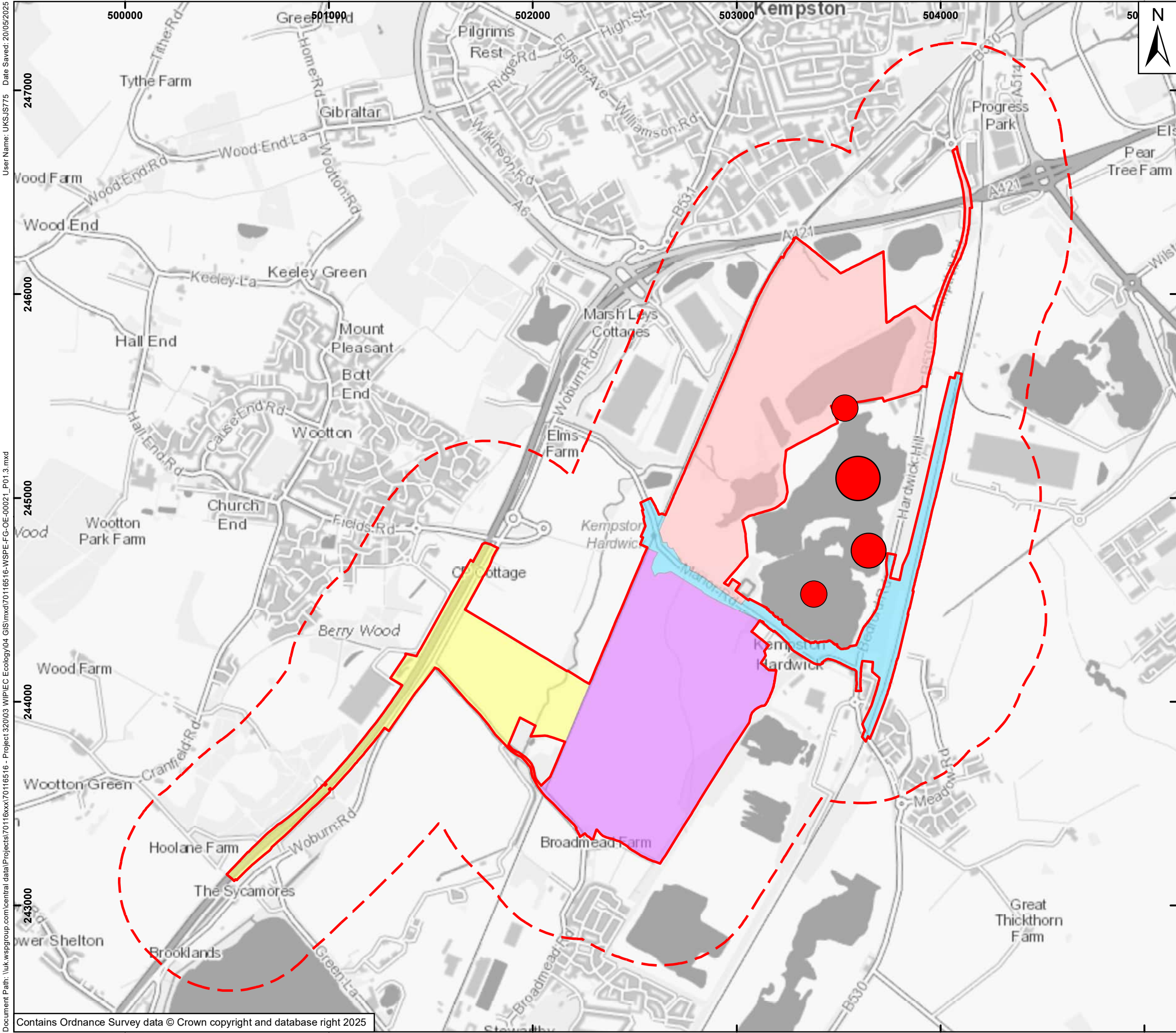
Date: 20/05/2025

Drawn: SS

Checked: JE

Approved: CM





**Key**

- Site boundary
- Survey area
- Core Zone
- East Gateway Zone
- Lake Zone
- West Gateway Zone

**Peak Count**

- 1-9
- 10-24
- 25-49
- 50-70

0 250 500 750 1,000 m

**wsp**

Client: Universal Destinations & Experiences

Project: Universal Destinations & Experiences UK Project

Title: Winter Bird Survey - Peak counts of Wigeon in each plot during winter

Drawing No:	Figure 9	Drawn:	SS
Scale:	18,000 @ A3	Checked:	JE
Date:	20/05/2025	Approved:	CM



First Floor  
3 Wellington Place  
Leeds  
LS1 4AP

**wsp.com**

PUBLIC