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Appendix 7A – Ornithology Baseline Report

Ballynisky Wind Farm

Ballynisky Green Energy Ltd.

December 2025



Ballynisky Green Energy Limited

Appendix 7A – Ornithology Baseline Report

Ballynisky Wind Farm, Co. Limerick

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RSK

RSK GENERAL NOTES

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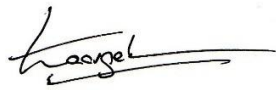
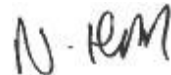

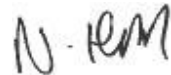
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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

This work has been undertaken in accordance with the quality management system of RSK Biocensus Ltd.

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1.0 INTRODUCTION

1.1 Purpose of this report

This report presents the methodology and findings of an ornithological baseline study for the proposed Ballynisky Wind Farm Project (hereafter referred to as ‘the project’). This report forms a technical appendix to Chapter 7 of the Environmental Impact Assessment Report (EIAR) for the project and provides the basis for Appendix 7.2 – Ornithology Collision Risk Modelling Report which also supports the EIAR. This ornithological baseline study was undertaken by RSK Biocensus on behalf of Ballynisky Green Energy Limited.

The ornithological baseline study presented in this report includes desk studies and field surveys completed between 2020 and 2025 to inform the project, specifically:

- A desk-based review of relevant designated sites of ornithological interest and records of specially protected and notable bird species;
- Vantage Point (VP) surveys undertaken during the non-breeding seasons between 2020 and 2025, and during the breeding seasons between 2020 and 2024, including detailed recording of flight activity for incorporation into collision risk modelling;
- Walked transect surveys undertaken between 2020 and 2025;
- Supporting hinterland bird surveys and wildfowl distribution surveys undertaken during the 2022/23 and 2023/24 non-breeding seasons;
- Wading bird surveys undertaken during the 2023 breeding season; and
- Targeted surveys for breeding barn owl (*Tyto alba*), breeding peregrine (*Falco peregrinus*) and hen harrier (*Circus cyaneus*) in 2022-2025.

This document should be read in conjunction with the following figures:

- Figure 7.1 – Site location plan;
- Figure 7.2 – Relevant designated sites;
- Figure 7.3 – VP locations and viewshed;
- Figure 7.4 – Transect routes;
- Figure 7.5 – Flight observations from VP surveys for target species during the breeding season;
- Figure 7.6 – Flight observations from VP surveys for target species during the non-breeding season;
- Figure 7.7 – Wading bird survey results;
- Figure 7.8 – Barn owl survey results;
- Figure 7.9 – Hen harrier survey results; and
- Figure 7.10 – Peregrine survey results.

1.2 Site overview

The project site (hereafter referred to as 'the site') is located in the townland of Ballynisky, Co. Limerick, and is approximately 9km north of Newcastle West and 6km west of Rathkeale (see Figure 7.1). The site is located in a rural area and predominantly comprises improved agricultural grassland bordered by hedgerows and treelines. Additional habitats include ditches, mixed broadleaved woodland and wet grassland, as well as nearby watercourses (namely the Ahacronane River and Riddlestown Stream). The site is in a lowland location with elevation ranging from approximately 45-55 metres (m) Above Ordnance Datum (AOD).

Various designated sites for nature conservation are present within a 20 km radius of the project site. These include two sites designated for features of ornithological interest: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle Special Protection Area (SPA) (approximately 3.3 km west of the project site), and River Shannon and River Fergus Estuaries SPA (approximately 6.8 km north of the project site). These sites support internationally and nationally important bird populations (see Section 3.1).

1.3 Key guidance

This ornithological baseline study has been prepared in reference to current key industry standard guidance including the following:

- *Recommended bird survey methods to inform impact assessment of onshore wind farms* (Scottish Natural Heritage, 2017);
- *Recommended bird survey methods to inform impact assessment of onshore wind farms* (NatureScot, 2025);
- *Best Practice Guidelines for the Irish Wind Energy Industry* (Irish Wind Energy Association, 2012);
- *Bird monitoring methods: A manual of techniques for key UK species* (Gilbert et al., 1998);
- The *Birds of Conservation Concern in Ireland* (BoCCI) Red and Amber Lists (Gilbert et al., 2021); and
- *Wind energy development and Natura 2000* (European Commission, 2011).

Information on relevant legislation to this report is provided in Annex A.

2.0 METHODOLOGIES

2.1 Desk study

In accordance with best practice guidance, a desk study was undertaken to identify relevant designated sites and specially protected and notable bird species to the project. This enabled a broad overview of potential ornithological constraints to be established and helped guide the identification of focal bird species for subsequent field surveys.

A search was made for any statutory designated sites (e.g., SPAs, Ramsar sites) and non-statutory designated sites for nature conservation with features of ornithological interest, and any other relevant protected and priority habitats, within 20 km of the study boundary. This search area was selected based on knowledge of core foraging ranges for sensitive species, which are typically between <5 km and 20 km (NatureScot, 2025).

To provide information on the presence of specially protected and notable species in the wider area, records were obtained from the Irish Bird Atlas (Balmer *et al.*, 2013) for hectads R24 and R34 (together covering the project site). Records were obtained for:

- Species afforded protection under wildlife legislation (i.e., the Wildlife Acts); and
- Species considered to be of conservation concern (e.g., Red or Amber listed Bird species of Conservation Concern in Ireland).

In addition, supporting data on specially protected and notable bird species were obtained from the National Parks & Wildlife Service (NPWS) in August 2023 for a 10 km radius around the centre of the site.

Relevant Irish Wetland Bird Surveys (I-WeBS) data were also reviewed¹.

2.2 Field survey overview

Detailed ornithological field surveys of the site were undertaken between 2020 and 2025 inclusive to identify the bird populations using the site and adjacent land (i.e., the ornithological baseline of the site), and to gather supporting ornithological data for the wider area (through hinterland bird surveys, wildfowl distribution surveys, wading bird surveys, hen harrier surveys, peregrine surveys and other bird of prey surveys). During the VP surveys of the site, detailed flight data were gathered to inform impact assessment through subsequent collision risk modelling.

The survey approach adopted was based on best practice guidance and professional judgement, in reference to known bird-habitat associations and best practice survey methods for target species (as identified later in Section 2.2). The geographical scope of the field surveys was determined in reference to Scottish Natural Heritage (SNH), NatureScot and Chartered Institute of Ecology and Environmental Management (CIEEM) guidance (SNH, 2017; CIEEM, 2018; NatureScot, 2025). It should be noted field surveys between 2020 – 2025 were completed in reference to SNH guidance (SNH, 2017), a review of the current best practice guidance (NatureScot, 2025) has been provided to confirm

¹ Available at: [Irish Wetland Bird Survey \(I-WeBS\) - BirdWatch Ireland](#) (accessed 12/07/2023).

compliance with updated guidance for ornithological field surveys in relation to proposed wind farms.

Field surveys undertaken to inform the project were as follows:

- VP surveys undertaken during the breeding season (i.e., April to September inclusive) from 2020 to 2024, and during the non-breeding season (i.e., October to March inclusive) from 2020 to 2025;
- Walked transect surveys undertaken from 2020 to 2025;
- Hinterland bird surveys and wildfowl distribution surveys undertaken during the 2022/23 and 2023/24 non-breeding seasons;
- Wading bird surveys undertaken during the 2023 breeding season;
- Detailed surveys for breeding barn owl, breeding peregrine and non-breeding hen harrier in 2022-2025; and
- Bird of prey surveys undertaken during the 2023 and 2024 breeding seasons.

Field surveys were conducted by ornithologists from Malachy Walsh and Partners (MWP) and the Irish Ornithological Survey Group (IOSG) on behalf of Ballynisky Green Energy Limited. Surveyors were all experienced ornithologists competent in bird identification and survey methods for onshore wind farm developments. Surveys were undertaken in suitable weather conditions to record breeding, wintering and passage bird activity. Surveys were completed over multiple years to provide detailed information on the site's ornithological baseline and to account for variation between years (e.g., due to weather conditions and temporal variation in bird distributions).

Target species

Whilst counts of all bird species encountered during field surveys were recorded, based on the desk study, best practice guidance and professional judgement, certain bird species were identified as 'target species' for particular consideration within field surveys and impact assessment. Identification of target species was informed by the following:

- Their known or likely presence within or in close proximity to the site;
- Their likely sensitivity to the project (particularly their potential collision risk and/or susceptibility to disturbance from new wind turbines);
- Their level of legislative protection and conservation concern; and
- Their relevance to any nearby designated sites (e.g., SPAs or Ramsar sites).

Target species for this ornithological baseline study and subsequent impact assessment and collision risk modelling were as follows:

- All species of waterfowl;
- All species of raptor;
- All species of owl;
- All species of grouse;

- All species of wader; and
- All species of gull.

Target species requiring particular consideration due to their conservation status, potential sensitivity and/or relevance to nearby designated sites are summarised in Table 1 below.

Table 1. Target species for particular consideration

Target species	Conservation status
Barn owl (<i>Tyto alba</i>)	BoCCI Red listed / Wildlife Acts
Black-tailed godwit (<i>Limosa limosa</i>)	BoCCI Red listed / Wildlife Acts / SS (Selection Species for a relevant designated site)
Bar-tailed godwit (<i>Limosa lapponica</i>)	Annex I EU Birds Directive / BoCCI Red listed / Wildlife Acts / SS
Black-headed gull (<i>Chroicocephalus ridibundus</i>)	BoCCI Amber listed / Wildlife Acts / SCI (Special Conservation Interest for a relevant designated site)
Buzzard (<i>Buteo buteo</i>)	BoCCI Green listed / Wildlife Acts
Common gull (<i>Larus canus</i>)	BoCCI Amber listed / Wildlife Acts
Cormorant (<i>Phalacrocorax carbo</i>)	BoCCI Amber listed / Wildlife Acts / SS
Curlew (<i>Numenius arquata</i>)	BoCCI Red listed / Wildlife Acts / SS
Dunlin (<i>Calidris alpina</i>)	BoCCI Red listed / Wildlife Acts / SS
Golden plover (<i>Pluvialis apricaria</i>)	Annex I EU Birds Directive / BoCCI Red listed / Wildlife Acts / SS
Hen harrier (<i>Circus cyaneus</i>)	Annex I EU Birds Directive / BoCCI Amber listed / Wildlife Acts / SS
Kestrel (<i>Falco tinnunculus</i>)	BoCCI Red listed / Wildlife Acts
Kingfisher (<i>Alcedo atthis</i>)	Annex I EU Birds Directive / BoCCI Amber listed / Wildlife Acts
Lapwing (<i>Vanellus vanellus</i>)	BoCCI Red listed / Wildlife Acts / SS
Lesser black-backed gull (<i>Larus fuscus</i>)	BoCCI Amber listed / Wildlife Acts
Little egret (<i>Egretta garzetta</i>)	Annex I EU Birds Directive / BoCCI Green listed / Wildlife Acts
Long-eared owl (<i>Asio otus</i>)	BoCCI Green listed / Wildlife Acts
Merlin (<i>Falco columbarius</i>)	Annex I EU Birds Directive / BoCCI Amber listed / Wildlife Acts
Mute swan (<i>Cygnus olor</i>)	BoCCI Amber listed / Wildlife Acts
Peregrine (<i>Falco peregrinus</i>)	Annex I EU Birds Directive / BoCCI Green listed / Wildlife Acts
Pintail (<i>Anas acuta</i>)	BoCCI Amber listed / Wildlife Acts / SCI
Red grouse (<i>Lagopus lagopus</i>)	BoCCI Red listed / Wildlife Acts
Redshank (<i>Tringa totanus</i>)	BoCCI Red listed / Wildlife Acts / SS
Scaup (<i>Aythya marila</i>)	BoCCI Red listed / Wildlife Acts / SCI
Shelduck (<i>Tadorna tadorna</i>)	BoCCI Amber listed / Wildlife Acts / SS
Short-eared owl (<i>Asio flammeus</i>)	Annex I EU Birds Directive / BoCCI Amber listed / Wildlife Acts
Shoveler (<i>Spatula clypeata</i>)	BoCCI Red listed / Wildlife Acts / SCI

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Target species	Conservation status
Snipe (<i>Gallinago gallinago</i>)	BoCCI Red listed / Wildlife Acts
Sparrowhawk (<i>Accipiter nisus</i>)	BoCCI Green listed / Wildlife Acts
Teal (<i>Anas crecca</i>)	BoCCI Amber listed / Wildlife Acts / SS
Tufted duck (<i>Aythya fuligula</i>)	BoCCI Amber listed / Wildlife Acts
Whooper swan (<i>Cygnus cygnus</i>)	Annex I EU Birds Directive / BoCCI Amber listed / Wildlife Acts / SS
Wigeon (<i>Mareca penelope</i>)	BoCCI Amber listed / Wildlife Acts / SS
Woodcock (<i>Scolopax rusticola</i>)	BoCCI Red listed / Wildlife Acts

2.3 Vantage Point surveys

VP surveys were undertaken in accordance with SNH guidance (SNH, 2017) and remain in accordance with current best practice guidance (NatureScot, 2025). Surveys aimed to record bird activity throughout the site during the breeding and non-breeding seasons, including flight activity by target species. As recommended within SNH guidance, VP surveys were undertaken over multiple years to establish a robust ornithological baseline for the site and to account for potential temporal variations in bird activity.

Vantage Point selection

To enable detailed coverage of the site, two VP locations (VP1 and VP2) were selected for the VP surveys (see Table 2). VP locations and viewsheds (i.e., the area in which birds could be observed by the ornithologist from a given VP) are shown in Figure 7.3.

VP locations were selected to maximise coverage of the airspace over the site; particularly the airspace over the six proposed turbine locations and to aid observation of any likely flight lines and habitat assessed as being most likely to be used by target species. VP locations were reviewed to ensure they:

- Covered the entire survey area, such that no airspace surveyed within the site was further than 2 km from a VP;
- Minimised blind spots;
- Were positioned outside of (i.e., looking into) the site;
- Did not exceed a maximum arc of 180 degrees of visibility; and
- Were an appropriate distance from areas in which birds were likely to be susceptible to disturbance (e.g., key feeding areas, roosts and nesting areas).

Table 2. Vantage Point locations

VP	Location	Seasons surveyed
1	Lat. 52.526909 Long. -9.050230	Breeding seasons 2020, 2021, 2022, 2023, 2024 Non-breeding seasons 2020/21, 2021/22, 2022/23, 2023/24, 2024/25

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VP	Location	Seasons surveyed
2	Lat. 52.539720 Long. -9.031711	Breeding seasons 2020, 2021, 2022, 2023, 2024 Non-breeding seasons 2020/21, 2021/22, 2022/23, 2023/24, 2024/25

Vantage Point survey effort

Two surveys from each VP were undertaken monthly during the breeding and non-breeding seasons between April 2020 and March 2025. Monthly coverage year-round ensured the recording of species using the site at all times of year, including breeding species, wintering species, and spring and autumn passage species. Due to a change in land access arrangements in 2022, the location of VP2 changed by approximately 96m. This did not result in any significant reduction in viewshed.

Each VP survey lasted for 3 or 6 hours, generating a survey effort of 6 hours per VP per month (i.e., 12 hours per month in total between the two VPs). As such, in accordance with SNH guidance (SNH, 2017), VP surveys achieved a survey effort of 36 hours per breeding season² and 36 hours per non-breeding season for each VP.

Full details of all VP survey times, weather conditions and field surveyors are provided in Annex B.

Vantage Point survey methods

The VP surveys followed the standard approach specified within SNH guidance (SNH, 2017), with surveyors scanning the pre-determined viewsheds from the VP locations. VP surveys covered a range of times of day, aiding the recording of species that are active at different times of day. All flight activity and aggregations of target species were recorded onto standardised recording forms and maps, with flight parameters recorded as described below. Counts were also recorded for non-target species. Bird identification and counting was aided by using high-powered optical equipment (e.g., binoculars, telescopes) where necessary.

VP surveys were generally undertaken in suitable weather conditions, avoiding extreme temperatures, heavy rain, snow or fog during which bird activity may be atypical and/or surveying may be impractical.

Flight parameters

During each VP survey, the following flight parameters were recorded for any flights by target species observed:

- Start time of flight observation;
- Duration of flight observation;
- Species and number of individuals;
- The flight path taken by the bird(s), mapped as accurately as possible;

² Except for the 2022 breeding season (see Section 2.8).

- Approximate flight height in metres, recording the time spent in each flight height category (non-flight, 0-20 m, 20-50 m, 50-100 m, 100-180 m and >180 m); and
- The observed or likely purpose of the flight (e.g., foraging, displaying, commuting).

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2.4 Transect surveys

In accordance with SNH guidance (SNH, 2017) and current best practice guidance (NatureScot, 2025), VP surveys were accompanied by transect surveys to record supplementary information on bird populations within 500 m of the site. Transect surveys were undertaken during multiple years and were completed during the breeding and non-breeding seasons.

Transect route selection and survey effort

One transect route (Transect A) was surveyed between April 2020 to August 2022 inclusive. Additional transect routes were surveyed between May 2022 and March 2025 due to a change in available land access, with four transect routes surveyed during this period (i.e., Transects A-D as indicated in Figure 7.4).

Transect surveys were timed to aid recording of breeding, wintering and passage birds that might be difficult to record from VPs, such as songbirds and smaller waders. Full details of transect survey times, weather conditions and field surveyors are provided in Annex B.

Transect survey methods

During each transect survey the ornithologist walked the predetermined transect route, recording target species within 100 m of the route onto standardised maps using recommended British Trust for Ornithology (BTO) species codes and behaviour notation (Marchant, 1983). Counts for non-target species were also recorded. Transect routes were interspersed with stops, during which the ornithologist scanned for birds using optical equipment. Transect surveys were undertaken at different times of day, ensuring different areas of the site were surveyed at a range of times of day and therefore aiding the recording of species that are active at different times of day.

Transect surveys were undertaken in suitable weather conditions, avoiding extreme temperatures, heavy rain, snow or fog during which bird activity may be atypical and/or surveying may be impractical.

2.5 Hinterland bird surveys and wildfowl distribution surveys

To provide supplementary information on target species in the wider area, hinterland transect surveys were conducted twice during the 2022/23 non-breeding season and once during the 2023/24 non-breeding season, to a maximum distance of 5 km from the site boundary. A consistent road transect was surveyed, with all target species encountered recorded from suitable viewing points along the route.

To provide supplementary information on wildfowl activity at nearby known sites of importance for wildfowl aggregations, wildfowl distribution surveys were carried out during the 2022/23 non-breeding season at Doohyle Lough. The survey method adopted was based on Birdwatch Ireland's Irish Wetland Bird Survey (I-WEBS) methodology (Bibby *et al.*, 2000).

All target species encountered were recorded, with habitats surveyed including all suitable foraging and roosting areas for wildfowl within the survey area.

Full details of all hinterland bird surveys and wildfowl distribution surveys are provided in Annex B.

2.6 Wading bird surveys

To provide supplementary information on wader species in the wider area, wading bird transect surveys were conducted four times during the 2023 breeding season in suitable habitat to a maximum distance of 5 km from the site boundary. A consistent transect was surveyed (i.e., Transect 1 as indicated in Figure 7.7) focusing on suitable wader breeding habitat west of the site boundary.

During each wading bird survey, the ornithologist walked the predetermined transect route, recording waders and other target species within 100 m of the route onto standardised maps using recommended BTO species codes and behaviour notation (Marchant, 1983). The transect was interspersed with stops, during which the ornithologist scanned for waders using optical equipment. Wading bird surveys were undertaken at suitable times of day and in suitable weather conditions, avoiding extreme temperatures, heavy rain or fog. Full details of survey times, weather conditions and surveyors are provided in Annex B.

2.7 Raptor surveys

Due to their specific ecology, conservation status and potential sensitivity to the project, in addition to the VP and transect surveys (which were suitable for recording various raptor species), targeted surveys were undertaken for barn owl, hen harrier, peregrine and other birds of prey as detailed below. Full survey details are provided in Annex B.

Barn owl

Due to their specific ecology, conservation status and potential sensitivity to the project, targeted surveys were undertaken for barn owl as detailed below.

Based on the suitability of the habitats present within and adjacent to the site for barn owl, a detailed search of all potentially suitable buildings was undertaken within the site and a minimum 100 m buffer on 22nd July 2022 and updated on 9th May 2023 in accordance with best practice survey methods (BirdWatch Ireland, 2021; Lusby *et al.*, 2011).

An initial review identified nine buildings within the site and the survey buffer requiring visual inspection by a suitably experienced ecologist for evidence of barn owl use. These included a site known to be used by barn owl at Ballyegny House (Site 7). Two of these buildings (Site 4b and 8) were located within the site boundary. These buildings, and any with potential to support nesting barn owl, were subject to a detailed visual inspection by a suitably experienced ecologist for evidence of barn owl use. Barn owl evidence searched for included moulted feathers, pellets, feeding remains and whitewash. Any barn owl sightings or evidence of any other notable species was recorded.

Based on the findings of the initial review and field inspections, dusk activity surveys were undertaken to record any barn owl activity (e.g., sightings, calls) and identify any occupied breeding sites and active roost sites. Potential or known barn owl breeding and roosting sites were observed from discrete viewing points (approximately 20-50 m from the site being surveyed) between May and August 2022 inclusive and May, August and October

2023, with surveyors taking care to avoid causing any disturbance to barn owls. Dusk activity surveys were conducted in calm, dry conditions with good visibility, commencing 0-30 minutes before sunset and concluding when the status of the site regarding barn owl use had been established. Any incidental barn owl observations during other survey types were also recorded and mapped.

Hen harrier

Whilst the VP surveys of the site were suitable for recording hen harrier activity within the site, best practice guidance recommends that data for hen harrier should be collected for roosting sites within 2 km of wind farm sites (SNH, 2017). In addition, hen harriers have a maximum foraging range of 10 km (SNH, 2016). Based on these distances, a precautionary approach was adopted, during which potential winter roost sites at Carrigkerry (approximately 6 km west of the site) were subject to specific surveys in reference to best practice hen harrier winter roost survey guidance (O'Donoghue, 2019). No additional areas requiring detailed breeding hen harrier surveys were identified.

Survey visits of these roost sites were undertaken across four survey seasons, including: three visits during the 2022/23 non-breeding season; three visits during the 2023 breeding season; five visits were undertaken during the 2023/24 non-breeding season; and one visit during the 2024/25 non-breeding season. During these surveys, a suitably experienced ornithologist scanned suitable habitat (including potential roost sites) from a suitable vantage point for a period of at least two hours per visit. Any observations of hen harrier or other relevant target species were recorded and mapped.

Peregrine

To provide supplementary information on breeding peregrine activity, breeding peregrine surveys were undertaken in suitable habitat during the 2023 and 2024 breeding seasons. Suitable habitat surveyed included Askeaton Castle (approx. 8km north-west) and Joseph Hogans Quarry (approx. 4 km north). During each visit all observations of peregrines were recorded and mapped, with emphasis on recording evidence of breeding.

Other birds of prey

Whilst the VP surveys of the site were suitable for recording breeding raptor activity within the site, to provide supplementary information on breeding raptor activity in the surrounding landscape, raptor surveys were undertaken in suitable habitat within 2 km of the site during the 2023 and 2024 breeding seasons. Three visits were undertaken between May and July 2023 inclusive whilst two visits were undertaken in May and June 2024 inclusive during which any observations of raptors were recorded and mapped, with emphasis on recording evidence of breeding.

2.8 Constraints and limitations

VP surveys were sometimes carried out in suboptimal weather conditions (i.e., heavy rain, strong winds, poor visibility), during which activity and/or detectability for certain species may have been reduced. As the total survey effort significantly exceeded the survey effort recommended by SNH (with VP data collected during five breeding seasons and five non-breeding seasons), during which the majority of visits were completed in suitable weather

conditions, the survey effort within suitable survey conditions is sufficient to inform this report and subsequent impact assessment. As such, adverse weather conditions did not pose a significant constraint to the findings of the VP surveys.

In accordance with best practice guidance, VP survey effort of six hours per month was achieved for each VP except in September 2022, during which no VP surveys were undertaken. Given that five years of breeding season VP data were collected (exceeding the requirements of best practice guidance), and considering the survey effort achieved during these years, this did not pose a significant constraint to the results of the VP surveys.

Surveys during the breeding season sometimes commenced significantly after dawn. As many species are typically more active around dawn, this could have led to the under-recording of breeding bird activity; particularly for passerines. The target species for this ornithological baseline study were non-passerines, many of which typically exhibit a less marked drop-off in detectability and/or breeding activity after dawn. For those target and non-target species which are particularly active around dawn or at other times of day which were subject to lower survey effort, and may therefore have been under-recorded during field surveys (e.g., barn owl, woodcock), this has been taken into consideration when evaluating the potential importance of the site to these species, with a precautionary approach implemented as necessary.

Due to the placement of VPs and the area of the site, there was significant overlap between VP viewsheds. Where the two VPs were surveyed simultaneously, ornithologists used walkie-talkies to immediately verify sightings and ensure registrations were not duplicated (i.e., to avoid double-counting). As such, these overlapping viewsheds did not adversely affect the validity of the survey findings or any subsequent assessment.

In accordance with best practice guidance for wind farm developments (SNH, 2017), the site was surveyed year-round. To facilitate analysis of site usage by bird species at different times of year, surveys undertaken in October to March inclusive have been broadly categorised as 'non-breeding' surveys, whilst surveys undertaken in April to September inclusive have been broadly categorised as 'breeding' surveys. It is recognised that species differ in their seasonal behaviour patterns, with some species likely to exhibit breeding behaviour outside of April to September inclusive, whilst species present in April to September were not necessarily breeding in the area surveyed. This has been taken into consideration within this report.

Whilst desk study data are useful in providing supplementary ecological information for a site, it should be acknowledged that these data are dependent on the submission of records to the relevant organisation. As such, a lack of records for a particular species does not necessarily mean that the species is absent from the site and/or wider search area. Similarly, records of a particular species do not necessarily mean that the species is still present within the site and/or wider search area.

3.0 DESK STUDY RESULTS

3.1 Designated sites

The desk study identified two SPAs within 20 km of the site boundary, as detailed in Table 3 below. The locations of these internationally designated sites are indicated in Figure 7.25

Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA

The Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA (hereafter referred to as 'Stack's SPA') is a very large site bordered by the counties of Cork, Kerry and Limerick. The site contains many mountains and rivers, with varied upland habitats including blanket bog, heath, coniferous forest and rough grassland.

The site is designated for its nationally important breeding population of hen harrier, with the primary conservation objective for the SPA being to restore the favourable conservation condition of the hen harrier population within the SPA. The 2021 national SPA monitoring report identified 34 confirmed pairs (plus two possible pairs) in 2021, with eight pairs successfully fledging 19 young (Hen Harrier Programme, 2021). This made Stack's SPA the largest population of breeding hen harrier in the Irish SPA network. The 2021 hen harrier breeding figures represented a significant drop in productivity since 2019. Breeding species listed on the SPA citation but not forming qualifying features for its designation include short-eared owl, merlin and red grouse.

River Shannon and River Fergus Estuaries SPA

The River Shannon and River Fergus Estuaries SPA forms the largest estuarine complex in Ireland, with vast expanses of intertidal mudflats providing rich food resources for wintering birds. The salt marsh vegetation present on the mudflats also provides important high tide roost areas. In addition to the Selection Species and additional Special Conservation Interests listed in Table 3, the SPA is of conservation importance for holding an assemblage of over 20,000 wintering waterbirds. The site supports internationally important populations of light-bellied brent goose, dunlin, black-tailed godwit and redshank, and nationally important populations of 17 species including whooper swan, golden plover and bar-tailed godwit.

The conservation objective for the SPA is to maintain favourable conservation conditions for all qualifying species and the wetland habitat as a resource for the regularly occurring migratory waterbirds that use it. Species listed on the SPA citation but not forming qualifying features for SPA designation include mute swan, mallard (*Anas platyrhynchos*), red-breasted merganser (*Mergus serrator*), great crested grebe (*Podiceps cristatus*), grey heron (*Ardea cinerea*), oystercatcher, turnstone (*Arenaria interpres*) and common gull (*Larus canus*).

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Table 3. SPAs within 20 km of the project site

Designated site	Distance from the project site	Selection Species (SS) and Special Conservation Interests (SCIs)
Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA (004161)	3.7 km west of the project wind farm turbines 1.7 km west of Carrons substation (Grid Connection Option A)	<ul style="list-style-type: none"> Hen harrier (<i>Circus cyaneus</i>) [A082] (SS)
River Shannon and River Fergus Estuaries SPA (OO4077)	6.8 km north of the project site	<ul style="list-style-type: none"> Cormorant (<i>Phalacrocorax carbo</i>) [A017] (SS) Whooper swan (<i>Cygnus cygnus</i>) [A038] (SS) Light-bellied brent goose (<i>Branta bernicla hrota</i>) [A046] (SS) Shelduck (<i>Tadorna tadorna</i>) [A048] (SS) Wigeon (<i>Mareca penelope</i>) [A050] (SS) Teal (<i>Anas crecca</i>) [A052] (SS) Pintail (<i>Anas acuta</i>) [A054] (SCI) Shoveler (<i>Spatula clypeata</i>) [A056] (SCI) Scaup (<i>Aythya marila</i>) [A062] (SCI) Ringed plover (<i>Charadrius hiaticula</i>) [A137] (SS) Golden plover (<i>Pluvialis apricaria</i>) [A140] (SS) Grey plover (<i>Pluvialis squatarola</i>) [A141] (SS) Lapwing (<i>Vanellus vanellus</i>) [A142] (SS) Knot (<i>Calidris canutus</i>) [A143] (SS) Dunlin (<i>Calidris alpina</i>) [A149] (SS) Black-tailed godwit (<i>Limosa limosa</i>) [A156] (SS) Bar-tailed godwit (<i>Limosa lapponica</i>) [A157] (SS) Curlew (<i>Numenius arquata</i>) [A160] (SS) Redshank (<i>Tringa totanus</i>) [A162] (SS) Black-headed gull (<i>Chroicocephalus ridibundus</i>) [A179] (SCI) Wetland and waterbirds [A999]

Both of these SPAs are also Important Bird and Biodiversity Areas (IBAs), as summarised in Table 4 below. This designation aims to identify, conserve and protect those areas considered to be of greatest significance to bird populations globally.

Table 4. IBAs within 20 km of the project site

Designated site	Distance from the project site	IBA trigger species	Core foraging range
Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle	3.7 km west of the project wind farm turbines 1.7 km west of Carrons substation (Grid Connection Option A)	Hen harrier	Winter: generally within 1 km Summer: generally within 2 km (up to 10 km)

Designated site	Distance from the project site	IBA trigger species	Core foraging range
River Shannon and River Fergus Estuaries	6.8 km north of the project site	Whooper swan	Winter: within 5 km

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3.2 Protected and notable bird species

Table 5 details specially protected and notable bird species records from the Irish Bird Atlas for hectads R24 and R34, including the site and surrounding land (Balmer *et al.*, 2013). Records were obtained for species of conservation concern due to their decline over recent years, species afforded additional protection under national and/or international legislation, and species relevant to the designated sites described in Section 3.1.

Table 5. Protected and notable bird species recorded within hectads R24 and R34 in 2007-2011

Species	Wintering	Breeding	Conservation status
Bar-tailed godwit	Present	Confirmed	BoCCI Red listed / Birds Directive – Annex I / Wildlife Acts / SS
Black-headed gull	Present	Confirmed	BoCCI Amber listed / Wildlife Acts / SCI
Dunlin	Present	Not recorded	BoCCI Red listed / Birds Directive – Annex I / Wildlife Acts / SS
Hen harrier	Present	Confirmed	BoCCI Amber listed / Birds Directive – Annex I / Wildlife Acts / SS
Herring gull	Present	Not recorded	BoCCI Amber listed / Wildlife Acts
Kestrel	Present	Confirmed	BoCCI Red listed / Wildlife Acts
Kingfisher	Absent	Possible	BoCCI Amber listed / Birds Directive – Annex I / Wildlife Acts
Little egret	Present	Not recorded	BoCCI Green listed / Birds Directive – Annex I / Wildlife Acts
Merlin	Present	Not recorded	BoCCI Amber listed / Birds Directive – Annex I / Wildlife Acts
Peregrine	Present	Possible	BoCCI Green listed / Birds Directive – Annex I / Wildlife Acts
Redshank	Present	Possible	BoCCI Red listed / Wildlife Acts / SS
Whooper swan	Present	Not recorded	BoCCI Amber listed / Birds Directive – Annex I / Wildlife Acts / SS
Yellowhammer	Present	Not recorded	BoCCI Red listed / Wildlife Acts

Data obtained from NPWS in 2023 identified relevant records of additional specially protected and notable bird species during the last ten years³; notably:

- Hen harrier: two confirmed breeding sites in hectad R24 within Stack’s SPA in 2015; and
- Peregrine: one occupied nest site in hectad R24 within 5 km of the project site, and one unoccupied nest site in hectad R23 located 5-10 km from the project site, both recorded in 2017.

³ Obtained via email from Jochen Roller, National Parks & Wildlife Service (23/08/2023).

A review of I-WeBS data identified two relevant subsites of the River Deel: Reen's Bridge (nr. Coolanoran) (c.3.8 km south-east of the project site), and Doohyle Lough (c.5.8 km east of the project site). Whilst peak counts were not published for specific sub-sites, 13 waterbird species were recorded in the River Deel I-WeBS site in 2012/13 including teal (peak count: 180), lapwing (2,600), curlew (240) and black-headed gull (150).

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4.0 VANTAGE POINT SURVEY RESULTS

The results of the VP surveys undertaken during the breeding and non-breeding seasons between 2020 and 2025 inclusive are described below. Detailed survey data are provided in Annex C.

4.1 Breeding season

A total of 57 species were recorded during the breeding VP surveys undertaken in 2020, 2021, 2022, 2023 and 2024, including 14 target species. Survey results are described below, including detailed accounts for target species recorded in flight.

2020

A total of 45 species were recorded during the VP surveys undertaken between April and September 2020 inclusive. These were largely common and widespread non-target species, but did include target species and species of conservation concern in Ireland. Peak counts⁴ for specially protected and notable non-target species recorded are provided in Table 6 below.

Table 6. VP survey peak counts for non-target species during the 2020 breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	2	BoCCI Amber listed
House martin	<i>Delichon urbicum</i>	8	BoCCI Amber listed
House sparrow	<i>Passer domesticus</i>	4	BoCCI Amber listed
Linnet	<i>Linaria cannabina</i>	15	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	6	BoCCI Red listed
Skylark	<i>Alauda arvensis</i>	1	BoCCI Amber listed
Starling	<i>Sturnus vulgaris</i>	16	BoCCI Amber listed
Stock dove	<i>Columba oenas</i>	1	BoCCI Amber listed
Swallow	<i>Hirundo rustica</i>	26	BoCCI Amber listed
Willow warbler	<i>Phylloscopus trochilus</i>	2	BoCCI Red listed

The 45 species recorded included flight activity by eight target species. Peak counts and flight activity for these species are summarised in Table 7 and Table 8 below. Flight lines recorded for target species are indicated in Figure 7.5a.

⁴ To avoid generating falsely high estimates of species' population sizes through likely double-counting of birds, 'peak counts' used denote the maximum number of individuals of a given species recorded during one survey of a single VP location.

Table 7. VP flight activity summary for target species during the 2020 breeding season

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Buzzard	4	8	1,142	BoCCI Green listed / Wildlife Acts
Great black-backed gull	3	2	213	BoCCI Green listed / Wildlife Acts
Grey heron	1	2	92	BoCCI Green listed / Wildlife Acts
Herring gull	2	3	131	BoCCI Amber listed / Wildlife Acts
Kestrel	1	11	1,655	BoCCI Red listed / Wildlife Acts
Lesser black-backed gull	1	1	13	BoCCI Amber listed / Wildlife Acts
Little egret	1	3	595	Annex I EU Birds Directive / BoCCI Green listed / Wildlife Acts
Sparrowhawk	2	3	136	BoCCI Amber listed / Wildlife Acts

Table 8. Flight activity by target species during the 2020 breeding VP surveys

Species	Description of activity
Buzzard	Eight observations recorded (four from each VP), including observations of up to four birds simultaneously. The longest observation was of one buzzard circling above 180 m for 337 seconds on 16 th April. Activity was generally west of the site boundary, with some flights into the western portion of the site.
Great black-backed gull	Observed twice from VP1 in May. The longest observation was of two flying from the north of the site at approximately 40-50 m for 191 seconds. Both observations were of birds flying south-westwards, west of the site boundary.
Grey heron	Observed twice from VP2 in April, including a bird on the bank of the Ahacronane river. Both observations were north-west of the site boundary.
Herring gull	Three observations from VP1 on 25 th May, all of birds flying over improved grassland west of the site boundary at heights of 0-180 m.
Kestrel	The most frequently recorded target species with 11 observations recorded. The longest observation was of one flying and perching for a combined 389 seconds from VP2 on 19 th May. Most observations were west and north of the site boundary, although one observation was of a bird flying south-eastwards into the site.
Lesser black-backed gull	One observed flying over a hedgerow west of the site boundary at a height of 0-20 m on 22 nd May.
Little egret	Three observations from VP2 in May, with birds observed north and west of the site boundary. The longest observation was of one landing before foraging along a watercourse and taking off, for a combined 453 seconds, on 22 nd May.
Sparrowhawk	Four observations from VP1 across February, April and May. Observed flying and hunting over improved grassland at 0-50 m west of the site boundary.

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2021

A total of 45 species were recorded during the VP surveys undertaken between April and September 2021 inclusive. These were largely common and widespread non-target species, but did include various target species and species of conservation concern in Ireland. Peak counts for specially protected and notable non-target species recorded are provided in Table 9 below.

Table 9. VP survey peak counts for non-target species during the 2021 breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	2	BoCCI Amber listed
Greenfinch	<i>Chloris chloris</i>	2	BoCCI Amber listed
House martin	<i>Delichon urbicum</i>	3	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	6	BoCCI Red listed
Starling	<i>Sturnus vulgaris</i>	74	BoCCI Amber listed
Swallow	<i>Hirundo rustica</i>	20	BoCCI Amber listed
Swift	<i>Apus apus</i>	6	BoCCI Red listed
Willow warbler	<i>Phylloscopus trochilus</i>	1	BoCCI Amber listed

The 45 species recorded included flight activity by ten target species. Peak counts and flight activity for these species are summarised in Table 10 and Table 11 below. Flight lines recorded for target species are indicated in Figure 7.5b.

Table 10. VP flight activity summary for target species during the 2021 breeding season

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Black-headed gull	1	1	60	BoCCI Amber listed / Wildlife Acts / SCI
Buzzard	2	8	970	BoCCI Green listed / Wildlife Acts
Common gull	4	2	70	BoCCI Amber listed / Wildlife Acts
Cormorant	2	1	55	BoCCI Amber listed / Wildlife Acts / SS
Curlew	1	1	22	BoCCI Red listed / Wildlife Acts / SS
Great black-backed gull	4	5	500	BoCCI Green listed / Wildlife Acts
Herring gull	4	1	120	BoCCI Amber listed / Wildlife Acts
Kestrel	2	18	1,244	BoCCI Red listed / Wildlife Acts
Lesser black-backed gull	4	4	75	BoCCI Amber listed / Wildlife Acts
Little egret	3	4	340	Annex I EU Birds Directive / BoCCI Green listed / Wildlife Acts

Table 11. Flight activity by target species during the 2021 breeding VP surveys

Species	Description of activity
Black-headed gull	One immature bird observed from VP1 flying eastwards over improved grassland west of the site boundary at 150 m for 60 seconds in April.
Buzzard	Eight observations across April, June and July, with four observations from each VP. Observations were of one or two birds soaring and circling over improved grassland, with activity concentrated north-west of the site boundary.
Common gull	Two observations from VP1 in June, one of two birds and one of four birds, all flying over improved grassland west of the site boundary.
Cormorant	Two observed flying southwards over improved grassland and woodland at 15 m for 55 seconds from VP2 in April, north of the site boundary.
Curlew	One observed flying north-westwards for 22 seconds over improved grassland north of the site boundary at a height of 40-50 m in July.
Great black-backed gull	Five observations in April, with the largest group observed numbering four birds flying south-east over improved grassland at 50 m for 40 seconds from VP2. Observed towards the north-west of the site and west of the site boundary.
Herring gull	One group of four juveniles observed from VP1 in May flying south-east over improved grassland west of the site boundary at a height of 80 m for 120 seconds.
Kestrel	The most frequently recorded target species, with 18 observations. Recorded in all months except August and September. Observed flying, circling, hunting, perching and soaring, with flight height ranging from 15-60 m. Typically observed west of the site boundary, although one was observed flying over the north of the site. Included at least one adult male and one adult female.
Lesser black-backed gull	Four observations from VP1 and VP2, flying over improved grassland west and north of the site boundary at heights of 25-200 m. Groups numbered one to three birds.
Little egret	Three observations of individual birds flying over improved grassland west and north of the site boundary at heights of 50-70 m.

2022

A total of 33 species were recorded during the VP surveys undertaken between April and September 2022 inclusive. These were largely common and widespread non-target species, but did include several target species and species of conservation concern in Ireland. Peak counts for specially protected and notable non-target species recorded are provided in Table 12 below. Certain common non-target species were also recorded in relatively high numbers; namely rook (*Corvus frugilegus*) (peak count of 350).

Table 12. VP survey peak counts for non-target species during the 2022 breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	12	BoCCI Amber listed
Greenfinch	<i>Chloris chloris</i>	3	BoCCI Amber listed
House sparrow	<i>Passer domesticus</i>	6	BoCCI Amber listed

Common name	Scientific name	Peak count	Conservation status
Linnet	<i>Linaria cannabina</i>	8	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	24	BoCCI Red listed
Skylark	<i>Alauda arvensis</i>	4	BoCCI Amber listed
Starling	<i>Sturnus vulgaris</i>	250	BoCCI Amber listed
Swallow	<i>Hirundo rustica</i>	120	BoCCI Amber listed
Willow warbler	<i>Phylloscopus trochilus</i>	6	BoCCI Amber listed

The 33 species recorded included flight activity by three target species. Peak counts and flight activity for these species are summarised in Table 13 and Table 14 below. Flight lines recorded for target species are indicated in Figure 7.5c.

Table 13. VP flight activity summary for target species during the 2022 breeding season

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Buzzard	3	12	4,603	BoCCI Green listed / Wildlife Acts
Herring gull	3	2	131	BoCCI Amber listed / Wildlife Acts
Kestrel	2	16	1,958	BoCCI Red listed / Wildlife Acts

Table 14. Flight activity by target species during the 2022 breeding VP surveys

Species	Description of activity
Buzzard	12 observations recorded, including observations in each month surveyed. Eight observations from VP1 and four observations from VP2. Observed flying over improved grassland, with soaring, circling and perching behaviour observed. Activity was recorded west of the site boundary and towards the north-west of the site. The longest observation was of a buzzard flying at 100-200 m for 1,320 seconds.
Herring gull	Three observations recorded, all of one or two birds flying over improved grassland from VP1.
Kestrel	16 observations recorded, including observations in each month surveyed. Observed from VP1 and VP2, with at least one adult male and one adult female observed perching, flying over and hunting in improved grassland. Observations included one possible nest location outside of the site boundary recorded on 20 th July. Activity was observed north and west of the site boundary.

2023

A total of 47 species were recorded during the VP surveys undertaken between April and September 2023 inclusive. These were largely common and widespread non-target species but did include several target species and species of conservation concern in Ireland. Peak counts for specially protected and notable non-target species recorded are provided in Table 15 below.

Table 15. VP survey peak counts for non-target species during the 2023 breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	1	BoCCI Amber listed
Greenfinch	<i>Chloris chloris</i>	4	BoCCI Amber listed
Grey wagtail	<i>Motacilla cinerea</i>	1	BoCCI Red listed
House martin	<i>Delichon urbicum</i>	1	BoCCI Amber listed
Linnet	<i>Linaria cannabina</i>	14	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	24	BoCCI Red listed
Starling	<i>Sturnus vulgaris</i>	106	BoCCI Amber listed
Stock dove	<i>Columbus oenas</i>	4	BoCCI Red listed
Swallow	<i>Hirundo rustica</i>	229	BoCCI Amber listed
Swift	<i>Apus apus</i>	8	BoCCI Red listed
Wheatear	<i>Oenanthe oenanthe</i>	1	BoCCI Amber listed
Willow warbler	<i>Phylloscopus trochilus</i>	2	BoCCI Amber listed

The 47 species recorded included flight activity by ten target species. Peak counts and flight activity for these species are summarised in Table 16 and Table 17 below. Flight lines recorded for target species are indicated in Figure 7.5d.

Table 16. VP flight activity summary for target species during the 2023 breeding season

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Black-headed gull	3	1	11	BoCCI Red listed / Wildlife Acts
Buzzard	2	7	728	BoCCI Green listed / Wildlife Acts
Cormorant	1	2	20	BoCCI Amber listed / Wildlife Acts
Grey heron	1	2	51	BoCCI Green listed / Wildlife Acts
Kestrel	1	19	1,536	BoCCI Red listed / Wildlife Acts
Lesser black-backed gull	5	21	2,944	BoCCI Amber listed / Wildlife Acts
Little egret	1	2	137	BoCCI Green listed / Wildlife Acts
Snipe	4	3	73	BoCCI Amber listed / Wildlife Acts
Sparrowhawk	1	3	21	BoCCI Amber listed / Wildlife Acts
Whimbrel	20	2	39	BoCCI Green listed / Wildlife Acts

Table 17. Flight activity by target species during the 2023 breeding VP surveys

Species	Description of activity
Black-headed gull	Three observed from VP2 flying north-westwards for 11 seconds over improved grassland north of the site boundary at a height of 50-100 m in September.
Buzzard	Seven observations recorded between April and June. Observed from VP1 and VP2, Birds were observed perching, flying over and hunting in improved grassland. Activity

Species	Description of activity
	was observed west of the site boundary. The longest observation was a bird hunting between 50-100 m for 358 seconds.
Cormorant	Two observations were recorded on 15 th September 2023 from VP1 to the south-west of the site flying north-west and south-east respectively between 20-50 m for a total of 20 seconds.
Grey heron	Two observations of individual birds flying west 0-50 m over improved grassland north and west of the site were recorded in July and August from VP2 and VP1 respectively for a total duration of 51 seconds.
Kestrel	19 observations were recorded in all survey months. Observed flying, hunting and soaring, with flight height ranging from 0-200 m. Typically observed north and west of the site boundary, although two observations were made flying through the centre of the site.
Lesser black-backed gull	The second most frequently recorded target species with 19 observations recorded including observations in all months. Observed flying, hunting and soaring, with flight height ranging from 0-200 m and a total flight duration of 1,536 seconds. Typically observed north and west of the site boundary, although two observations were of birds flying through the centre of the site.
Little egret	Two observations were recorded on 2 nd May 2023 from VP1 and VP2 with individual birds flying between 0-100 m high over wet grassland south-west of the site for a total duration of 137 seconds.
Snipe	Three observations recorded in July and September from VP1 and VP2. 3-4 individuals were recorded flying between 20-100 m north and south-west of the site for a total duration of 73 seconds. These observations and interactions included display flights suggesting the presence of a breeding territory in grassland c.150 m west of the site boundary.
Sparrowhawk	Three observations recorded in May, July and August from VP2. Observed flying, hunting and perching, with flight height ranging from 0-100 m. In August one juvenile was recorded perching on a gate north of the site before flying east.
Whimbrel	Two observations recorded in May from VP2 of groups of 10 and 20 birds flying between 20 and 100 m west of the site for a total duration of 39 seconds.

2024

A total of 53 species were recorded during the VP surveys undertaken between April and September 2024 inclusive. These were largely common and widespread non-target species, but did include several target species and species of conservation concern in Ireland. Peak counts for specially protected and notable non-target species recorded are provided in Table 18 below.

Table 18. VP survey peak counts for non-target species during the 2024 breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	2	BoCCI Amber listed
Greenfinch	<i>Chloris chloris</i>	5	BoCCI Amber listed
Grey wagtail	<i>Motacilla cinerea</i>	3	BoCCI Red listed
House martin	<i>Delichon urbicum</i>	9	BoCCI Amber listed
House sparrow	<i>Passer domesticus</i>	3	BoCCI Amber listed
Linnet	<i>Linaria cannabina</i>	4	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	11	BoCCI Red listed

Common name	Scientific name	Peak count	Conservation status
Sand martin	<i>Riparia riparia</i>	1	BoCCI Amber listed
Skylark	<i>Alauda arvensis</i>	3	BoCCI Amber listed
Starling	<i>Stumus vulgaris</i>	82	BoCCI Amber listed
Stock dove	<i>Columbus oenas</i>	3	BoCCI Red listed
Swift	<i>Apus apus</i>	5	BoCCI Red listed
Willow warbler	<i>Phylloscopus trochilus</i>	3	BoCCI Amber listed

The 53 species recorded included flight activity by 12 target species. Peak counts and flight activity for these species are summarised in Table 19 and Table 20 below. Flight lines recorded for target species are indicated in Figure 7.5e.

Table 19. VP flight activity summary for target species during the 2024 breeding season

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Black-headed gull	2	1	126	BoCCI Red listed / Wildlife Acts
Buzzard	8	27	10,680	BoCCI Green listed / Wildlife Acts
Cormorant	1	1	49	BoCCI Amber listed / Wildlife Acts
Grey heron	1	1	42	BoCCI Green listed / Wildlife Acts
Kestrel	3	14	1,906	BoCCI Red listed / Wildlife Acts
Lesser black-backed gull	39	39	3,317	BoCCI Amber listed / Wildlife Acts
Little egret	1	1	23	BoCCI Green listed / Wildlife Acts
Mallard	6	6	211	BoCCI Green listed / Wildlife Acts
Mute swan	1	1	140	BoCCI Amber listed / Wildlife Acts
Peregrine	1	2	225	Annex I EU Birds Directive / BoCCI Green listed / Wildlife Acts
Sparrowhawk	2	2	30	BoCCI Amber listed / Wildlife Acts
Whimbrel	2	2	10	BoCCI Green listed / Wildlife Acts

Table 20. Flight activity by target species during the 2024 breeding VP surveys

Species	Description of activity
Black-headed gull	One observation of three birds from VP2 flying westwards for 11 seconds over improved grassland north of the site boundary at a height of 50-100 m in September.
Buzzard	27 observations of between 1-2 birds hunting, flying and commuting from VP1 and VP2. Birds were observed west of the site boundary primarily over improved grassland for a total of 10,680 seconds between April - June.
Cormorant	Two observations from VP1 of individual birds commuting south-west of the site in September for 49 seconds between 20-50 m.
Grey heron	One observation of an individual bird was recorded south-west of the site flying south-east over improved grassland from VP1 and between 0-20 m for 42 seconds in April.

Species	Description of activity
Kestrel	19 observations from VP1 and VP2 across the entire survey period of birds flying, hunting and commuting over improved grassland. Birds were observed flying to the north, west and south of the site boundary and within the site for a total of 1,906 seconds.
Lesser black-backed gull	39 observations of individuals and small flocks recorded across the majority of the survey period with no birds observed in May. Birds were observed flying, commuting and circling over improved grassland predominantly to the west and south of the site whilst similar activity was observed within the site boundary. Between 1-5 birds were recorded between 0-180 m with total flight seconds of 3,317 seconds.
Little egret	One observation of an individual bird was recorded flying north-west over improved grassland at between 0-20 m for a total of 23 seconds south-west of the site boundary in April.
Mallard	Six observations of individual birds and small flocks were recorded commuting north and south with the majority of the activity to the south-west of the site over VP1. One of the observations was of an individual bird in April flying west within the site boundary. Birds were observed flying over improved grassland between 0-50 m in April, May and predominantly August.
Mute swan	One observation of an individual bird was recorded south-west of the site flying east over improved grassland from VP1 at between 0-20 m for 140 seconds in April.
Peregrine	Two observations from VP1 of individual birds recorded flying east from VP1 at between 50-180 m over improved grassland for 225 seconds within the site boundary in April and May.
Sparrowhawk	Two observations from VP1 and VP2 of individual birds flying west at between 0-50 m over improved grassland for 30 seconds within the site boundary in April.
Whimbrel	Two observations from VP2 of individual birds flying south at between 0-20 m over improved grassland for 10 seconds north of the site in May.

4.2 Non-breeding season

A total of 63 species were recorded during the non-breeding VP surveys in 2020/21, 2021/22, 2022/23, 2023/24 and 2024/25 including 22 target species. Survey results are described below, including detailed accounts for target species recorded in flight.

2020/21

A total of 39 species were recorded during the VP surveys undertaken between October 2020 and March 2021 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. Peak counts for specially protected and notable non-target species recorded are provided in Table 21 below.

Table 21. VP survey peak counts for non-target species during the 2020/21 non-breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	1	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	40	BoCCI Red listed
Redwing	<i>Turdus iliacus</i>	22	BoCCI Red listed
Starling	<i>Sturnus vulgaris</i>	45	BoCCI Amber listed
Swallow	<i>Hirundo rustica</i>	5	BoCCI Amber listed

The 39 species recorded included flight activity by nine target species. Peak counts and flight activity for these species are summarised in Table 22 and Table 23 below. Flight lines recorded for target species are indicated in Figure 7.6a.

Table 22. VP flight activity summary for target species during 2020/21 non-breeding season

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Black-headed gull	120	13	158	BoCCI Amber listed / Wildlife Acts / SCI
Buzzard	1	4	120	BoCCI Green listed / Wildlife Acts
Common gull	200	3	195	BoCCI Amber listed / Wildlife Acts
Herring gull	30	2	8	BoCCI Amber listed / Wildlife Acts
Kestrel	1	4	205	BoCCI Red listed / Wildlife Acts
Lesser black-backed gull	48	9	185	BoCCI Amber listed / Wildlife Acts
Little egret	3	9	1,257	Annex I EU Birds Directive / BoCCI Green listed / Wildlife Acts
Mallard	1	1	5	BoCCI Amber listed / Wildlife Acts
Sparrowhawk	1	2	16	BoCCI Amber listed / Wildlife Acts

Table 23. Flight activity by target species during the 2020/21 non-breeding VP surveys

Species	Description of activity
Black-headed gull	The most frequently recorded target species, with 13 observations comprising ten in December and one each in November, January and February. Most observations from VP1 of birds flying over and/or loafing on the ground, with the largest flock numbering 120 birds. Activity was typically observed north and west of the site boundary, with some activity observed towards the south-west corner of the site.
Buzzard	Four observations comprising three observations from VP2 and one observation from VP1. All of individual adults soaring and circling over hedgerows, wet grassland and scrub, with the longest observation lasting 81 seconds. Activity was observed towards the north of the site and north of the site boundary.
Common gull	Three observations from VP2 of birds flying over improved grassland including flocks of 200 and 50 birds at 20 m to over 100 m. Observed flying over and outside the site boundary.
Herring gull	Two observations from VP1 in February comprising flocks of 50 and 30 birds flying over improved grassland and bog. Observed flying eastwards over the centre of the site, and south-west of the site boundary.
Kestrel	Four observations across December to January comprising three observations from VP1 and one observation from VP2. At least one adult female and one unsexed adult observed perching, flying over, hunting and feeding in improved grassland and along hedgerows. Observations were north and south-west of the site boundary.
Lesser black-backed gull	Nine observations across January to March, predominantly of flocks flying over improved grassland, with the largest flock numbering 50 birds. Generally observed flying south-east, including birds flying over the site.

Species	Description of activity
Little egret	Nine observations across November to February, eight of which were from VP2. Observations were of between one and three birds flying over and hunting in improved and wet grassland. Generally recorded north-west of the site boundary.
Mallard	One male observed from VP2 in March, flying west over improved grassland north of the site boundary at a height of 15 m.
Sparrowhawk	Two observations comprising one from each VP1, with one adult female and one unsexed adult recorded. Birds were observed flying low over improved grassland, including one being mobbed by a hooded crow. Observed north and west of the site boundary.

2021/22

A total of 36 species were recorded during the VP surveys undertaken between October 2021 and March 2022 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. Peak counts for specially protected and notable non-target species recorded are provided in Table 24 below. Certain common non-target species were also recorded in relatively high numbers; namely rook (peak count of 350).

Table 24. VP survey peak counts for non-target species during the 2021/22 non-breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	8	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	25	BoCCI Red listed
Redwing	<i>Turdus iliacus</i>	300	BoCCI Red listed
Snipe	<i>Gallinago gallinago</i>	3	BoCCI Red listed
Starling	<i>Sturnus vulgaris</i>	300	BoCCI Amber listed

The 36 species recorded included flight activity by eight target species. Peak counts and flight activity for these species are summarised in Table 25 and Table 26 below. Flight lines recorded for target species are indicated in Figure 7.6b.

Table 25. VP flight activity summary for target species during 2021/22 non-breeding season

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Black-headed gull	200	13	1,055	BoCCI Amber listed / Wildlife Acts / SCI
Buzzard	4	6	1,669	BoCCI Green listed / Wildlife Acts
Kestrel	1	14	3,682	BoCCI Red listed / Wildlife Acts
Lesser black-backed gull	62	5	649	BoCCI Amber listed / Wildlife Acts
Little egret	2	2	70	Annex I EU Birds Directive / BoCCI Green listed / Wildlife Acts
Snipe	3	1	70	BoCCI Red listed / Wildlife Acts

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Sparrowhawk	1	3	552	BoCCI Amber listed / Wildlife Acts
Whooper swan	1	1	40	Annex I EU Birds Directive / BoCCI Amber listed / Wildlife Acts / SS

Table 26. Flight activity by target species during the 2021/22 non-breeding VP surveys

Species	Description of activity
Black-headed gull	13 observations including observations from both VPs between October and March. Flocks of up to 200 birds observed flying over and circling improved grassland north-west and west of site boundary; occasionally around the north-west corner of the site.
Buzzard	Six observations (four from VP2, two from VP1). Observations were of one to four adults circling and soaring, including one flying for 1,080 seconds. Observed around the north-west corner of the site and west of the site boundary.
Kestrel	The most frequently encountered target species, with 14 observations recorded throughout the non-breeding season. Observed frequently from both VPs, with observations of birds hunting over grassland including at least one adult male, one adult female and one juvenile male. The longest observation was of an adult female hunting and hovering for 900 seconds. Observed north and west of the site boundary.
Lesser black-backed gull	Five observations (three from VP1, two from VP2). Observations were of 2-62 birds flying over improved grassland near the site's north-west corner and west of the site.
Little egret	Two observations, both of two adults flying over improved and rough grassland north of the site boundary in March at a height of 30 m for 28 and 42 seconds.
Snipe	Three observed circling and landing in improved grassland and scrub west of the site boundary in November.
Sparrowhawk	Three observations (two from VP1, one from VP2) of at least one adult female flying and soaring around the north-west corner of the site and west of the site boundary in November to January.
Whooper swan	One observed from VP1 flying over improved grassland c. 400 m west of the site boundary in November at a height of 80 m for 40 seconds.

2022/23

A total of 45 species were recorded during the VP surveys undertaken between October 2022 and March 2023 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. Peak counts for specially protected and notable non-target species recorded are provided in Table 27 below.

Table 27. VP survey peak counts for non-target species during the 2022/23 non-breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	5	BoCCI Amber listed
Grey wagtail	<i>Motacilla cinerea</i>	1	BoCCI Red listed
Linnet	<i>Linaria cannabina</i>	6	BoCCI Amber listed

Meadow pipit	<i>Anthus pratensis</i>	9	BoCCI Red listed
Redwing	<i>Turdus iliacus</i>	90	BoCCI Red listed
Skylark	<i>Alauda arvensis</i>	1	BoCCI Amber listed
Starling	<i>Sturnus vulgaris</i>	149	BoCCI Amber listed
Stock dove	<i>Columba oenas</i>	1	BoCCI Red listed

The 45 species recorded included flight activity by nine target species. Peak counts and flight activity for these species are summarised in Table 28 and Table 29 below. Flight lines recorded for target species are indicated in Figure 7.6c.

Table 28. VP flight activity summary for target species during 2022/23 non-breeding season

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Black-headed gull	60	11	147	BoCCI Amber listed / Wildlife Acts / SCI
Buzzard	1	6	379	BoCCI Green listed / Wildlife Acts
Great black-backed gull	1	2	36	BoCCI Green listed / Wildlife Acts
Hen harrier	1	1	33	Annex I EU Birds Directive / BoCCI Amber listed / Wildlife Acts / SS
Kestrel	1	4	40	BoCCI Red listed / Wildlife Acts
Little egret	8	5	43	Annex I EU Birds Directive / BoCCI Green listed / Wildlife Acts
Mallard	2	2	28	BoCCI Amber listed / Wildlife Acts
Peregrine	1	1	40	Annex I EU Birds Directive / BoCCI Green listed / Wildlife Acts
Sparrowhawk	1	7	169	BoCCI Amber listed / Wildlife Acts

Table 29. Flight activity by target species during the 2022/23 non-breeding VP surveys

Species	Description of activity
Black-headed gull	Flocks of 1-60 birds observed flying over the site and feeding in grassland to the north and east of the site.
Buzzard	Six observations of birds flying, soaring and circling over the site and within 500 m of the site.
Great black-backed gull	Two observations of individual birds flying away from the site for a combined 36 seconds.
Hen harrier	One observation of a single bird flying c. 80 m north of the site boundary in March, hunting and travelling westwards for 33 seconds over improved grassland.
Kestrel	Four observations of individual birds hunting, flying over and perching in improved and rough grassland.
Little egret	Five observations mostly comprising individual birds flying over outside of the site boundary. One flock of eight observed landing on site in December.
Mallard	Two observations of one to two birds flying over the site in February and March.
Peregrine	One observation of a single bird perching on a pole north of the site before flying south through the site in December 2022.
Sparrowhawk	Seven observations of individual birds hunting and circling over the site.

2023/24

A total of 50 species were recorded during the VP surveys undertaken between October 2023 and March 2024 inclusive. These were largely common and widespread non-target species but did include several target species and species of conservation concern in Ireland. Peak counts for specially protected and notable non-target species recorded are provided in Table 30 below.

Table 30. VP survey peak counts for non-target species during the 2023/24 non-breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	3	BoCCI Amber listed
Greenfinch	<i>Chloris chloris</i>	6	BoCCI Amber listed
Grey wagtail	<i>Motacilla cinerea</i>	3	BoCCI Red listed
House sparrow	<i>Passer domesticus</i>	2	BoCCI Amber listed
Linnet	<i>Linaria cannabina</i>	3	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	41	BoCCI Red listed
Redwing	<i>Turdus iliacus</i>	69	BoCCI Red listed
Skylark	<i>Alauda arvensis</i>	1	BoCCI Amber listed
Starling	<i>Sturnus vulgaris</i>	80	BoCCI Amber listed
Stock dove	<i>Columbus oenas</i>	1	BoCCI Red listed

The 50 species recorded included flight activity by 14 target species. Peak counts and flight activity for these species are summarised in Table 31 and Table 32. Flight lines recorded for target species are indicated in Figure 7.5d.

Table 31. VP flight activity summary for target species during the 2023-24 non-breeding season

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Black-headed gull	94	6	1,190	BoCCI Red listed / Wildlife Acts
Buzzard	4	17	606	BoCCI Green listed / Wildlife Acts
Common gull	44	6	1,222	BoCCI Amber listed / Wildlife Acts
Cormorant	1	1	17	BoCCI Amber listed / Wildlife Acts
Curlew	1	1	15	BoCCI Red listed / Wildlife Acts
Golden plover	36	2	72	Annex I EU Birds Directive / BoCCI Red listed / Wildlife Acts
Great white egret	1	1	27	BoCCI Green listed / Wildlife Acts
Kestrel	5	13	635	BoCCI Red listed / Wildlife Acts
Lesser black-backed gull	43	8	268	BoCCI Amber listed / Wildlife Acts
Little egret	4	2	83	BoCCI Green listed / Wildlife Acts
Mallard	13	6	152	BoCCI Green listed / Wildlife Acts
Mute swan	3	2	0	BoCCI Amber listed / Wildlife Acts
Snipe	3	5	73	BoCCI Amber listed / Wildlife Acts
Sparrowhawk	3	5	157	BoCCI Amber listed / Wildlife Acts

Table 32. Flight activity by target species during the 2023-24 non-breeding VP surveys

Species	Description of activity
Black-headed gull	Six observations of small (2 – 6 birds) and large (20 – 72 birds) flocks observed infrequently flying over the site and primarily flying over grassland south of the site.
Buzzard	Seventeen observations of between 1-2 birds occasionally recorded perched, hunting or flying over the site and over grassland south of the site.
Common gull	Six observations of an individual birds, small flocks (3 – 5 birds) and larger flocks (14 – 26 birds) flying over grassland and hedgerows south-west, north and within the site over grassland and hedgerows.
Cormorant	One observation of an individual bird flying over grassland and hedgerows north of the site between 20-50m.
Curlew	One observation of an individual bird flying over grassland, access tracks and hedgerows south-west of the site between 20-50m in February 2024.
Golden plover	Two observations of flocks (24 and 36 birds) flying over grassland within the site between 20-50m in December 2023 and January 2024.
Great white egret	One observation of an individual bird flying over grassland, access tracks and hedgerows into the site between 20-50m in March 2024.

Species	Description of activity
Kestrel	Thirteen observations of individual birds flying, commuting and foraging over grassland north, south-west and within the site.
Lesser black-backed gull	Eight observations of individual birds, small flocks (2 – 8 birds) and large flocks (40 birds) flying over grassland north, south-west and within the site.
Little egret	Two observations of small flocks (3 and 4 birds) flying over grassland south-west and within the Site.
Mallard	Six observations of individual birds and flocks (2 – 10 birds) flying over grassland and hedgerows north, south-west and within the site.
Mute swan	Two observations of individual birds and a small flock (3 birds) flying over grassland south-west of the site.
Snipe	Five observations of between 1 – 2 birds flying and calling over grassland north and south-west of the site.
Sparrowhawk	Five observations of between 1 – 2 birds flying and hunting over grassland south-west and within the site.

2024/25

A total of 46 species were recorded during the VP surveys undertaken between October 2024 and March 2025 inclusive. These were largely common and widespread non-target species but did include several target species and species of conservation concern in Ireland. Peak counts for specially protected and notable non-target species recorded are provided in Table 33 below.

Table 33. VP survey peak counts for non-target species during the 2024-25 non-breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	3	BoCCI Amber listed
Greenfinch	<i>Chloris chloris</i>	2	BoCCI Amber listed
Grey wagtail	<i>Motacilla cinerea</i>	2	BoCCI Red listed
House martin	<i>Delichon urbicum</i>	6	BoCCI Amber listed
House sparrow	<i>Passer domesticus</i>	8	BoCCI Amber listed
Linnet	<i>Linaria cannabina</i>	4	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	22	BoCCI Red listed
Redwing	<i>Turdus iliacus</i>	169	BoCCI Red listed
Starling	<i>Sturnus vulgaris</i>	126	BoCCI Amber listed
Stonechat	<i>Saxicola rubicola</i>	4	BoCCI Amber listed
Swallow	<i>Hirundo rustica</i>	28	BoCCI Amber listed

The 46 species recorded included flight activity by 13 target species. Peak counts and flight activity for these species are summarised in Table 34 and Table 35 below. Flight lines recorded for target species are indicated in Figure 7.5e.

Table 34. VP flight activity summary for target species during the 2024/25 non-breeding season

Species	Peak count	Total no. of observations	Total flight time (seconds)	Conservation status
Black-headed gull	372	25	32,247	BoCCI Red listed / Wildlife Acts
Buzzard	4	15	1,523	BoCCI Green listed / Wildlife Acts
Common gull	2	1	26	BoCCI Amber listed / Wildlife Acts
Cormorant	1	1	39	BoCCI Amber listed / Wildlife Acts
Grey heron	1	2	12	BoCCI Green listed / Wildlife Acts
Kestrel	3	8	2,488	BoCCI Red listed / Wildlife Acts
Lapwing	12	2	246	BoCCI Red listed / Wildlife Acts
Lesser black-backed gull	37	23	4,645	BoCCI Amber listed / Wildlife Acts
Little egret	4	13	356	Annex I EU Birds Directive / BoCCI Green listed / Wildlife Acts
Mallard	2	2	146	BoCCI Amber listed / Wildlife Acts
Mute swan	4	2	152	BoCCI Amber listed / Wildlife Acts
Snipe	3	6	105	BoCCI Amber listed / Wildlife Acts
Sparrowhawk	3	4	198	BoCCI Amber listed / Wildlife Acts

Table 35. Flight activity by target species during the 2024/25 non-breeding VP surveys

Species	Description of activity
Black-headed gull	Twenty-five observations of small (2 – 9 birds), medium (12 – 26 birds) and large (31 – 89 birds) flocks observed frequently flying over grassland north, east, south and within the site.
Buzzard	Fifteen observations of between 1 – 2 birds observed flying, commuting, hunting and circling over grassland and woodland surrounding and within the site.
Common gull	One observation in December 2024 of two birds commuting at 0 – 50 m over grassland before landing in a field north of the site.
Cormorant	One observation in December 2024 of an individual bird flying at between 20 – 50 m over grassland south-west of the site.
Grey heron	Two observations of individual birds calling and flying over grassland north and south of the site
Kestrel	Eight observations of individual birds flying, perching, commuting and hunting over grassland east, north, south-west and within the site.
Lapwing	Two observations of two and 12 birds flying north and south-west of the site.
Lesser black-backed gull	Twenty-three observations of individual and small flocks (2 – 8 birds) flying, commuting and landing in and over grassland within and adjacent to the Site. Activity predominantly consisted of birds commuting south-west with slightly lower activity within the site.
Little egret	Thirteen observations of between 1 – 4 birds flying or mobbed by crows over grassland before perching in fields to later continue commuting north, west and infrequently within the site.
Mallard	Two observations of one and two birds flying over grassland south-west of the site.

Species	Description of activity
Mute swan	Two observations of two birds flying over grassland south-west of the site
Snipe	Six observations of between 1 – 2 birds flying, flushed or calling from grassland north and south-west of the site.
Sparrowhawk	Four observations of individual birds flying, hunting or being mobbed by jackdaws predominantly south-west and occasionally north of the site.

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5.0 TRANSECT SURVEY RESULTS

The results of the transect surveys undertaken during the breeding and non-breeding seasons between 2020 and 2024 inclusive are described below. Detailed survey data are provided in Annex C.

5.1 Breeding season

A total of 49 species were recorded during the breeding transect surveys in 2020, 2021, 2022, 2023 and 2024 including nine target species, namely: buzzard, grey heron, kestrel, lesser black-backed gull, little egret, peregrine, snipe, sparrowhawk and whimbrel. Survey results are described below, including details of records for protected and notable species.

2020

A total of 30 species were recorded during the transect surveys undertaken between April and May 2020 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. One target species was recorded: buzzard. Peak counts for specially protected and notable species recorded are provided in Table 36 below.

Table 36. Transect survey peak counts for specially protected and notable species during the 2020 breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	1	BoCCI Amber listed
Greenfinch	<i>Chloris chloris</i>	4	BoCCI Amber listed
House martin	<i>Delichon urbicum</i>	2	BoCCI Amber listed
House sparrow	<i>Passer domesticus</i>	3	BoCCI Amber listed
Linnet	<i>Linaria cannabina</i>	3	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	4	BoCCI Red listed
Starling	<i>Stumus vulgaris</i>	5	BoCCI Amber listed
Swallow	<i>Hirundo rustica</i>	6	BoCCI Amber listed
Willow warbler	<i>Phylloscopus trochilus</i>	1	BoCCI Amber listed

2021

A total of 17 species were recorded during the transect surveys undertaken between April and July 2021 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. No target species were recorded. Peak counts for specially protected and notable species recorded are provided in Table 37 below.

Table 37. Transect survey peak counts for specially protected and notable species during the 2021 breeding season

Common name	Scientific name	Peak count	Conservation status
Meadow pipit	<i>Anthus pratensis</i>	1	BoCCI Red listed
Starling	<i>Stumus vulgaris</i>	6	BoCCI Amber listed
Swallow	<i>Hirundo rustica</i>	9	BoCCI Amber listed

2022

A total of 38 species were recorded during the transect surveys undertaken between May and August 2022 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. Three target species were recorded: buzzard, and kestrel. Peak counts for specially protected and notable species recorded are provided in Table 38 below.

Table 38. Transect survey peak counts for specially protected and notable species during the 2022 breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	10	BoCCI Amber listed
Greenfinch	<i>Chloris chloris</i>	4	BoCCI Amber listed
House martin	<i>Delichon urbicum</i>	30	BoCCI Amber listed
House sparrow	<i>Passer domesticus</i>	8	BoCCI Amber listed
Kestrel	<i>Falco tinnunculus</i>	1	BoCCI Red listed
Linnet	<i>Linaria cannabina</i>	10	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	18	BoCCI Red listed
Starling	<i>Stumus vulgaris</i>	150	BoCCI Amber listed
Swallow	<i>Hirundo rustica</i>	100	BoCCI Amber listed
Willow warbler	<i>Phylloscopus trochilus</i>	5	BoCCI Amber listed

2023

A total of 38 species were recorded during the transect surveys undertaken between April and September 2023 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. Five target species were recorded: buzzard, kestrel, lesser black-backed gull, little egret and sparrowhawk. Peak counts for specially protected and notable species recorded are provided in Table 39 below.

Table 39. Transect survey peak counts for specially protected and notable species during the 2023 breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	2	BoCCI Amber listed
Greenfinch	<i>Carduelis chloris</i>	6	BoCCI Amber listed

Common name	Scientific name	Peak count	Conservation status
House martin	<i>Delichon urbicum</i>	7	BoCCI Amber listed
House sparrow	<i>Passer domesticus</i>	9	BoCCI Amber listed
Kestrel	<i>Falco tinnunculus</i>	1	BoCCI Red listed
Lesser black-backed gull	<i>Larus fuscus</i>	24	BoCCI Red listed
Linnet	<i>Linaria cannabina</i>	11	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	10	BoCCI Red listed
Starling	<i>Sturnus vulgaris</i>	32	BoCCI Amber listed
Skylark	<i>Alauda arvensis</i>	1	BoCCI Amber listed
Swallow	<i>Hirundo rustica</i>	30	BoCCI Amber listed
Willow warbler	<i>Phylloscopus trochilus</i>	2	BoCCI Amber listed

2024

A total of 39 species were recorded during the transect surveys undertaken between April and September 2024 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. Six target species were recorded: buzzard, kestrel, lesser black-backed gull, peregrine, snipe and whimbrel. Peak counts for specially protected and notable species recorded are provided in Table 40 below.

Table 40. Transect survey peak counts for specially protected and notable species during the 2024 breeding season

Common name	Scientific name	Peak count	Conservation status
Buzzard	<i>Buteo buteo</i>	1	BoCCI
Goldcrest	<i>Regulus regulus</i>	4	BoCCI Amber listed
Greenfinch	<i>Carduelis chloris</i>	1	BoCCI Amber listed
House martin	<i>Delichon urbicum</i>	5	BoCCI Amber listed
House sparrow	<i>Passer domesticus</i>	3	BoCCI Amber listed
Kestrel	<i>Falco tinnunculus</i>	1	BoCCI Red listed
Lesser black-backed gull	<i>Larus fuscus</i>	21	BoCCI Red listed
Linnet	<i>Linaria cannabina</i>	8	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	2	BoCCI Red listed
Peregrine	<i>Falco peregrinus</i>	1	Annex I EU Birds Directive / BoCCI Green listed
Snipe	<i>Gallinago gallinago</i>	1	BoCCI Red listed
Starling	<i>Sturnus vulgaris</i>	21	BoCCI Amber listed
Swallow	<i>Hirundo rustica</i>	11	BoCCI Amber listed
Whimbrel	<i>Numenius phaeopus</i>	8	BoCCI Green listed

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5.2 Non-breeding season

A total of 49 species were recorded during the non-breeding transect surveys in 2020/21, 2021/22, 2022/23, 2023/24 and 2024/25 including a total of 10 target species, namely: black-headed gull, buzzard, golden plover, kestrel, lesser black-backed gull, little egret, mallard, peregrine, snipe and sparrowhawk. Survey results are described below, including details of records for protected and notable species.

2020/21

A total of 20 species were recorded during the transect surveys undertaken between November 2020 and March 2021 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. Three target species were recorded: kestrel, lesser black-backed gull and sparrowhawk. Peak counts for specially protected and notable species recorded are provided in Table 41 below.

Table 41. Transect survey peak counts for specially protected and notable species during the 2020/21 non-breeding season

Common name	Scientific name	Peak count	Conservation status
Kestrel	<i>Falco tinnunculus</i>	1	BoCCI Red listed
Lesser black-backed gull	<i>Larus fuscus</i>	6	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	3	BoCCI Red listed
Redwing	<i>Turdus iliacus</i>	4	BoCCI Red listed
Starling	<i>Stumus vulgaris</i>	8	BoCCI Amber listed

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2021/22

A total of 29 species were recorded during the transect surveys undertaken between October 2021 and January 2022 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. One target species was recorded: kestrel. Peak counts for specially protected and notable species recorded are provided in Table 42 below.

Table 42. Transect survey peak counts for specially protected and notable species during the 2021/22 non-breeding season

Common name	Scientific name	Peak count	Conservation status
Goldcrest	<i>Regulus regulus</i>	8	BoCCI Amber listed
Kestrel	<i>Falco tinnunculus</i>	1	BoCCI Red listed
Linnet	<i>Linaria cannabina</i>	30	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	3	BoCCI Red listed
Redwing	<i>Turdus iliacus</i>	200	BoCCI Red listed
Starling	<i>Sturnus vulgaris</i>	100	BoCCI Amber listed

2022/23

A total of 36 species were recorded during the transect surveys undertaken between January 2023 and March 2023 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. Six target species were recorded: black-headed gull, buzzard, golden plover, kestrel, snipe and sparrowhawk. Peak counts for specially protected and notable species recorded are provided in Table 43 below.

Table 43. Transect survey peak counts for specially protected and notable species during the 2022/23 non-breeding season

Common name	Scientific name	Peak count	Conservation status
Black-headed gull	<i>Chroicocephalus ridibundus</i>	15	BoCCI Amber listed
Goldcrest	<i>Regulus regulus</i>	1	BoCCI Amber listed
Golden plover	<i>Pluvialis apricaria</i>	12	Annex I EU Birds Directive / BoCCI Red listed / SS
Grey wagtail	<i>Motacilla cinerea</i>	1	BoCCI Red listed
House sparrow	<i>Passer domesticus</i>	9	BoCCI Amber listed
Kestrel	<i>Falco tinnunculus</i>	1	BoCCI Red listed
Linnet	<i>Linaria cannabina</i>	5	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	8	BoCCI Red listed
Redwing	<i>Turdus iliacus</i>	125	BoCCI Red listed
Snipe	<i>Gallinago gallinago</i>	1	BoCCI Red listed
Starling	<i>Sturnus vulgaris</i>	21	BoCCI Amber listed
Stock dove	<i>Columba oenas</i>	2	BoCCI Red listed

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2023/24

A total of 38 species were recorded during the transect surveys undertaken between October 2023 and March 2024 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. Five target species were recorded: buzzard, kestrel, snipe, lesser black-backed gull and little egret. Peak counts for specially protected and notable species recorded are provided in Table 44 below.

Table 44. Transect survey peak counts for specially protected and notable species during the 2023/24 non-breeding season

Common name	Scientific name	Peak count	Conservation status
Buzzard	<i>Buteo buteo</i>	2	BoCCI Green listed
Goldcrest	<i>Regulus regulus</i>	4	BoCCI Amber listed
Greenfinch	<i>Chloris chloris</i>	3	BoCCI Amber listed
Grey wagtail	<i>Motacilla cinerea</i>	3	BoCCI Red listed
House sparrow	<i>Passer domesticus</i>	12	BoCCI Amber listed
Kestrel	<i>Falco tinnunculus</i>	1	BoCCI Red listed
Lesser black-backed gull	<i>Larus fuscus</i>	20	BoCCI Amber listed
Little egret	<i>Egretta garzetta</i>	1	Annex 1 EU Birds Directive / BoCCI Green listed
Meadow pipit	<i>Anthus pratensis</i>	11	BoCCI Red listed
Redwing	<i>Turdus iliacus</i>	89	BoCCI Red listed
Skylark	<i>Alauda arvensis</i>	1	BoCCI Amber listed
Snipe	<i>Gallinago gallinago</i>	4	BoCCI Red listed
Starling	<i>Sturnus vulgaris</i>	225	BoCCI Amber listed

2024/25

A total of 37 species were recorded during the transect surveys undertaken between January 2025 and March 2025 inclusive. These were largely common and widespread non-target species recorded in relatively low numbers. Seven target species were recorded: black-headed gull, golden plover, kestrel, lesser black-backed gull, mallard, peregrine, snipe and sparrowhawk. Peak counts for specially protected and notable species recorded are provided in Table 45 below.

Table 45. Transect survey peak counts for specially protected and notable species during the 2024/25 non-breeding season

Common name	Scientific name	Peak count	Conservation status
Black-headed gull	<i>Chroicocephalus ridibundus</i>	62	BoCCI Amber listed
Golden plover	<i>Pluvialis apricaria</i>	2	Annex I EU Birds Directive / BoCCI Red listed / SS
Grey wagtail	<i>Motacilla cinerea</i>	1	BoCCI Red listed
House martin	<i>Passer domesticus</i>	4	BoCCI Amber listed
Kestrel	<i>Falco tinnunculus</i>	1	BoCCI Red listed

Common name	Scientific name	Peak count	Conservation status
Lesser black-backed gull	<i>Larus fuscus</i>	2	BoCCI Amber listed
Linnet	<i>Linaria cannabina</i>	6	BoCCI Amber listed
Mallard	<i>Anas platyrhynchos</i>	3	BoCCI Amber listed
Meadow pipit	<i>Anthus pratensis</i>	10	BoCCI Red listed
Peregrine	<i>Falco peregrinus</i>	1	Annex I EU Birds Directive / BoCCI Green listed
Redwing	<i>Turdus iliacus</i>	40	BoCCI Red listed
Snipe	<i>Gallinago gallinago</i>	24	BoCCI Amber listed
Sparrowhawk	<i>Accipiter nisus</i>	1	BoCCI Green listed
Starling	<i>Sturnus vulgaris</i>	127	BoCCI Amber listed

6.0 RESULTS FOR SURVEYS FOR SPECIFIC SPECIES/SPECIES GROUPS

The results of the additional hinterland, wildfowl, wading bird and raptor surveys are detailed below. Data from these surveys are provided in Annex C.

6.1 Hinterland bird surveys

A total of 18 species were recorded during the non-breeding transect surveys in 2022/23 and 2023/24, including 10 target species. Survey results are described below, including details of records for protected and notable species. Full hinterland bird survey results are provided in Annex C.

2022/23

A total of 16 species were observed during the two hinterland bird surveys conducted up to 5 km from the site boundary between December 2022 and February 2023. Peak counts (i.e., the largest aggregations) recorded for specially protected and notable species summarised in Table 46 below.

Table 46. Summary of specially protected and notable species counts for 2022/23 hinterland bird surveys

Common name	Scientific name	Peak count	Conservation status
Black-headed gull	<i>Chroicocephalus ridibundus</i>	120	BoCCI Amber listed / Wildlife Acts / SCI
Goshawk	<i>Accipiter gentilis</i>	1	BoCCI Amber listed / Annex I EU Birds Directive / Wildlife Acts
Kestrel	<i>Falco tinnunculus</i>	1	BoCCI Red listed / Wildlife Acts
Lesser black-backed gull	<i>Larus fuscus</i>	6	BoCCI Amber listed / Wildlife Acts
Little egret	<i>Egretta garzetta</i>	1	Annex I EU Birds Directive / Wildlife Acts
Mallard	<i>Anas platyrhynchos</i>	10	BoCCI Amber listed / Wildlife Acts
Shoveler	<i>Spatula clypeata</i>	2	BoCCI Red listed / Wildlife Acts / SCI
Teal	<i>Anas crecca</i>	35	BoCCI Amber listed / Wildlife Acts / SS

2023/24

A total of four species were observed during the two hinterland bird surveys conducted up to 5 km from the site boundary in January 2024. Peak counts (i.e., the largest aggregations) recorded for specially protected and notable species summarised in Table 47 below.

Table 47. Summary of specially protected and notable species counts for 2023/24 hinterland bird surveys

Common name	Scientific name	Peak count	Conservation status
Black-headed gull	<i>Chroicocephalus ridibundus</i>	300	BoCCI Amber listed / Wildlife Acts / SCI
Buzzard	<i>Buteo buteo</i>	1	BoCCI Green listed
Hen harrier	<i>Accipiter gentilis</i>	1	Annex I EU Birds Directive / BoCCI Amber listed / Wildlife Acts
Lesser black-backed gull	<i>Larus fuscus</i>	2	BoCCI Amber listed / Wildlife Acts

6.2 Wildfowl distribution surveys

Various wildfowl species were recorded during the wildfowl distribution surveys undertaken during the 2022/23 non-breeding season at Lough Doohyle. Of these, nine species were also recorded within (and are therefore relevant to) the site during the non-breeding VP surveys. These were as follows (the largest flock observed is indicated in brackets): black-headed gull (3), curlew (17), little grebe (2), mallard (4), moorhen (2), mute swan (2), snipe (5), teal (45) and wigeon (5).

6.3 Wading bird surveys

No waders were recorded during the wading bird surveys undertaken during the 2023 breeding season. However, three snipe including a displaying male were recorded during the breeding season 2023 VP surveys, suggesting the presence of a territory approximately 150 m west of the site boundary (Table 17). Observations of breeding barn owl were recorded incidentally during these wader surveys (see Section 6.5 below).

6.4 Bird of prey surveys

Two raptor species were recorded during the bird of prey surveys undertaken during the 2023 and 2024 breeding seasons. In 2023, buzzard was observed six times in June-July 2023, with observations of individual birds perching, flying, circling, hunting and soaring over improved grassland outside of the site boundary. A kestrel was observed hunting over improved grassland on a single occasion in May. No raptor breeding evidence was recorded. Whilst in 2024, buzzard was observed three times in May and June with observations of individual birds flying, hunting, perched or being mobbed by corvids. Kestrel was observed on two occasions in May and June 2024 of individual birds hunting over grassland.

6.5 Barn owl surveys

Whilst no barn owl records were identified within the desk study, barn owl feathers were found near VP1 during the 2020/21 non-breeding season, and barn owl pellets were found near VP2 during the 2021 breeding season. This indicates barn owl presence adjacent to (either side of) the site during the survey period.

Detailed surveys of buildings within and adjacent to the site undertaken in 2022 identified a barn owl occupied breeding site at site 7, approximately 400 m west of the project site boundary. The nest was located in a deep vertical wall cavity on the gable end of a derelict two-storey outbuilding. Subsequent nest monitoring surveys at site 7 in 2022 recorded eggs in April, and three chicks fledged from the site in August 2022.

On 9th May 2023, a further detailed assessment of buildings within 1km of the project identified eight buildings for assessment of their potential to support breeding barn owl. Detailed inspections identified eight sites. Of these sites, five were unsuitable (Sites 3, 4a, 5, 6 and 8) and therefore unlikely to support breeding barn owl due to the lack of suitable nesting features. Three were considered to be suitable (Sites 1, 2 and 7) and had suitable features present within the structure that could support breeding barn owl. Site 7, where a previous nest was confirmed, was unable to be accessed during this visit.

Following this, further nocturnal surveys were undertaken to assess the presence of barn owl within sites 1, 2 and 7 in late May 2023. A nocturnal survey of site 7 on 30th May 2023 recorded faint 'snoring' vocalisations in the vicinity of the 2022 nest site, and a single barn owl was observed flying over the site at a height of 5 m whilst emitting territorial calls. No activity was observed at sites 1 and 2.

Although breeding seemed unlikely at sites 1, 2 and 7, a second nocturnal visit to the site later in the season was undertaken as a small percentage of sites nest later in the year than the average and can have young fledging as late as September. Therefore, another visit was carried out on 1st August 2023, to determine if any late nesting had taken place, or if any birds were still present, maintaining the territory. No sightings or vocalisations of Barn Owls were seen or heard. The conclusion was that site 7 had not been used in Summer 2023, with no adults present, it was possible that the site had been abandoned. Sites 1 and 2 were unoccupied for a second survey.

Preceding the nocturnal surveys, a nearby derelict cottage (Site 4b), overgrown with vegetation which had been incidentally recorded by other surveyors, was briefly visually surveyed during the day on the 1st August 2023. The surveyors recorded between 2-3 barn owls present with vocalisations indicative of the birds being juveniles. A further visit was completed on 2nd August during the day which provided a thorough inspection of the derelict cottage. It had a central chimney, initially thought to be suitable as a Barn Owl nest site, a close inspection with a drone showed that the top of the chimney was a ceramic pot (difficult for young Barn Owls to climb out of) and had cobwebs over the top entrance. The lower section of the chimney was blocked by sticks (placed by nesting Jackdaws), so didn't allow access to the chimney shaft from below. There was only a small amount of 'whitewash' on the gable end wall, and no pellets or downy feathers were found below the chimney or any of the walls of the cottage. A nearby Ash (*Fraxinus excelsior*) tree and small derelict cottage were inspected with whitewash recorded on the tree, but no suitable features were identified. Due to the proximity between site 7 and 4b (i.e. within 1km) it was considered possible by the surveyor that the breeding pair present in the previous year could have occupied a site nearby to 4b.

Site 4b was further surveyed on 15th October, with a further daytime inspection made and a nocturnal survey undertaken. During the dusk observation, the site was confirmed as 'active', with a presumed male Barn Owl roosting in the central wall of the cottage (Site 4b). The loud territorial calls heard would indicate that the bird has taken 'ownership' of the site

and is likely to remain at the site during the winter, and into the following spring. The lack of any other vocalisations (begging calls from young, or recently fledged birds) and lack of further activity at the site once the Barn Owl had left to hunt, indicated that late breeding did not take place at this site.

Overall, detailed surveys of buildings within and adjacent to the site undertaken in 2023 identified the remaining buildings (i.e., Sites 3, 4, 5, 6 and 8) as unsuitable for barn owl nest sites. Sites 1 and 2 were considered suitable as potential nesting sites. Nocturnal surveys carried out at sites 1 and 2 and other survey visits did not record any barn owl activity in either building. Site 7 was occupied in 2022 but not found to be occupied in 2023. Site 4b was assessed only in 2023 and was found to be occupied by juvenile birds but the location of the nest was unable to be confirmed as the features assessed appeared to be unsuitable for nesting barn owl. The locations of all assessed sites and their nesting potential for barn owls are indicated in Figure 7.8. Barn owl observations are detailed in Annex C.

Evidence of roosting kestrel was recorded at site 6 in breeding 2022. The pellets found were all several months old, suggesting site 6 was a winter roost for kestrel. Longer grassland and hedgerows within the site comprised suitable foraging habitat for barn owl and kestrel.

6.6 Hen harrier surveys

Nine observations of hen harrier were recorded at Carrigkerry Bog at surveys during non-breeding 2022/23 (February 2022 and March 2023), breeding 2023 (May and June 2023), non-breeding 2023/24 (January and February 2024) and non-breeding 2024/25 (November 2024). Carrigkerry Bog is situated over 5 km west of the site (immediately north of Stack's SPA), observations included: two observations in February 2023, one in March 2023, one in May 2023, one in June 2023, one in January 2024, two in February 2024 and one in November 2024. The February 2022 and March 2023 birds were observed flying from east to west, away from the project site. The May 2023 and June 2023 individuals were observed circling over pines and hunting in Survey Areas A and D respectively. The January 2024 observation involved a male bird flying low over the bog before heading north into the forest clearing and out of view. The February 2024 observations consisted of an individual male hunting low over the bog on two occasions before flying north-east from the survey location at sunset. An adult female was observed possibly roosting on 23rd February 2023 with another female also observed flying into roost on 6th November 2024. Across the survey period it is estimated at least two adult females and up to two adult male were observed at Carrigkerry Bog. Hen harrier observations are indicated in Figure 7.9 and detailed in Annex C.

6.7 Peregrine surveys

One observation of a peregrine was recorded during the peregrine surveys undertaken in 2023. This was recorded on 22nd June approximately 4 km north of the site at Askeaton Castle of one juvenile peregrine observed eating prey on a ledge to the north-west side of Askeaton Castle wall. At 11:26 the bird flew off south-west. No roosting behaviour was confirmed. No observations were seen during surveys in July 2024. Peregrine observations are indicated in Figure 7.10.

7.0 DISCUSSION

The findings of the desk study and field surveys described in this report are discussed below, both with regard to the ornithological features recorded, and in the context of relevant designated sites.

The Vantage Point and transect surveys of the site and adjacent land undertaken between April 2020 and March 2025 inclusive recorded a total of 77 bird species; specifically, 66 species during the breeding season and 65 species during the non-breeding season (with many species observed during both periods).

Of the 77 species recorded, 23 were target species. The majority of these target species were recorded flying over the project site and/or adjacent land, with a wider range of target species recorded during the non-breeding season. Target species recorded during the field surveys are listed below:

- Barn owl
- Black-headed gull
- Buzzard
- Common gull
- Cormorant
- Curlew
- Golden plover
- Great black-backed gull
- Great white egret
- Grey heron
- Hen harrier
- Herring gull
- Kestrel
- Lesser black-backed gull
- Lapwing
- Little egret
- Mallard
- Mute swan
- Peregrine
- Snipe
- Sparrowhawk
- Whimbrel
- Whooper swan

Target species recorded included features of nearby designated sites, species listed on Annex I of the Birds Directive, BoCCI Red listed species and BoCCI Amber Listed species.

Relevant designated sites

The desk study identified two relevant designated sites with features of ornithological interest: Stack's SPA, located approximately 3.3 km west of the project site; and River Shannon and River Fergus Estuaries SPA, located approximately 6.8 km north of the project site. These sites are discussed below in the context of the 2020-2023 survey data.

Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA

Stack's SPA is designated for its nationally important breeding hen harrier population. Hen harrier was recorded once during the surveys of the project site undertaken between 2020 and 2025; specifically one flying over improved grassland approximately 80 m north of the site boundary. As such, no hen harriers were recorded within the project site boundary. Winter roost surveys in the wider area identified hen harrier activity by at least one adult male and two adult females over 5

km west of the site at Carrigkerry Bog, including possible roosting by an adult female. During the winter roost surveys hen harriers were observed flying from east to west (i.e., away from the project site) and hunting over grassland with no evidence of movement towards the project site boundary observed.

Considering the level and location of hen harrier activity recorded within the project site and during the supplementary winter roost surveys, the project site is not considered to be of significant value to hen harrier, in either in isolation or in relation to (i.e., regarding potential functional linkage to) Stack's SPA. No other species forming interest features of Stack's SPA (namely merlin, red grouse and short-eared owl) were recorded during the field surveys undertaken between 2020 and 2025.

River Shannon and River Fergus Estuaries SPA

Eight Selection Species and SCI species for the designation of River Shannon and River Fergus Estuaries SPA (located approximately 6.8 km north of the project site) were recorded during the field surveys in 2020-2023. Seven of these species (cormorant, curlew, golden plover, shoveler, teal and whooper swan) were recorded infrequently and/or in low numbers, with no activity by shoveler or teal recorded within the site boundary. The project site is therefore not considered to be of significant value to the populations of these species, either in isolation or in relation to River Shannon and River Fergus Estuaries SPA.

The wintering black-headed gull population forms a Special Conservation Interest feature for River Shannon and River Fergus Estuaries SPA. A baseline wintering population of 2,681 individuals is stated on the Standard Data Form (updated 2005-10⁶), whilst an average wintering population of 1,303 individuals was reported for the SPA in 2006-2011 following a review by NPWS (2012).

Black-headed gulls were frequently recorded during the non-breeding season, with annual peak counts of 60 to 200 birds recorded in the three seasons surveyed. This activity predominantly comprised birds in flight, with infrequent records of flocks using land within the project site (e.g., for foraging and loafing). The project site itself is not considered to be of significant value to wintering black-headed gull, in isolation or in relation to River Shannon and River Fergus Estuaries SPA.

Black-headed gull flight activity recorded during the field surveys included flights northwards and (particularly) southwards, in the direction to/from River Shannon and River Fergus Estuaries SPA. Whilst detailed guidance on black-headed gull movement patterns in relation to connectivity with inland SPAs is not available, based on the known general movement patterns of this species when commuting and on migration, and considering the distance between the project site and the SPA (approximately 6.8 km), birds observed flying northwards and southwards potentially belong to the population which forms an SCI for River Shannon and River Fergus Estuaries SPA. The peak count for a flock flying towards/from the direction of the SPA was 60 birds (equating to 2.2% of the baseline citation population for the SPA, and 4.6% of the 2006-2011 population estimate for the SPA). The peak count for a flock flying towards/from the direction of the SPA over the location of the proposed turbines was 25 birds (equating to 0.9% of the baseline citation population for the SPA, and 1.9% of the 2006-2011 population estimate for the SPA). Therefore, the black-headed gull flight route recorded over and west of the site during the non-breeding season is potentially significant in the context of River Shannon and River Fergus Estuaries SPA, although flocks recorded flying directly over the location of the proposed turbines comprised less than 1% of the baseline citation population for the SPA.

⁵ Available at: <https://natura2000.eea.europa.eu/natura2000/SDF.aspx?site=IE0004077> (accessed 15/08/2023).

Significance of non-breeding and breeding bird populations

Waterfowl

No large aggregations of wintering waterfowl (i.e., ducks, swans and geese) were recorded within or adjacent to the site, and no breeding by scarce waterfowl species or significant numbers of widespread waterfowl species was recorded. Whooper swan observations comprised one bird flying west of the site (i.e., outside the site boundary) in November 2021. Other waterfowl species were recorded in low numbers only, with activity generally observed outside the site boundary. The site does not support any habitats that are likely to be frequently used by waterfowl (e.g., large waterbodies). The site is not therefore considered to be of significant value for whooper swan or any other waterfowl.

Raptors

In addition to hen harrier (as discussed above), a further four raptor species were recorded during the field surveys: buzzard, kestrel, peregrine and sparrowhawk. Buzzard is a common and widespread species in Ireland. This species was frequently recorded during the breeding and non-breeding seasons, with activity observed towards the north of the site, and much higher activity levels observed immediately north and west of the site boundary. At least eight individuals were recorded. Considering the level of buzzard activity recorded in the context of the conservation status of this species in Ireland, the site and (particularly) adjacent land are considered to be of local (higher) value for this species during the breeding and non-breeding seasons.

Kestrel is regarded as a species of high conservation importance in Ireland due to its inclusion on the BoCCI Red List. This species was frequently recorded during the breeding and non-breeding seasons, with a possible nest site identified north of the site boundary in 2022, and a winter roost identified west of the site boundary in 2023 (Site 6, Figure 7.8). As such, the site overlapped with at least one kestrel territory and was of value during the breeding and non-breeding seasons. Considering the level of kestrel activity recorded in the context of the conservation status of this species in Ireland, the site is considered to be of local (higher) value for this species during the breeding and non-breeding seasons.

Peregrine is a locally common and increasing species in Ireland, reflected by its inclusion on the BoCCI Green List. This species is afforded additional legal protection due to its inclusion on Annex I of the Birds Directive. Low levels of peregrine activity were recorded during the non-breeding seasons, with three records of birds recorded within the site in 2022/23 and 2023/24 with one juvenile bird observed at Askeaton Castle approximately 8 km north-west of the site in June 2023. Considering the level of peregrine activity recorded in the context of the conservation status of this species in Ireland, the site is not considered to be of up to local (lower) value for this species.

Sparrowhawk is a common and widespread species in Ireland, reflected by its inclusion on the BoCCI Green List. Sparrowhawk activity was recorded within and (particularly) adjacent to the site during the breeding and non-breeding seasons. Observations were typically of lone adults, with up to seven observations recorded during a single VP survey season. Considering the level of sparrowhawk activity recorded and the conservation status of this species in Ireland, the site is considered to be of up to local (lower) value for this species during the breeding and non-breeding seasons.

Barn owl

Barn owl is regarded as a species of high conservation importance in Ireland, as reflected by its inclusion on the BoCCI Red List. Of the eight suitable buildings identified within 1 km of the site boundary, one (approximately 400 m west of the site) was found to comprise an occupied breeding site in 2022 but was not occupied in 2023. No suitable breeding sites were identified within the site. Whilst no barn owl observations were recorded within the site, field signs were recorded near VP1 and VP2. Considering this, the site is considered to be of local (higher) value for barn owl during the breeding and non-breeding seasons.

Hérons

Three heron species were recorded within and adjacent to the site during the field surveys. With activity from little egret, great white egret and grey heron.

Little egret is a common and widespread species in Ireland and is afforded additional legal protection due to its inclusion on Annex I of the Birds Directive. Little egret was recorded during the breeding and non-breeding seasons, with counts of up to eight birds recorded. Observed activity included birds foraging (e.g., along the Ahacronane River), loafing and flying. The majority of activity was recorded north-west and south-west of (outside) the site boundary, with relatively low levels of little egret activity recorded within the site. Considering this, and the conservation status of this species in Ireland, the site is considered to be of no more than local (lower) value for little egret.

Grey heron is a common and widespread species in Ireland. Low levels of grey heron activity were recorded during the field surveys, comprising occasional birds foraging, loafing and flying over. Similarly, great white egret was recorded infrequently and in low numbers, with activity confined to flying over the site and adjacent land. The site is not therefore considered to be of significant value for grey heron or great white egret.

Waders

The majority of wader species recorded within and adjacent to the site during the field surveys (e.g., curlew, lapwing and whimbrel) were recorded infrequently and in low numbers, with activity confined to occasional feeding, loafing or flying over the site and adjacent land.

Golden plover was recorded infrequently across the survey period on multiple occasions during non-breeding seasons, with a peak count of 36 individuals in the non-breeding season recorded during a vantage point survey in 2023/24. Non-breeding records were relatively infrequent and typically consisted of small flocks between 2 – 12 individuals. As demonstrated by the survey observations, short grassland present within the site comprises suitable foraging habitat for this species in the non-breeding season. Golden plover has undergone significant population decline in Ireland, as reflected by its inclusion on Annex I and the BoCCI Red List. Based on the level of activity recorded, and the conservation status of this species, the site is considered to potentially be of local (lower) value for golden plover during the non-breeding seasons.

Snipe was recorded on multiple occasions during the breeding and non-breeding seasons, with at least three individuals in the breeding season and 21 individuals in the non-breeding season recorded. This included a breeding territory in wet grassland approximately 150 m west of the site boundary in 2023. Non-breeding records typically consisted of between 1 – 4 individuals with the peak count of 21 as an outlier to the typical population present within the site. As demonstrated by the records, wet grassland adjacent to and (to a lesser extent) within the site comprises suitable

habitat for this species, which has undergone significant population decline in Ireland, as reflected by its inclusion on the BoCCI Red List. Based on the level of activity recorded, and the conservation status of this species, the site is considered to potentially be of local (lower) value for snipe during the breeding and non-breeding seasons.

Gulls

Various gull species were observed loafing and foraging within and (more frequently) flying over the site and adjacent land during the field surveys. These included black-headed gull (see above discussion in relation to River Shannon and River Fergus Estuaries SPA). This species was infrequently recorded using common grassland habitats within the site with peak counts of up to 55 birds. Flocks of up to 200 birds were also recorded flying within airspace over the site. Considering the level of activity recorded, the airspace over the project site is potentially significant in the context of black-headed gull movement patterns in the local area and the wider landscape during the non-breeding season.

Lesser black-backed gull was also recorded during the surveys with flocks of up to 62 individuals and flying over the site with a total of 113 observations during VP surveys undertaken between 2020 – 2025. Additionally, common gull was recorded with flocks of up to 200 individuals but typically observed in individual and flocks of between 2 – 30 individuals with a total of 12 observations during VP surveys undertaken between 2020 – 2025. No significant evidence was observed of large flocks foraging or loafing on grassland within the site for either species and habitat within the site is considered to be unsuitable for breeding. Therefore, the habitat within the site is considered to be of no significant value for this species. Considering the level of flight activity recorded, the airspace over the project site is potentially significant in the context of gull movement in the local area and wider landscape and therefore considered to be of local (higher) value for lesser black-backed gull and local (lower) value for common gull.

Additional gull species recorded comprised herring gull and great black-backed gull. Considering the numbers and type of activity by these species recorded, and their conservation statuses in Ireland, the site is not considered to be of significant value for these species, or to comprise significant commuting or migration routes for these species.

Non-target farmland species

A range of non-target farmland bird species were recorded within and adjacent to the site during the breeding and non-breeding seasons, including species of conservation concern in Ireland. Notable species present during the breeding season included linnet, meadow pipit, skylark, starling and swallow, using habitats including wet grassland, scrub and hedgerows. Scarce migrant passerines were also recorded in low numbers; specifically cuckoo. Notable species and/or common species present in potentially significant numbers during the non-breeding season included linnet, meadow pipit, rook, starling and grey wagtail. These species were recorded foraging and sheltering in scrub, hedgerows and wet grassland.

Considering the level of activity recorded by these species in the context of their population statuses in Ireland, the site is considered to be of local (higher) value for populations of non-target farmland bird species during the breeding and non-breeding seasons.

REFERENCES

- Balmer. D., Gillings. S., Caffrey. B., Swann. B., Downie. I. & Fuller. R. (2013). *Bird Atlas 2007-11: The breeding and Wintering birds of Britain & Ireland*. BTO Books, Thetford.
- Bibby. C., Burgess. N., Hill. D., & Mustoe. S. (2000). (2nd Eds). *Bird Census Techniques*. Academic Press.
- Bird Survey and Assessment Steering Group. (2023) *Bird Survey Guidelines for assessing ecological impacts*, v.0.1.6. [Available at: [Bird Survey Guidelines | for ecological impact assessment](#) – accessed 17/08/2023].
- BirdWatch Ireland. (2021) *Survey and Mitigation Standards for Barn Owls to inform the Planning, Construction and Operation of National Road Projects*. Transport Infrastructure Ireland, Dublin.
- BirdWatch Ireland. (2022) *Ireland's Birds*. [Available at: <https://birdwatchireland.ie/> – accessed 14/08/2023].
- CIEEM. (2018) *Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine*. Version 1.1 – Updated September 2019. [Available at: <https://cieem.net/resource/guidelines-for-ecological-impact-assessment-ecia/> – accessed 17/08/2023].
- CIEEM. (2019) *Advice Note on the lifespan of ecological surveys and reports*. [Available at: [Advice-Note.pdf \(cieem.net\)](#) – accessed 17/08/2023].
- Cummins, S., Bleasdale, A., Douglas, C., Newton, S., O'Halloran, J. & Wilson, H.J. (2010) *The status of Red Grouse in Ireland and the effects of land use, habitat and habitat quality on their distribution*. Irish Wildlife Manuals, No. 50. National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin, Ireland.
- European Commission. (2011) *Wind energy development and Nature 2000*.
- Gilbert, G., Gibbons, D.W. & Evans J. (1998) *Bird monitoring methods. A manual of techniques for key UK species*. RSPB, Sandy, Bedfordshire.
- Gilbert, G., Stanbury, A. & Lewis, L. (2021) *Birds of Conservation Concern in Ireland 2020 – 2026*. Irish Birds, **43**, 1- 22.
- Hen Harrier Programme. (2021) *Hen Harrier Monitoring 2021*. Golden Eagle Trust Ltd. Oranmore, Co. Galway.
- Irish Wind Energy Association. (2012) *Best Practice Guidelines for the Irish Wind Energy Industry*.
- Lusby, J. & O'Clery, M. (2014) *Barn Owls in Ireland: Information on the ecology of Barn Owls and their conservation in Ireland*. BirdWatch Ireland, Kilcoole.
- Marchant, J.H. (1983) *BTO Common Birds Census instructions*. BTO, Tring.
- NatureScot. (2025) *Recommended bird survey methods to inform impact assessment of onshore wind farms*. SNH, Perth.
- NPWS. (2012) *River Shannon & River Fergus Estuaries – Special Protection Area (Site Code 4077). Conservation Objectives Supporting Document*. National Parks and Wildlife Service. September 2012. [Available at: https://www.npws.ie/sites/default/files/publications/pdf/004077_River%20Shannon%20and%20River%20Fergus%20Estuaries%20SPA%20Supporting%20Doc_V1.pdf – accessed 10/08/2023].
- NPWS. (2015) *Site Synopsis: River Shannon and River Fergus Estuaries SPA (Site Code 004077)* National Parks and Wildlife Service. [Available at: [SITE SYNOPSIS \(npws.ie\)](#) – accessed 17/08/2023].

- NPWS. (2015) *Site Synopsis: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA (Site Code 004161)*. National Parks and Wildlife Service [Available at: [SITE SYNOPSIS \(npws.ie\)](http://www.npws.ie) – accessed 17/08/2023].
- O'Donoghue, B. (2019) *Survey Guide – Hen Harrier Roost Type and Guidelines to Roost Watching*. Irish Hen Harrier Winter Survey. [Available at: http://www.ihhws.ie/IHHWS_Guide.pdf – accessed 17/08/2023].
- Scottish Natural Heritage. (2016) *Assessing Connectivity with Special Protection Areas (SPAs)*. Guidance Version 3 – June 2016. Scottish Natural Heritage, Inverness.
- Scottish Natural Heritage. (2017) *Recommended bird survey methods to inform impact assessment of onshore wind farms*. SNH, Perth.

ANNEX A – RELEVANT LEGISLATION

International legislation

Directive 2009/147/EC of the European Parliament and of the Council on the conservation of wild birds (Birds Directive) 2009

The Birds Directive 2009 relates to the conservation of all species of naturally occurring birds in their wild state in the territory of the EU Member States (MSs) to which the treaty applies. Under the Birds Directive, the most suitable areas of conservation of the Annex I species are to be designated as Special Protection Areas (SPAs), as part of the European Natura 2000 network. Maintaining a coherent network of protected sites with overarching conservation objectives is required in order to fulfil the commitment made by governments to maintain environmental protections and continue to meet their international legal obligations.

Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora (Habitats Directive) 1992

The Habitats Directive 1992 requires EU MSs to maintain or restore, at favourable conservation status, natural habitats and species of wild fauna and flora of community interest, which are listed under Annex I, II, IV and/or V. Species listed under Annex IV are known as 'European Protected Species' (EPS).

Under the Habitats Directive, EU Member States are required to contribute to the Natura 2000 network through the designation of Special Areas of Conservation (SACs) for natural habitat types listed in Annex I and habitats of species listed in Annex II.

The Convention on Wetlands of International Importance Especially as Waterfowl Habitat 1971: the Ramsar Convention

The Ramsar Convention is an intergovernmental treaty focused on the conservation and sustainable use of wetland, primarily as habitats for water birds. Under the convention, each ratified country is required to identify and designate sites (Ramsar sites) that meet the criteria for identifying a wetland of international importance, i.e., containing representative, rare or unique wetland types. In addition, the convention promotes international co-operation to promote the wise use of all wetlands and their resources.

Natura Impact Statement (NIS)

There is a requirement under the EU nature directives, and enshrined in country-specific domestic legislation, to undertake a screening exercise to determine whether any sites that form part of the Natura 2000 site network are likely to be significantly affected by any proposal (project or plan). The assessment must consider the proposals both alone and in combination with other plans and projects, if they result from activities that are not directly connected with, or necessary to, the management of the designated sites. If significant effects are likely, an Appropriate Assessment (AA) will need to be carried out. The screening, any AA, and any subsequent assessment are collectively known as a Natura Impact Statement (NIS). The NIS needs to consider each of the 'Qualifying Features' (habitats or species) for which the Natura 2000 site is designated. Ramsar

sites are treated in the same way as SACs and SPAs in a NIS, as are proposed Natura 2000 sites which have not yet been fully adopted.

The Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention) 1979

The Bonn Convention was adopted in 1979 and came into force in 1985. Contracting Parties work together to conserve migratory species and their habitats by providing strict protection for endangered migratory species (listed in Appendix I of the Convention), concluding multilateral agreements for the conservation and management of migratory species which require or would benefit from international cooperation (listed in Appendix II), and by undertaking cooperative research activities.

The Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) 1979

The principal aims of the Bern Convention 1979 are to ensure the conservation and protection of wild plant and animal species and their natural habitats (listed in Appendices I and II of the Convention), to increase cooperation between contracting parties, and to regulate the exploitation of those species (including migratory species) listed in Appendix III. To this end, the Bern Convention imposes legal obligations on contracting parties, protecting over 500 wild plant species and more than 1,000 wild animal species.

National legislation

Wildlife Act (1976), as amended

The Wildlife Act (1976), as amended is the principal national legislation for the protection of wildlife and the control of activities that may adversely affect wildlife. This legislation also seeks to conserve a representative sample of important ecosystems and regulate game resources. It makes licences mandatory for certain activities which may interfere with ecosystems and regulates the possession, trade, and movement of wildlife. Areas of importance for wildlife may be protected under the Act, either as Nature Reserves for Fauna, or by way of management agreements.

Wildlife (Amendment) Act, 2000, 2010, 2012

The main objectives of this Act designate and give protection to Natural Heritage Areas (NHAs) and improve the conservation of wildlife and their habitats while ensuring Ireland's compliance with international biodiversity agreements. It broadens the scope the previous Wildlife Act to include hitherto omitted species. It legislates for fines and punishments and allows for the imposition of prison sentences in certain circumstances.

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ANNEX B – SURVEY DETAILS

Vantage Point surveys

Table 48. 2020 breeding VP survey details

VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
April						
1	16/04/20	IMcD	08.55	11.55	3	A dry bright day with a light east/northeast wind F2. Temperature 6°C -12°C and good visibility
1	20/04/20	IMcD	13.05	16.05	3	A dry day with some scattered cloud and a light gentle breeze from the east/north east F2-3. Temperature 13°C and visibility very good
2	16/04/20	IMcD	12.55	15.55	3	A dry calm day with some scattered clouds and light east/north east winds F2. Temperature 12°C and good visibility
2	20/04/20	IMcD	09.00	13.00	3	A dry day with some scattered cloud and a calm, light breeze F0-1 from the east/north east. Temperature 7°C and visibility very good
May						
1	19/05/20	IMcD	13.00	16.00	3	Dry calm day with sunny spells and scattered cloud. A light gentle breeze F1-3 from the south west. Temperature 20 - 21°C and visibility good
1	22/05/20	IMCD	8.45	11.45	3	A mostly overcast day with occasional rain and some strong gusts, F7, and moderate to strong winds F4-6, from the south/south west. Temperature 8-13°C and visibility ok to good
2	19/05/20	IMcD	09.00	12.00	3	Dry, calm day with scattered cloud and a light to moderate breeze, F1-4, from the south east. Temperature 13-18°C and visibility very good
2	22/05/20	IMcD	12.45	15.45	3	A mostly cloudy day with scattered light showers and strong breeze to near gales F6-7 from the south/south west
June						
1	16/06/20	DF	08.30	11.30	3	A cloudy day 8/8 with a north westerly wind F1-3. Temperature 13°C and good visibility
1	16/06/20	DF	11.30	14.30	3	A cloudy day 8/8 with a north westerly wind F1-3. Temperature 13°C and good visibility

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
2	15/06/20	DF	08.30	11.30	3	A dry and sunny day with 30 to 80% cloud and an easterly wind F1-2. Temperature 14-20°C and good visibility
2	15/06/20	DF	11.30	14.30	3	A dry and sunny day with 30 to 80% cloud and an easterly wind F1-2. Temperature 14-20°C and good visibility
July						
1	20/07/20	DF	08.30	11.30	3	A dry sunny day with 60% cloud cover and an east/north easterly wind F1. Temperature 14 - 18°C and good visibility
1	20/07/20	DF	11.30	14.30	3	A dry sunny day with 60% cloud cover and an east/north easterly wind F1. Temperature 14 - 18°C and good visibility
2	21/07/20	DF	08.30	11.30	3	A dry day with 80% cloud cover and some sunny spells. Winds south/south westerly F1-2. Temperature 17°C with good visibility
2	21/07/20	DF	11.30	14.30	3	A dry day with 80% cloud cover and some sunny spells. Winds south/south westerly F1-2. Temperature 17°C with good visibility
August						
1	20/08/20	DF	08.30	11.30	3	A dry day with sunny spells and 60% cloud cover. Winds southerly F4-7. Temperature 15°C and visibility good
1	20/08/20	DF	11.30	14.30	3	A dry day with sunny spells and 60% cloud cover. Winds southerly F4-7. Temperature 15°C and visibility good
2	19/08/20	DF	08.30	11.30	3	A cloudy day with some rain at times and an easterly wind F2-5. Temperature 15°C and good visibility
2	19/08/20	DF	11.30	14.30	3	A cloudy day with some rain at times and an easterly wind F2-5. Temperature 15°C and good visibility
September						
1	24/09/20	DF	08.15	11.15	3	A dry day with 80% to 100% cloud and some sunny periods. Winds west to north F4-6. Temperature 7°C with good visibility
1	24/09/20	DF	11.15	14.15	3	A dry day with 80% to 100% cloud and some sunny periods. Winds west to north F4-6. Temperature 7°C with good visibility
2	25/09/20	DF	08.30	11.30	3	A dry sunny day with 40% cloud cover and north/north westerly wind F4-6. Temperature 10°C and good visibility

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
2	25/09/20	DF	11.30	14.30	3	A dry sunny day with 40% cloud cover and north/north westerly wind F4-6. Temperature 10°C and good visibility

Table 49. 2021 breeding VP survey details

VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
April						
1	19/04/21	DOB	12.05	15.05	3	Cloud cover 8/8, very calm and cool day with drizzle, wind direction southeast, wind F0-1, temp 9oC, and visibility moderate
1	19/04/21	CBH	15.39	18.39	3	Cloud cover 8/8, calm, dull and overcast day with scattered light showers and low mist moving in the distance, wind direction south-southeast, wind F0-1, temp 8oC, and visibility good
2	19/04/21	CBH	12.08	15.08	3	Cloud cover 8/8, cool and overcast day with scattered light showers, wind direction south-southeast, wind F1, temp 9oC, and visibility good
2	19/04/21	DOB	15.40	18.40	3	Cloud cover 8/8, drizzle but very calm day with no wind, temp 11oC, and visibility moderate
May						
1	10/05/21	CBH	08.25	11.25	3	Calm and bright morning with intermittent sunshine and cloud cover 6/8, rain from 10.30 onwards, temp 11oC, and visibility very good to fair in rain
1	10/05/21	DOB	12.10	15.10	3	Cloud cover 8/8, dull and breezy with rain, wind direction southwest, wind F2-3, temp 12oC, and visibility moderate to poor
2	10/05/21	DOB	08.00	11.00	3	Cloud cover 7/8, dull and dry morning with south-westerly winds, wind F1-2, temp 9oC, and visibility good to moderate
2	10/05/21	CBH	12.15	15.15	3	A dull afternoon with persistent rain and overcast, calm south-westerly winds, wind F0-1, temp 12oC, and visibility ok to poor
June						
1	28/06/21	DOB	12.10	15.10	3	Cloud cover 5/8, warm, sunny, hazy and breezy day with north-westerly winds, wind F3-6, temp 18oC-20oC, and visibility very good

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
1	28/06/21	CBH	15.34	18.34	3	Sunny, bright and warm day with a cool south-westerly breeze, wind F0-1 and cloud cover 4/8, temp 16oC, and visibility excellent
2	28/06/21	CBH	12.00	15.00	3	A bright, sunny and warm day, cloud cover 3/8 and hazy in the distance, wind direction northeast, wind F0-1, temp 20oC, and visibility very good
2	28/06/21	DOB	16.00	19.00	3	Cloud cover 6/8, warm, sunny and dry but hazy in the distance, wind direction southwest, wind F3, temp 20oC, and visibility very good
July						
1	20/07/21	CBH	09.00	12.00	3	Very warm, bright and sunny day with no clouds, wind or rain but hazy after 2km, temp 20oC-21oC, and visibility very good
1	20/07/21	CBH	12.00	15.00	3	Very warm, bright, and sunny afternoon with no wind or rain, cloud cover 0/8 with blue skies, temp 26oC, and visibility very good
2	06/07/21	DOB	09.00	12.00	3	Cloud cover 8/8, windy and raining lightly to heavy at times, wind direction southwest, wind F5, temp 13oC, and visibility poor to moderate
2	06/07/21	DOB	12.30	15.30	3	Cloud cover 8/8, misty, cool and windy with light showers, wind direction southwest, wind F5, temp 16oC, and visibility moderate
August						
1	20/08/21	DF	11.00	14.00	3	Heavy rain, cloud cover 8/8, temp 17oC, southerly wind, visibility good to poor
1	20/08/21	DF	14.30	17.30	3	Heavy rain, cloud cover 8/8, temp 17oC, southerly wind, visibility good to poor
2	21/08/21	DF	09.00	12.00	3	Southwest wind f2-3, cloud cover 80%, dry and sunny at times, temp 17oC
2	21/08/21	DF	12.30	15.30	3	Southwest wind f2-3, cloud cover 80%, dry and sunny at times, temp 17oC
September						
1	10/09/21	DF	11.00	14:00	3	Cloud cover 8/8, or 100%, west northwest wind f3-4, temp 15oC, rain, visibility good to poor
1	10/09/21	DF	14.30	17.30	3	Cloud cover 8/8, or 100%, west northwest wind f3-4, temp 15oC, rain, visibility good to poor
2	13/09/21	DF	09.00	12.00	3	Dry, cloud cover 8/8, temp 14oC, southwest wind f2-4, visibility good
2	13/09/21	DF	12.30	15.30	3	Dry, cloud cover 8/8, temp 14oC, southwest wind f2-4, visibility good

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Table 50. 2022 breeding VP survey details

VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
April						
1	07/04/22	JK	16.00	19.00	3	An evening with a mix of sunny spells and showers, partly cloudy, westerly F4 winds, temperature of 8oC, with good visibility
1	20/04/22	JK	12.00	15.00	3	An afternoon with good sunny spells, partly cloudy, south easterly F3 winds, temperature of 4oC, with good visibility
2	07/04/22	JK	12.15	15.15	3	An evening with a mix of sunny spells and some showers, partly cloudy, westerly F4 winds, temperature of 9oC, with good visibility
2	20/04/22	JK	15.30	18.20	3	An evening with good sunny spells, partly cloudy, south easterly F3 winds, temperature of 13oC, with good visibility
May						
1	10/05/22	JK	10.15	13.15	3	A morning with good sunny spells, partly cloudy, south westerly F4 winds, temperature of 13oC, with good visibility
1	12/05/22	JK	06.45	09.45	3	A morning of showers with sunny spells, partly cloudy, south/ south westerly F3 winds, a temperature of 10oC, with good visibility
2	12/05/22	JK	10.30	13.30	3	A mix of showers and sunny spells, partly cloudy, south/ south westerly F3 winds, a temperature of 14oC, with good visibility
2	10/05/22	JK	06.45	09.45	3	The morning was becoming sunny, partly cloudy, south westerly F3 winds, a temperature of 10oC, with good visibility
June						
1	09/06/22	JK	16.45	19.45	3	An evening with sunny spells, partly cloudy, south westerly F4 winds, temperature of 19oC, good visibility
1	28/06/22	JK	12.00	15.00	3	Afternoon with showers and sunny spells, mostly cloudy, south westerly F4 winds, a temperature of 16oC, with good visibility
2	09/06/22	JK	13.15	16.15	3	Afternoon with good sunny spells, partly cloudy, south westerly F4 winds, temperature of 18oC, with good visibility
2	28/06/22	JK	16.00	19.00	3	Good sunny spells with showers at times, partly cloudy, temperature of 18oC, south westerly F4 winds, with good visibility

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
July						
1	22/07/22	JK	07.15	10.15	3	Partly cloudy morning with some sunny spells, south easterly F2 winds, a temperature of 14oC, with good visibility
1	20/07/22	JK	11.00	14.00	3	Partly cloudy morning/afternoon with some sunny spells, north westerly F3 winds, a temperature of 18oC, with good visibility
2	20/07/22	JK	07.30	10.30	3	Mostly cloudy, overcast morning, north westerly F3 winds, a temperature of 16oC, with good visibility
2	22/07/22	JK	11.15	14.15	3	Partly cloudy with sunny spells, south easterly F3 winds with a temperature of 20oC, good visibility
August						
1	29/08/22	JK	12.00	15.00	3	Partly cloudy with sunny spells, south easterly F3 winds with a temperature of between 18-20oC, good visibility
1	25/08/22	JK	08.45	11.45	3	Partly cloudy with good sunny spells, south westerly F3 winds with a temperature of 16oC, good visibility
2	29/08/22	JK	08.45	11.45	3	Partly cloudy with good sunny spells, south easterly F3 winds with a temperature of 15oC, good visibility
2	25/08/22	JK	12.20	15.20	3	Partly cloudy with good sunny spells, south westerly F3 winds with a temperature of 18oC, good visibility

Table 51. 2023 breeding VP survey details

VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
April						
1	06/04/23	SN	14:00	17:00	3	An afternoon with good sunny spells, partly cloudy, westerly F3 winds, temperature of 12oC, with good visibility
1	06/04/23	SN	17:30	20.30	3	An evening with good sunny spells, partly cloudy, westerly F4 winds, temperature of 12oC, with good visibility

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
2	06/04/23	AC	14:00	17:00	3	An afternoon with good sunny spells, partly cloudy, westerly F4 winds, temperature of 12oC, with good visibility
2	06/04/23	AC	17:30	20:30	3	An evening with good sunny spells, partly cloudy, westerly F4 winds, temperature of 12oC, with good visibility
May						
1	02/05/23	AC	06:15	09:15	3	An morning with good sunny spells, partly cloudy, south-easterly F2 winds, temperature of 7oC, with good visibility
1	02/05/23	AC	09:45	12:45	3	Heavily clouded morning, south-easterly F4 winds, temperature of 14oC, with good visibility
2	02/05/23	SN	06:15	09:15	3	An morning with good sunny spells, partly cloudy, south-easterly F2 winds, temperature of 7oC, with good visibility
2	02/05/23	SN	09:45	12:45	3	Heavily clouded morning, south-easterly F4 winds, temperature of 14oC, with good visibility
June						
1	06/06/23	TT	07:28	10:25	3	An morning with good sunny spells, partly cloudy, easterly F2 winds, temperature of 13oC, with good visibility
1	06/06/23	TT	11:00	14:00	3	An late morning with good sunny spells, partly cloudy, easterly F4 winds, temperature of 22oC, with good visibility
2	06/06/23	GM	07:25	10:25	3	An morning with good sunny spells, partly cloudy, easterly F2 winds, temperature of 13oC, with good visibility
2	06/06/23	GM	11:00	14:00	3	An late morning with good sunny spells, partly cloudy, easterly F4 winds, temperature of 22oC, with good visibility
July						
1	12/07/23	GM	07:25	10:25	3	Partly cloudy morning with some light showers intermittently, westerly F3 winds, a temperature of 15oC, with good visibility
1	12/07/23	GM	11:00	14:00	3	Partly cloudy morning, westerly F3 winds, a temperature of 15oC, with good visibility
2	12/07/23	TT	07:30	10:30	3	Partly cloudy morning with some light showers intermittently, westerly F3 winds, a temperature of 15oC, with good visibility

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
2	12/07/23	TT	11:00	14:15	3	Partly cloudy morning, westerly F3 winds, a temperature of 15oC, with good visibility
August						
1	18/08/23	TT	08:00	11:00	3	Heavily cloudy light showers, south easterly F4 winds with a temperature of 16oC, good visibility
1	18/08/23	TT	11:30	14:30	3	Heavily cloudy light showers, south easterly F4 winds with a temperature of 18oC, good visibility
2	18/08/23	JNM	08:00	11:00	3	Heavily cloudy light showers, south easterly F4 winds with a temperature of 16oC, good visibility
2	18/08/23	JNM	11:30	14:30	3	Heavily cloudy light showers, south easterly F4 winds with a temperature of 18oC, good visibility
September						
1	15/09/23	SN	07:00	10:00	3	Heavily cloudy with heavy rain, northerly F3 winds with a temperature of 11oC, good visibility
1	15/09/23	SN	10:30	13:30	3	Heavily cloudy with heavy rain, northerly F4 winds with a temperature of 13oC, good visibility
2	15/09/23	TT	07:05	10:05	3	Heavily cloudy with heavy rain, northerly F3 winds with a temperature of 11oC, good visibility
2	15/09/23	TT	10:35	13:35	3	Heavily cloudy with heavy rain, northerly F4 winds with a temperature of 13oC, good visibility

Table 52. 2024 breeding VP survey details

VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
April						
1	03/04/24	GM	06:55	10:00	3	8/8 to 6/8 cloud cover, calm wind, temperature of 8°C, visibility good to excellent
1	03/04/24	GM	10:30	13:30	3	8/8 to 6/8 cloud cover, calm wind, temperature of 8°C, visibility good to excellent

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
2	03/04/24	TT	7:00	10:00	3	7/8 to 5/8 cloud cover, westerly F2 winds with a temperature of 8°C to 13°C, good visibility
2	03/04/24	TT	10:30	13:30	3	7/8 to 5/8 cloud cover, westerly F2 winds with a temperature of 8°C to 13°C, good visibility
May						
1	01/05/24	TT	06:50	09:50	3	4/8 cloud cover, southerly F4 winds with a temperature of 6°C to 13°C, moderate visibility
1	01/05/24	TT	10:20	13:20	3	4/8 cloud cover, southerly F4 winds with a temperature of 6°C to 13°C, moderate visibility
2	01/05/24	GM	07:00	10:00	3	2/8 cloud cover, F5 winds, very good visibility.
2	01/05/24	GM	10:30	13:30	3	2/8 cloud cover, F5 winds, very good visibility
June						
1	10/06/24	GM	14:35	17:35	3	4/8 cloud cover, north-western F4/F5 winds with a temperature of 16°C, very good visibility
1	10/06/24	GM	18:05	21:05	3	4/8 cloud cover, north-western F4/F5 winds with a temperature of 16°C, very good visibility
2	10/06/24	TT	14:40	17:40	3	5/8 to 2/8 cloud cover, north-western F3 winds with a temperature of 13°C to 16°C, good visibility
2	10/06/24	TT	18:10	21:10	3	5/8 to 2/8 cloud cover, north-western F3 winds with a temperature of 13°C to 16°C, good visibility
July						
1	02/07/24	TT	06:50	09:50	3	8/8 cloud cover, initially a southerly F1 wind changing to a westerly F2 wind with a temperature of 11°C to 18°C, moderate to good visibility
1	02/07/24	TT	10:20	13:20	3	8/8 cloud cover, initially a southerly F1 wind changing to a westerly F2 wind with a temperature of 11°C to 18°C, moderate to good visibility
2	02/07/24	GM	07:00	10:00	3	8/8 cloud cover, southerly/south-western F2 wind with a temperature of 11°C to 18°C, good visibility

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
2	02/07/24	GM	10:30	13:30	3	8/8 cloud cover, southerly/south-western F2 wind with a temperature of 11°C to 18°C, good visibility
August						
1	08/08/24	GM	07:55	11:00	3	South-western F3 wind, good visibility
1	08/08/24	GM	11:30	14:30	3	South-western F3 wind, good visibility, rain shower from 13:05 to 14:07
2	08/08/24	TT	08:00	11:00	3	7/8 to 8/8 cloud cover, south-eastern F2 wind with a temperature of 15°C to 18°C, good visibility
2	08/08/24	TT	11:30	14:30	3	7/8 to 8/8 cloud cover, south-western F4 wind with a temperature of 15°C to 18°C, good visibility, light showers.
September						
1	11/09/24	TT	08:00	11:00	3	5/8 to 7/8 cloud cover, north-western F4 winds with temperatures of 10°C to 14°C, good visibility, showers initially
1	11/09/24	TT	11:30	14:30	3	5/8 to 7/8 cloud cover, north-western F5 winds with temperatures of 10°C to 14°C, good visibility, one shower
2	11/09/24	GM	08:00	11:04	3	6/8 cloud cover, northerly/north-western F2 to F4 winds with temperatures from 9°C, good to very good visibility, shower at 10:26
2	11/09/24	GM	11:30	14:30	3	6/8 cloud cover, northerly/north-western F2 to F4 winds with temperatures from 9°C, good to very good visibility

Table 53. 2020/21 non-breeding VP survey details

VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
October						
1	12/10/20	DF	08.30	11.30	3	Cloud cover 40-60%, dry and sunny periods, northwest wind f3-5, temp 11-13oC, visibility good
1	12/10/20	DF	11.30	14.30	3	Cloud cover 40-60%, dry and sunny periods, northwest wind f3-5, temp 11-13oC, visibility good
2	09/10/20	DF	08.30	11.30	3	Cloud cover 70%, heavy showers at times, northwest wind f2-5, temp 8oC, visibility good

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
2	09/10/20	DF	11.30	2.30	3	Cloud cover 70%, heavy showers at times, northwest wind f2-5, temp 8oC, visibility good
November						
1	25/11/20	DOB	10.00	13.00	3	Cloud cover 1/8, cold, dry and bright, southwest wind f1-2, breezy, temp 7oC, visibility very good
1	25/11/20	MaK	13.30	16.30	3	Cloud cover 1/8, clear skies, sun behind, southwest wind f3, temp 9oC, visibility good
2	25/11/20	MaK	10.00	13.00	3	Cloud cover 1/8, clear skies, west wind f1-3, temp 9oC, visibility good
2	25/11/20	DOB	13.30	16.30	3	Cloud cover 1/8, dry, bright and sunny, southwest wind f1, temp 10oC, visibility very good
December						
1	08/12/20	MaK	09.00	12.00	3	Cloud cover 1/8, clear sky over the site, very cold, southwest wind f2-3, temp 3oC, visibility excellent
1	08/12/20	DOB	13.10	16.10	3	Cloud cover 2/8, breezy, bright, dry and cold, southwest wind f2, temp 6oC, visibility very good
2	08/12/20	DOB	09.00	12.00	3	Cloud cover 4/8, very cold, dry, bright and fresh, very slight southwest breeze f1, temp 4oC, visibility very good
2	08/12/20	MaK	13.10	16.10	3	Cloud cover 2/8, clear sky over most of the site, very cold, no rain, south-southwest wind f2-3, temp 6oC, visibility excellent
January						
1	20/01/21	MaK	08.35	11.35	3	Clear and cold, no rain, cloud cover 7/8, west wind f1, temp 4oC, visibility excellent
1	20/01/21	DOB	12.50	15.50	3	Cold, dry, brightening up, some sunny spells, cloud cover 6/8, northwest wind f1, breezy, temp 4oC, visibility good
2	20/01/21	DOB	08.52	11.52	3	Cloud cover 8/8 – 6/8, cool, dull morning, no rain, no wind, temp 5-6oC, visibility good
2	20/01/21	MaK	12.50	15.50	3	Cloud cover 6/8, no rain, westerly wind f0/1, temp 5oC, visibility excellent
February						
1	16/02/21	DOB	08.30	11.30	3	Cloud cover 8/8, drizzle, dull, cold, sunny spells at 10AM with cloud cover reducing to 6/8 and dry, easterly breeze f1, temp 9oC, visibility okay, hazy with rain in the distance
1	16/02/21	MaK	12.35	15.35	3	Cloud cover 5/8, sunny day with 1 rain shower from 13.18 – 13.30, southwest wind f2-3, temp 9oC, visibility excellent
2	16/02/21	MaK	08.30	11.30	3	No rain, the morning started off overcast with some sunshine in the last hour, southwest wind f3-4, picking up to f4 in the last hour, temp 7oC, visibility excellent

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
2	16/02/21	DOB	12.37	15.37	3	Cloud cover 5/8, dry, bright, sunny spells with showers, easterly wind f1-2, very breezy gusts of f3, temp 9oC, visibility very good
March						
1	12/03/21	MaK	08.30	11.30	3	Cloud cover 8/8, cold, heavy showers at times up to 800 m with poor visibility, south wind F2, temp 5oC, visibility good but poor during rain shower periods
1	12/03/21	DOB	12.30	15.30	3	Cloud cover 8/8, heavy rain, hail, thunder, windy and cold, some dry spells and cloud cover reducing to 7/8, southeast wind f2, temp 6oC, visibility poor but good during dry spells
2	12/03/21	DOB	08.30	11.30	3	Cloud cover 8/8, drizzle, cool, heavy showers later on, southeast wind f1, temp 5oC, visibility good but hazy in the distance
2	12/03/21	MaK	12.30	15.30	3	Heavy showers at times, windy, less rainfall than experienced this morning, poor visibility when raining to 500m, southwest wind F4-5 (gusts up to F6 at times), temp 6oC, visibility good except when raining

Table 54. 2021/22 non-breeding VP survey details

VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
October						
1	21/10/21	JK	13.00	16.00	3	Sunny with clear skies. Wind NW F3, temp 12oC, visibility good
1	22/10/21	JK	08.45	11.45	3	Mostly cloudy with overcast skies and some showers. Wind SW F3, temp 11oC, visibility good
2	21/10/21	JK	09.10	12.10	3	Sunny with clear skies. Wind NW F2, temp 9oC, visibility good
2	22/10/21	JK	12.15	15.15	3	Partly cloudy skies, clearing for sunny spells. Wind SW F3, temp 13oC, visibility good
November						
1	08/11/21	JK	08.30	11.30	3	Good sunny spells with partly cloudy skies. Wind SW F3, temp 12oC, visibility good
1	12/11/21	JK	11.40	14.40	3	Mostly cloudy with blustery showers. Wind SW F5, temp 13oC, visibility good
2	08/11/21	JK	12.30	15.30	3	Mild good sunny spells with partly cloudy skies. Wind SW F3, temp 16oC, visibility good
2	12/11/21	JK	08.20	11.20	3	Strong gust with blustering showers and mostly cloudy skies. Wind SW F5, temp 12oc, visibility good

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
December						
1	20/12/21	JK	08.30	11.30	3	Mostly cloudy morning with fog. Wind NE F2, temp 6oC, visibility moderate to good
1	22/12/21	JK	12.00	15.00	3	Mostly cloudy day with showers. Wind SE F4, temp 10oC, visibility good
2	20/12/21	JK	12.15	15.15	3	Mostly cloudy with fog lifting. Wind SE F3, temp 7oC, visibility moderate to good
2	22/12/21	JK	08.30	11.30	3	Mostly cloudy with rain at times. Wind SE F4, temp 8oC, visibility good
January						
1	19/01/22	JK	11.30	14.30	3	Partly cloudy day with sunny spells. Wind NW F3, temp 8oC, visibility good
1	26/01/22	JK	08.00	11.00	3	Clear sunny day with cloud cover of 2-3 oktas. Wind S-SW F2, temp 4oC, visibility good
2	19/01/22	JK	08.00	11.00	3	Partly cloudy day clearing to give sunny spells. Wind NW F3, temp 6oC, visibility good
2	26/01/22	JK	12.00	15.00	3	Partly cloudy with good sunny spells. Wind S-SW F3, temp 8oC, visibility good
February						
1	16/02/22	JK	11.15	14.15	3	Overcast and stormy with heavy showers and rain at times. Wind SW F6, temp 13oC, visibility moderate to good
1	17/02/22	JK	08.00	11.00	3	Mostly cloudy day with showers some of which were hail. Wind SW F4, temp 7oC, visibility good
2	16/02/22	JK	08.00	11.00	3	Overcast with stormy winds, rain, and showers. Wind SW F5, temp 11oC, visibility moderate to good
2	17/02/22	JK	11.30	14.30	3	Mostly cloudy with some showers. Wind SW F4-5, temp 8oC, visibility good
March						
1	10/03/22	JK	09.30	12.30	3	Cold and mostly cloudy morning. Wind SE F3, temp 7oC, visibility good
1	22/03/22	JK	11.20	14.20	3	Partly cloudy day with sunny spells. Wind SE F4, temp 14oC, visibility good
2	10/03/22	JK	13.00	16.00	3	Mostly cloudy day. Wind SE F4, temp 9oC, visibility good
2	22/03/22	JK	08.00	11.00	3	Partly cloudy day with good sunny spells. Wind SE F3, temp 10oC, visibility good

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Table 55. 2022/23 non-breeding VP survey details

VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
October						
1	23/10/22	SN	09.00	15.00	6	Cloudy day, light showers, Wind SW F4, temp 6oC, visibility good
2	23/10/22	AC	09.00	15.00	6	Cloudy day, light showers, Wind SW F5, temp 6oC, visibility good
November						
1	24/11/22	AC	08.45	14.45	6	Overcast, light showers, Wind SW F5, temp 8oC, visibility good
2	24/11/22	SN	08.30	14.30	6	Overcast, light showers, Wind SW F5, temp 7oC, visibility good
December						
1	01/12/22	AC	08.00	11.00	3	Overcast, dry, Wind SE F3, temp 9oC, visibility good
1	01/12/22	AC	11.30	14.30	3	Overcast, dry, Wind SE F5, temp 10oC, visibility good
2	01/12/22	SN	08.00	11.00	3	Partly cloudy, dry, Wind SE F3, temp 9oC, visibility good
2	01/12/22	SN	11.30	14.30	3	Partly cloudy, dry, Wind SE F4, temp 9oC, visibility good
January						
1	10/01/23	SN	11.00	14.00	3	Overcast, drizzle, Wind SW F5, temp 13oC, visibility poor
1	10/01/23	SN	14.30	17.30	3	Overcast, heavy rain, Wind SW F6, temp 13oC, visibility poor
2	10/01/23	JNM	11.00	14.00	3	Overcast, drizzle, Wind SW F5, temp 14oC, visibility poor
2	10/01/23	JNM	14.30	17.30	3	Overcast, heavy showers, Wind SW F6, temp 14oC, visibility poor
February						
1	07/02/23	AC	07.30	10.30	3	Cloudy day, dry, Wind SW F1, temp 7oC, visibility good
1	07/02/23	AC	11.00	14.00	3	Cloudy day, dry, Wind SW F2, temp 11oC, visibility good
2	07/02/23	SN	07.30	10.30	3	Partly cloudy, dry, Wind S F2, temp 5oC, visibility good
2	07/02/23	SN	11.00	14.00	3	Partly cloudy, dry, Wind S F2, temp 5oC, visibility good

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
March						
1	06/03/23	AC	12.00	15.00	3	Overcast, light showers, Wind W F3, temp 8oC, visibility good
1	06/03/23	AC	15.30	18.30	3	Cloudy, light showers, Wind W F4, temp 6oC, visibility moderate
2	06/03/23	PC	12.00	15.00	3	Partly cloudy, light showers, Wind W F1, temp 9oC, visibility good
2	06/03/23	PC	15.30	18.30	3	Partly cloudy, light showers, Wind W F2, temp 9oC, visibility good

Table 56. 2023/24 non-breeding VP survey details

VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
October						
1	06/10/23	SD	07:30	10:30	3	100% cloud cover, south-western wind with a temperature of 12 °c, moderate visibility, rain before survey
1	06/10/23	SD	11:00	14:00	3	100% cloud cover, south-western wind with a temperature of 12 °c, moderate visibility, rain before survey
2	06/10/23	PC	07:30	10:30	3	100% cloud cover, north-western F3 to F5 winds with a temperature of 16°c, good visibility
2	06/10/23	PC	11:00	14:00	3	100% cloud cover, north-western F3 to F5 winds with a temperature of 16°c, good visibility
November						
1	09/11/23	PC	11:00	14:00	3	100% cloud cover, north-western F3 to F5 winds with a temperature of 8°c, good visibility, 0.7mm of rain
1	09/11/23	PC	14:30	17:30	3	100% cloud cover, north-western F3 to F5 winds with a temperature of 8°c, good visibility, 0.7mm of rain
2	09/11/23	SD	11:00	14:00	3	100% cloud cover, F6 wind from the east with a temperature of 8°c, moderate visibility and heavy rain.
2	09/11/23	SD	14:30	17:30	3	100% cloud cover, F6 wind from the east with a temperature of 8°c, moderate visibility and heavy rain.
December						
1	07/12/23	PC	08:00	11:00	3	100% cloud cover. South-eastern F3 to F4 winds with a temperature of 11°c, ok visibility and 0.3mm of rain.

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
1	07/12/23	PC	11:30	14:30	3	100% cloud cover. South-eastern F3 to F4 winds with a temperature of 11°C, ok visibility and 0.3mm of rain.
2	07/12/23	SD	08:00	11:00	3	100% cloud cover, F3 wind from the south with a temperature of 8°C, moderate visibility, heavy rain at the start of the survey clearing by 09:30
2	07/12/23	SD	11:30	14:30	3	100% cloud cover, F3 wind from the south with a temperature of 8°C, moderate visibility, heavy rain at the start of the survey clearing by 09:30
January						
1	05/01/24	PC	11:00	14:00	3	0/8 cloud cover, north-western F1 to F2 wind with a temperature of 4°C, good visibility with odd showers
1	05/01/24	PC	14:30	17:30	3	0/8 cloud cover, north-western F1 to F2 wind with a temperature of 4°C, good visibility with odd showers
2	05/01/24	SD	11:00	14:00	3	0-33% cloud coverage, F2 winds from the west with a temperature of 7°C and good visibility
2	05/01/24	SD	14:30	17:30	3	0-33% cloud coverage, F2 winds from the west with a temperature of 7°C and good visibility
February						
1	08/02/24	SD	07:30	10:30	3	100% cloud coverage, F4 winds from the west with a temperature of 5°C, poor visibility with heavy rain all survey
1	08/02/24	SD	11:00	14:00	3	100% cloud coverage, F4 winds from the west with a temperature of 5°C, poor visibility with heavy rain all survey
2	08/02/24	PC	07:30	10:30	3	100% cloud coverage, south-eastern F2 winds with a temperature of 5°C, good visibility with light rain.
2	08/02/24	PC	11:00	14:00	3	100% cloud coverage, south-eastern F2 winds with a temperature of 5°C, good visibility with light rain.
March						
1	07/03/24	PC	12:00	15:00	3	8/9 cloud coverage, south-eastern F3 to F5 winds with a temperature of 10°C, good visibility
1	07/03/24	PC	15:30	18:30	3	8/9 cloud coverage, south-eastern F3 to F5 winds with a temperature of 10°C, good visibility
2	07/03/24	SD	12:00	15:00	3	100% cloud coverage, F6 winds from the south-east with a temperature of 8°C, moderate visibility
2	07/03/24	SD	15:30	18:30	3	100% cloud coverage, F6 winds from the south-east with a temperature of 8°C, moderate visibility

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Table 57. 2024/25 non-breeding VP survey details

VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
October						
1	04/10/24	GM	08:30	11:30	3	8/8 cloud coverage, south-eastern F3 to F5 winds with a temperature of 14°C to 18°C, good visibility
1	04/10/24	GM	12:00	15:00	3	8/8 cloud coverage, south-eastern F3 to F5 winds with a temperature of 14°C to 18°C, good visibility
2	04/10/24	TT	08:00	11:00	3	8/8 cloud coverage, south-eastern to southern F4 winds with a temperature of 14 to 18°C, good visibility
2	04/10/24	TT	11:30	14:30	3	8/8 cloud coverage, south-eastern to southern F4 winds with a temperature of 14 to 18°C, good visibility
November						
1	07/11/24	TT	10:55	13:55	3	8/8 cloud coverage, south-eastern F4 winds with a temperature of 14°C to 15°C, good to moderate visibility and occasional light showers
1	07/11/24	TT	14:25	17:25	3	8/8 cloud coverage, south-eastern F4 winds with a temperature of 14°C to 15°C, good to moderate visibility and occasional light showers
2	07/11/24	GM	11:00	14:00	3	8/8 cloud coverage, southerly/south-eastern F3 to F4 winds with a temperature of 14°C to 16°C, good to moderate visibility and light drizzle at 17:00
2	07/11/24	GM	14:30	17:30	3	8/8 cloud coverage, southerly/south-eastern F3 to F4 winds with a temperature of 14°C to 16°C, good to moderate visibility and light drizzle at 17:00
December						
1	04/12/24	GM	08:45	?	?	6/8 to 8/8 cloud coverage, east/south-eastern F2 to F6 winds with a temperature of 11°C to 13°C, good visibility and odd showers
1	04/12/24	GM	?	14:20	?	6/8 to 8/8 cloud coverage, east/south-eastern F2 to F6 winds with a temperature of 11°C to 13°C, good visibility and odd showers
2	04/12/24	TT	08:00	11:00	3	7/8 to 8/8 cloud coverage, south-eastern F3 to F4 winds initially, then southerly F5 winds with a temperature of 7°C to 12°C, good visibility and rain from 10:30 to 11:00
2	04/12/24	TT	11:30	14:30	3	7/8 to 8/8 cloud coverage until 14:00, sun after that. south-eastern F3 to F4 winds initially, then southerly F5 winds with a temperature of 7°C to 12°C, good visibility and rain from 12:00
January						
1	13/01/25	TT	10:50	13:50	3	7/8 cloud coverage, southerly F4 wind with a temperature of 12°C, good visibility and showers initially and then later in the day

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VP	Date	Observer	Start time	Finish time	Duration (hours)	Weather
1	13/01/25	TT	14:20	17:20	3	7/8 cloud coverage, southerly F4 wind with a temperature of 12°C, good visibility and showers initially and then later in the day
2	13/01/25	GM	11:00	14:00	3	8/8 cloud coverage, southerly/south-western F4 to F5 wind with temperatures of 13°C, good visibility and showers
2	13/01/25	GM	14:30	17:30	3	8/8 cloud coverage, southerly/south-western F4 to F5 wind with temperatures of 13°C, good visibility and showers
February						
1	07/02/25	GM	07:45	10:45	3	2/8 to 6/8 cloud coverage, south-eastern wind with temperatures of -1°C to +6°C, excellent visibility and ground frost until 10am
1	07/02/25	GM	11:15	14:15	3	2/8 to 6/8 cloud coverage, south-eastern wind with temperatures of -1°C to +6°C, excellent visibility and ground frost until 10am
2	07/02/25	TT	08:00	11:00	3	1/8 to 5/8 cloud coverage, easterly F3 wind with temperatures of 0°C to 6°C, good visibility
2	07/02/25	TT	11:30	14:30	3	1/8 to 5/8 cloud coverage, easterly F3 wind with temperatures of 0°C to 6°C, good visibility
March						
1	18/03/25	TT	12:05	15:05	3	8/8 cloud coverage, south-eastern wind with temperatures of 8°C to 9°C, moderate visibility and dry
1	18/03/25	TT	15:35	18:35	3	7/8 cloud coverage, south-eastern wind with temperatures of 8°C to 9°C, moderate visibility and dry
2	18/03/25	GM	12:00	15:00	3	7/8 cloud coverage, south-eastern wind with temperatures of 8°C to 10°C, moderate visibility and dry
2	18/03/25	GM	15:30	18:30	3	5/8 cloud coverage, south-eastern wind with temperatures of 8°C to 10°C, moderate visibility and dry

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Table 58. Summary of breeding VP survey effort 1

VP	Hours of VP survey effort																									
	2020						2021						2022						2023						Total	
	Apr	May	Jun	Jul	Aug	Sep	Apr	May	Jun	Jul	Aug	Sep	Apr	May	Jun	Jul	Aug	Sep	Apr	May	Jun	Jul	Aug	Sep		
1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	-	6	6	6	6	6	6	102	
2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	-	6	6	6	6	6	6	102	

Table 59. Summary of breeding VP survey effort 2

VP	Hours of VP survey effort						
	2024						Total
	Apr	May	Jun	Jul	Aug	Sep	
1	7	6	6	6	6	6	37
2	6	6	6	6	6	6	36

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Table 60. Summary of non-breeding VP survey effort 1

VP	Hours of VP survey effort																				
	2020/21						2021/22						2022/23						Total		
	Oct	Nov	Dec	Jan	Feb	Mar	Oct	Nov	Dec	Jan	Feb	Mar	Oct	Nov	Dec	Jan	Feb	Mar			
1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	108	
2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	108

Table 61. Summary of non-breeding VP survey effort 2

VP	Hours of VP survey effort													
	2023/24						2024/25						Total	
	Oct	Nov	Dec	Jan	Feb	Mar	Oct	Nov	Dec	Jan	Feb	Mar		
1	6	6	6	6	6	6	6	6	6	6	6	6	6	72
2	6	6	6	6	6	6	6	6	6	6	6	6	6	72

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Transect surveys

Table 62. 2020 transect survey details

Date	Observer	Start time	Finish time	Weather	Visibility
20/04/20	IMcD	12.20	13.00	Dry, calm conditions, east wind f2, temp 13oC	Very good
25/05/20	IMcD	12.15	13.00	Dry, calm conditions, south southwest wind f3, temp 13oC	Good
25/11/20	DOB, MaK	13.00	13.20	Cloud cover 1/8, dry, bright and sunny, southwest wind f2, temp 7oC	Good
08/12/20	DOB, MaK	12.35	13.00	Cloud cover 2/8, dry and bright, southwest wind f1, temp 6oC	Very good

Table 63. 2021 transect survey details

Date	Observer	Start time	Finish time	Weather	Visibility
20/01/21	DOB, MaK	12.00	12.45	Cloud cover 5/8, bright, dry and cold, no rain, northwest wind, temp 4oC	Good
19/04/21	DOB	15.10	15.35	Cloud cover 8/8, drizzly and cool, temp 9oC	Good
10/05/21	DOB	11.08	11.38	Cloud cover 8/8 with continuous rain, wind direction southwest, wind F2, temp 12oC	Poor
28/06/21	DOB	15.25	15.51	Cloud cover 5/8, dry, warm, and breezy, wind direction west, wind F3-4	Good
20/07/21	CBH	08.30	09.00	Very warm and bright sunny morning, cloud cover 0/8, dry with no wind	Excellent
21/10/21	JK	12:15	12.50	Clear Sunny day, Wind NW F2. Temp 9oC	Good
08/11/21	JK	11:50	12.20	Partly cloudy day with good sunny spells. Wind SW F3, temp 16oC	Good
20/12/21	JK	11:40	12:10	Mostly cloudy with some sunny spells. Wind NE F3, temp 6oC	Good

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Table 64. 2022 transect survey details

Date	Observer	Start time	Finish time	Weather	Visibility
26/01/22	JK	11:15	11:40	Partly cloudy with clear sunny spells. Wind S-SW F2, temp 9oC.	Good
12/05/22	JK	09.50	10.15	Partly cloudy, good sunny spells. Wind S-SW F3. Temp 13oC	Good
28/06/22	JK	15.15	15.45	Mostly cloudy with some sunny spells & showers. Wind SW F4. Temp 17oC.	Good
22/07/22	JK	10.20	10.50	Partly cloudy with sunny spells. Wind SE F2, temp 16oC.	Good
17/08/22	JK	09.00	11.30	Partly cloudy, good sunny spells. Wind NE F3. Temp 15-17oC	Good

Table 65. 2023 transect survey details

Date	Observer	Transect route	Start time	Finish time	Weather	Visibility
20/01/23	SN	A	10:30	11:30	Overcast, drizzle, Wind SE F3, temp 4oC	Moderate
20/01/23	SN	B	11:40	12:20	Overcast, drizzle, Wind SE F3, temp 4oC	Moderate
20/01/23	SN	C	12:30	13:30	Overcast, drizzle, Wind SE F3, temp 4oC	Poor
20/01/23	SN	D	14:00	15:00	Overcast, heavy rain, Wind SE F3, temp 4oC	Moderate
16/02/23	JNM	A	13:00	13:50	Overcast, drizzle, Wind SW F3, temp 13oC	Good
16/02/23	JNM	B	14:00	14:30	Overcast, light showers, Wind SW F3, temp 13oC	Good
16/02/23	JNM	C	14:40	15:10	Overcast, light showers, Wind SW F4, temp 13oC	Good
16/02/23	JNM	D	15:20	15:40	Overcast, light showers, Wind SW F4, temp 13oC	Good
07/03/23	SN	A	09:30	10:30	Partly cloudy, dry, Wind SW F3, temp 2oC	Good
07/03/23	SN	B	10:35	11:10	Partly cloudy, dry, Wind SW F3, temp 2oC	Good
07/03/23	SN	C	11:15	11:50	Partly cloudy, dry, Wind SW F3, temp 2oC	Good
07/03/23	SN	D	11:55	12:40	Partly cloudy, dry, Wind SW F3, temp 2oC	Good

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Date	Observer	Transect route	Start time	Finish time	Weather	Visibility
18/05/23	AC	A-D	08:25	12:50	Heavily cloudy, dry, Wind SW F3, temp 17oC	Good
19/06/23	TT	A-D	09:00	13:20	Partly cloudy, light showers, Wind SW F3, temp 19oC	Good
09/08/23	SN	A-D	09:00	13:00	Heavily cloudy, dry, Wind SW F2, temp 19oC	Good
13/09/23	SN	A-D	09:00	12:45	Heavily cloudy, dry, Wind SW F2, temp 12oC	Good

Table 66. 2024 transect survey details

Date	Observer	Transect route	Start time	Finish time	Weather	Visibility
03/01/24	SD	A-D	09:30	13:30	100% cloud cover, dry, F3 wind from west, temp 7°C	Moderate
01/02/24	SD	A-D	09:00	13:00	100% cloud cover, dry, F2 wind from south, temp 3°C	Good
06/03/24	PC	A-D	08:30	12:00	100% cloud cover, dry, F2 to F3 SE wind, temp 9°C, odd shower	Good
02/04/24	SD	A-D	08:30	12:00	6/8 cloud coverage, dry, F2 wind from east, temp 5°C, fog in places	Moderate
02/05/24	SD	A-D	09:30	12:30	100% cloud coverage, heavy rain during whole survey, F5 wind from the west, temp 6°C	Poor
04/06/24	SD	A-D	09:00	12:04	8/8 cloud coverage, heavy mist during survey, cleared at end of survey, no wind, temp 12°C	Poor
03/07/24	SD	A-D	09:00	12:30	8/8 cloud coverage, rain, temp 11°C	Moderate
02/08/24	SD	A-D	09:00	12:00	7/8 cloud coverage, thunderstorm in the middle of the survey, F5 wind from the west, temp 14°C	Good
03/09/24	SD	A-D	09:45	12:30	8/8 cloud coverage, light mist throughout survey, F2 wind from the south, temp 14°C	Good
03/10/24	SD	A-D	09:05	12:05	8/8 cloud coverage, light mist throughout survey, F2 wind from the west, temp 10°C	Moderate

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Date	Observer	Transect route	Start time	Finish time	Weather	Visibility
04/11/24	SD	A-D	09:00	12:00	8/8 cloud coverage, heavy fog at start of survey slowly clearing after 30 mins, temp 7°C	Good
05/12/24	SD	A-D	09:00	13:30	8/8 cloud coverage, light mist during survey, F5 wind from the west, temp 8°C	Good

Table 67. 2025 transect survey details

Date	Observer	Transect route	Start time	Finish time	Weather	Visibility
09/01/25	SD	A-D	09:00	12:00	0/8 cloud coverage, F3 wind from the west, heavy snow and frost night before, temp 0°C	Excellent
04/02/25	SD	A-D	09:15	12:00	2/8 cloud coverage, dry, F4 wind from south-east, temp 6°C	Excellent
06/03/25	SD	A-D	07:30	10:05	3/8 cloud coverage, dry, F4 wind from south, temp 8°C	Good

Survey details for additional survey types

Table 68. 2022/23 hinterland (5 km) transect survey details

Date	Observer	Start time	Finish time	Weather	Visibility
01/12/22	JNM	09:00	15:00	Cloudy, light showers, Wind SE F3, temp 11oC	Good
09/02/23	SN	09:00	15:00	Partly cloudy, dry, Wind SW F3, temp 6oC	Good

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Table 69. 2023/24 hinterland (5 km) transect survey details

Date	Observer	Start time	Finish time	Weather	Visibility
15/01/24	SD	10:00	15:30	33-66% cloud coverage, dry, frost overnight, F1 wind to the north-west, temp 2°C	good

Table 70. 2022/23 wildfowl distribution survey details

Date	Location	Observer	Start time	Finish time	Weather	Visibility
01/12/22	Doohyle Lough	JNM	14:00	14:30	Cloudy, dry, Wind SE P3, temp 11oC	Good
10/01/23	Doohyle Lough	JNM	14:10	14:25	Overcast, drizzle, Wind SW P5, temp 14oC	Moderate

Table 71. 2023 wader survey details

Date	Location	Observer	Start time	Finish time	Weather	Visibility
10/05/2023	1	JD	07:00	09:30	Heavily cloudy, dry, Wind SW P3, temp 10oC	Good
22/05/2023	1	AC	10:50	14:15	Heavily cloudy, dry, Wind N P3, temp 16oC	Good
15/06/2023	1	SN	08:20	12:30	Heavily cloudy, dry, Wind SE P1, temp 17oC	Good
08/06/2023	1	TR	06:00	09:00	Overcast, dry, Wind E P2, temp 12oC	Good

Table 72. 2023 bird of prey survey details

Date	Location	Observer	Start time	Finish time	Weather	Visibility
15/05/2023	2km hinterland	SD	07:30	13:30	Overcast, light showers, Wind NW P3, temp 14oC	Good

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Date	Location	Observer	Start time	Finish time	Weather	Visibility
16/06/2023	2km hinterland	TT	10:30	13:30	Heavily cloudy, heavy showers, Wind SE P4, temp 19oC	Moderate – Good
17/07/2023	2km hinterland	PC	07:00	13:00	Heavily cloudy, light showers, Wind W P3, temp 17oC	Good

Table 73. 2024 bird of prey survey details

Date	Location	Observer	Start time	Finish time	Weather	Visibility
03/05/2024	5km hinterland	SM	09:00	14:00	7/8 cloud coverage, light showers, westerly F3 wind	Moderate
05/06/2024	5km hinterland	SD	09:00	14:00	5/8 cloud coverage, light showers throughout survey with an occasional heavy shower. F4 winds from the west with temperatures of 13C	Moderate

Specific raptor surveys

Table 74. Barn owl survey details

Date	Observer	Start time	Finish time	Survey type	Weather
28/05/2022	MOC	20.00	23.40	Dusk activity survey	Sunny, bright, cloud cover 2/8, light breeze, temp 13oC, visibility very good
23/06/2022	MOC	21.00	01.15	Dusk activity survey	Dry, light breeze, visibility good
22/07/2022	MOC	15.30	18.35	Daytime inspection	Light Southerly, Force 2-3, 8/8 cloud throughout, dry throughout
22/07/2022	MOC	20.30	23.15	Dusk activity survey	Light Southerly, Force 2-3, 8/8 cloud throughout, dry at first, but persistent rain started at 23:05
25/08/2022	MOC	20.30	21.50	Dusk activity survey	Light South-westerly, Force 1-2, 4/8 cloud, later 8/8 cloud and light rain. Sunset was at 20:44
09/05/2023	MOC	14:00	19:35	Daytime inspection	South-westerly, Force 4-5, 4/8 cloud, light rain, 13oC
30/05/2023	MOC	21:50	02:30	Dusk activity survey	No wind, Force 1, 1/8 cloud, dry, 13oC
01/08/2023	MOC	21:10	23:10	Dusk inspection	South-westerly, Force 3-4, 6/8 cloud, dry, 16oC

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Date	Observer	Start time	Finish time	Survey type	Weather
01/08/2023	MOC	23:50	02:30	Dusk activity	South-westerly, Force 3-4, 6/8 cloud, dry, 16oC
02/08/2023	MOC	11:30	13:00	Daytime inspection	South-westerly, Force 3-4, 6/8 cloud, dry, 18oC
15/10/2023	MOC	18:30	21:30	Dusk activity	South-easterly, Force 1-2, 6/8 cloud, dry, 8oC

Table 75. Hen harrier survey details

Date	Observer	Start time	Finish time	Weather	Visibility
28/11/2022	JNM	13.30	18.00	Clear, dry, Wind SW P3, temp 11oC	Good
13/02/2023	JNM	14.30	18.30	Partially cloudy, dry, Wind SW P3, temp 8oC	Good
13/03/2023	JNM	14.45	18.45	Partially cloudy, dry Wind SW P4, temp 9oC	Good
06/04/2023	JNM	10:30	15:30	Clear, dry, Wind W P3, temp 12oC	Good
05/05/2023	SN	08:35	13:45	Heavily cloudy, Wind S P3, temp 15oC	Good
02/06/2023	GM	12:55	18:05	Clear, dry, Wind SE P2, temp 22oC	Good
09/10/2023	SD	15:00	20:00	Partially cloudy, dry, Wind S P2, temp 20oC	Good
04/12/2023	SD	14:30	17:00	Partially cloudy, dry, Wind NW P3, temp 4oC	Good
02/01/2024	SD	13:30	17:00	Heavily cloudy, light showers, Wind SW P4, temp 8oC	Good
12/02/2024	SD	15:00	18:15	Heavily cloudy, light showers, Wind W P4, temp 6oC	Good
06/03/2024	SD	16:40	19:15	Heavily cloudy, drizzle, Wind SE P5, temp 11oC	Moderate
06/11/2024	SD	15:30	17:30	Clear, dry, Wind S P3, temp 8oC	Good

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Table 76. Peregrine survey details

Date	Observer	Start time	Finish time	Weather	Visibility
22/06/2023	JNM	10:30	16:00	2/8 cloud cover, dry, wind F1-2 from south, temp 22oC	Good
28/06/2023	JNM	9:00	14:50	4/8 cloud cover, rain to dry, wind F3-5 from south-west, temp 17-18oC	Ok - Good
02/07/2024	SD	08:00	14:00	8/8 cloud cover, dry, Wind F2 from south, temp 11oC	Good

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ANNEX C – SURVEY RESULTS

All flight observations by target species recorded during the VP surveys undertaken between 2020 and 2025 are summarised below. Peak counts from VP surveys and transect surveys, and summaries of results for hinterland bird surveys and wildfowl distribution surveys, are also provided.

VP survey target and secondary species observations

Table 77. Vantage Point survey results – black-headed gull

Black-headed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2020/21														
25/11/2020	1	Unknown	Unknown	Improved grassland	2	13:00	Flying, soaring	20	-	30	-	-	-	-
08/12/2020	2	Unknown	Adult and 1st winter	Improved grassland	120	9.00	On the ground, flying	0-20	6120	-	-	-	-	-
08/12/2020	1	Unknown	Unknown	Improved grassland	1	11.32	Flying	20-50	-	-	25	-	-	-
08/12/2020	1	Unknown	Unknown	Improved grassland, farmhouse, treeline	1	13.17	Flying	0-20	-	10	-	-	-	-
08/12/2020	2	Unknown	Unknown	Improved grassland	4	13.45	Flying, on the ground	0-20	- 180 -	4 - 13	- -	- -	- -	- -
08/12/2020	1	Unknown	Unknown	Improved grassland, farmhouse, treeline	1	14.05	Flying	15	-	15	-	-	-	-
08/12/2020	2	Unknown	Unknown	Improved grassland	10	14.14	Flying, on the ground	0-20	1980	3	-	-	-	-
08/12/2020	2	Unknown	Unknown	Improved grassland	14	14.15	Flying, on the ground	0-20	1920	5	-	-	-	-

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Black-headed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
08/12/2020	2	Unknown	Unknown	Improved grassland	15	14.22	Flying, on the ground	0-20	1500	5	-	-	-	-
08/12/2020	1	Unknown	Unknown	Improved grassland, farmhouse, treeline	1	14.41	Flying	0-20	-	16	-	-	-	-
08/12/2020	1	Unknown	Unknown	Improved grassland, farmhouse, treeline	1	15.42	Flying	10	-	7	-	-	-	-
20/01/2021	1	Unknown	Unknown	Bog, improved grassland	60	10.19	Flying	20-50	-	-	15	-	-	-
16/02/2021	1	Unknown	Unknown	Improved grassland	1	15.22	Flying	0-20	-	10	-	-	-	-
Breeding 2021														
19/04/2021	1	Unknown	Immature	Improved grassland	1	17.24	Flying	150	-	-	-	-	60	-
Non-breeding 2021/22														
21/10/2021	1	Unknown	Adult	Improved grassland, rough grassland	4	14:17	Flying	100	-	-	-	85	-	-
22/10/2021	1	Unknown	Adult	Improved grassland, rough grassland	200	11:14	Flying, circling	100	-	-	-	-	480	-
08/11/2021	1	Unknown	Adult	Improved grassland, rough grassland	7	09:10	Flying	100	-	-	-	38	-	-
08/11/2021	2	Unknown	Adult	Improved grassland, rough grassland	12	13:29	Flying	40	-	-	30	-	-	-
12/11/2021	2	Unknown	Adult	Improved grassland, rough grassland	30	10:25	Flying	100	-	-	-	45	-	-
12/11/2021	1	Unknown	Adult	Improved grassland, rough grassland	12	11:51	Flying	60	-	-	-	35	-	-
20/12/2021	1	Unknown	Adult	Improved grassland, rough grassland	12	10:22	Flying	30	-	-	28	-	-	-
22/12/2021	1	Unknown	Adult	Improved grassland, rough grassland	18	13:40	Flying	30	-	-	120	-	-	-
19/01/2022	2	Unknown	Adult	Improved grassland, rough grassland	18	09:58	Flying	60	-	-	-	48	-	-

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Black-headed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
19/01/2022	1	Unknown	Adult	Improved grassland, rough grassland	28	12:25	Flying	40	-	-	33	-	-	-
26/01/2022	1	Unknown	Adult	Improved grassland, rough grassland	20	10:37	Flying	60	-	-	-	36	-	-
17/02/2022	2	Unknown	Adult	Improved grassland, rough grassland	12	13:17	Flying	50	-	-	42	-	-	-
10/03/2022	1	Unknown	Adult	Improved grassland, rough grassland	6	10:27	Flying	60	-	-	-	35	-	-
Non-breeding 2022/23														
23/10/2022	1	Unknown	Adult	Improved grassland	55	09:53	On ground	0	10	-	-	-	-	-
23/10/2022	1	Unknown	Adult	Improved grassland	12	11:55	Flying	50-100	-	-	-	12	-	-
24/11/2022	2	Unknown	Adult	Improved grassland	25	08:45	Flying	50-100	-	-	-	12	-	-
24/11/2022	2	Unknown	Adult	Improved grassland	40	09:16	Flying	50-100	-	-	-	8	-	-
24/11/2022	2	Unknown	Adult	Improved grassland	25	13:41	On ground	0	10	-	-	-	-	-
24/11/2022	1	Unknown	Adult	Improved grassland	60	14:20	Flying	20-50	-	-	30	-	-	-
02/12/2022	2	Unknown	Adult	Improved grassland	2	08:30	Flying	20-50	-	-	7	-	-	-
02/12/2022	2	Unknown	Adult	Improved grassland	6	10:59	Flying	20-50	-	-	10	-	-	-
02/12/2022	1	Unknown	Adult	Improved grassland	4	11:30	Flying	20-50	-	-	14	-	-	-
02/12/2022	2	Unknown	Adult	Improved grassland	5	11:47	Flying	50-100	-	-	-	12	-	-
06/03/2023	1	Unknown	Adult	Improved grassland	1	15:41	Flying	50-100	-	-	-	42	-	-
Breeding 2023														
15/09/2023	2	Unknown	Adult	Improved grassland	3	12:57	Flying	50-100	-	-	11	-	-	-
Non-breeding 2023/24														
09/11/2023	1	Unknown	Unknown	Improved grassland	6	12:10	Flying	20-50	-	-	26	-	-	-
09/11/2023	1	Unknown	Unknown	Improved grassland	2	13:19	Flying	20-50	-	-	32	-	-	-
07/12/2023	1	Unknown	Unknown	Improved grassland	72	09:20	Flying	0-50	-	510	510	-	-	-
07/12/2023	1	Unknown	Unknown	Improved grassland	2	13:16	Flying	0-20	-	37	-	-	-	-

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Black-headed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
07/12/2023	2	Unknown	Unknown	Improved grassland	20	09:53	Flying	0-20	-	45	-	-	-	-
08/02/2024	1	Unknown	Unknown	Improved grassland	48	13:12	Flying	20-50	-	-	30	-	-	-
Breeding 2024														
02/07/2024	2	Unknown	Unknown	Improved grassland	2	07:15	Flying	50-100	-	-	-	126	-	-
Non-breeding 2024/25														
04/10/2024	2	Unknown	Adult	Improved grassland	2	13:02	Flying	20-100	-	-	90	5	-	-
07/11/2024	1	Unknown	Adult	Improved grassland	4	15:18	Flying	20-50	-	-	13	-	-	-
07/11/2024	2	Unknown	Unknown	Improved grassland	32	16:22	Flying	0-20	-	27	-	-	-	-
04/12/2024	1	Unknown	Unknown	Improved grassland	31	08:44	Flying	0-20	-	54	-	-	-	-
04/12/2024	1	Unknown	Unknown	Improved grassland	22	08:54	Flying	20-50	-	-	41	-	-	-
04/12/2024	1	Unknown	Unknown	Improved grassland	26	09:02	Flying	20-50	-	-	113	-	-	-
04/12/2024	1	Unknown	Unknown	Improved grassland	89	09:17	Flying	50-180	-	-	-	80	83	-
04/12/2024	1	Unknown	Unknown	Improved grassland	17	14:06	Flying	20-50	-	-	95	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	18	08:51	Flying	0-50	-	12	15	-	-	-
04/12/2024	2	Unknown	Unknown	Improved grassland	15	08:52	Flying	0-50	-	7	16	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	18	09:11	Flying	20-50	-	-	25	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	3	09:19	Flying	20-50	-	-	21	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	78	09:32	Flying	0-50	-	20	6	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	3	10:26	Flying	20-50	-	-	18	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	9	10:27	Flying	0-50	-	8	11	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	5	10:37	Flying	20-50	-	-	19	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	8	10:54	Flying	20-50	-	-	17	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	26	13:26	Flying	20-50	-	-	17	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	4	13:34	Flying	20-50	-	-	11	-	-	-
13/01/2025	1	Unknown	Adult	Improved grassland	18	11:16	Flying	20-100	-	-	29	5	-	-
13/01/2025	1	Unknown	Adult	Improved grassland	12	11:18	Flying	20-50	-	-	26	-	-	-

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Black-headed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
13/01/2025	1	Unknown	Adult	Improved grassland	3	13:12	Flying	20-50	-	-	24	-	-	-
07/02/2025	1	Unknown	Unknown	Improved grassland	16	13:09	Flying	100-180	-	-	-	-	63	-
07/02/2025	2	Unknown	Adult	Improved grassland	25	13:04	Flying	20-100	-	-	45	70	-	-

Table 78. Vantage Point survey results – buzzard

Buzzard														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2020														
16/04/2020	1	Unknown	Unknown	Improved grassland/ broadleaved woodland	1	10.54	Flying/ soaring/ circling	20-80	-	-	27	13	46	-
16/04/2020	2	Unknown	Unknown	Improved grassland	1	13.56	Flying/ circling	20-100	-	-	199	55	-	-
16/04/2020	2	Unknown	Unknown	-	2	14.09	Circling	180	-	-	-	-	-	337
20/04/2020	1	Unknown	Unknown	Improved grassland	1	15.48	Flying	0-50	-	22	40	-	-	-
20/04/2020	1	Unknown	Unknown	Improved grassland	1	-	Flying/ circling	20-100	-	-	11	77	-	-
20/04/2020	2	Unknown	Unknown	Rough grassland/ Broadleaved woodland	2	11.40	Hunting/ flying	20-50	-	-	55	-	-	-
15/06/2020	2	Unknown	Unknown	Improved grassland	4	10.29	Soaring	100-120	-	-	-	-	240	-
20/07/2020	1	Unknown	Unknown	Improved grassland	2	11.35	Soaring	180	-	-	-	-	20	-
Non-breeding 2020/21														

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Buzzard														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
08/12/2020	2	Unknown	Adult	Improved grassland, hedgerow, road	1	10.09	Flying	5-25	-	5	10	-	-	-
08/12/2020	2	Unknown	Adult	Improved grassland, 1st rotation forest	1	13.11	Flying	20-50	-	-	10	-	-	-
						13.13	Flying	0-20	-	4	-	-	-	
						13.25	Flying	20-100	-	12	10	45	-	-
16/02/2021	2	Unknown	Adult	Improved grassland, scrub	1	10.58	Flying	0-20	-	14	-	-	-	-
12/03/2021	1	Unknown	Unknown	Improved grassland, scrub, bog	1	13.30	Flying, circling	200	-	-	-	-	-	10
Breeding 2021														
28/06/2021	2	Unknown	Unknown	Improved grassland	1	12.14	Flying, circling	60	-	-	-	240	-	-
28/06/2021	2	Unknown	Unknown	Improved grassland	1	12.20	Soaring, circling	>150	-	-	-	-	20	-
28/06/2021	2	Unknown	Unknown	Improved grassland	1	13.19	Flying, soaring, circling	100-180	-	-	-	-	180	-
20/07/2021	1	Unknown	Unknown	Improved grassland	1	12.43	Circling, soaring	100	-	-	-	-	60	-
20/07/2021	1	Unknown	Unknown	Improved grassland	1	12.47	Circling, soaring	120	-	-	-	-	10	-
20/07/2021	1	Unknown	Unknown	Improved grassland	2	12.54	Soaring, circling	60	-	-	-	20	-	-
							Soaring, circling	-	-	-	20	-	-	
20/07/2021	1	Unknown	Unknown	Improved grassland	1	13.44	Circling, soaring	70	-	-	-	240	-	-
20/07/2021	1	Unknown	Unknown	Improved grassland	1	13.45	Circling, soaring	40	-	-	180	-	-	-
Non-breeding 2021/22														

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Buzzard														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
21/10/2021	1	Unknown	Adult	Improved grassland, rough grassland	2	13:28	Soaring	100	-	-	-	240	-	-
21/10/2021	1	Unknown	Adult	Improved grassland, rough grassland	4	13:45	Soaring	100 300	-	-	-	360	-	720
20/12/2021	2	Unknown	Adult	Improved grassland, rough grassland	1	14:18	Flying	30	-	-	24	-	-	-
19/01/2022	2	Unknown	Adult	Improved grassland, rough grassland	1	10:57	Flying	30	-	-	25	-	-	-
26/01/2022	2	Unknown	Adult	Improved grassland, rough grassland	1	12:48	Soaring	80	-	-	-	180	-	-
10/03/2022	2	Unknown	Adult	Improved grassland, rough grassland	1	13:20	Flying, circling	60				120		
Breeding 2022														
07/04/2022	1	Male	Adult	Improved grassland, rough grassland	1	16:39	Soaring	80	-	-	-	420	-	-
07/04/2022	2	Male	Adult	Improved grassland, rough grassland	1	12:58	Soaring, circling	80	-	-	-	160	-	-
20/04/2022	1	Pair	Adult	Improved grassland, rough grassland	2	13:20	soaring	100	-	-	-	420	-	-
10/05/2022	1	Unknown	Adult	Improved grassland, rough grassland	1	11.32	Soaring	100	-	-	-	-	360	-
28/06/2022	1	Unknown	Adult	Improved grassland, rough grassland	1	13.24	Soaring, circling	100-200	-	-	-	-	720	600
20/07/2022	1	Unknown	Adult	Improved grassland, rough grassland	3	12.38	Soaring, circling	80	-	-	-	360	-	-
22/07/2022	1	Unknown	Adult	Improved grassland, rough grassland	1	09.46	Flying, circling	40	-	-	95	-	-	-
22/07/2022	1	Male	Adult	Improved grassland, rough grassland	1	12.09	Soaring	60	-	-	-	120	-	-

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Buzzard														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
25/08/2022	2	Unknown	Adult	Improved grassland, rough grassland	1	12.25	Soaring, circling	80	-	-	360	-	-	-
25/08/2022	2	Male	Adult	Improved grassland, rough grassland	1	14.08	Flying, perching	20	180	28	-	-	-	-
29/08/2022	2	Unknown	Adult	Improved grassland, rough grassland	1	11.05	Soaring, circling	80	-	-	-	240	-	-
29/08/2022	1	Pair & Juvenile	Adult & Juvenile	Improved grassland, rough grassland	3	13.25	Soaring	100	-	-	-	-	540	-
Non-breeding 2022/23														
24/11/2022	1	Unknown	Adult	Improved grassland	1	12:02	Flying	0-20	-	15	-	-	-	-
24/11/2022	1	Unknown	Adult	Improved grassland	1	12:13	Soaring	50-100	-	-	-	60	-	-
10/01/2023	2	Unknown	Adult	Improved grassland	1	15:51	Flying	0-20	-	10	-	-	-	-
07/02/2023	2	Unknown	Adult	Improved grassland	1	11:45	Circling	50-100	-	-	-	180	-	-
06/03/2023	2	Unknown	Adult	Improved grassland	1	13:48	Flying/hunting	0-20	-	108	-	-	-	-
06/03/2023	2	Unknown	Adult	Improved grassland	1	15:43	Flying/hunting	0-20	-	6	-	-	-	-
Breeding 2023														
06/04/23	1	Unknown	Adult	Improved grassland	2	18:15	Flying	20-50	-	-	9	-	-	-
02/05/23	1	Unknown	Adult	Improved grassland	1	08:36	Perched	50-100	-	-	-	-	-	-
02/05/23	2	Unknown	Adult	Improved grassland	1	10:26	Flying	100-200	-	-	-	21	-	-
02/05/23	2	Unknown	Adult	Improved grassland	1	11:02	Soaring	20-100	-	-	-	-	40	-
06/06/23	2	Unknown	Adult	Improved grassland	2	09:49	Soaring	20-200	-	-	7	351	-	-
06/06/23	1	Unknown	Adult	Improved grassland	1	11:18	Hunting	50-100	-	-	10	60	-	-
06/06/23	1	Unknown	Adult	Improved grassland	1	13:21	Circling	20-50	-	-	-	50	-	-
Non-breeding 2023/24														
06/10/2023	1	Unknown	Unknown	Improved grassland	1	08:17	Perched	0	-	-	-	-	-	-
06/10/2023	1	Unknown	Unknown	Improved grassland	1	08:41	Flying	20-50	-	-	30	-	-	-

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Buzzard														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
06/10/2023	1	Unknown	Unknown	Improved grassland	1	11:44	Flying	20-50	-	-	20	-	-	-
06/10/2023	1	Unknown	Unknown	Improved grassland	1	11:58	Flying	20-50	-	-	30	-	-	-
06/10/2023	1	Unknown	Unknown	Improved grassland	1	13:19	Flying	50-100	-	-	-	45	-	-
07/12/2023	1	Unknown	Unknown	Improved grassland	1	09:20	Hunting	0-20	-	11	-	-	-	-
07/12/2023	2	Unknown	Unknown	Improved grassland	2	09:35	Flying	0-20	-	30	-	-	-	-
05/01/2024	1	Unknown	Unknown	Improved grassland	1	13:35	Hunting	0-20	-	8	-	-	-	-
05/01/2024	1	Unknown	Unknown	Improved grassland	1	13:39	Hunting	0-20	-	26	-	-	-	-
05/01/2024	1	Unknown	Unknown	Improved grassland	1	14:51	Hunting	20-50	-	-	41	-	-	-
08/02/2024	1	Unknown	Unknown	Improved grassland	1	10:17	Flying	20-50	-	-	20	-	-	-
08/02/2024	2	Unknown	Unknown	Improved grassland	1	08:44	Flying	0-20	-	12	-	-	-	-
07/03/2024	1	Unknown	Unknown	Improved grassland	1	13:00	Hunting	0-20	-	28	-	-	-	-
07/03/2024	1	Unknown	Unknown	Improved grassland	2	14:48	Hunting	0-20	-	100	-	-	-	-
07/03/2024	2	Unknown	Unknown	Improved grassland	1	12:04	Flying	50-100	-	-	-	75	-	-
07/03/2024	2	Unknown	Unknown	Improved grassland	3	13:13	Flying	20-50	-	-	105	-	-	-
07/03/2024	2	Unknown	Unknown	Improved grassland	1	14:55	Flying	0-20	-	25	-	-	-	-
Breeding 2024														
03/04/2024	1	Pair	Unknown	Improved grassland	5	11:16	Displaying	0	-	-	-	-	-	-
03/04/2024	1	Pair	Unknown	Improved grassland	3	11:33	Displaying	20-100	-	-	20	11	-	-
03/04/2024	1	Unknown	Unknown	Improved grassland	2	12:15	Displaying	0	-	-	-	-	-	-
03/04/2024	1	Pair	Unknown	Improved grassland	6	13:01	Displaying	100-180	-	-	-	-	549	-
03/04/2024	1	Pair	Unknown	Improved grassland	2	13:18	Displaying	100-180	-	-	-	-	196	-
03/04/2024	2	Pair	Unknown	Improved grassland	2	11:08	Displaying	50-180	-	-	-	120	850	-
03/04/2024	2	Unknown	Unknown	Improved grassland	3	11:14	Soaring	50-180	-	-	-	180	300	-
03/04/2024	2	Unknown	Unknown	Improved grassland	2	12:02	Soaring	50-100	-	-	-	120	-	-
03/04/2024	2	Pair	Unknown	Improved grassland	2	12:11	Displaying	50-180	-	-	-	180	180	-
03/04/2024	2	Unknown	Unknown	Improved grassland	1	12:57	Hunting	20-180	-	-	25	840	90	-

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Buzzard														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
03/04/2024	2	Unknown	Unknown	Improved grassland	1	13:13	Flying	20-50	-	-	35	-	-	
01/05/2024	1	Pair	Unknown	Improved grassland	1	10:48	Displaying	20-100	-	-	6	10	-	-
01/05/2024	2	Unknown	Unknown	Improved grassland	1	12:15	Soaring	0-180		68	-	100	12	-
10/06/2024	1	Unknown	Unknown	Improved grassland	1	15:17	Flying	20-100	-	-	100	89	-	-
10/06/2024	1	Unknown	Unknown	Improved grassland	1	15:36	Flying	0-180	-	25	20	-	280	-
10/06/2024	1	Unknown	Unknown	Improved grassland	1	15:44	Flying	50-180	-	-	-	63	390	-
10/06/2024	1	Unknown	Unknown	Improved grassland	1	15:59	Flying	0-20	-	99	-	-	-	-
10/06/2024	1	Unknown	Unknown	Improved grassland	1	16:12	Flying	50-180	-	-	-	58	310	-
10/06/2024	1	Unknown	Unknown	Improved grassland	1	18:39	Hunting	50-180	-	-	-	40	200	-
10/06/2024	2	Unknown	Unknown	Improved grassland	1	15:04	Soaring	20-100	-	-	15	50	-	-
10/06/2024	2	Unknown	Unknown	Improved grassland	1	16:15	Displaying	20-100	-	-	720	2580	-	-
10/06/2024	2	Unknown	Unknown	Improved grassland	1	19:05	Flying	0-50	-	15	70	-	-	-
02/07/2024	1	Unknown	Unknown	Improved grassland	1	12:02	Hunting	0-50	-	25	145	-	-	-
02/07/2024	1	Unknown	Unknown	Improved grassland	2	12:08	Hunting	20-180	-	-	90	180	150	-
02/07/2024	1	Unknown	Unknown	Improved grassland	1	12:56	Hunting	20-180	-	-	180	300	150	-
02/07/2024	1	Unknown	Unknown	Improved grassland	1	13:12	Hunting	20-100	-	-	60	120	-	-
02/07/2024	2	Unknown	Unknown	Improved grassland	1	12:26	Hunting	100-180	-	-	-	-	264	-
Non-breeding 2024/25														
04/10/2024	1	Unknown	Unknown	Improved grassland	1	12:45	Hunting, soaring, circling	0-180	-	20	9	-	180	-
04/10/2024	1	Unknown	Unknown	Improved grassland	1	13:56	Hunting, soaring, circling	100-180	-	-	-	-	151	-
04/10/2024	1	Unknown	Unknown	Improved grassland	1	14:24	Hunting, flying, soaring, perched	0-20	-	68	-	-	-	-

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Buzzard														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
04/10/2024	2	Unknown	Adult	Improved grassland	1	14:10	Flying	20-50	-	-	48	-	-	-
07/11/2024	1	Unknown	Adult	Improved grassland	1	11:17	Flying, circling	0-100	-	45	65	22	-	-
07/11/2024	2	Unknown	Unknown	Improved grassland	1	13:31	Flying	0-20	-	31	-	-	-	-
04/12/2024	1	Unknown	Unknown	Improved grassland	2	11:17	Soaring, circling, flying, hunting	100-180	-	-	-	-	186	-
04/12/2024	1	Unknown	Unknown	Improved grassland	1	11:40	Circling, flying, hunting, soaring	0-100	-	55	61	160	-	-
04/12/2024	1	Unknown	Unknown	Improved grassland	1	14:04	Hunting, flying	0-20	-	39	-	-	-	-
13/01/2025	1	Unknown	Adult	Improved grassland	1	15:47	Flying	0-50	-	3	6	-	-	-
07/02/2025	2	Unknown	Adult	Improved grassland	1	08:14	Flying	0-20	-	6	-	-	-	-
18/03/2025	1	Unknown	Adult	Improved grassland	1	13:48	Flying	0-100	-	2	8	3	-	-
18/03/2025	1	Unknown	Adult	Improved grassland	1	14:52	Flying	0-50	-	2	8	-	-	-
18/03/2025	2	Unknown	Adult	Improved grassland	1	12:58	Flying, hunting, circling	0-20	-	56	-	-	-	-
18/03/2025	2	Unknown	Adult	Improved grassland	1	12:58	Hunting, soaring	0-20	-	103	-	-	-	-

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Table 79. Vantage Point survey results – common gull

Common gull														
Date	VP	Sex	Age	Habitat	No. Of Birds	Time of Flight/ Obs.	Activity	Flight Height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2020/21														
25/11/2020	2	Unknown	Unknown	Improved grassland	1	14:40	Flying	20	-	15	-	-	-	-
20/01/2021	2	Unknown	Unknown	Improved grassland	200	10.17	Flying	100-180	-	-	-	-	60	-
16/02/2021	2	Unknown	Unknown	Improved grassland	30	14.18	Flying	50-100	-	-	-	120	-	-
Breeding 2021														
28/06/2021	1	Unknown	Adults & Juveniles	Improved grassland	4	17.50	Flying	30	-	-	30	-	-	-
28/06/2021	1	Unknown	Unknown	Improved grassland	2	18.02	Flying	100	-	-	-	-	40	-
Non-breeding 2023-24														
09/11/2023	1	Unknown	Unknown	Improved grassland	1	12:02	Flying	20-50	-	-	42	-	-	-
09/11/2023	2	Unknown	Unknown	Improved grassland	14	14:50	Flying	20-50	-	-	30	-	-	-
07/12/2023	1	Unknown	Unknown	Improved grassland	26	09:37	Hunting	0-50	-	510	510	-	-	-
07/12/2023	2	Unknown	Unknown	Improved grassland	15	09:41	Flying	20-50	-	-	40	-	-	-
07/12/2023	2	Unknown	Unknown	Improved grassland	3	11:45	Flying	20-50	-	-	55	-	-	-
05/01/2024	2	Unknown	Unknown	Improved grassland	5	11:05	Flying	20-50	-	-	35	-	-	-
Non-breeding 2024-25														
04/12/2024	2	Unknown	Adult	Improved grassland	2	14:18	Flying, perched	0-50	-	3	10	-	-	-

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Table 80. Vantage Point survey results – cormorant

Cormorant														
Date	VP	Sex	Age	Habitat	No. Of Birds	Time	Activity	Flight Height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2021														
19/04/2021	2	Unknown	Unknown	Improved grassland, woodland	2	16.34	Flying	15	-	55	-	-	-	-
Breeding 2023														
15/09/23	1	Unknown	Unknown	Improved grassland	1	10:20	Flying	20-50	-	12	-	-	-	-
15/09/23	1	Unknown	Unknown	Improved grassland	1	12:22	Flying	20-50	-	8	-	-	-	-
Non-breeding 2023-24														
08/02/2024	2	Unknown	Unknown	Improved grassland	1	11:31	Flying	20-50	-	-	17	-	-	-
Breeding 2024														
01/05/2024	2	Unknown	Unknown	Improved grassland	1	08:37	Flying	100-180	-	-	-	-	49	-
Non-breeding 2024/25														
04/12/2024	1	Unknown	Unknown	Improved grassland	1	08:19	Flying	20-50	-	-	39	-	-	-

Table 81. Vantage Point survey results – curlew

Curlew														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2021														
06/07/2021	2	Unknown	Unknown	Improved grassland	1	13.53	Flying	40-50	-	-	22	-	-	-
Non-breeding 2024-25														
08/02/2024	1	Unknown	Unknown	Improved grassland	1	08:07	Flying	20-50	-	-	15	-	-	-

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Table 82. Vantage Point survey results – golden plover

Golden plover														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2023/24														
07/12/2023	2	Unknown	Unknown	Improved grassland	36	12:45	Flying	20-50	-	-	40	-	-	-
05/01/2024	1	Unknown	Unknown	Improved grassland	24	11:51	Flying	20-50	-	-	32	-	-	-

Table 83. Vantage Point survey results – great black-backed gull

Great black-backed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2020														
19/05/2020	1	Unknown	Unknown	Improved grassland/rough grassland/broadleaved woodland	2	14.42	Flying, soaring	40-50	-	-	191	-	-	-
19/05/2020	1	Unknown	Unknown	Improved grassland	1	15.30	Flying	50-100	-	-	-	22	-	-
Breeding 2021														
19/04/2021	2	Unknown	Unknown	Improved grassland	1	13.09	Circling, flying	60	-	-	-	20	-	-
19/04/2021	2	Unknown	Unknown	Improved grassland	2	14.25	Soaring, circling	100	-	-	-	240	-	-
19/04/2021	1	Unknown	Unknown	Improved grassland	2	14.29	Circling, flying	>180	-	-	-	-	-	180
19/04/2021	2	Unknown	Unknown	Improved grassland	4	17.30	Flying	50	-	-	40	-	-	-
19/04/2021	2	Unknown	Unknown	Improved grassland	1	17.33	Flying	50	-	-	20	-	-	-

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Great black-backed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2022/23														
24/11/2022	1	Unknown	Unknown	Improved grassland	1	09:09	Flying/hunting	20-50	-	-	10	-	-	-
06/03/2023	2	Unknown	Unknown	Improved grassland	1	17:01	Flying/hunting	20-50	-	-	26	-	-	-

Table 84. Vantage Point survey results – great white egret

Great white egret														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2023/24														
07/03/2024	1	Unknown	Unknown	Improved grassland	1	13:20	Flying	20-50	-	-	27	-	-	-

Table 85. Vantage Point survey results – grey heron

Grey heron														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2020														
16/04/2020	2	Unknown	Unknown	Improved grassland	1	14.37	Flying	0-20	-	66	-	-	-	-
16/04/2020	2	Unknown	Unknown	Improved grassland	1	15.28	Flying	0-20	-	26	-	-	-	-
Breeding 2023														

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Grey heron														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
12/07/23	2	Unknown	Unknown	Improved grassland	1	08:13	Flying	0-20	-	40	-	-	-	-
18/08/23	1	Unknown	Unknown	Improved grassland	1	13:35	Flying	20-50	-	-	11	-	-	-
Breeding 2024														
03/04/2024	1	Unknown	Unknown	Improved grassland	1	07:39	Flying	0-20	-	42	-	-	-	-
Non-breeding 2024-25														
07/02/2025	1	Unknown	Unknown	Improved grassland	1	08:26	calling	0	-	-	-	-	-	-
18/03/2025	2	Unknown	Unknown	Improved grassland	1	18:29	Flying	0-20	12	-	-	-	-	-

Table 86. Vantage Point survey results – hen harrier

Hen harrier														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2022/23														
06/03/2023	1	Unknown	Adult	Improved grassland	1	12:44	Flying/hunting	0-20	-	33	-	-	-	-

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Table 87. Vantage Point survey results – herring gull

Herring gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2020														
22/05/2020	1	Unknown	Unknown	Improved grassland	1	10.00	Flying	5	-	26	-	-	-	-
22/05/2020	1	Unknown	Unknown	Improved grassland	2	11.04	Flying	20-50	-	-	61	-	-	-
22/05/2020	1	Unknown	Unknown	Improved grassland/ rough grassland	1	11.42	Flying	100-180	-	-	-	-	44	-
Non-breeding 2020/21														
16/02/2021	1	Unknown	Unknown	Improved grassland	30	9.04	Flying	100-180	-	-	-	-	5	-
16/02/2021	1	Unknown	Unknown	Improved grassland	30	9.08	Flying	100-180	-	-	-	-	3	-
Breeding 2021														
10/05/2021	1	Unknown	Unknown	Improved grassland	4	10.26	Flying	80	-	-	-	120	-	-

Table 88. Vantage Point survey results – kestrel

Kestrel														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2020														
16/04/2020	1	Female	Unknown	Improved grassland, broadleaved woodland	1	11.46	Flying	20-50	-	-	43	-	-	-
16/04/2020	2	Male	Adult	Improved grassland	1	13.03	Flying/ perching/ hunting	0-50	-	197	27	-	-	-

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Kestrel														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
16/04/2020	2	Male	Adult	Improved grassland	1	13.32	Hunting	0-50	-	146	10	-	-	-
16/04/2020	2	Male	Adult	Improved grassland, rough grassland	1	13.47	Hunting/ flying	0-50	-	23	181	-	-	-
20/04/2020	1	Male	Adult	Rough grassland	1	09.50	Hunting/ perching/ flying	0-50	-	198	31	-	-	-
20/04/2020	2	Male	Adult	Rough grassland	1	10.20	Hunting/ perching/ flying	0-50	-	127	203	-	-	-
20/04/2020	1	Unknown	Unknown	Improved grassland	1	13.05	Hunting/ flying	0-20	-	41	-	-	-	-
19/05/2020	2	Male	Adult	Improved grassland	1	11.45	Hunting/ perching/ flying	0-20	-	389	-	-	-	-
22/05/2020	1	Male	Unknown	Improved grassland	1	11.21	Flying	0-20	-	16	-	-	-	-
15/06/2020	2	Unknown	Unknown	Improved grassland	1	10.25	Flying	0-20	-	20	-	-	-	-
25/09/2020	2	Unknown	Unknown	Improved grassland	1	11.40	Flying	0-20	-	3	-	-	-	-
Non-breeding 2020/21														
08/12/2020	2	Unknown	Adult	Improved grassland	1	10.49	Flying	10	-	3	-	-	-	-
08/12/2020	1	Female	Adult	Improved grassland, treeline	1	11.25	Flying, perching	0-20	50	6	-	-	-	-
08/12/2020	1	Unknown	Adult	Improved grassland	1	12.16	Perching, flying, feeding	3	-	180	-	-	-	-
20/01/2021	1	Female	Unknown	Improved grassland	1	9.23	Hunting Flying	0-20	-	8	-	-	-	-
Breeding 2021														

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Kestrel														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
19/04/2021	1	Female	Adult	Improved grassland, woodland	1	12.52	Flying, mobbing, hunting	0-20	-	240	-	-	-	-
19/04/2021	1	Female	Adult	Improved grassland	1	13.27	Flying	0-20	-	3	-	-	-	-
19/04/2021	1	Unknown	Unknown	Improved grassland	1	16.46	Flying	20	-	3	-	-	-	-
19/04/2021	1	Female	Adult	Improved grassland	1	17.42	Flying	15-20	-	10	-	-	-	-
19/04/2021	1	Male	Adult	Improved grassland	1	18.14	Flying	30	-	-	180	-	-	-
19/04/2021	2	Unknown	Unknown	Improved grassland	1	12.25	Circling, hunting	40	-	-	30	-	-	-
19/04/2021	2	Unknown	Unknown	Improved grassland, hedgerow	1	12.43	Perched	2	-	15	-	-	-	-
19/04/2021	2	Unknown	Unknown	Improved grassland	1	13.00	Hunting, circling	50	-	-	180	-	-	-
10/05/2021	1	Unknown	Unknown	Improved grassland	1	09.13	Flying	20	-	180	-	-	-	-
10/05/2021	1	Unknown	Unknown	Improved grassland	1	09.20	Soaring, hunting	20-30	-	-	15	-	-	-
10/05/2021	2	Female	Adult	Improved grassland, hedgerow	1	09.56	Flying	10	-	20	-	-	-	-
28/06/2021	2	Unknown	Unknown	Improved grassland	1	13.07	Hunting	50	-	-	10	-	-	-
28/06/2021	1	Unknown	Unknown	Improved grassland	1	16.04	Circling, hunting	30	-	-	10	-	-	-
28/06/2021	1	Unknown	Unknown	Improved grassland	1	16.29	Flying, hunting	60 50-40	-	-	-	60	-	-
28/06/2021	1	Unknown	Unknown	Improved grassland	1	17.15	Flying	25	-	-	45	-	-	-
28/06/2021	1	Unknown	Unknown	Improved grassland	1	18.01	Flying	25	-	-	15	-	-	-
28/06/2021	1	Unknown	Unknown	Improved grassland	1	18.02	Hunting	30	-	-	45	-	-	-

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Kestrel														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
06/07/2021	2	Female	Adult	Improved grassland	1	13.35	Hunting, flying	50	-	-	63	-	-	-
Non-breeding 2021/22														
21/10/2021	2	unknown	Adult	Improved grassland, rough grassland	1	10:35	Hunting	15	-	360	-	-	-	-
22/10/2021	1	Male	Adult	Improved grassland, rough grassland	1	11:25	Hunting	15	-	120	-	-	-	-
22/10/2021	2	Male	Juvenile	Improved grassland, rough grassland	1	13:20	Flying	30	-	-	25	-	-	-
08/11/2021	2	Male	Adult	Improved grassland, rough grassland	1	12:55	Hunting	20	-	180	-	-	-	-
12/11/2021	1	Female	Adult	Improved grassland, rough grassland	1	12:20	Hunting	15	-	180	-	-	-	-
12/11/2021	1	Unknown	Adult	Improved grassland, scrub	1	13:09	Hunting	15	-	120	-	-	-	-
22/12/2021	2	Male	Adult	Improved grassland, rough grassland	1	09:22	Flying	10 20	50	32	-	-	-	-
19/01/2022	2	Female	Adult	Improved grassland, rough grassland	1	10:35	Hunting	20	-	360	-	-	-	-
19/01/2022	1	Female	Adult	Improved grassland, rough grassland	1	13:09	Hunting	20	-	900	-	-	-	-
19/01/2022	1	Female	Adult	Improved grassland, rough grassland	1	14:17	Hunting	20	-	300	-	-	-	-
26/01/2022	1	unknown	Adult	Improved grassland, rough grassland	1	10:23	Hunting	20	-	-	240	-	-	-
26/01/2022	2	unknown	Adult	Improved grassland, rough grassland	1	12:35	Hunting	20	-	480	-	-	-	-
17/02/2022	1	Male	Adult	Improved grassland, rough grassland	1	10:36	Hunting	20	-	360	-	-	-	-

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Kestrel														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
22/03/2022	2	Male	Adult	Improved grassland, rough grassland	1	10:43	Flying	30	-	-	25	-	-	-
Breeding 2022														
07/04/2022	1	Male	Adult	Improved grassland, rough grassland	1	16:20	Flying, soaring	80	-	-	-	120	-	-
07/04/2022	1	Male	Adult	Heather moorland, rough grassland, scrub	1	18:12	Hunting	20	-	240	-	-	-	-
20/04/2022	1	Unknown	Adult	Heather moorland, rough grassland, improved grassland	1	13:43	Hunting	20	-	240	-	-	-	-
07/04/2022	2	Male	Adult	Heather moorland, improved grassland, scrub	1	12:24	Hunting	20	-	85	-	-	-	-
10/05/2022	1	Male	Adult	Improved grassland, rough grassland	1	10:48	Soaring	80	-	-	-	240	-	-
12/05/2022	2	Unknown	Adult	Grassland moorland, rough grassland	1	11:09	Hunting Flying	25	-	-	140	-	-	-
09/06/2022	1	Male	Adult	Heather moorland, rough grassland, improved grassland	1	17.15	Hunting	15	-	90	-	-	-	-
09/06/2022	1	Male	Adult	Heather moorland, rough grassland Improved grassland	1	19.06	Hunting	15	-	180	-	-	-	-
28/06/2022	1	Male	Adult	Heather moorland Rough grassland Improved grassland	1	14.09	Hunting	20	-	120	-	-	-	-
28/06/2022	1	Male	Adult	Heather moorland Rough grassland Improved grassland	1	14.54	Hunting	20	180 10 m	90	-	-	-	-
28/06/2022	2	Male	Adult	Heather moorland	1	16.31	Hunting	15	-	85	-	-	-	-

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Kestrel														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
				Rough grassland Improved grassland										
28/06/2022	2	Unknown	Adult	Heather moorland Rough grassland Improved grassland	1	17.46	Hunting	15	-	120	-	-	-	-
20/07/2022	2	-	-	Improved grassland	-	07.30	Possible nest location based on recent kestrel activity							
20/07/2022	2	-	-	Improved grassland	-	07.30	Possible nest location based on recent kestrel activity							
20/07/2022	1	Male	Adult	Improved grassland, rough grassland	1	13.10	Flying	20	-	28	-	-	-	-
29/08/2022	1	Male	Adult	Improved grassland, rough grassland	1	14.10	Hunting	20	-	180	-	-	-	-
Non-breeding 2022/23														
01/12/2022	1	Unknown	Adult	Improved grassland	1	11:23	Hunting	50-100	-	-	-	10	-	-
01/12/2022	2	Unknown	Adult	Improved grassland	1	12:08	Flying	0-20	-	3	-	-	-	-
07/02/2023	2	Unknown	Adult	Improved grassland	1	11:04	Flying/ perched	20-50	-	-	8	-	-	-
06/03/2023	2	Unknown	Adult	Improved grassland	1	17:23	Flying/ hunting	0-20	-	19	-	-	-	-
Breeding 2023														
06/04/23	1	Unknown	Unknown	Improved grassland	1	14:25	Hunting	20-50	-	-	10	-	-	-
06/04/23	2	Unknown	Unknown	Improved grassland	1	14:35	Flying	0-20	-	3	-	-	-	-
02/05/23	2	Unknown	Unknown	Improved grassland	1	08:08	Hunting	20-50	-	-	21	-	-	-
02/05/23	2	Unknown	Unknown	Improved grassland	1	09:05	Hunting	20-50	-	-	12	-	-	-
02/05/23	1	Unknown	Unknown	Improved grassland	1	10:21	Hunting	20-50	-	-	85	-	-	-
06/06/23	1	Unknown	Unknown	Improved grassland	1	07:38	Flying	0-50	-	40	15	-	-	-
06/06/23	1	Unknown	Unknown	Improved grassland	1	08:24	Flying	20-50	-	-	7	-	-	-
06/06/23	2	Unknown	Unknown	Improved grassland	1	10:11	Hunting	0-20	-	34	-	-	-	-
06/06/23	2	Unknown	Unknown	Improved grassland	1	11:11	Soaring	50-100	-	-	-	348	-	-

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Kestrel														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
06/06/23	2	Unknown	Unknown	Improved grassland	1	11:17	Soaring	0-20	-	59	-	-	-	-
06/06/23	1	Unknown	Unknown	Improved grassland	1	11:55	Hunting	0-20	-	14	-	-	-	-
06/06/23	2	Unknown	Unknown	Improved grassland	1	11:56	Hunting	100-180	-	-	-	-	137	-
06/06/23	2	Unknown	Unknown	Improved grassland	1	12:04	Hunting	0-20	-	21	-	-	-	-
12/07/23	1	Unknown	Unknown	Improved grassland	1	07:50	Flying	0-20	-	9	-	-	-	-
12/07/23	2	Unknown	Unknown	Improved grassland	1	08:37	Flying	0-50	-	320	20	-	-	-
12/07/23	2	Unknown	Unknown	Improved grassland	1	09:04	Hunting	20-100	-	-	200	30	-	-
12/07/23	2	Unknown	Unknown	Improved grassland	1	10:27	Flying	0-20	-	130	-	-	-	-
18/08/23	2	Unknown	Unknown	Improved grassland	1	08:29	Flying	0-50	-	10	5	-	-	-
15/09/23	1	Unknown	Unknown	Improved grassland	1	12:07	Hunting	20-50	-	-	6	-	-	-
Non-breeding 2023/24														
06/10/2023	1	Unknown	Unknown	Improved grassland	1	11:01	Flying	20-50	-	-	40	-	-	-
06/10/2023	2	Unknown	Unknown	Improved grassland	1	09:32	Hunting	0-20	-	12	-	-	-	-
09/11/2023	1	Unknown	Unknown	Improved grassland	1	12:03	Hunting	0-20	-	15	-	-	-	-
09/11/2023	2	Unknown	Unknown	Improved grassland	1	12:59	Flying	0-20	-	30	-	-	-	-
05/01/2024	1	Unknown	Unknown	Improved grassland	1	12:48	Flying	0-20	-	18	-	-	-	-
05/01/2024	1	Unknown	Unknown	Improved grassland	1	15:08	Hunting	0-20	-	12	-	-	-	-
05/01/2024	1	Unknown	Unknown	Improved grassland	1	16:48	Hunting	0-20	-	14	-	-	-	-
05/01/2024	2	Unknown	Unknown	Improved grassland	1	12:18	Perched	0	-	-	-	-	-	-
05/01/2024	2	Unknown	Unknown	Improved grassland	1	16:14	Flying	20-50	-	-	40	-	-	-
07/03/2024	1	Unknown	Unknown	Improved grassland	1	12:54	Hunting	0-20	-	14	-	-	-	-
07/03/2024	2	Unknown	Unknown	Improved grassland	1	12:09	Hunting	20-50	-	-	280	-	-	-
07/03/2024	2	Unknown	Unknown	Improved grassland	1	13:22	Hunting	20-50	-	-	40	-	-	-
07/03/2024	2	Unknown	Unknown	Improved grassland	1	18:26	Hunting	20-50	-	-	120	-	-	-
03/04/2024	2	Unknown	Unknown	Improved grassland	1	08:39	Hunting	0-20	-	2	-	-	-	-
01/05/2024	2	Unknown	Unknown	Improved grassland	1	10:18	Hunting	0-20	-	191	-	-	-	-

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Kestrel														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
01/05/2024	2	Unknown	Unknown	Improved grassland	1	13:25	Flying	100-180	-	-	-	-	146	-
02/07/2024	1	Unknown	Unknown	Improved grassland	1	07:12	Hunting	20-50	-	-	160	-	-	-
02/07/2024	2	Unknown	Unknown	Improved grassland	2	09:16	Perched	0	-	-	-	-	-	-
02/07/2024	2	Unknown	Unknown	Improved grassland	1	11:23	Perched	0	-	-	-	-	-	-
02/07/2024	2	Unknown	Unknown	Improved grassland	1	11:30	Flying	0-50	-	120	248	-	-	-
02/07/2024	2	Unknown	Unknown	Improved grassland	1	11:39	Hunting	20-50	-	-	115	-	-	-
02/07/2024	2	Unknown	Unknown	Improved grassland	1	11:43	Perched	0	-	-	-	-	-	-
02/07/2024	2	Unknown	Unknown	Improved grassland	2	11:59	Flying	0-50	-	38	100	-	-	-
02/07/2024	2	Unknown	Unknown	Improved grassland	2	12:11	Flying	20-50	-	-	182	-	-	-
02/07/2024	2	Unknown	Unknown	Improved grassland	2	12:19	Hunting	20-180	-	-	295	-	18	-
02/07/2024	2	Unknown	Unknown	Improved grassland	2	12:25	Hunting	20-50	-	-	129	-	-	-
11/09/2024	2	Unknown	Unknown	Improved grassland	1	11:42	Hunting	0-50	-	42	120	-	-	-
Non-breeding 2024/25														
13/01/2025	2	Female	Adult	Improved grassland	1	15:51	Soaring, hunting, flying	0-50	-	30	66	-	-	-
13/01/2025	2	Female	Adult	Improved grassland	1	15:57	Soaring, hunting, flying	0-50	-	76	110	-	-	-
13/01/2025	2	Female	Adult	Improved grassland	1	16:01	Perched	0-20	-	546	-	-	-	-
07/02/2025	1	Male	Adult	Improved grassland	1	11:56	Soaring, hunting	100-180	-	-	-	-	310	-
07/02/2025	2	Female	Adult	Improved grassland	1	12:53	Flying, perching	0-50	-	6	3	-	-	-
18/03/2025	1	Male	Adult	Improved grassland	1	12:44	Hovering	20-100	-	-	95	30	-	-
18/03/2025	2	Male	Adult	Improved grassland	1	14:28	Hunting	0-20	-	53	-	-	-	-
18/03/2025	2	Female	Adult	Improved grassland	1	16:31	Perched	0	1,163	-	-	-	-	-

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Table 89. Vantage Point survey results – lapwing

Lapwing														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2024/25														
04/10/2024	1	Unknown	Adult	Improved grassland	2	11:39	Flying	0-20	-	27	-	-	-	-
07/02/2025	2	Unknown	Adult	Improved grassland	12	08:47	Flying	0-20	-	16	-	-	-	-

Table 90. Vantage Point survey results – lesser black-backed gull

Lesser black-backed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2020														
22/05/2020	1	Unknown	Unknown	Improved grassland	1	09.40	Flying	0-20	-	13	-	-	-	-
Non-breeding 2020/21														
20/01/2021	2	Unknown	Unknown	Improved grassland, rough grassland, scrub, bog, hedgerow, road	48+	10.17	Flying	>100	-	-	-	-	60	-
16/02/2021	1	Unknown	Unknown	Improved grassland	20	09.04	Flying	100-180	-	-	-	-	5	-
16/02/2021	1	Unknown	Unknown	Improved grassland	20	09.08	Flying	100-180	-	-	-	-	3	-
16/02/2021	1	Unknown	Unknown	Improved grassland	1	10.38	Flying	20-50	-	-	5	-	-	-
16/02/2021	1	Unknown	Unknown	Improved grassland	10	10.54	On the ground	0-20	6	-	-	-	-	-
16/02/2021	2	Unknown	Unknown	Improved grassland	2	13.38	Flying	50-100	-	-	-	38	-	-

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Lesser black-backed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
16/02/2021	1	Unknown	Adult Juvenile	Improved grassland	2	14.32	Flying	20-50	-	-	40	-	-	-
16/02/2021	1	Unknown	Unknown	Improved grassland	5	14.48	Flying	50-100	-	-	-	5	-	-
12/03/2021	1	Unknown	Unknown	Improved grassland, scrub, hedgerow	1	14.45	Flying	20-30	-	-	29	-	-	-
Breeding 2021														
19/04/2021	1	Unknown	Unknown	Improved grassland	3	17.01	Flying	100	-	-	-	16	-	-
19/04/2021	1	Unknown	Unknown	Improved grassland	1	17.25	Flying	200	-	-	-	-	-	6
10/05/2021	2	Unknown	Unknown	Improved grassland	1	12.41	Flying	25	-	-	17	-	-	-
28/06/2021	2	Unknown	Unknown	Improved grassland, hedgerow	1	18.34	Flying	80-100	-	-	-	36	-	-
Non-breeding 2021/22														
21/10/2021	2	unknown	Adult	Improved grassland, rough grassland	5	11:38	Flying/ circling	100	-	-	-	300	-	-
21/10/2021	1	unknown	Adult	Improved grassland, rough grassland	12	13:53	Flying	100	-	-	-	70	-	-
19/01/2022	1	unknown	Adult	Improved grassland, rough grassland	62	11:48	Flying	100	-	-	-	54	-	-
16/02/2022	2	unknown	Adult	Improved grassland, rough grassland	3	10:58	Flying	60	-	-	-	45	-	-
22/03/2022	1	Pair	Adult	Improved grassland, rough grassland	2	13:10	Flying	60	-	-	-	180	-	-
Breeding 2022														
20/04/2022	2	Unknown	Adult	Improved grassland, rough grassland	4	16:22	Flying/ circling	80	-	-	-	300	-	-
12/05/2022	2	Unknown	Adult	Improved grassland, rough grassland	5	11:49	Circling/ soaring	100-200	-	-	-	-	180	240
29/08/2022	2	Unknown	Adult	Improved grassland, rough grassland	2	11.05	Flying	40	-	-	56	-	-	-

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Lesser black-backed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2023														
06/04/23	1	Unknown	Unknown	Improved grassland	1	17:20	Flying	50-100	-	-	-	12	-	-
06/04/23	1	Unknown	Unknown	Improved grassland	4	18:30	Flying	50-100	-	-	-	25	-	-
06/06/23	1	Unknown	Unknown	Improved grassland	1	10:20	Circling	50-180	-	-	-	10	60	-
06/06/23	2	Unknown	Unknown	Improved grassland	1	10:22	Flying	0-20	-	48	-	-	-	-
06/06/23	1	Unknown	Unknown	Improved grassland	1	11:13	Circling	50-180	-	-	-	75	150	-
12/07/23	1	Unknown	Unknown	Improved grassland	1	08:54	Flying	50-100	-	-	-	39	-	-
12/07/23	1	Unknown	Unknown	Improved grassland	4	09:43	Hunting	0-20	-	1067	-	-	-	-
12/07/23	1	Unknown	Unknown	Improved grassland	4	10:23	Hunting	0-20	-	1102	-	-	-	-
12/07/23	1	Unknown	Unknown	Improved grassland	1	13:24	Flying	100-180	-	-	-	-	91	-
12/07/23	1	Unknown	Unknown	Improved grassland	2	13:41	Flying	100-180	-	-	-	-	126	-
18/08/23	2	Unknown	Unknown	Improved grassland	5	10:06	Flying	100-180	-	-	-	-	28	-
18/08/23	1	Unknown	Unknown	Improved grassland	3	10:09	Flying	20-50	-	-	12	-	-	-
18/08/23	1	Unknown	Unknown	Improved grassland	1	10:24	Flying	20-100	-	-	5	5	-	-
18/08/23	1	Unknown	Unknown	Improved grassland	1	10:58	Flying	20-50	-	-	6	-	-	-
18/08/23	1	Unknown	Unknown	Improved grassland	1	11:58	Flying	20-100	-	-	4	4	-	-
15/09/23	2	Unknown	Unknown	Improved grassland	2	11:30	Flying	20-50	-	-	18	-	-	-
15/09/23	2	Unknown	Unknown	Improved grassland	2	11:31	Flying	20-50	-	-	10	-	-	-
15/09/23	2	Unknown	Unknown	Improved grassland	1	12:17	Flying	20-50	-	-	9	-	-	-
15/09/23	1	Unknown	Unknown	Improved grassland	1	12:33	Flying	20-50	-	-	20	-	-	-
15/09/23	2	Unknown	Unknown	Improved grassland	4	13:01	Flying	20-100	-	-	-	10	-	-
15/09/23	1	Unknown	Unknown	Improved grassland	1	13:07	Flying	20-50	-	-	8	-	-	-
Non-breeding 2023/24														
09/11/2023	2	Unknown	Unknown	Improved grassland	3	13:40	Flying	0-20	-	50	-	-	-	-
09/11/2023	2	Unknown	Unknown	Improved grassland	40	14:50	Flying	20-50	-	-	30	-	-	-
07/12/2023	2	Unknown	Unknown	Improved grassland	8	09:41	Flying	20-50	-	-	35	-	-	-

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Lesser black-backed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
05/01/2024	2	Unknown	Unknown	Improved grassland	1	11:01	Flying	0-20	-	20	-	-	-	-
08/02/2024	1	Unknown	Unknown	Improved grassland	7	13:50	Flying	0-20	-	30	-	-	-	-
08/02/2024	2	Unknown	Unknown	Improved grassland	1	08:26	Flying	0-20	-	34	-	-	-	-
08/02/2024	2	Unknown	Unknown	Improved grassland	2	11:27	Flying	20-50	-	-	49	-	-	-
07/03/2024	2	Unknown	Unknown	Improved grassland	2	13:05	Flying	20-50	-	-	20	-	-	-
Breeding 2024														
03/04/2024	2	Unknown	Unknown	Improved grassland	5	09:33	Flying	20-100	-	-	4	12	-	-
01/05/2024	1	Unknown	Unknown	Improved grassland	1	07:42	Flying	20-50	-	-	13	-	-	-
01/05/2024	1	Unknown	Unknown	Improved grassland	2	11:40	Flying	50-180	-	-	-	100	15	-
01/05/2024	1	Unknown	Unknown	Improved grassland	1	13:04	Flying	0-100	-	4	12	5	-	-
01/05/2024	2	Unknown	Unknown	Improved grassland	4	07:42	Flying	100-180	-	-	-	-	114	-
01/05/2024	2	Unknown	Unknown	Improved grassland	26	11:35	Flying	100-180	-	-	-	-	353	-
01/05/2024	2	Unknown	Unknown	Improved grassland	4	11:49	Flying	100-180	-	-	-	-	195	-
01/05/2024	2	Unknown	Unknown	Improved grassland	1	13:06	Flying	100-180	-	-	-	-	48	-
10/06/2024	1	Unknown	Unknown	Improved grassland	1	16:52	Flying	50-100	-	-	-	102	-	-
10/06/2024	1	Unknown	Unknown	Improved grassland	1	18:36	Flying	50-100	-	-	-	98	-	-
10/06/2024	2	Unknown	Unknown	Improved grassland	1	15:02	Flying	50-100	-	-	-	18	-	-
10/06/2024	2	Unknown	Unknown	Improved grassland	2	17:10	Flying	50-100	-	-	-	240	-	-
10/06/2024	2	Unknown	Unknown	Improved grassland	1	18:46	Flying	20-50	-	-	7	-	-	-
10/06/2024	2	Unknown	Unknown	Improved grassland	3	21:06	Flying	20-100	-	-	120	60	-	-
02/07/2024	1	Unknown	Unknown	Improved grassland	2	07:53	Flying	50-100	-	-	-	22	-	-
02/07/2024	1	Unknown	Unknown	Improved grassland	1	08:16	Flying	20-100	-	-	4	13	-	-
02/07/2024	1	Unknown	Unknown	Improved grassland	1	13:04	Circling	50-180	-	-	-	90	120	-
02/07/2024	2	Unknown	Unknown	Improved grassland	2	07:43	Flying	50-100	-	-	-	29	-	-
02/07/2024	2	Unknown	Unknown	Improved grassland	1	12:31	Flying	100-180	-	-	-	-	130	-
08/08/2024	1	Unknown	Unknown	Improved grassland	5	08:51	Flying	50-100	-	-	-	111	-	-

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Lesser black-backed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
08/08/2024	1	Unknown	Unknown	Improved grassland	3	08:58	Flying	50-100	-	-	-	74	-	-
08/08/2024	1	Unknown	Unknown	Improved grassland	1	10:29	Flying	50-100	-	-	-	42	-	-
08/08/2024	1	Unknown	Unknown	Improved grassland	2	11:29	Flying	50-100	-	-	-	104	-	-
08/08/2024	1	Unknown	Unknown	Improved grassland	1	12:24	Flying	20-50	-	-	124	-	-	-
08/08/2024	2	Unknown	Unknown	Improved grassland	2	08:25	Flying	50-100	-	-	-	25	-	-
08/08/2024	2	Unknown	Unknown	Improved grassland	3	08:54	Flying	20-100	-	-	50	35	-	-
08/08/2024	2	Unknown	Unknown	Improved grassland	1	09:19	Flying	50-100	-	-	-	6	-	-
08/08/2024	2	Unknown	Unknown	Improved grassland	1	12:42	Flying	20-50	-	-	45	-	-	-
08/08/2024	2	Unknown	Unknown	Improved grassland	1	12:43	Flying	0-100	-	5	5	10	-	-
08/08/2024	2	Unknown	Unknown	Improved grassland	1	14:04	Flying	20-50	-	-	12	-	-	-
11/09/2024	1	Unknown	Unknown	Improved grassland	2	09:13	Flying	20-100	-	-	36	10	-	-
11/09/2024	2	Unknown	Unknown	Improved grassland	1	08:49	Flying	100-180	-	-	-	-	171	-
11/09/2024	2	Unknown	Unknown	Improved grassland	2	09:26	Soaring	100-180	-	-	-	-	187	-
11/09/2024	2	Unknown	Unknown	Improved grassland	4	09:59	Flying	0-20	-	71	-	-	-	-
11/09/2024	2	Unknown	Unknown	Improved grassland	1	10:08	Flying	100-180	-	-	-	-	59	-
11/09/2024	2	Unknown	Unknown	Improved grassland	2	10:21	Soaring	20-50	-	-	43	-	-	-
11/09/2024	2	Unknown	Unknown	Improved grassland	1	10:24	Soaring	50-100	-	-	-	44	-	-
11/09/2024	2	Unknown	Unknown	Improved grassland	3	10:58	Soaring	0-20	-	14	-	-	-	-
11/09/2024	2	Unknown	Unknown	Improved grassland	1	13:19	Flying	50-100	-	-	-	106	-	-
Non-breeding 2024/25														
04/10/2024	1	Unknown	Adult	Improved grassland	1	09:29	Flying	20-50	-	-	51	-	-	-
04/10/2024	1	Unknown	Adult	Improved grassland	1	09:59	Flying	100-180	-	-	-	-	63	-
04/10/2024	1	Unknown	Adult	Improved grassland	2	10:29	Flying	0-20	-	53	-	-	-	-
04/10/2024	1	Unknown	Adult	Improved grassland	2	11:18	Flying	20-50	-	-	94	-	-	-
04/10/2024	1	Unknown	Adult	Improved grassland	2	11:31	Flying	50-100	-	-	-	107	-	-

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Lesser black-backed gull														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
04/10/2024	1	Unknown	Unknown	Improved grassland	8	11:52	Flying, circling	100-180	-	-	-	-	144	-
04/10/2024	1	Unknown	Adult	Improved grassland	1	12:45	Flying	100-180	-	-	-	-	111	-
04/10/2024	1	Unknown	Immature	Improved grassland	1	13:17	Flying	20-50	-	-	67	-	-	-
04/10/2024	1	Unknown	Adult	Improved grassland	1	13:24	Flying	50-100	-	-	-	51	-	-
04/10/2024	2	Unknown	Adult	Improved grassland	2	09:09	Flying	20-100	-	-	100	15	-	-
04/10/2024	2	Unknown	Immature	Improved grassland	2	12:49	Flying	20-50	-	-	50	-	-	-
04/10/2024	2	Unknown	Adult	Improved grassland	7	12:51	Flying	20-100	-	-	90	25	-	-
04/10/2024	2	Unknown	Adult	Improved grassland	3	12:51	Flying	20-100	-	-	70	15	-	-
04/10/2024	2	Unknown	Adult	Improved grassland	3	12:53	Flying	20-50	-	-	48	-	-	-
04/10/2024	2	Unknown	Adult	Improved grassland	1	13:02	Flying	20-100	-	-	90	5	-	-
04/12/2024	1	Unknown	Immature	Improved grassland	1	09:13	Flying	100-180	-	-	-	-	89	-
04/12/2024	2	Unknown	Sub-adult	Improved grassland	4	08:51	Flying	0-50	-	12	15	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	2	09:32	Flying	0-50	-	20	6	-	-	-
13/01/2025	1	Unknown	Adult	Improved grassland	1	13:44	Flying	20-50	-	-	17	-	-	-
18/03/2025	1	Unknown	Adult	Improved grassland	1	12:42	Flying	20-100	-	-	12	6	-	-
18/03/2025	1	Unknown	Adult	Improved grassland	1	12:48	Flying	20-50	-	-	8	-	-	-
18/03/2025	1	Unknown	Adult/Immature	Improved grassland	26	12:53	Flying	20-100	-	-	9	3	-	-
18/03/2025	2	Unknown	Unknown	Improved grassland	1	13:01	Flying	20-50	-	-	57	-	-	-
18/03/2025	2	Unknown	Unknown	Improved grassland	4	15:56	Circling	50-100	-	-	-	166	-	-

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Table 91. Vantage Point survey results – little egret

Little egret														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2020														
19/05/2020	2	Unknown	Unknown	Improved grassland	1	10.17	Flying	60	-	-	-	59	-	-
19/05/2020	2	Unknown	Unknown	Improved grassland/rough grassland	1	10.58	Flying	20	-	83	-	-	-	-
22/05/2020	2	Unknown	Unknown	Improved grassland/rough grassland/river/ stream	1	13.19	Flying/on ground	0-20	3600	453	-	-	-	-
Non-breeding 2020/21														
25/11/2020	1	Unknown	Unknown	Improved grassland/rough grassland	1	11:45	Flying	30	-	-	40	-	-	-
08/12/2020	2	Unknown	Unknown	Improved grassland	3	09.59	On the ground	-	1500	-	-	-	-	-
08/12/2020	2	Unknown	Unknown	Improved grassland	1	13.45	Flying Flying Flying	0-20	-	3 420 7	-	-	-	-
20/01/2021	2	Unknown	Unknown	Improved grassland, rough grassland	1	09.22	Flying, perching	0-20	480	25	-	-	-	-
20/01/2021	2	Unknown	Unknown	Improved grassland, rough grassland	1	09.32	Flying, on the ground	0-20	-	5	-	-	-	-
20/01/2021	2	Unknown	Unknown	Improved grassland, rough grassland	1	10.43	Flying	0-20	-	15	-	-	-	-
20/01/2021	2	Unknown	Unknown	Improved grassland	1	14.05	Flying, hunting, on the ground	0-20	-	4 720 3	-	-	-	-
20/01/2021	2	Unknown	Unknown	Rough grassland, improved grassland	1	15.28	Flying, hunting, on the ground	0-20	1200	5	-	-	-	-
16/02/2021	2	Unknown	Adult	Improved grassland	1	8.58	Flying	20-50	-	-	10	-	-	-

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Little egret														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2021														
10/05/2021	1	Unknown	Unknown	Improved grassland	1	09.44	Flying, soaring	50-60	-	-	-	240	-	-
10/05/2021	2	Unknown	Unknown	Improved grassland	1	09.57	Flying	50-70	-	-	-	70	-	-
10/05/2021	1	Unknown	Unknown	Improved grassland	1	14.08	Flying	15	-	15	-	-	-	-
28/06/2021	2	Unknown	Unknown	Improved grassland, hedges, trees	1	12.52	Flying	30	-	-	15	-	-	-
Non-breeding 2021/22														
10/03/2022	1	Unknown	Adult	Improved grassland, rough grassland	2	09:53	Flying	30	-	-	28	-	-	-
22/03/2022	2	Unknown	Adult	Improved grassland, rough grassland	2	10:20	Flying	30	-	-	42	-	-	-
Non-breeding 2022/23														
23/10/2022	1	Unknown	Adult	Improved grassland	1	13:16	Flying	50-100	-	-	-	6	-	-
24/11/2022	2	Unknown	Adult	Improved grassland	1	08:40	On ground	-	10	-	-	-	-	-
24/11/2022	2	Unknown	Adult	Improved grassland	1	11:35	Flying	50-100	-	-	-	10	-	-
01/12/2022	2	Unknown	Adult	Improved grassland	8	12:05	Flying	0-20	-	10	-	-	-	-
06/03/2023	2	Unknown	Adult	Improved grassland	1	18:16	Flying	0-20	-	7	-	-	-	-
Breeding 2023														
02/05/23	2	Unknown	Adult	Improved grassland	1	08:28	Flying	20-50	-	-	17	-	-	-
02/05/23	1	Unknown	Adult	Improved grassland	1	09:10	Flying	50-100	-	-	-	120	-	-
Non-breeding 2023/24														
09/11/2023	2	Unknown	Unknown	Improved grassland	3	12:15	Flying	0-20	-	45	-	-	-	-
07/03/2024	1	Unknown	Unknown	Improved grassland	4	18:03	Flying	0-20	-	38	-	-	-	-
Breeding 2024														
03/04/2024	1	Unknown	Unknown	Improved grassland	1	07:13	Flying	0-20	-	23	-	-	-	-
Non-breeding 2024/25														

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Little egret														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
04/10/2024	1	Unknown	Adult	Improved grassland	1	12:22	Flying	0-20	-	11	-	-	-	-
04/10/2024	2	Unknown	Adult	Improved grassland	2	10:48	Flying, on ground	0-50	-	8	4	-	-	-
07/11/2024	1	Unknown	Adult	Improved grassland	1	11:20	Flying, on ground	0-20	-	29	-	-	-	-
07/11/2024	1	Unknown	Adult	Improved grassland	1	16:42	Flying, on ground	0-20	-	7	-	-	-	-
04/12/2024	1	Unknown	Unknown	Improved grassland	1	09:43	Flying	0-20	-	26	-	-	-	-
04/12/2024	1	Unknown	Unknown	Improved grassland	1	13:56	Flying	0-20	-	13	-	-	-	-
04/12/2024	1	Unknown	Unknown	Improved grassland	2	14:09	Flying	0-20	-	23	-	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	4	09:26	Flying, on ground	0	-	-	-	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	3	12:12	Flying	0-20	-	11	-	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	1	13:23	Flying	0-20	-	13	-	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	2	14:08	Flying, on ground	0-50	-	2	9	-	-	-
04/12/2024	2	Unknown	Adult	Improved grassland	1	14:24	Flying	0-50	-	25	48	-	-	-
07/02/2025	1	Unknown	Adult	Improved grassland	1	11:44	Flying	20-50	-	-	59	-	-	-

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Table 92. Vantage Point survey results – mallard

Mallard														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2020/21														
12/03/2021	2	Male	Adult	Improved grassland	1	09.10	Flying	15	-	5	-	-	-	-
Non-breeding 2022/23														
07/02/2023	2	Unknown	Adult	Improved grassland	2	08:20	Flying	50-100	-	-	-	7	-	-
06/03/2023	2	Unknown	Adult	Improved grassland	1	13:23	Flying	0-20	-	21	-	-	-	-
Non-breeding 2023/24														
06/10/2023	1	Unknown	Unknown	Improved grassland	1	09:39	Flying	50-100	-	-	-	30	-	-
06/10/2023	2	Unknown	Unknown	Improved grassland	10	12:15	Flying	20-50	-	-	23	-	-	-
06/10/2023	2	Unknown	Unknown	Improved grassland	2	12:34	Flying	20-50	-	-	14	-	-	-
07/03/2024	1	Unknown	Unknown	Improved grassland	2	14:50	Flying	0-20	-	15	-	-	-	-
07/03/2024	1	Unknown	Unknown	Improved grassland	1	17:21	Flying	20-50	-	-	40	-	-	-
06/10/2023	1	Unknown	Unknown	Improved grassland	1	09:39	Flying	50-100	-	-	-	30	-	-
06/10/2023	2	Unknown	Unknown	Improved grassland	10	12:15	Flying	20-50	-	-	23	-	-	-
06/10/2023	2	Unknown	Unknown	Improved grassland	2	12:34	Flying	20-50	-	-	14	-	-	-
07/03/2024	1	Unknown	Unknown	Improved grassland	2	14:50	Flying	0-20	-	15	-	-	-	-

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Mallard														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
07/03/2024	2	Unknown	Unknown	Improved grassland	1	17:00	Flying	0-20	-	30	-	-	-	-
Breeding 2024														
03/04/2024	2	Unknown	Unknown	Improved grassland	4	07:55	Flying	0-20	-	4	-	-	-	-
01/05/2024	1	Unknown	Unknown	Improved grassland	1	11:43	Flying	0-50	-	5	11	-	-	-
08/08/2024	1	Unknown	Unknown	Improved grassland	1	11:52	Flying	0-20	-	41	-	-	-	-
08/08/2024	1	Unknown	Unknown	Improved grassland	2	12:23	Flying	0-20	-	59	-	-	-	-
08/08/2024	1	Unknown	Unknown	Improved grassland	1	12:38	Flying	20-50	-	-	24	-	-	-
08/08/2024	1	Unknown	Unknown	Improved grassland	2	12:54	Flying	20-50	-	-	67	-	-	-
Non-breeding 2024/25														
07/02/2025	1	Male	Adult	Improved grassland	1	08:19	Flying	20-50	-	-	124	-	-	-
18/03/2025	1	Pair	Adult	Improved grassland	2	12:10	Flying	0-20	-	11	-	-	-	-

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Table 93. Vantage Point survey results - mute swan

Mute swan														
Date	VP	Sex	Age	Habitat	No. of Birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2023/24														
07/12/2023	1	Unknown	Unkno wn	Improved grassland	3	13:26	On Ground	0	-	-	-	-	-	-
07/03/2024	1	Unknown	Unkno wn	Improved grassland	1	12:00	On Ground	0	-	-	-	-	-	-
Breeding 2024														
03/04/2024	1	Unknown	Unkno wn	Improved grassland	1	09:24	Flying	0-20	-	140	-	-	-	-
Non-breeding 2024/25														
07/02/2025	1	Unknown	Adult	Improved grassland	2	09:18	flying	20-50	-	-	76	-	-	-
07/02/2025	1	Unknown	Unkno wn	Improved grassland	2	14:06	on ground	0	-	-	-	-	-	-

Table 94. Vantage Point survey results – peregrine

Peregrine														
Date	VP	Sex	Age	Habitat	No. of Birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2022/23														
01/12/2022	2	Unknown	Adult	Improved grassland	1	09:55	Perched/flying	20-50	-	-	40	-	-	-
Breeding 2024														
03/04/2024	1	Unknown	Unkno wn	Improved grassland	1	11:24	Hunting	100-180	-	-	-	-	90	-

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Peregrine														
Date	VP	Sex	Age	Habitat	No. of Birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
01/05/2024	1	Unknown	Unknown	Improved grassland	1	13:19	Flying	50-100	-	-	-	135	-	-

Table 95. Vantage Point survey results – snipe

Snipe														
Date	VP	Sex	Age	Habitat	No. of Birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2021/22														
08/11/2021	1	Unknown	Adult	Improved grassland, scrub	3	09:22	Flying	100	-	-	-	70	-	-
Breeding 2023														
12/07/23	2	Unknown	Unknown	Improved grassland	3	09:07	Flying	20-100	-	-	30	20	-	-
15/09/23	1	Unknown	Unknown	Improved grassland	4	10:40	Flying	100-180	-	-	-	-	16	-
15/09/23	2	Unknown	Unknown	Improved grassland	4	11:30	Flying	20-50	-	-	7	-	-	-
Non-breeding 2023/24														
06/10/2023	2	Unknown	Unknown	Improved grassland	1	09:36	Flying	0-20	-	12	-	-	-	-
07/12/2023	1	Unknown	Unknown	Improved grassland	2	11:57	Flying	50-100	-	-	-	26	-	-
07/12/2023	2	Unknown	Unknown	Improved grassland	1	09:45	Flying	20-50	-	-	20	-	-	-
08/02/2024	1	Unknown	Unknown	Improved grassland	1	13:57	Flying	0-20	-	15	-	-	-	-
08/02/2024	2	Unknown	Unknown	Improved grassland	1	09:10	Calling	0	-	-	-	-	-	-
Non-breeding 2024/25														
07/11/2024	2	Unknown	Unknown	Improved grassland	1	13:14	Flying	0-20	-	36	-	-	-	-
13/01/2025	2	Unknown	Unknown	Improved grassland	1	11:01	Flying	0-20	-	14	-	-	-	-

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Snipe														
Date	VP	Sex	Age	Habitat	No. of Birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
13/01/2025	2	Unknown	Unknown	Improved grassland	2	15:23	Flying	0-20	-	11	-	-	-	-
07/02/2025	1	Unknown	Adult	Improved grassland	1	09:24	Calling	0	-	-	-	-	-	-
18/03/2025	2	Unknown	Unknown	Improved grassland	2	17:31	Flying	0-20	-	11	-	-	-	-

Table 96. Vantage Point survey results – sparrowhawk

Sparrowhawk														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2020														
11/02/2020	1	Female	Adult	Improved grassland	1	09.51	Flying, hunting	5-10	-	9	-	-	-	-
16/04/2020	1	Unknown	Unknown	Improved grassland/ broadleaved woodland	1	10.44	Flying	20-50	-	-	77	-	-	-
16/04/2020	1	Female	Unknown	Improved grassland/ broadleaved woodland	1	11.11	Flying/hunting	0-50	-	4	31	-	-	-
19/05/2020	1	Male	Adult	Improved grassland/ broadleaved woodland	1	15.28	Flying/hunting	0-20	-	15	-	-	-	-
Non-breeding 2020/21														
12/10/2020	1	Unknown	Unknown	Improved grassland	1	10.35	Being mobbed	3-4	-	10	-	-	-	-
08/12/2020	2	Female	Unknown	Improved grassland	1	15.30	Flying	0-10	-	6	-	-	-	-
Non-breeding 2021/22														
08/11/2021	1	Female	Adult	Improved grassland, rough grassland	1	09:40	Flying Soaring	150 200	-	-	-	-	120	120

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Sparrowhawk														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
08/11/2021	2	Female	Adult	Improved grassland, rough grassland	1	12:38	Soaring	100 200	-	-	-	180	-	120
26/01/2022	1	Female	Adult	Improved grassland, rough grassland	1	09:54	Flying	10	-	12	-	-	-	-
Non-breeding 2022/23														
23/10/2022	1	Unknown	Adult	Improved grassland	1	10:43	Circling	50-100	-	-	-	10	-	-
24/11/2022	2	Unknown	Adult	Improved grassland	1	13:59	Hunting	20-50	-	-	7	-	-	-
01/12/2022	1	Unknown	Adult	Improved grassland	1	13:17	Hunting	0-20	-	120	-	-	-	-
01/12/2022	2	Unknown	Adult	Improved grassland	1	14:41	Hunting	0-20	-	7	-	-	-	-
07/02/2023	2	Unknown	Adult	Improved grassland	1	12:00	Hunting	0-20	-	7	-	-	-	-
06/03/2023	2	Unknown	Adult	Improved grassland	1	14:03	Flying/ Hunting	0-20	-	14	-	-	-	-
06/03/2023	2	Unknown	Adult	Improved grassland	1	14:54	Flying	0-20	-	4	-	-	-	-
Breeding 2023														
02/05/2023	2	Unknown	Unknown	Improved grassland	1	11:42	Flying	20-50	-	-	8	-	-	-
12/07/2023	2	Unknown	Unknown	Improved grassland	1	11:01	Hunting	0-20	-	8	-	-	-	-
18/08/2023	2	Unknown	Unknown	Improved grassland	1	11:46	Flying	0-20	-	5	-	-	-	-
Non-breeding 2023/24														
07/12/2023	1	Unknown	Unknown	Improved grassland	1	09:52	Flying	0-20	-	28	-	-	-	-
07/12/2023	1	Unknown	Unknown	Improved grassland	2	12:59	Display	0-20	-	85	-	-	-	-
05/01/2024	1	Unknown	Unknown	Improved grassland	1	15:07	Hunting	0-20	-	18	-	-	-	-
08/02/2024	2	Unknown	Unknown	Improved grassland	1	10:02	Hunting	0-20	-	13	-	-	-	-
07/03/2024	1	Unknown	Unknown	Improved grassland	1	16:54	Hunting	0-20	-	13	-	-	-	-
Breeding 2024														
03/04/2024	1	Unknown	Unknown	Improved grassland	1	09:38	Flying	0-20	-	20	-	-	-	-
03/04/2024	2	Unknown	Unknown	Improved grassland	1	09:37	Flying	20-50	-	-	10	-	-	-

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Sparrowhawk														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2024/25														
13/01/2025	1	Female	Adult	Improved grassland	1	15:28	Hunting	0-20	-	14	-	-	-	-
07/02/2025	1	Male	Adult	Improved grassland	1	08:08	Hunting, flying	0-20	-	88	-	-	-	-
07/02/2025	1	Male	Adult	Improved grassland	1	08:22	Hunting, flying	0-20	-	89	-	-	-	-
07/02/2025	2	female	adult	Improved grassland	1	09:00	Hunting	0-20	-	7	-	-	-	-

Table 97. Vantage Point survey results – whimbrel

Whimbrel														
Date	VP	Sex	Age	Habitat	No. of Birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Breeding 2023														
02/05/2023	2	Unknown	Unknown	Improved grassland	10	06:50	Flying	20-50	-	-	9	-	-	-
02/05/2023	2	Unknown	Unknown	Improved grassland	20	08:37	Circling	50-100	-	-	-	30	-	-
Breeding 2024														
01/05/2024	2	Unknown	Unknown	Improved grassland	1	07:59	Flying	0-20	-	10	-	-	-	-
01/05/2024	2	Unknown	Unknown	Improved grassland	1	13:08	Calling	0	-	-	-	-	-	-

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Table 98. Vantage Point survey results – whooper swan

Whooper swan														
Date	VP	Sex	Age	Habitat	No. of birds	Time	Activity	Flight height (m)	Time (sec) in height category					
									Non-flight	0-20m	20-50m	50-100m	100-180m	>180m
Non-breeding 2021/22														
08/11/2021	1	Unknown	Adult	Improved grassland, rough grassland	1	10:07	Flying	80	-	-	-	40	-	-

Vantage Point survey counts

Table 99. Vantage Point survey peak count results

Species		Peak count									
Common name	Scientific name	B 2020	NB 2020/21	B 2021	NB 2021/22	B 2022	NB 2022/23	B 2023	NB 2023/24	B 2024	NB 2024/25
Blackbird	<i>Turdus merula</i>	8	6	5	16	16	9	16	4	36	6
Blackcap	<i>Sylvia atricapilla</i>	2	2	2	0	0	0	6	0	7	0
Black-headed gull	<i>Chroicocephalus ridibundus</i>	0	120	1	200	0	150	3	94	2	372
Blue tit	<i>Cyanistes caeruleus</i>	5	3	2	11	0	7	6	3	11	7
Bullfinch	<i>Pyrrhula pyrrhula</i>	2	0	0	5	5	4	3	3	3	1
Buzzard	<i>Buteo buteo</i>	4	1	2	4	3	2	2	4	8	4
Chaffinch	<i>Fringilla coelebs</i>	12	10	2	30	18	20	24	7	27	18
Chiffchaff	<i>Phylloscopus collybita</i>	3	1	3	16	4	12	6	0	6	0
Coal tit	<i>Periparus ater</i>	1	6	1	0	0	1	4	1	0	4
Collared dove	<i>Streptopelia decaocto</i>	0	0	0	4	5	0	1	0	2	0
Common gull	<i>Larus canus</i>	0	200	4	0	0	0	0	44	0	2
Cormorant	<i>Phalacrocorax carbo</i>	0	0	2	0	0	0	1	1	1	1
Cuckoo	<i>Cuculus canorus</i>	1	0	1	0	0	0	2	0	2	0
Curlew	<i>Numenius arquata</i>	0	0	1	0	0	0	0	1	0	0
Dunnock	<i>Prunella modularis</i>	4	2	2	6	7	5	7	4	10	3
Feral pigeon	<i>Columba livia domestica</i>	2	0	0	0	0	0	0	0	0	0
Fieldfare	<i>Turdus pilaris</i>	0	16	0	80	0	105	0	42	0	45
Goldcrest	<i>Regulus regulus</i>	2	1	2	8	12	5	1	3	2	3
Golden plover	<i>Pluvialis apricaria</i>	0	0	0	0	0	0	0	36	0	0

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Species		Peak count									
Common name	Scientific name	B 2020	NB 2020/21	B 2021	NB 2021/22	B 2022	NB 2022/23	B 2023	NB 2023/24	B 2024	NB 2024/25
Goldfinch	<i>Carduelis carduelis</i>	60	3	7	22	18	7	86	13	43	15
Grasshopper warbler	<i>Locustella naevia</i>	0	0	2	0	0	0	0	0	0	0
Great black-backed gull	<i>Larus marinus</i>	2	0	4	0	0	1	0	0	0	0
Great tit	<i>Parus major</i>	3	4	3	8	9	12	6	3	9	4
Great white egret	<i>Ardea alba</i>	0	0	0	0	0	0	0	1	0	0
Greenfinch	<i>Chloris chloris</i>	0	0	2	0	3	3	4	6	5	2
Grey heron	<i>Ardea cinerea</i>	1	0	0	0	0	0	1	0	0	1
Grey wagtail	<i>Motacilla cinerea</i>	0	0	0	0	0	1	1	3	3	3
Hen harrier	<i>Circus cyaneus</i>	0	0	0	0	0	1	0	0	0	0
Herring gull	<i>Larus argentatus</i>	2	30	4	0	0	0	0	0	0	0
Hooded crow	<i>Corvus cornix</i>	8	0	4	40	35	20	27	17	14	25
House martin	<i>Delichon urbicum</i>	8	0	3	0	0	0	2	0	9	8
House sparrow	<i>Passer domesticus</i>	4	8	0	0	6	0	0	2	3	0
Jackdaw	<i>Coleus monedula</i>	25	78	20	200	150	71	159	100	67	77
Jay	<i>Garrulus glandarius</i>	0	5	0	0	0	1	0	0	3	0
Kestrel	<i>Falco tinnunculus</i>	1	1	1	1	1	2	1	5	0	3
Lapwing	<i>Vanellus vanellus</i>	0	0	0	0	0	0	0	0	0	12
Lesser black-backed gull	<i>Larus fuscus</i>	1	48	3	62	5	0	5	43	0	37
Linnet	<i>Linaria cannabina</i>	15	0	0	0	8	6	14	3	4	7
Little egret	<i>Egretta garzetta</i>	1	3	1	2	0	8	1	4	0	4
Long-tailed tit	<i>Aegithalos caudatus</i>	1	0	0	25	0	8	21	0	18	6
Magpie	<i>Pica pica</i>	6	11	5	50	35	10	8	5	8	9

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Species		Peak count									
Common name	Scientific name	B 2020	NB 2020/21	B 2021	NB 2021/22	B 2022	NB 2022/23	B 2023	NB 2023/24	B 2024	NB 2024/25
Mallard	<i>Anas platyrhynchos</i>	0	1	0	0	0	2	0	13	0	2
Meadow pipit	<i>Anthus pratensis</i>	6	40	6	25	24	9	24	41	11	25
Mistle thrush	<i>Turdus viscivorus</i>	3	3	3	16	7	1	2	6	4	7
Mute swan	<i>Cygnus olor</i>	0	0	0	0	0	0	0	3	1	4
Peregrine	<i>Falco peregrinus</i>	0	0	0	0	0	1	0	0	0	0
Pheasant	<i>Phasianus colchicus</i>	3	2	3	5	5	1	0	1	6	2
Pied wagtail	<i>Motacilla alba</i>	3	3	8	10	9	5	5	6	7	7
Raven	<i>Corvus corax</i>	3	4	1	12	18	4	6	1	5	6
Redpoll	<i>Acanthis flammea</i>	0	0	0	0	0	5	0	0	0	0
Redwing	<i>Turdus iliacus</i>	0	22	0	300	0	90	0	69	0	219
Reed Bunting	<i>Emberiza schoeniclus</i>	0	0	0	0	0	0	0	1	1	0
Robin	<i>Erithacus rubecula</i>	3	7	2	12	12	6	13	4	7	9
Rook	<i>Corvus frugilegus</i>	38	60	50	350	350	172	335	86	198	157
Sand Martin	<i>Riparia riparia</i>	0	0	0	0	0	0	0	0	1	0
Sedge warbler	<i>Acrocephalus schoenobaenus</i>	0	0	1	0	0	0	0	0	0	0
Siskin	<i>Spinus spinus</i>	0	0	0	0	0	1	0	2	0	0
Skylark	<i>Alauda arvensis</i>	1	0	0	0	4	1	0	1	3	0
Snipe	<i>Gallinago gallinago</i>	1	9	1	3	0	0	4	3	0	3
Song thrush	<i>Turdus philomelos</i>	2	2	2	2	2	4	9	3	5	8
Sparrowhawk	<i>Accipiter nisus</i>	1	1	0	1	0	2	1	3	0	3
Starling	<i>Sturnus vulgaris</i>	16	45	74	300	250	149	106	80	82	215

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Species		Peak count									
Common name	Scientific name	B 2020	NB 2020/21	B 2021	NB 2021/22	B 2022	NB 2022/23	B 2023	NB 2023/24	B 2024	NB 2024/25
Stock dove	<i>Columba oenas</i>	1	0	0	0	0	1	4	1	3	0
Stonechat	<i>Saxicola rubicola</i>	2	2	2	6	8	4	4	2	1	4
Swallow	<i>Hirundo rustica</i>	26	5	20	0	120	0	229	22	44	46
Swift	<i>Apus apus</i>	0	0	6	0	0	0	8	0	5	0
Treecreep er	<i>Certhia familiaris</i>	0	0	0	0	0	0	0	1	0	0
Wheatear	<i>Oenanthe oenanthe</i>	0	0	0	0	0	0	1	0	0	0
Whimbrel	<i>Numenius phaeopus</i>	0	0	0	0	0	0	20	0	2	0
Whooper swan	<i>Cygnus cygnus</i>	0	0	0	1	0	0	0	0	0	0
Willow warbler	<i>Phylloscopus trochilus</i>	2	0	1	0	6	0	2	0	3	0
Woodpigeon	<i>Columba palumbus</i>	14	11	12	100	80	58	52	127	72	107
Wren	<i>Troglodytes troglodytes</i>	5	3	3	10	10	5	9	4	8	4

Transect surveys

Table 100. Transect survey peak count results (breeding season 2020)

Common name	Scientific name	Apr-20	May-20
Blackbird	<i>Turdus merula</i>	8	7
Blue tit	<i>Cyanistes caeruleus</i>	6	2
Buzzard	<i>Buteo buteo</i>	1	1
Chaffinch	<i>Fringilla coelebs</i>	13	12
Chiffchaff	<i>Phylloscopus collybita</i>	0	5
Coal tit	<i>Parus ater</i>	0	1
Cuckoo	<i>Cuculus canorus</i>	0	1
Dunnock	<i>Prunella modularis</i>	0	3
Goldcrest	<i>Regulus regulus</i>	1	0
Goldfinch	<i>Carduelis carduelis</i>	5	13
Great tit	<i>Parus major</i>	5	2

Common name	Scientific name	Apr-20	May-20
Greenfinch	<i>Chloris chloris</i>	0	4
Hooded crow	<i>Corvus cornix</i>	2	4
House martin	<i>Delichon urbicum</i>	0	2
House sparrow	<i>Passer domesticus</i>	0	3
Jackdaw	<i>Coloeus monedula</i>	4	14
Linnet	<i>Linaria cannabina</i>	3	0
Magpie	<i>Pica pica</i>	2	4
Meadow pipit	<i>Anthus pratensis</i>	1	4
Mistle thrush	<i>Turdus viscivorus</i>	0	1
Pheasant	<i>Phasianus colchicus</i>	1	0
Robin	<i>Erithacus rubecula</i>	6	4
Rook	<i>Corvus frugilegus</i>	25	17
Song thrush	<i>Turdus philomelos</i>	1	2
Starling	<i>Sturnus vulgaris</i>	5	1
Swallow	<i>Hirundo rustica</i>	3	6
Woodpigeon	<i>Columba palumbus</i>	5	14
Wren	<i>Troglodytes troglodytes</i>	4	7
Willow warbler	<i>Phylloscopus trochilus</i>	0	1

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Table 101. Transect survey peak count results (non-breeding season 2020/21)

Common name	Scientific name	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
Blackbird	<i>Turdus merula</i>	1	1	2	0	2
Chaffinch	<i>Fringilla coelebs</i>	0	1	0	0	0
Hooded crow	<i>Corvus cornix</i>	0	0	0	0	3
Jackdaw	<i>Coloeus monedula</i>	0	3	3	0	0
Lesser black-backed gull	<i>Larus fuscus</i>	1	0	6	2	0
Kestrel	<i>Falco tinnunculus</i>	0	0	0	0	1
Magpie	<i>Pica pica</i>	1	1	0	0	1
Meadow pipit	<i>Anthus pratensis</i>	3	0	0	0	0
Mistle thrush	<i>Turdus viscivorus</i>	0	0	0	1	0
Pheasant	<i>Phasianus colchicus</i>	1	0	0	0	0
Pied wagtail	<i>Motacilla alba</i>	0	0	2	0	0
Redwing	<i>Turdus iliacus</i>	0	0	0	4	0
Robin	<i>Erithacus rubecula</i>	1	1	2	0	0
Rook	<i>Corvus frugilegus</i>	10	1	4	0	5

Common name	Scientific name	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
Siskin	<i>Spinus spinus</i>	0	0	7	0	0
Song thrush	<i>Turdus philomelos</i>	0	0	0	3	0
Sparrowhawk	<i>Accipiter nisus</i>	0	0	0	1	0
Starling	<i>Sturnus vulgaris</i>	0	0	3	0	8
Stonechat	<i>Saxicola rubicola</i>	1	0	0	0	0
Woodpigeon	<i>Columba palumbus</i>	1	1	1	0	1

Table 102. Transect survey peak count results (breeding season 2021)

Common name	Scientific name	Apr-21	May-21	Jun-21	Jul-21
Blackbird	<i>Turdus merula</i>	0	6	0	1
Blue tit	<i>Cyanistes caeruleus</i>	0	1	1	0
Chaffinch	<i>Fringilla coelebs</i>	1	8	1	0
Chiffchaff	<i>Phylloscopus collybita</i>	1	1	3	0
Goldfinch	<i>Carduelis carduelis</i>	0	0	4	0
Great tit	<i>Parus major</i>	0	1	0	0
Hooded crow	<i>Corvus cornix</i>	0	2	0	0
Magpie	<i>Pica pica</i>	0	0	0	2
Meadow pipit	<i>Anthus pratensis</i>	0	0	0	1
Pheasant	<i>Phasianus colchicus</i>	0	0	1	0
Robin	<i>Erithacus rubecula</i>	1	2	2	0
Rook	<i>Corvus frugilegus</i>	23	9	1	3
Song thrush	<i>Turdus philomelos</i>	0	1	0	0
Starling	<i>Sturnus vulgaris</i>	2	6	0	0
Swallow	<i>Hirundo rustica</i>	0	1	8	9
Woodpigeon	<i>Columba palumbus</i>	1	4	3	6
Wren	<i>Troglodytes troglodytes</i>	1	4	2	0

Table 103. Transect survey peak count results (non-breeding season 2021/22)

Common name	Scientific name	Oct-21	Nov-21	Dec-21	Jan -22
Blackbird	<i>Turdus merula</i>	6	11	5	12
Blue tit	<i>Cyanistes caeruleus</i>	0	7	4	6
Bullfinch	<i>Pyrrhula pyrrhula</i>	0	0	0	4
Chaffinch	<i>Fringilla coelebs</i>	15	28	22	25
Collared dove	<i>Streptopelia decaocto</i>	0	0	0	2
Dunnock	<i>Prunella modularis</i>	2	2	2	3
Fieldfare	<i>Turdus pilaris</i>	0	40	30	22

Common name	Scientific name	Oct-21	Nov-21	Dec-21	Jan -22
Goldcrest	<i>Regulus regulus</i>	0	0	7	8
Goldfinch	<i>Carduelis carduelis</i>	20	22	15	14
Great spotted woodpecker	<i>Dendrocopus major</i>	0	10	0	0
Great tit	<i>Parus major</i>	0	4	2	3
Hooded crow	<i>Corvus comix</i>	8	16	12	0
Jackdaw	<i>Coloeus monedula</i>	80	120	160	150
Kestrel	<i>Falco tinnunculus</i>	1	1	1	1
Linnet	<i>Linaria cannabina</i>	0	30	0	0
Long-tailed tit	<i>Aegithalos caudatus</i>	0	20	16	12
Magpie	<i>Pica pica</i>	14	10	1	22
Meadow pipit	<i>Anthus pratensis</i>	0	25	8	15
Mistle thrush	<i>Turdus viscivorus</i>	10	7	4	5
Pheasant	<i>Phasianus colchicus</i>	3	4	1	0
Pied wagtail	<i>Motacilla alba</i>	5	5	4	3
Raven	<i>Corvus corax</i>	0	5	0	3
Redwing	<i>Turdus iliacus</i>	0	150	150	200
Robin	<i>Erithacus rubecula</i>	3	5	5	7
Rook	<i>Corvus frugilegus</i>	100	200	120	200
Song thrush	<i>Turdus philomelos</i>	0	0	0	2
Starling	<i>Sturnus vulgaris</i>	0	100	0	100
Woodpigeon	<i>Columba palumbus</i>	30	50	15	60
Wren	<i>Troglodytes troglodytes</i>	2	5	3	9

Table 104. Transect survey peak count results (breeding season 2022)

Common name	Scientific name	May-22	Jun-22	Jul-22	Aug-22
Blackbird	<i>Turdus merula</i>	18	11	9	8
Blackcap	<i>Sylvia atricapilla</i>	1	1	0	0
Blue tit	<i>Cyanistes caeruleus</i>	6	3	0	5
Bullfinch	<i>Pyrrhula pyrrhula</i>	5	1	0	3
Buzzard	<i>Buteo buteo</i>	0	0	0	3
Chaffinch	<i>Fringilla coelebs</i>	15	14	16	14
Chiffchaff	<i>Phylloscopus collybita</i>	4	2	1	0
Collared dove	<i>Streptopelia decaocto</i>	0	0	4	3
Cuckoo	<i>Cuculus canorus</i>	2	0	0	0
Dunnock	<i>Prunella modularis</i>	3	5	3	2
Goldcrest	<i>Regulus regulus</i>	10	0	0	0
Goldfinch	<i>Carduelis carduelis</i>	12	12	9	14

Common name	Scientific name	May-22	Jun-22	Jul-22	Aug-22
Great tit	<i>Parus major</i>	6	4	0	5
Greenfinch	<i>Chloris chloris</i>	0	3	4	0
Hooded crow	<i>Corvus cornix</i>	25	16	7	16
House martin	<i>Delichon urbicum</i>	0	30	0	0
House sparrow	<i>Passer domesticus</i>	8	0	0	0
Jackdaw	<i>Coloeus monedula</i>	100	100	100	80
Kestrel	<i>Falco tinnunculus</i>	1	0	1	1
Linnet	<i>Linaria cannabina</i>	6	8	7	10
Magpie	<i>Pica pica</i>	7	22	12	18
Meadow pipit	<i>Anthus pratensis</i>	18	18	14	10
Mistle thrush	<i>Turdus viscivorus</i>	2	0	3	3
Pheasant	<i>Phasianus colchicus</i>	2	2	2	4
Pied wagtail	<i>Motacilla alba</i>	0	8	8	8
Raven	<i>Corvus corax</i>	4	0	4	0
Reed bunting	<i>Emberiza schoeniclus</i>	0	0	0	0
Robin	<i>Erithacus rubecula</i>	12	6	5	6
Rook	<i>Corvus frugilegus</i>	200	250	200	0
Song thrush	<i>Turdus philomelos</i>	1	1	2	1
Starling	<i>Sturnus vulgaris</i>	150	150	2	0
Stonechat	<i>Saxicola rubicola</i>	2	2	0	7
Swallow	<i>Hirundo rustica</i>	30	80	100	100
Willow warbler	<i>Phylloscopus trochilus</i>	5	3	2	3
Woodpigeon	<i>Columba palumbus</i>	40	60	45	50
Wren	<i>Troglodytes troglodytes</i>	6	6	6	5

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Table 105. Transect survey results (non-breeding season 2022/23)

Species		Number of birds											
Common name	Scientific name	Jan A	Jan B	Jan C	Jan D	Feb A	Feb B	Feb C	Feb D	Mar A	Mar B	Mar C	Mar D
Blackbird	<i>Turdus merula</i>	5	7	7	7	11	9	12	8	10	4	0	6
Black-headed gull	<i>Chroicocephalus ridibundus</i>	15	0	0	0	0	0	0	0	0	0	0	0
Blue tit	<i>Cyanistes caeruleus</i>	1	1	2	4	3	3	2	0	1	2	0	2
Bullfinch	<i>Pyrrhula pyrrhula</i>	0	2	2	2	2	0	2	0	2	0	0	0
Buzzard	<i>Buteo buteo</i>	0	0	0	1	0	0	0	0	0	0	0	3
Chaffinch	<i>Fringilla coelebs</i>	2	6	4	10	2	0	0	0	6	2	0	8
Dunnock	<i>Prunella modularis</i>	0	0	3	4	2	1	2	1	5	3	0	2
Fieldfare	<i>Turdus pilaris</i>	20	40	32	30	38	0	0	0	1	38	0	12
Goldcrest	<i>Regulus regulus</i>	0	0	0	0	0	0	0	0	0	1	0	0
Golden plover	<i>Pluvialis apricaria</i>	0	0	0	0	0	0	0	0	12	0	0	0
Goldfinch	<i>Carduelis carduelis</i>	5	7	4	5	3	0	0	0	0	0	0	0
Great tit	<i>Parus major</i>	0	2	1	2	2	0	0	0	3	1	0	2
Greenfinch	<i>Chloris chloris</i>	0	0	0	0	0	0	0	0	3	0	0	0
Grey wagtail	<i>Motacilla cinerea</i>	0	0	0	0	0	0	0	1	0	0	0	0
Hooded crow	<i>Corvus cornix</i>	2	2	2	4	7	3	3	0	0	2	0	2
House sparrow	<i>Passer domesticus</i>	0	0	0	0	0	0	0	0	4	9	0	5
Jackdaw	<i>Coloeus monedula</i>	7	5	12	17	6	24	0	75	6	6	0	15
Kestrel	<i>Falco tinnunculus</i>	1	0	0	0	0	0	0	0	0	0	0	1
Lesser redpoll	<i>Acanthis cabaret</i>	0	0	0	0	0	0	0	0	0	2	0	0
Linnet	<i>Linaria cannabina</i>	0	0	2	5	0	0	0	0	0	0	0	0
Magpie	<i>Pica pica</i>	4	3	4	6	2	1	0	0	4	2	0	4

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Species		Number of birds											
Common name	Scientific name	Jan A	Jan B	Jan C	Jan D	Feb A	Feb B	Feb C	Feb D	Mar A	Mar B	Mar C	Mar D
Meadow pipit	<i>Anthus pratensis</i>	4	4	2	8	0	0	2	4	2	2	2	3
Mistle thrush	<i>Turdus viscivorus</i>	1	1	2	2	2	0	0	0	1	1	0	1
Pheasant	<i>Phasianus colchicus</i>	0	0	0	0	0	1	0	0	0	0	0	0
Pied wagtail	<i>Motacilla alba</i>	0	0	0	2	0	0	0	2	0	0	0	0
Raven	<i>Corvus corax</i>	0	0	0	0	0	2	0	0	0	2	0	0
Redwing	<i>Turdus iliacus</i>	15	35	27	35	107	4	125	0	5	29	0	14
Robin	<i>Erithacus rubecula</i>	4	5	5	7	19	6	5	6	4	5	0	5
Rook	<i>Corvus frugilegus</i>	27	12	26	38	0	25	4	60	29	12	0	29
Snipe	<i>Gallinago gallinago</i>	1	0	0	1	0	0	0	0	0	0	0	0
Song thrush	<i>Turdus philomelos</i>	2	2	2	3	0	2	3	1	2	1	0	2
Sparrowhawk	<i>Accipiter nisus</i>	0	0	0	0	0	0	0	0	0	0	1	0
Starling	<i>Sturnus vulgaris</i>	12	5	12	21	18	0	0	0	15	12	11	15
Stock dove	<i>Columba oenas</i>	0	0	0	0	0	0	0	0	2	0	0	0
Woodpigeon	<i>Columba palumbus</i>	52	7	21	9	48	7	4	0	8	10	8	5
Wren	<i>Troglodytes troglodytes</i>	4	5	3	5	6	4	3	4	8	6	0	5

Table 106. Transect survey results (breeding season 2023)

Species		Number of birds															
Common name	Scientific name	May A	May B	May C	May D	Jun A	Jun B	Jun C	Jun D	Aug A	Aug B	Aug C	Aug D	Sep A	Sep B	Sep C	Sep D
Blackbird	<i>Turdus merula</i>	6	3	2	5	0	0	6	6	10	8	10	14	8	4	8	9

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Species		Number of birds															
Common name	Scientific name	May A	May B	May C	May D	Jun A	Jun B	Jun C	Jun D	Aug A	Aug B	Aug C	Aug D	Sep A	Sep B	Sep C	Sep D
Blackcap	<i>Sylvia atricapilla</i>	3	2	0	0	4	1	2	1	0	0	0	0	0	0	0	0
Blue tit	<i>Cyanistes caeruleus</i>	2	0	0	0	6	5	2	0	2	2	2	2	2	4	2	2
Bullfinch	<i>Pyrrhula pyrrhula</i>	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0
Buzzard	<i>Buteo buteo</i>	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0
Chaffinch	<i>Fringilla coelebs</i>	5	4	0	3	6	5	8	5	6	2	2	8	6	8	7	9
Chiffchaff	<i>Phylloscopus collybita</i>	4	2	3	1	6	1	3	2	0	0	0	2	0	0	0	0
Coal tit	<i>Periparus ater</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
Cuckoo	<i>Cuculus canorus</i>	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Dunnock	<i>Prunella modularis</i>	0	0	0	0	0	0	1	2	1	1	1	2	2	2	3	2
Goldcrest	<i>Regulus regulus</i>	0	0	0	0	2	0	0	0	0	0	1	1	0	2	2	1
Goldfinch	<i>Carduelis carduelis</i>	0	0	0	0	21	0	6	0	40	8	4	7	40	4	2	16
Great tit	<i>Parus major</i>	0	0	0	0	0	1	0	0	2	2	2	4	2	2	4	2
Greenfinch	<i>Chloris chloris</i>	2	0	0	0	1	0	2	0	6	0	0	0	0	0	0	0
Hooded crow	<i>Corvus cornix</i>	12	0	6	2	0	1	1	7	4	2	4	6	6	4	4	6
House martin	<i>Delichon urbicum</i>	0	0	0	0	1	0	0	7	7	0	0	4	0	0	0	0
House sparrow	<i>Passer domesticus</i>	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	12
Jackdaw	<i>Coloeus monedula</i>	6	0	0	4	8	0	4	15	15	18	10	22	22	11	16	33
Kestrel	<i>Falco tinnunculus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Lesser black-backed gull	<i>Larus fuscus</i>	0	0	16	0	0	0	0	24	0	0	0	0	0	0	0	0

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Species		Number of birds															
Common name	Scientific name	May A	May B	May C	May D	Jun A	Jun B	Jun C	Jun D	Aug A	Aug B	Aug C	Aug D	Sep A	Sep B	Sep C	Sep D
Linnet	<i>Linaria cannabina</i>	0	0	0	0	1	0	11	0	4	0	0	0	0	0	0	0
Little egret	<i>Egretta garzetta</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Long-tailed tit	<i>Aegithalos caudatus</i>	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
Magpie	<i>Pica pica</i>	2	1	0	0	3	1	0	6	4	2	2	7	4	2	5	8
Meadow pipit	<i>Anthus pratensis</i>	2	0	0	0	0	0	0	0	8	4	6	6	10	4	6	10
Mistle thrush	<i>Turdus viscivorus</i>	0	0	2	0	1	0	0	0	0	2	0	0	0	0	0	2
Pheasant	<i>Phasianus colchicus</i>	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Pied wagtail	<i>Motacilla alba</i>	2	0	0	0	0	0	0	2	0	1	0	4	2	0	2	2
Raven	<i>Corvus corax</i>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Robin	<i>Erithacus rubecula</i>	5	2	2	3	0	2	2	2	6	4	8	9	10	6	8	8
Rook	<i>Corvus frugilegus</i>	38	7	20	7	11	0	8	31	22	8	12	14	19	12	22	34
Skylark	<i>Alauda arvensis</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Song thrush	<i>Turdus philomelos</i>	1	2	2	1	4	6	1	0	0	0	0	0	0	0	0	1
Sparrowhawk	<i>Accipiter nisus</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Starling	<i>Sturnus vulgaris</i>	26	6	0	20	36	1	1	9	0	18	0	26	14	8	16	32
Stonechat	<i>Saxicola rubicola</i>	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Swallow	<i>Hirundo rustica</i>	9	0	0	6	13	2	2	7	30	10	12	22	12	2	8	12
Whitethroat	<i>Sylvia communis</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Willow warbler	<i>Phylloscopus trochilus</i>	2	0	2	0	2	0	0	0	1	0	1	0	0	0	0	0

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Species		Number of birds															
Common name	Scientific name	May A	May B	May C	May D	Jun A	Jun B	Jun C	Jun D	Aug A	Aug B	Aug C	Aug D	Sep A	Sep B	Sep C	Sep D
Woodpigeon	<i>Columba palumbus</i>	6	0	0	0	24	1	13	2	12	12	0	8	13	3	11	12
Wren	<i>Troglodytes troglodytes</i>	4	2	2	2	12	6	8	4	6	4	8	6	4	3	5	4

Table 107 Transect survey results (non-breeding season 2023/24)

Species		Number of birds																			
Common name	Scientific name	Nov A	Nov B	Nov C	Nov D	Dec A	Dec B	Dec C	Dec D	Jan A	Jan B	Jan C	Jan D	Feb A	Feb B	Feb C	Feb D	Mar A	Mar B	Mar C	Mar D
Blackbird	<i>Turdus merula</i>	3	3	1	0	4	1	4	3	0	3	3	10	3	5	2	2	7	4	5	2
Blue Tit	<i>Cyanistes caeruleus</i>	3	1	1	1	0	0	4	4	1	0	1	1	0	0	2	3	2	0	1	2
Bullfinch	<i>Pyrrhula pyrrhula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Buzzard	<i>Buteo buteo</i>	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaffinch	<i>Fringilla coelebs</i>	0	0	0	11	3	4	5	6	3	0	6	21	1	3	0	5	7	4	5	4
Coal Tit	<i>Periparus ater</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	0
Dunnock	<i>Prunella modularis</i>	0	0	0	0	0	1	0	3	0	1	1	0	0	0	0	2	4	3	4	2
Fieldfare	<i>Turdus pilaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	15	3	0	0	21	12	0	0

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Species		Number of birds																			
Common name	Scientific name	Nov A	Nov B	Nov C	Nov D	Dec A	Dec B	Dec C	Dec D	Jan A	Jan B	Jan C	Jan D	Feb A	Feb B	Feb C	Feb D	Mar A	Mar B	Mar C	Mar D
Goldcrest	<i>Regulus regulus</i>	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2	3	0
Goldfinch	<i>Carduelis carduelis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	3
Great Tit	<i>Parus major</i>	0	0	0	0	0	0	2	0	0	0	1	0	3	1	0	0	0	2	2	1
Greenfinch	<i>Chloris chloris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0
Grey Wagtail	<i>Motacilla cinerea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Hooded Crow	<i>Corvus cornix</i>	0	1	1	2	0	3	6	3	4	1	3	0	0	0	1	6	8	3	6	4
House Sparrow	<i>Passer domesticus</i>	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Jackdaw	<i>Corvus monedula</i>	0	0	0	2	8	0	8	8	6	0	0	23	7	0	7	38	60	5	3	3
Kestrel	<i>Falco tinnunculus</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Lesser Black-backed Gull	<i>Larus fuscus</i>	0	0	4	16	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Little Egret	<i>Egretta garzetta</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Long-tailed Tit	<i>Aegithalos caudatus</i>	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Magpie	<i>Pica pica</i>	0	0	0	3	5	0	2	3	0	0	0	3	0	0	2	2	4	2	4	3
Meadow pipit	<i>Anthus pratensis</i>	0	0	0	1	0	0	0	10	0	0	0	10	0	0	0	2	3	4	2	2

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Species		Number of birds																			
Common name	Scientific name	Nov A	Nov B	Nov C	Nov D	Dec A	Dec B	Dec C	Dec D	Jan A	Jan B	Jan C	Jan D	Feb A	Feb B	Feb C	Feb D	Mar A	Mar B	Mar C	Mar D
Mistle Thrush	<i>Turdus viscivorus</i>	5	14	0	2	9	4	2	0	6	0	40	33	0	0	14	0	0	3	0	0
Pheasant	<i>Phasianus colchicus</i>	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Pied wagtail	<i>Motacilla alba</i>	3	0	0	3	1	0	0	1	0	1	0	0	1	2	0	3	2	2	1	0
Raven	<i>Corvus corax</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
Redwing	<i>Turdus iliacus</i>	0	0	0	0	9	11	0	3	0	0	3	0	0	0	0	0	16	48	25	0
Reed Bunting	<i>Emberiza schoeniclus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Robin	<i>Erithacus rubecula</i>	6	1	3	8	2	4	4	3	7	4	2	5	4	6	4	4	6	5	6	4
Rook	<i>Corvus frugilegus</i>	2	15	13	20	13	26	15	21	6	0	0	72	10	6	6	49	28	0	0	15
Short-eared Owl	<i>Asio flammeus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	2
Skylark	<i>Alauda arvensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Snipe	<i>Gallinago gallinago</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Song Thrush	<i>Turdus philomelos</i>	0	1	0	0	1	0	0	0	0	1	0	0	6	0	0	0	3	5	1	1
Starling (Common)	<i>Sturnus vulgaris</i>	0	25	0	24	23	0	0	38	0	0	60	165	30	20	0	22	0	3	1	12

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Species		Number of birds																			
Common name	Scientific name	Nov A	Nov B	Nov C	Nov D	Dec A	Dec B	Dec C	Dec D	Jan A	Jan B	Jan C	Jan D	Feb A	Feb B	Feb C	Feb D	Mar A	Mar B	Mar C	Mar D
Stonechat	<i>Saxicola rubicola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Woodpigeon	<i>Columba palumbus</i>	26	7	0	1	9	28	12	18	30	5	12	9	7	9	4	6	17	4	2	2
Wren	<i>Troglodytes troglodytes</i>	5	1	1	3	0	6	3	4	0	2	1	2	0	1	1	2	9	7	8	43

Table 108. Transect survey results (breeding season 2024)

Species		Number of birds																							
Common name	Scientific name	Apr A	Apr B	Apr C	Apr D	May A	May B	May C	May D	Jun A	Jun B	Jun C	Jun D	Jul A	Jul B	Jul C	Jul D	Aug A	Aug B	Aug C	Aug D	Sep A	Sep B	Sep C	Sep D
Blackbird	<i>Turdus merula</i>	10	5	5	6	1	5	6	6	3	4	4	3	2	2	7	1	6	3	2	5	4	0	5	5
Blackcap	<i>Sylvia atricapilla</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0
Blue Tit	<i>Cyanistes caeruleus</i>	1	0	3	0	2	1	3	1	2	2	4	2	0	0	3	0	3	0	2	4	2	3	8	0
Bullfinch	<i>Pyrrhula pyrrhula</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buzzard	<i>Buteo buteo</i>	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
Chaffinch	<i>Fringilla coelebs</i>	3	2	0	4	2	2	2	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	12
Chiffchaff	<i>Phylloscopus collybita</i>	4	1	3	1	0	1	0	0	1	0	1	0	0	2	1	2	0	0	0	0	1	0	0	0

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Species		Number of birds																							
Common name	Scientific name	Apr A	Apr B	Apr C	Apr D	May A	May B	May C	May D	Jun A	Jun B	Jun C	Jun D	Jul A	Jul B	Jul C	Jul D	Aug A	Aug B	Aug C	Aug D	Sep A	Sep B	Sep C	Sep D
Dunnock	<i>Prunella modularis</i>	0	1	2	1	1	1	4	2	1	3	2	1	0	0	1	1	0	1	0	1	0	0	0	
Fieldfare	<i>Turdus pilaris</i>	15	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Goldcrest	<i>Regulus regulus</i>	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	
Goldfinch	<i>Carduelis carduelis</i>	0	2	0	0	0	8	5	0	0	0	0	5	3	1	4	3	0	3	2	2	31	2	2	3
Great Tit	<i>Parus major</i>	4	4	1	0	0	3	2	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	2	
Greenfinch	<i>Chloris chloris</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hooded Crow	<i>Corvus cornix</i>	2	2	0	0	0	0	0	0	8	7	0	7	0	2	0	1	0	0	0	2	0	0	1	
House Martin	<i>Delichon urbicum</i>	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	4	0	0	5	0
House Sparrow	<i>Passer domesticus</i>	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jackdaw	<i>Corvus monedula</i>	4	2	0	16	6	4	1	1	6	3	13	13	4	0	0	25	0	0	2	6	0	2	18	6
Kestrel	<i>Falco tinnunculus</i>	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Lesser Black-backed Gull	<i>Larus fuscus</i>	0	0	0	0	0	0	0	0	21	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
Linnet	<i>Carduelis cannabina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	4	0	0	0	0
Long-tailed Tit	<i>Aegithalos caudatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	4	0	0	0	0	0

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Species		Number of birds																							
Common name	Scientific name	Apr A	Apr B	Apr C	Apr D	May A	May B	May C	May D	Jun A	Jun B	Jun C	Jun D	Jul A	Jul B	Jul C	Jul D	Aug A	Aug B	Aug C	Aug D	Sep A	Sep B	Sep C	Sep D
Magpie	<i>Pica pica</i>	1	0	2	1	0	0	1	1	2	2	1	1	0	1	3	1	4	0	1	2	2	2	0	1
Meadow pipit	<i>Anthus pratensis</i>	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mistle Thrush	<i>Turdus viscivorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Peregrine Falcon	<i>Falco peregrinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Pheasant	<i>Phasianus colchicus</i>	3	0	0	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pied wagtail	<i>Motacilla alba</i>	1	2	0	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4
Raven	<i>Corvus corax</i>	0	2	0	0	0	2	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0
Robin	<i>Erithacus rubecula</i>	7	6	3	2	1	7	9	5	4	4	2	5	0	1	1	0	2	1	1	2	0	3	6	3
Rook	<i>Corvus frugilegus</i>	7	0	1	26	5	3	2	2	14	0	6	3	6	7	5	48	0	1	4	2	3	3	3	26
Snipe	<i>Gallinago gallinago</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Song Thrush	<i>Turdus philomelos</i>	0	0	0	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Starling	<i>Sturnus vulgaris</i>	10	7	0	15	0	8	0	19	0	0	0	11	0	0	0	0	0	0	0	8	0	0	14	21
Stonechat	<i>Saxicola rubicola</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Swallow	<i>Hirundo rustica</i>	0	0	0	0	0	4	2	1	4	2	0	4	2	2	0	4	4	7	2	11	5	9	0	10

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Species		Number of birds																							
Common name	Scientific name	Apr A	Apr B	Apr C	Apr D	May A	May B	May C	May D	Jun A	Jun B	Jun C	Jun D	Jul A	Jul B	Jul C	Jul D	Aug A	Aug B	Aug C	Aug D	Sep A	Sep B	Sep C	Sep D
Whimbrel	<i>Numenius phaeopus</i>	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Woodpigeon	<i>Columba palumbus</i>	11	5	5	8	3	13	0	5	4	4	1	3	9	0	5	7	22	22	3	47	3	5	3	0
Wren	<i>Troglodytes troglodytes</i>	15	6	8	15	1	6	13	3	3	2	3	1	8	4	3	1	3	1	6	5	2	1	1	2

Table 109. Transect survey results (non-breeding season 2024/25)

Species		Number of birds																							
Common name	Scientific name	Oct A	Oct B	Oct C	Oct D	Nov A	Nov B	Nov C	Nov D	Dec A	Dec B	Dec C	Dec D	Jan A	Jan B	Jan C	Jan D	Feb A	Feb B	Feb C	Feb D	Mar A	Mar B	Mar C	Mar D
Blackbird	<i>Turdus merula</i>	0	1	2	1	5	5	8	7	0	3	3	5	4	5	6	0	4	3	5	4	3	4	2	3
Black-headed gull	<i>Choroicocephalus ridibundus</i>	0	0	0	0	0	0	0	9	0	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue Tit	<i>Cyanistes caeruleus</i>	7	2	3	0	1	0	0	3	0	0	1	0	0	0	1	0	7	2	4	0	2	2	5	3
Bullfinch	<i>Pyrrhula pyrrhula</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Buzzard	<i>Buteo buteo</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaffinch	<i>Fringilla coelebs</i>	0	3	0	0	0	0	2	2	0	0	0	1	0	2	0	8	2	0	0	9	3	4	5	5
Dunnock	<i>Prunella modularis</i>	2	1	1	3	0	0	0	0	0	2	2	2	1	0	0	1	0	0	0	2	1	0	0	3

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Species		Number of birds																							
Common name	Scientific name	Oct A	Oct B	Oct C	Oct D	Nov A	Nov B	Nov C	Nov D	Dec A	Dec B	Dec C	Dec D	Jan A	Jan B	Jan C	Jan D	Feb A	Feb B	Feb C	Feb D	Mar A	Mar B	Mar C	Mar D
Fieldfare	<i>Turdus pilaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	45	4	136	0	0	0	0
Golden plover	<i>Pluvialis apricaria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Goldfinch	<i>Carduelis carduelis</i>	2	3	0	7	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	3	2	1	0
Great Tit	<i>Parus major</i>	1	0	0	2	0	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Grey wagtail	<i>Motacilla cinerea</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hooded Crow	<i>Corvus cornix</i>	0	3	2	6	3	4	3	4	0	5	2	0	1	2	0	4	28	4	0	0	0	4	4	6
House Martin	<i>Delichon urbicum</i>	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jackdaw	<i>Corvus monedula</i>	6	0	8	45	9	5	7	43	4	17	0	15	6	0	0	8	24	0	1	11	8	0	6	16
Kestrel	<i>Falco tinnunculus</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
Lesser Black-backed Gull	<i>Larus fuscus</i>	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
Linnet	<i>Linaria cannabina</i>	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Long-tailed Tit	<i>Aegithalos caudatus</i>	0	0	0	0	0	6	7	0	0	0	0	0	0	0	0	0	0	2	7	0	0	0	2	0
Magpie	<i>Pica pica</i>	1	1	1	2	2	0	2	5	1	3	0	2	0	1	0	0	2	1	0	1	0	2	0	1
Mallard	<i>Anas platyrhynchos</i>	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	

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Species		Number of birds																							
Common name	Scientific name	Oct A	Oct B	Oct C	Oct D	Nov A	Nov B	Nov C	Nov D	Dec A	Dec B	Dec C	Dec D	Jan A	Jan B	Jan C	Jan D	Feb A	Feb B	Feb C	Feb D	Mar A	Mar B	Mar C	Mar D
Meadow pipit	<i>Anthus pratensis</i>	2	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0
Mistle Thrush	<i>Turdus viscivorus</i>	0	0	0	0	1	1	10	0	16	0	0	0	0	11	4	2	3	0	0	0	0	12	6	
Peregrine Falcon	<i>Falco peregrinus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Pheasant	<i>Phasianus colchicus</i>	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Pied wagtail	<i>Motacilla alba</i>	0	0	1	3	3	0	0	1	0	0	0	4	1	1	0	2	0	0	0	2	1	0	0	1
Raven	<i>Corvus corax</i>	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0
Redwing	<i>Turdus iliacus</i>	0	0	0	0	0	0	0	0	0	0	0	40	6	8	12	4	17	3	6	2	0	0	0	0
Robin	<i>Erithacus rubecula</i>	7	2	4	4	7	6	5	6	1	1	1	5	2	3	3	4	7	5	2	6	6	6	4	5
Rook	<i>Corvus frugilegus</i>	12	10	24	26	6	12	15	2	7	11	2	11	3	8	3	14	46	19	26	8	6	5	27	66
Snipe	<i>Gallinago gallinago</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	7	16	1	0	0	0	0	1	0	0	0
Song Thrush	<i>Turdus philomelos</i>	0	0	0	0	1	1	0	0	0	0	1	0	2	0	2	0	0	2	0	0	0	0	1	1
Sparrowhawk	<i>Accipiter nisus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Starling	<i>Sturnus vulgaris</i>	2	34	0	3	12	3	25	38	0	0	0	0	5	2	3	9	16	20	0	91	7	10	9	84
Stonechat	<i>Saxicola rubicola</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Species		Number of birds																							
Common name	Scientific name	Oct A	Oct B	Oct C	Oct D	Nov A	Nov B	Nov C	Nov D	Dec A	Dec B	Dec C	Dec D	Jan A	Jan B	Jan C	Jan D	Feb A	Feb B	Feb C	Feb D	Mar A	Mar B	Mar C	Mar D
Woodpigeon	<i>Columba palumbus</i>	0	2	8	0	21	4	3	3	16	6	5	2	7	9	4	1	9	3	3	1	11	2	1	0
Wren	<i>Troglodytes troglodytes</i>	2	2	5	5	4	2	1	3	2	1	1	2	0	0	0	1	3	1	1	1	3	3	1	2

Hinterland bird surveys

Table 110. Hinterland survey results during 2022/23 non-breeding season

Species	Date	No. of birds	Notes
Black-headed gull	01/12/2022	50	N of site, 4km
Black-headed gull	01/12/2022	3	NE of site, 4km
Black-headed gull	01/12/2022	120	E of site, edge of 5km survey radius
Black-headed gull	09/02/2023	32	Fields, 4.5km NW of site
Black-headed gull	09/02/2023	25	Pond, 4km E of site
Buzzard	01/12/2022	1	SE of site, 700m
Cormorant	09/02/2023	1	Pond 4km E of site
Coot	09/02/2023	2	Pond 4km E of site
Little egret	01/12/2022	9	N of site, 700m
Goshawk	01/12/2022	1	E of site at edge of 5km survey radius
Grey heron	01/12/2022	1	N of site 2km
Grey heron	01/12/2022	1	S of site 2km
Kestrel	01/12/2022	1	N of site, 2km
Kestrel	01/12/2022	1	E of site, 4km
Kestrel	01/12/2022	1	S of site, 1km
Lesser black-backed gull	01/12/2022	1	N of site, 4km
Lesser black-backed gull	01/12/2022	6	E of site, 5km
Little grebe	09/02/2023	1	Pond, 4km E of site
Mallard	01/12/2022	10	E of site, 4km
Mallard	09/02/2023	2	E of site over river, 3.5km
Mallard	09/02/2023	6	E of site, 5km
Moorhen	09/02/2023	2	Pond, 4km E of site
Mute swan	01/12/2022	2	E of site, 4km
Mute swan	09/02/2023	2	Pond, 4km E of site
Sparrowhawk	01/12/2022	1	NE of site, 2km
Sparrowhawk	01/12/2022	1	W of site, 4km
Sparrowhawk	09/02/2023	1	N of site, 4.5km
Shoveler	09/02/2023	2	Pond, 4km E of site
Teal	01/12/2022	10	E of site, 4km
Teal	09/02/2023	35	Pond, 4km E of site

Table 111. Hinterland survey results during 2023/24 non-breeding season

Species	Date	No. of birds	Notes
Lesser black-backed gull	15/01/24	2	Foraging in field while slurry being spread

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Species	Date	No. of birds	Notes
Grey heron	15/01/24	1	Perched in River Deel
Buzzard	15/01/24	1	Flying south
Black-headed gull	15/01/24	300	Foraging in field

Wading bird surveys

Table 112. Wading survey results during 2023 breeding season

Observation reference	Species	Date	No. of birds	Notes
No breeding waders observed during the surveys				

Wildfowl distribution surveys

Table 113. Summary of wildfowl distribution survey results at Lough Doohyle (6.4km east) during the 2022/23 non-breeding season

Species	Conservation status	02/12/2022	10/01/2023
Black-headed gull	BoCCI Amber listed / Wildlife Acts / SCI	3	-
Curlew	BoCCI Red listed / Wildlife Acts / SS	17	15
Little grebe	BoCCI Green listed / Wildlife Acts	2	2
Mallard	BoCCI Amber listed / Wildlife Acts	-	4
Moorhen	BoCCI Green listed / Wildlife Acts	-	2
Mute swan	BoCCI Amber listed / Wildlife Acts	2	2
Snipe	BoCCI Red listed / Wildlife Acts	-	5
Teal	BoCCI Amber listed / Wildlife Acts / SS	-	45
Wigeon	BoCCI Amber listed / Wildlife Acts / SS	-	5

Bird of prey surveys

Table 114. Summary of bird of prey survey results during the 2023 breeding season

Date	Time	No. of birds	Age	Sex	Flight path notes
15/05/23	Kestrel	1	Unknown	Unknown	Hunting
16/06/23	Buzzard	1	Unknown	Unknown	Flying

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Date	Time	No. of birds	Age	Sex	Flight path notes
17/07/23	Buzzard	1	Adult	Unknown	Perched
17/07/23	Buzzard	1	Unknown	Unknown	Flying
17/07/23	Buzzard	1	Adult	Unknown	Flying
17/07/23	Buzzard	1	Adult	Unknown	Soaring
17/07/23	Buzzard	1	Adult	Unknown	Hunting

Table 115. Summary of bird of prey survey results during the 2024 breeding season

Date	Species	No. of birds	Age	Sex	Flight path notes
03/05/24	Buzzard	1	Unknown	Unknown	Flying, mobbed by hooded crows
03/05/24	Kestrel	1	Unknown	Unknown	Hunting. Hovering for 5 seconds
03/05/24	Buzzard	1	Unknown	Unknown	Perched
05/06/24	Kestrel	1	Unknown	Unknown	Hunting,. South at 10:23. Flight time was 25 secs at 3.5 m high
05/06/24	Buzzard	1	Unknown	Unknown	Soaring south at 100m high

Barn owl surveys

Table 116. Summary of 2022-2023 barn owl survey results

Date	Observer	Start time	Finish time	Results
28/05/2022	MOC	20:00	23:40	Barn owl nest in chimney of outbuilding (Site 7). Female emerged at 10:17 flew to tree, then back to nest. Male arrived at 10:40 and 10:59 each time with prey which he delivered to the female in the chimney. Behaviour suggested female was on eggs or raising very young chicks.
23/06/2022	MOC	21:00	01:15	Three prey deliveries were observed as well as multiple 'fly-bys' of the general nest site by adults. 'Snoring' vocalisations heard from nest entrance but no chicks seen. During prey delivery several chicks were calling.
22/07/2022	MOC	15:30	18:35	Other than the known barn owl nest site in outbuildings beside Ballyegny House, there were no signs of the presence of barn owls at any other sites visited in the study area. None of these other sites were considered to be suitable as potential nest sites for barn owl, although several may be suitable as temporary roosts.
22/07/2022	MOC	20:30	23:15	Three fledglings confirmed, two of which were already flying and one expected to be flying imminently, all being fed frequently by the adults.
25/08/2022	MOC	20:30	21:50	With no ambient noise, there were no barn owl sightings or vocalisations recorded. It is reasonable to assume that all chicks have now fledged and dispersed away from the nest site area.
09/05/2023	MOC	14:00	19:35	Assessed all buildings within 1km of the proposed site. Eight sites were assessed. Of which, five were considered to be unsuitable (Buildings 3, 4a, 5, 6 and 8) and four were considered

				to be suitable (1, 2, and 7). Site 7, where a previous nest was confirmed, was unable to be accessed during the visit.
30/05/2023	MOC	21:10	23:10	Two nocturnal surveys at Sites 1, 2 and 7 were undertaken. Faint 'snoring sounds' were heard at Site 7 with an individual barn owl flying over the site and directly over the nest site emitting a single territorial call before continuing its flight and not returning. No activity was observed at Sites 1 and 2.
01/08/2023	MOC	11:30	13:30	An additional site was noted by other surveyors. A derelict cottage (Site 4b) was assessed during the day. The site was heavily overgrown and had been missed during the previous surveys. On arrival there were between 2-3 barn owls present with vocalisations indicative of birds present being juveniles. All dispersed upon arrival by the surveyors with occasional calls heard during the rest of the survey.
01/08/2023	MOC	23:50	02:30	After a visual inspection earlier in the day at Site 4b. further nocturnal surveys were undertaken at the remaining sites. Nocturnal surveys were carried out at Sites 1, 2 and 7. No observations of barn owl were recorded during the survey at these sites.
02/08/2023	MOC	11:30	13:00	A day time visit of Site 4b was undertaken for a detailed inspection of the suspected nest site. Although the derelict cottage was anticipated to be the potential nest site for the barn owls previously observed the chimney was too narrow and had cobwebs obscuring the entrance. Small amounts of whitewash on the gable end wall were observed but no pellets or downy feathers were found. No other suitable cavities were observed. Another tree nearby had whitewash but was unlikely to support barn owl while another nearby small cottage originally discredited was also inspected. The barn owl nest location was unable to be confirmed from either site but anticipated to be nearby to Site 4b. It was also possible the pair present previously at Site 7 had occupied this site due to the proximity within 1km of each other.
15/10/2023	MOC	18:30	21:30	A final visit to Site 4b was undertaken to determine if late nesting would occur. During the visit an observation of a male barn owl was recorded whereby it flew from the wall of the cottage at 19:45 before flying into a nearby tree and being observed for the next two hours.

Hen harrier surveys

Table 117. Summary of 2023 hen harrier survey results

Date	Time	No. of birds	Age	Sex	Flight path notes
13/02/2023	16:52	1	Adult	M	Travelling east to west for 2 minutes over spruce plantation at 40-60 m. Lost to view as it flew westwards.
13/02/2023	17:12	1	Adult	F	Flew in from the south-east. Flew over Carrigerry bog at 2-4 m, turning west over the bog. Lost to view as it flew westwards (due to sun glare); therefore not possible to confirm whether it continued westwards or landed in the bog (comprising suitable roosting habitat).
13/03/2023	18:03	1	Adult	M	Observed hunting over western side of bog at 1-4 m, then flew westwards over trees and out of sight, at a height of 20-25 m.

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Date	Time	No. of birds	Age	Sex	Flight path notes
05/05/2023	10:15	1	Adult	F	Circling and soaring going southwards over forestry at 100-200m. No territorial behaviour observed.
02/06/2023	09:17	1	Adult	M	Hunting and dropping down into vegetation between 09:17 and 09:26. Flew westwards.

Table 118. Summary of 2024 hen harrier survey results

Date	Time	No. of birds	Age	Sex	Flight path notes
02/01/2024	15:55	1	Adult	M	Flying low at 2 m to the west for approximately 1 minute. Then turning north at 15 m.
12/02/2024	16:45	1	Adult	M	Hunting at 4 m from east to north, then moving west
12/02/2024	17:45	1	Adult	M	Hunting at 30 m north then heading north-east.
06/11/2024	16:54	1	Ringtail	F/J	Flying at 5 m for 25 seconds into roost.

Peregrine surveys

Table 119. Summary or 2023 peregrine survey results

Observation reference	Date	Time	No. of birds	Age	Sex	Flight path notes
PE01	22/06/2023	11:15	1	Juvenile	Unknown	One juvenile peregrine observed eating prey on a ledge to the north-west side of Askeaton Castle wall. At 11:26 the bird flew off south-west.

Table 120. Summary or 2024 peregrine survey results

Observation reference	Date	Time	No. of birds	Age	Sex	Flight path notes
No observations recorded during surveys						



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ANNEX D – FIGURES

Figure 7.1 – Site location plan

Figure 7.2 – Relevant designated sites

Figure 7.3 – VP locations and viewsheds

Figure 7.4 – Transect routes

Figure 7.5 – Flight observations from VP surveys for target species during the breeding season

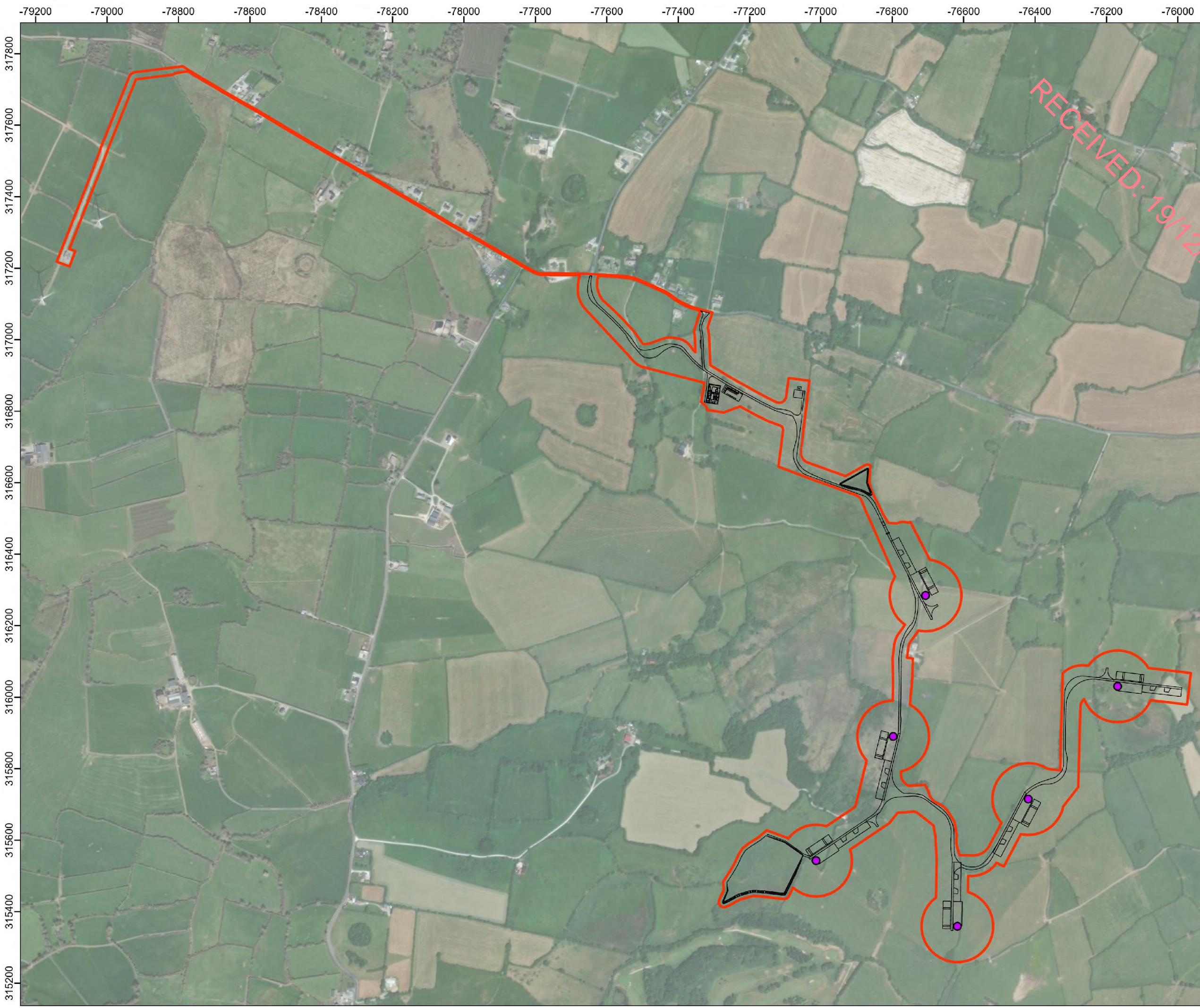
Figure 7.6 – Flight observations from VP surveys for target species during the non-breeding season

Figure 7.7 – Wading bird survey results

Figure 7.8 – Barn owl survey results

Figure 7.9 – Hen harrier survey results

Figure 7.10 – Peregrine survey results



- Legend:**
- Site Boundary
 - Wind Turbine Locations
 - Site Layout

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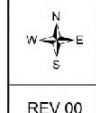
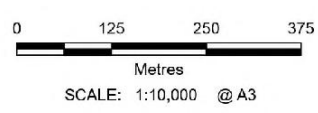


Rev	Date	Description	Drm	Chk	App
01	19/09/2025	2485475	TG	RPH	GW

Ballynisky Wind Farm

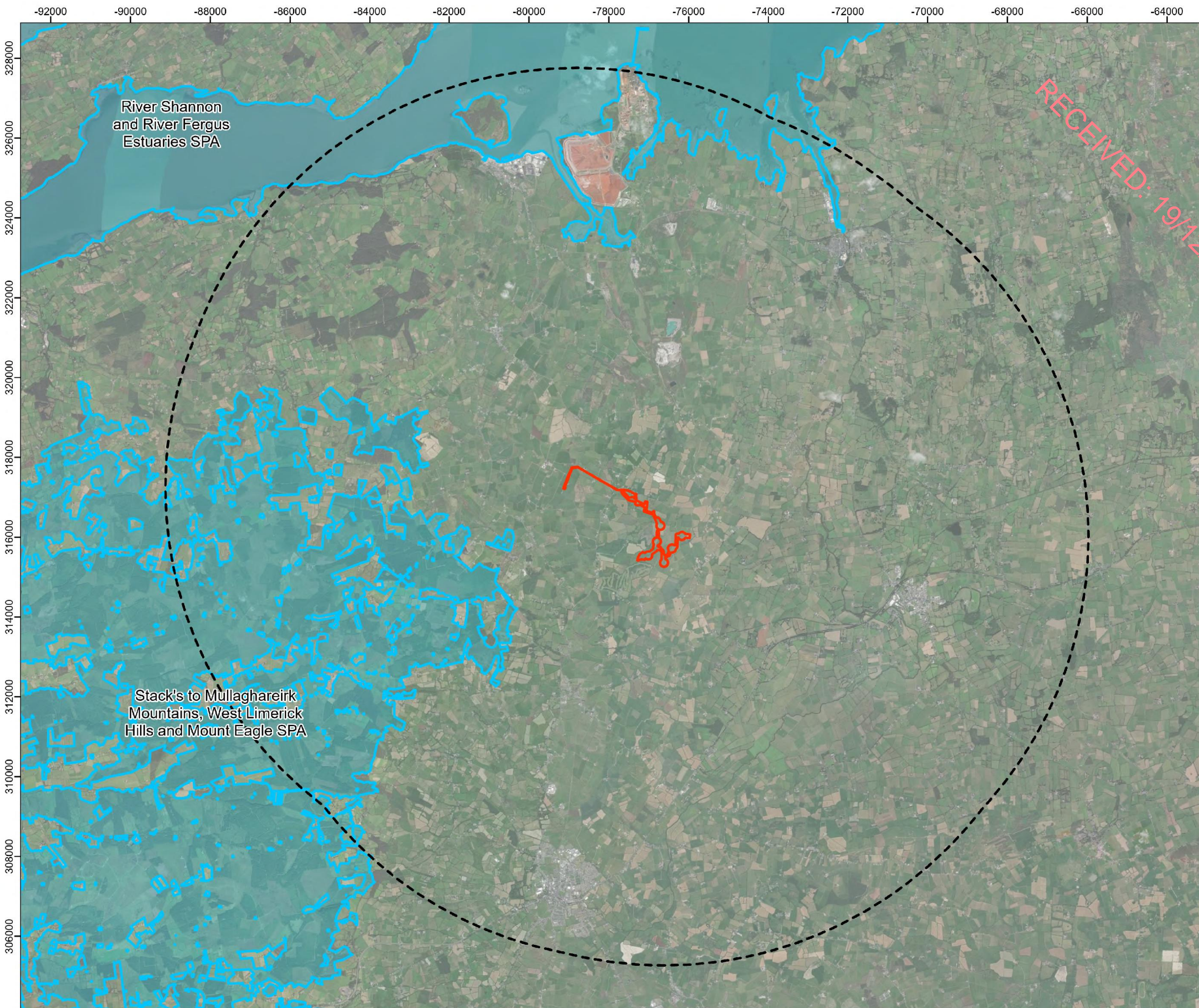


TITLE: Figure 7.1:
Site Location and Layout



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 World Imagery: Maxar, Microsoft
 Site Boundary:
 Wind turbine Locations:



- Legend:**
- Site Boundary
 - 10km Site Buffer
 - Special Protection Area

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Rev	Date	Description	Drm	Chk	App
01	19/09/2025	2485475	TG	RPH	GW

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TITLE: Figure 7.2:
Relevant Designated Sites

0 1,100 2,200 3,300

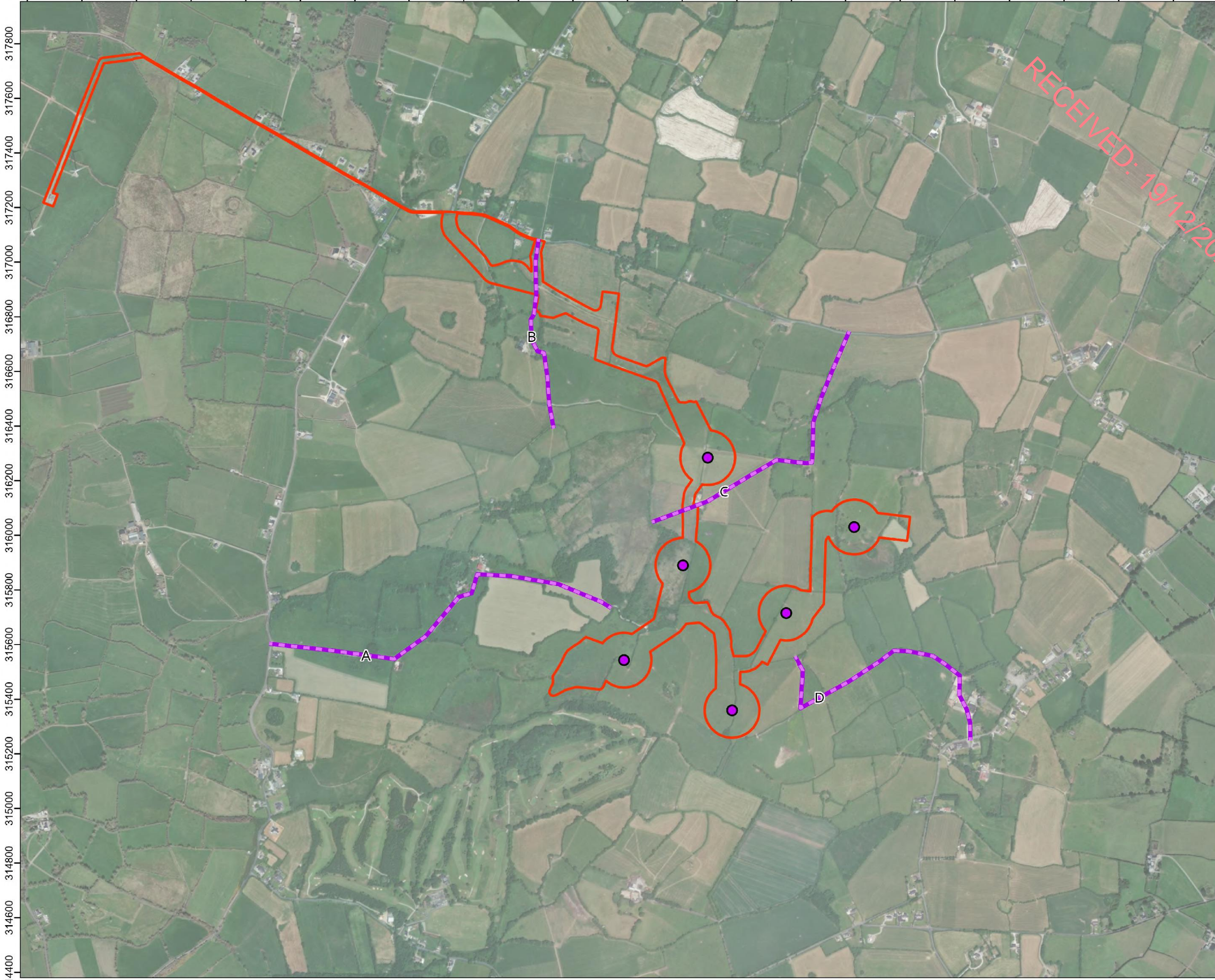
Metres

SCALE: 1:90,000 @ A3

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 World Imagery: Earthstar Geographics
 Site Boundary:

-79200 -79000 -78800 -78600 -78400 -78200 -78000 -77800 -77600 -77400 -77200 -77000 -76800 -76600 -76400 -76200 -76000 -75800 -75600 -75400 -75200 -75000



- Legend:**
- Site Boundary
 - Wind Turbine Locations
 - Transect Route

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01	19/09/2025	2485475	TG	RPH	GW

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TITLE: Figure 7.4:
Transect Routes

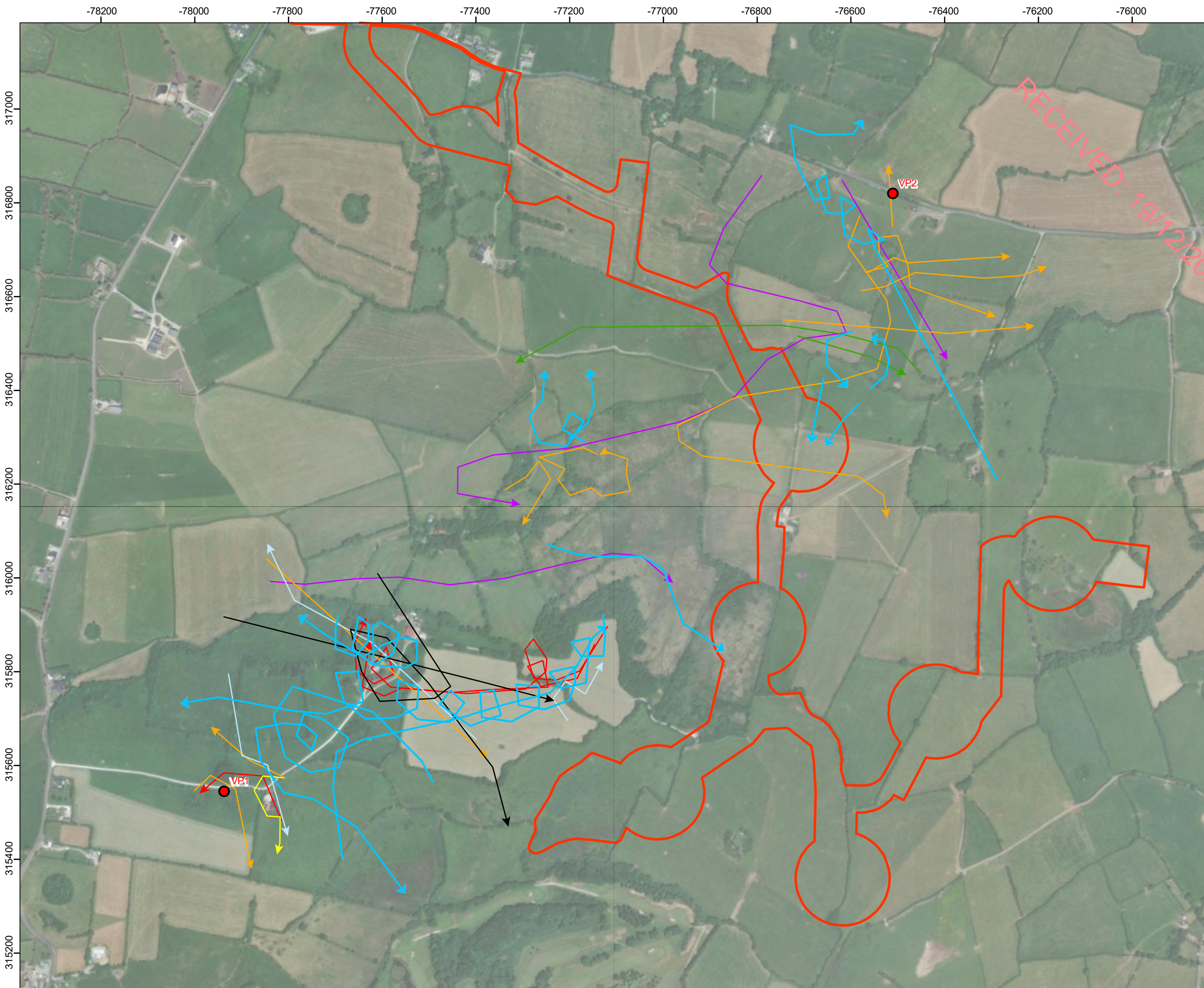
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Metres

SCALE: 1:13,000 @ A3

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 World Imagery: Maxar, Microsoft
 Site Boundary:
 Wind Turbine Locations:



- Legend:**
- Site Boundary
 - Vantage Points
- Target Species Flightpaths
- Buzzard
 - Greater Black-backed Gull
 - Grey Heron
 - Herring Gull
 - Kestrel
 - Lesser Black-backed Gull
 - Little Egret
 - Sparrowhawk

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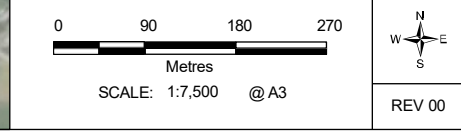


01	24/09/2025	2485475	TG	RPH	GW
Rev	Date	Description	Drn	Chk	App

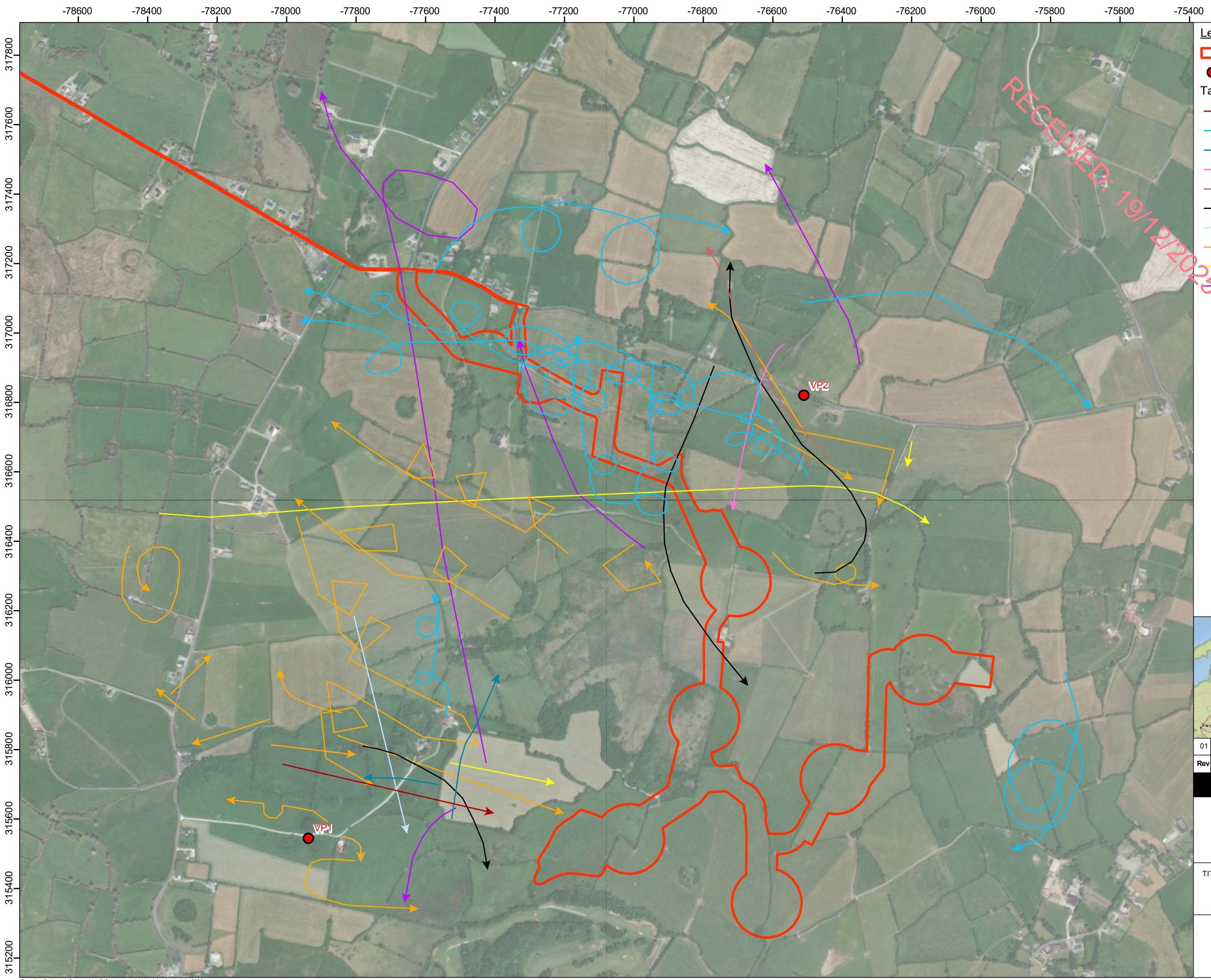
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TITLE: Figure 7.5a:
Flight Observations from VP Surveys
for Target Species during the
2020 Breeding Season



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Bird Flightlines:
NatGeo_World_Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.
World Imagery: Maxar, Microsoft
Site Boundary:
Vantage Points:



- Legend:**
- Site Boundary
 - Vantage Points
- Target Species Flightpaths**
- Black Headed Gull
 - Buzzard
 - Common Gull
 - Cormorant
 - Curlew
 - Greater Black-backed Gull
 - Herring Gull
 - Kestrel
 - Lesser Black-backed Gull
 - Little Egret

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01	24/09/2025	2485475	TG	RPH	GW
Rev	Date	Description	Drn	Chk	App

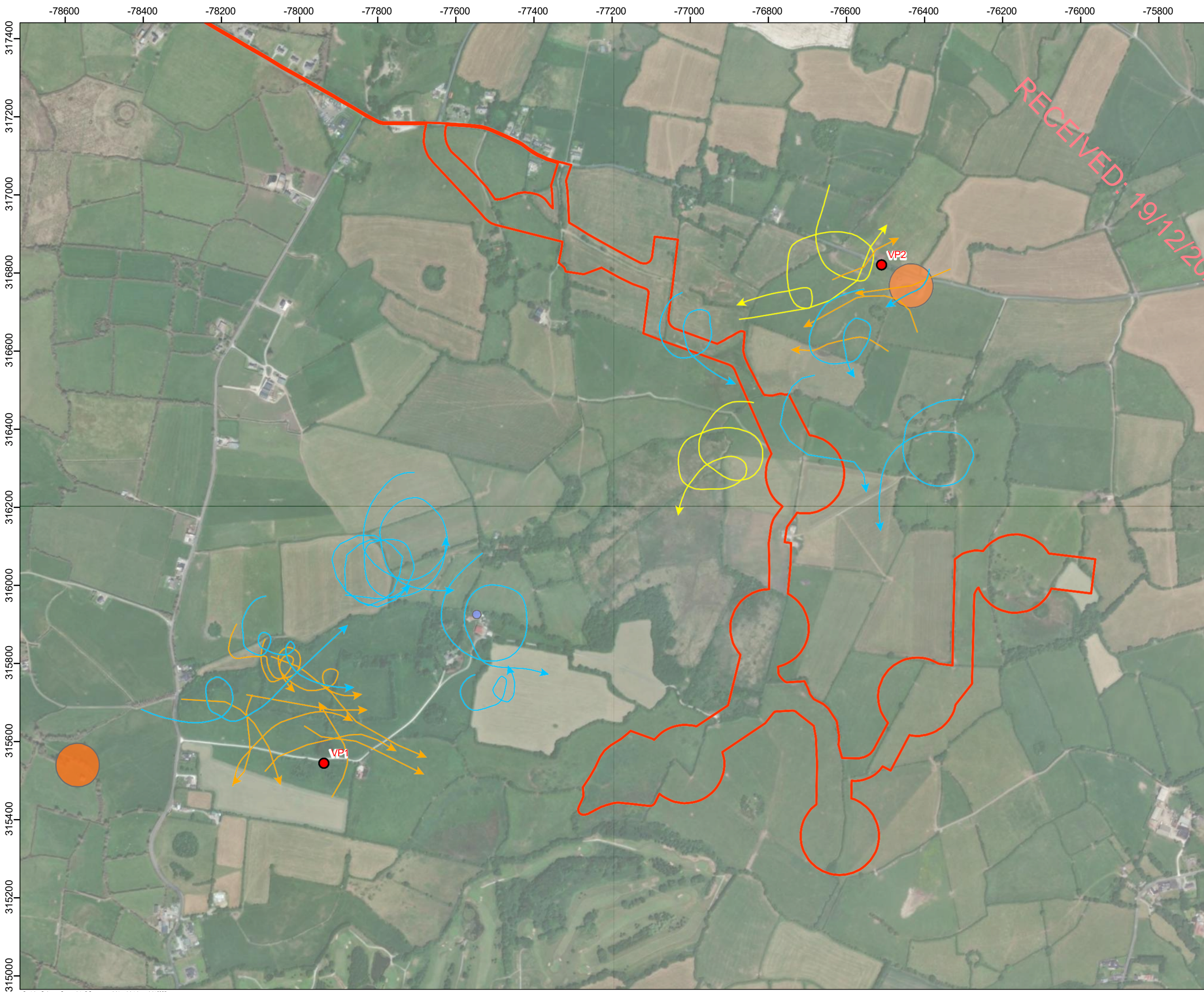
Ballynisky Wind Farm

TITLE: Figure 7.5b:
Flight Observations from VP Surveys
for Target Species during the
2021 Breeding Season

SCALE: 1:10,000 @ A3

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 Bird Flightlines:
 NatGeo_World_Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.
 World Imagery: Maxar, Microsoft
 Site Boundary:
 Vantage Points:



- Legend:**
- Site Boundary
 - Vantage Points
 - Target Species Flightpaths
 - Buzzard
 - Kestrel
 - Lesser Black-backed Gull
 - Target Species Activity Areas
 - Barn Owl
 - Kestrel

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Rev	Date	Description	Drn	Chk	App

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TITLE: Figure 7.5c:
Flight Observations from VP Surveys
for Target Species during the
2022 Breeding Season

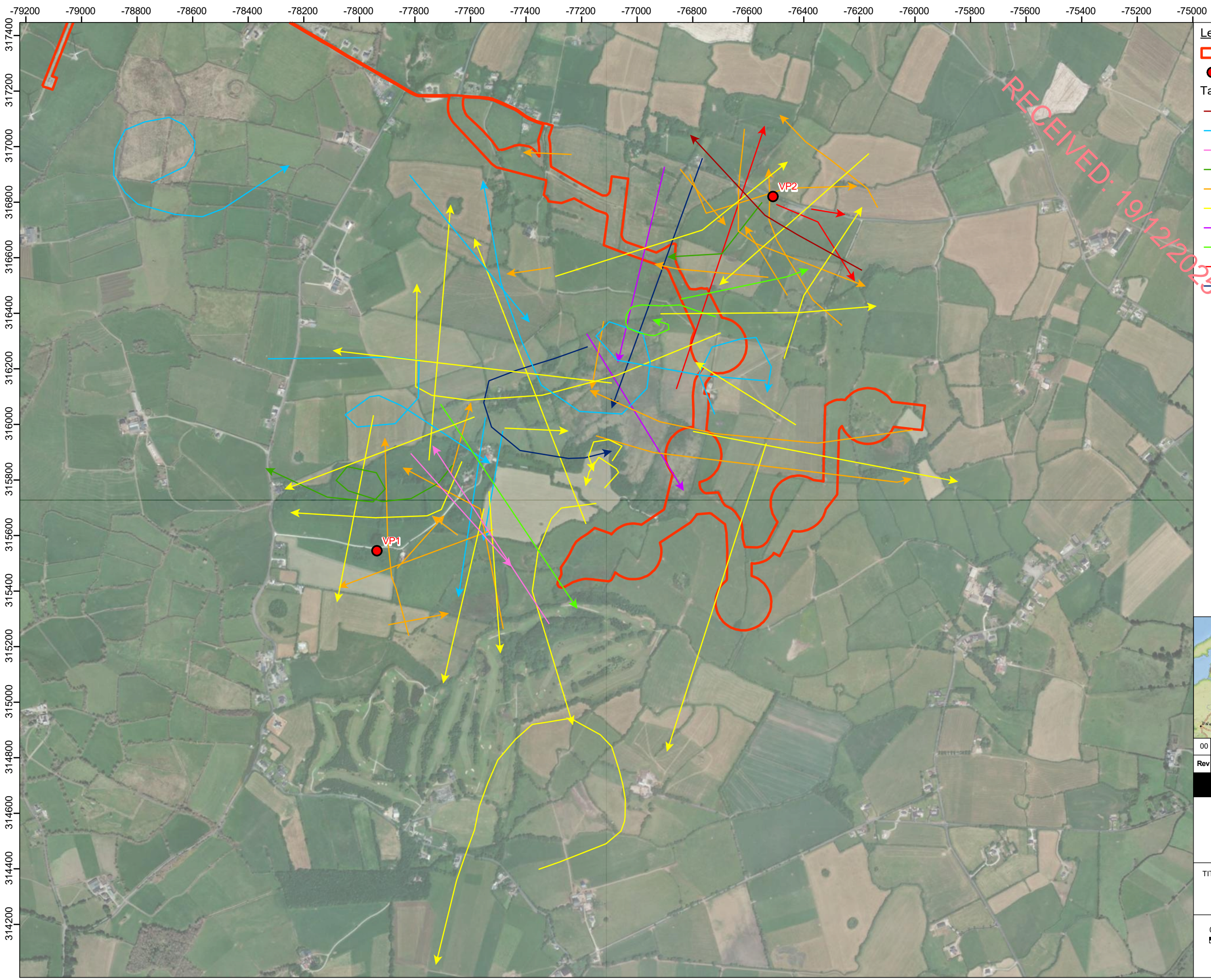


SCALE: 1:9,000 @ A3



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Bird Flightlines:
Bird Activity Polygon:
NatGeo_World_Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, Increment P Corp.
World Imagery: Maxar, Microsoft
Site Boundary:
Vantage Points:



- Legend:**
- Site Boundary
 - Vantage Points
- Target Species Flightpaths**
- ➔ Black Headed Gull
 - ➔ Buzzard
 - ➔ Cormorant
 - ➔ Grey Heron
 - ➔ Kestrel
 - ➔ Lesser Black-backed Gull
 - ➔ Little Egret
 - ➔ Snipe
 - ➔ Sparrowhawk
 - ➔ Whimbrel

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00	24/09/2025	2485475	RG	RPH	GW
Rev	Date	Description	Drn	Chk	App

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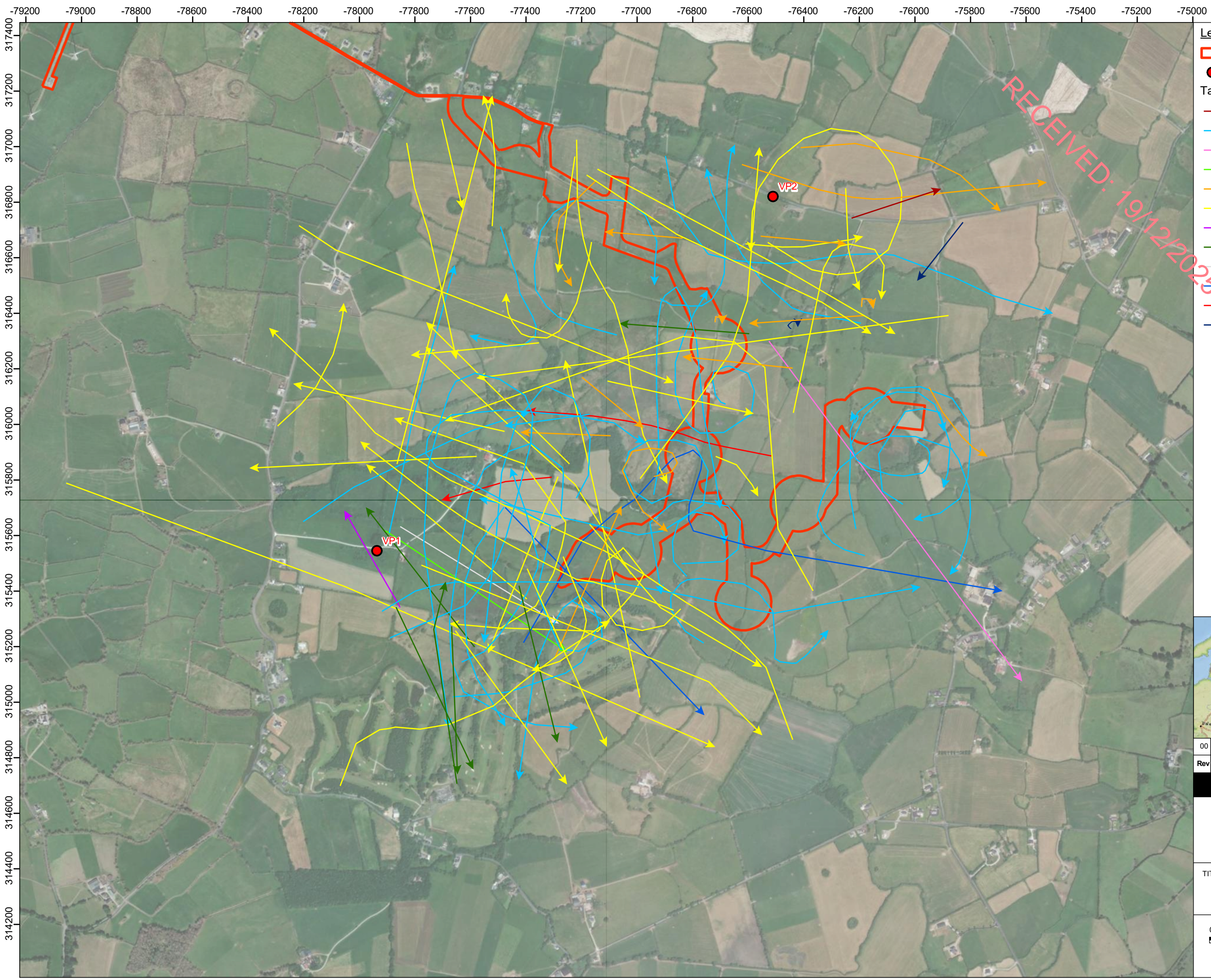


TITLE: Figure 7.5d:
Flight Observations from VP Surveys
for Target Species during the
2023 Breeding Season

SCALE: 1:12,500 @ A3

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Bird Flightlines
NatGeo, World Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, Increment P Corp.
World Imagery: Maxar, Microsoft
Site Boundary:
Vantage Points:



- Legend:**
- Site Boundary
 - Vantage Points
 - Target Species Flightpaths**
 - Black Headed Gull
 - Buzzard
 - Cormorant
 - Grey Heron
 - Kestrel
 - Lesser Black-backed Gull
 - Little Egret
 - Mallard
 - Mute Swan
 - Peregrine
 - Sparrowhawk
 - Whimbrel

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00	24/09/2025	2485475	TG	RPH	EP
Rev	Date	Description	Drn	Chk	App

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TITLE: Figure 7.5e:
Flight Observations from VP Surveys
for Target Species during the
2024 Breeding Season

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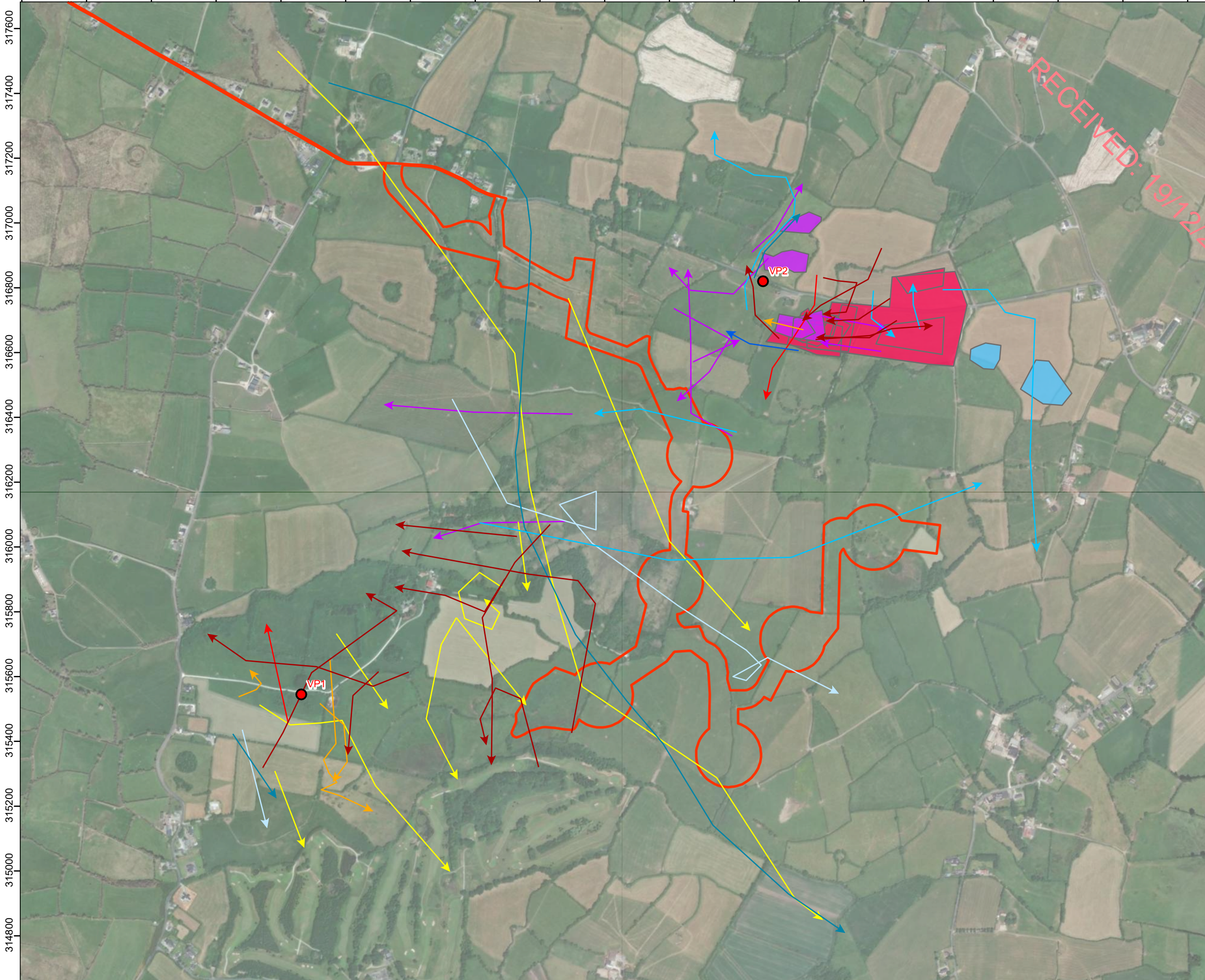
Metres

SCALE: 1:12,500 @ A3

REV 00

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Bird Flightlines:
NatGeo_World_Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.
World Imagery: Maxar, Microsoft
Site Boundary:
Vantage Points:

-78800 -78600 -78400 -78200 -78000 -77800 -77600 -77400 -77200 -77000 -76800 -76600 -76400 -76200 -76000 -75800 -75600 -75400 -75200



- Legend:**
- Site Boundary
 - Vantage Points
- Target Species Flightpaths**
- ➔ Black Headed Gull
 - ➔ Buzzard
 - ➔ Common Gull
 - ➔ Herring Gull
 - ➔ Kestrel
 - ➔ Lesser Black-backed Gull
 - ➔ Little Egret
 - ➔ Mallard
 - ➔ Sparrowhawk
- Target Species Activity Areas**
- Black Headed Gull
 - Buzzard
 - Little Egret

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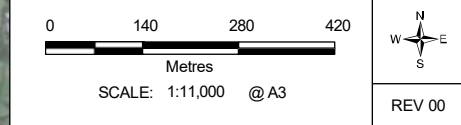


02	24/09/2025	2485475	TG	RPH	GW
Rev	Date	Description	Drn	Chk	App

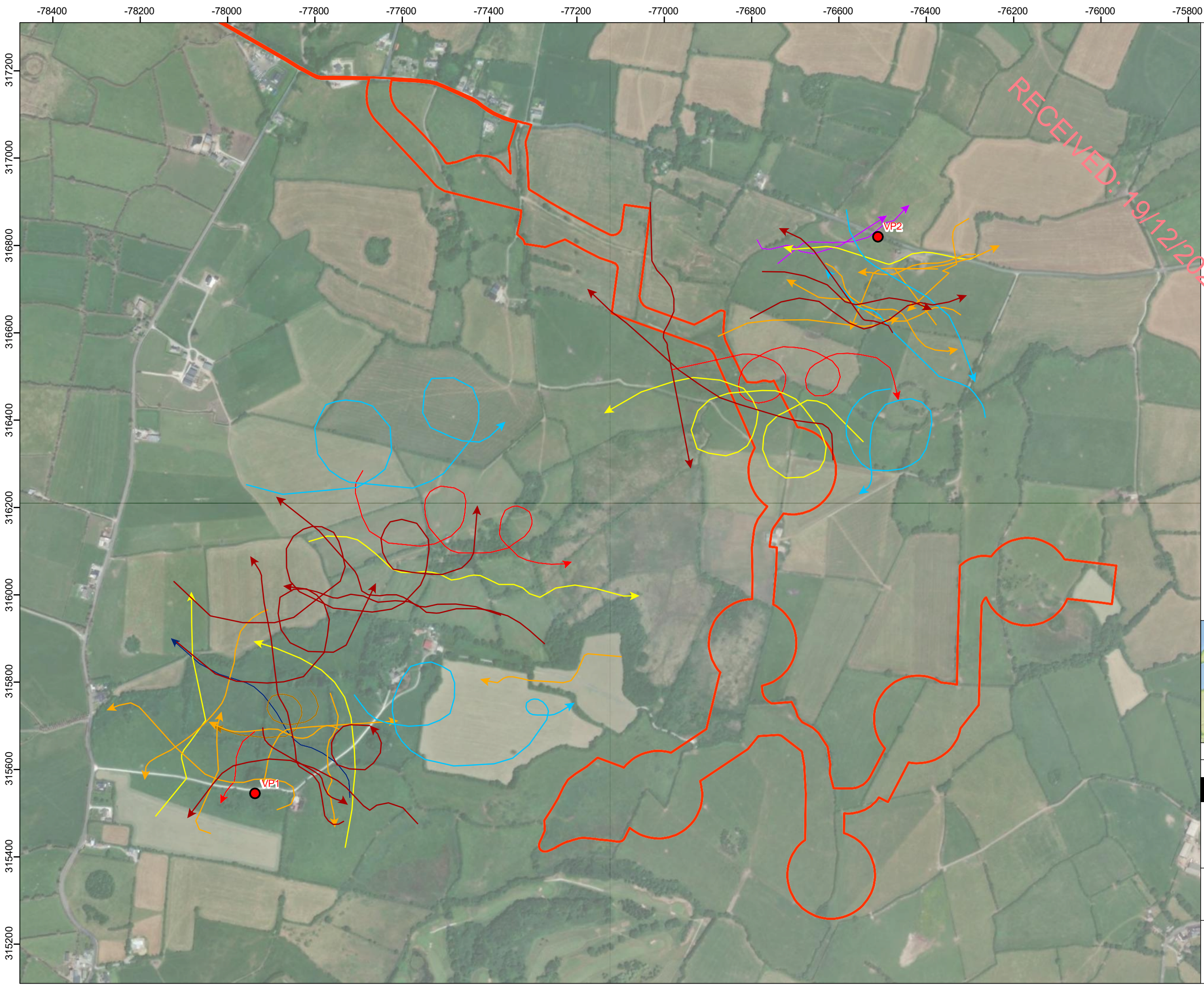
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TITLE: Figure 7.6a:
Flight Observations from VP Surveys
for Target Species during the
2020/21 Non-Breeding Season



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Bird Flightlines:
Bird Activity Polygon:
NatGeo_World_Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, Increment P Corp.
World Imagery: Maxar, Microsoft
Site Boundary:
Vantage Points:



- Legend:**
- Site Boundary
 - Vantage Points
- Target Species Flightpaths
- Black Headed Gull
 - Buzzard
 - Kestrel
 - Lesser Black-backed Gull
 - Little Egret
 - Snipe
 - Sparrowhawk
 - Whooper Swan

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Rev	Date	Description	Drn	Chk	App
02	24/09/2025	2485475	TG	RPH	GW

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TITLE: Figure 7.6b:
Flight Observations from VP Surveys
for Target Species during the
2021/22 Non-Breeding Season

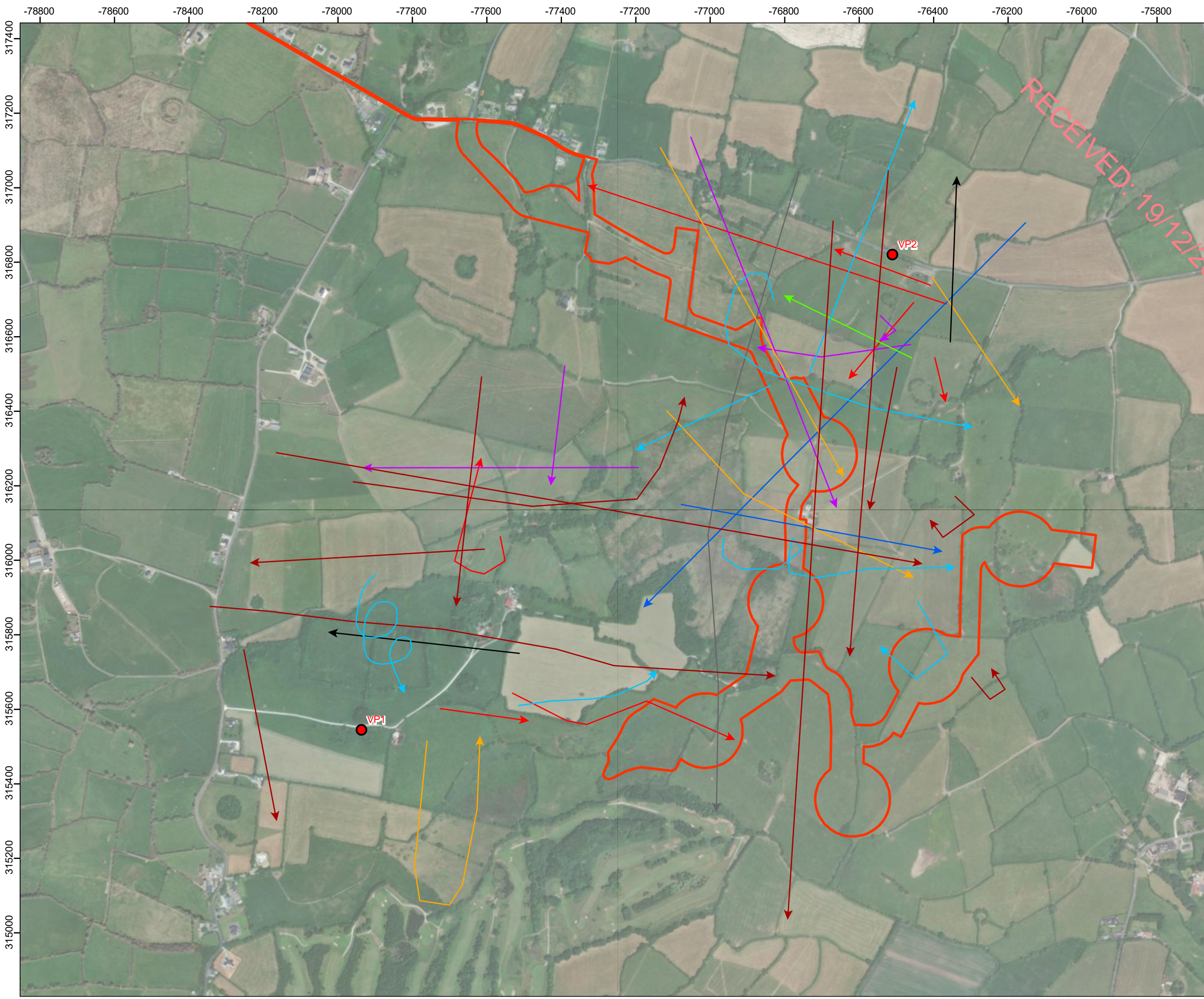


SCALE: 1:8,000 @ A3



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Bird Flightlines:
NatGeo_World_Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.
World Imagery: Maxar, Microsoft
Site Boundary:
Vantage Points:



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- Legend:**
- Site Boundary
 - Vantage Points
- Target Species Flightpaths**
- ➔ Black Headed Gull
 - ➔ Buzzard
 - ➔ Greater Black-backed Gull
 - ➔ Hen Harrier
 - ➔ Kestrel
 - ➔ Little Egret
 - ➔ Mallard
 - ➔ Peregrine
 - ➔ Sparrowhawk



02	24/09/2025	2485475	TG	RPH	GW
Rev	Date	Description	Drn	Chk	App

Ballynisky Wind Farm

TITLE: Figure 7.6c:
Flight Observations from VP Surveys
for Target Species during the
2022/23 Non-Breeding Season

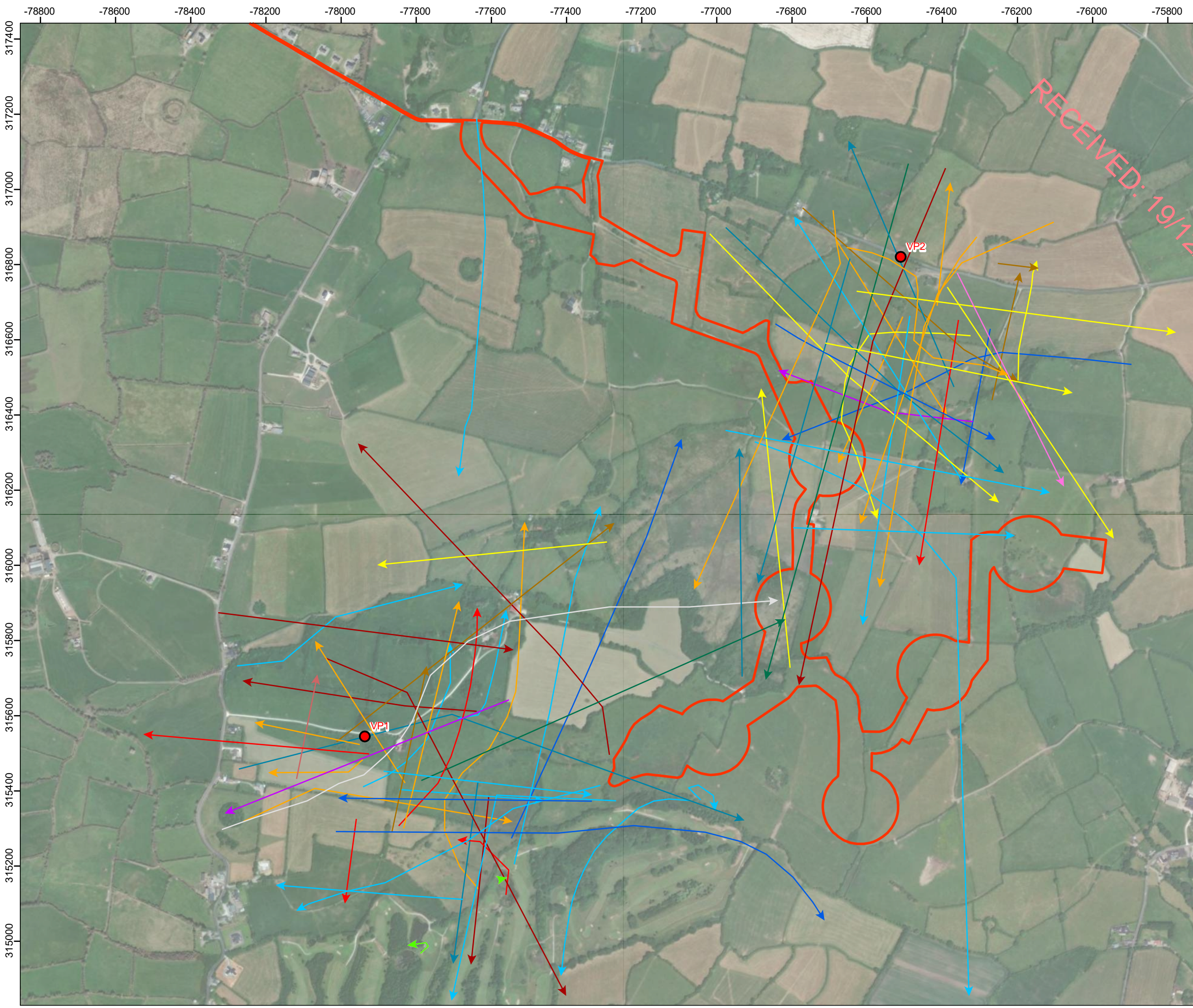
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Metres

SCALE: 1:9,500 @ A3

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 Bird Flightlines:
 NatGeo, World, Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.
 World Imagery: Maxar, Microsoft
 Site Boundary:
 Vantage Points:



- Legend:**
- Site Boundary
 - Vantage Points
- Target Species Flightpaths**
- Black Headed Gull
 - Buzzard
 - Common Gull
 - Cormorant
 - Curlew
 - Golden Plover
 - Great White Egret
 - Kestrel
 - Lesser Black-backed Gull
 - Little Egret
 - Mallard
 - Mute Swan
 - Snipe
 - Sparrowhawk

RECEIVED: 19/12/2025



02	24/09/2025	2485475	TG	RPH	GW
Rev	Date	Description	Drn	Chk	App

Ballynisky Wind Farm

**TITLE: Figure 7.6d:
Flight Observations from VP Surveys
for Target Species during the
2023/24 Non-Breeding Season**

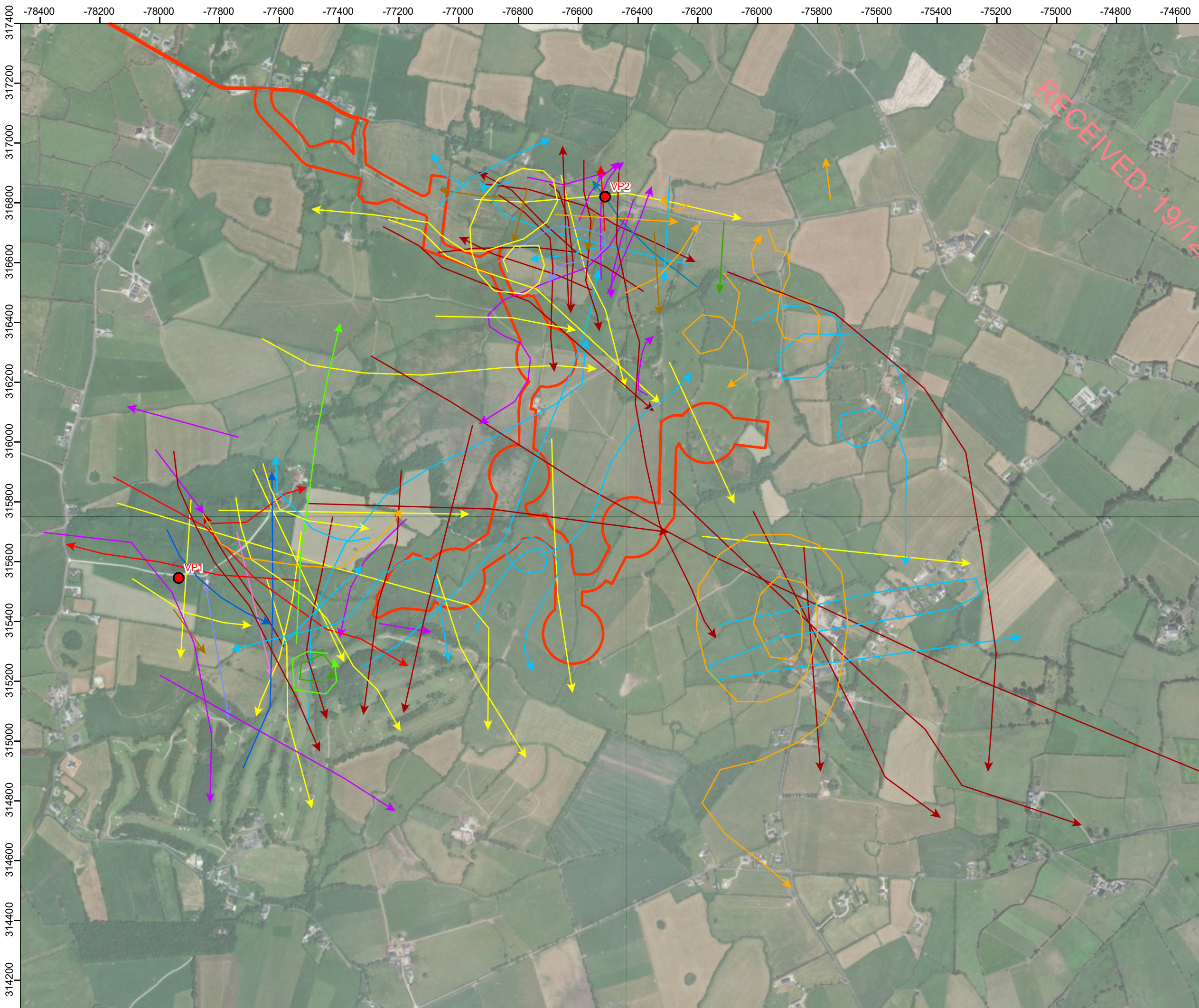
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Metres

SCALE: 1:9,500 @ A3

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 Bird Flightlines:
 NatGeo_World_Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.
 World Imagery: Maxar, Microsoft
 Site Boundary:
 Vantage Points:



RECEIVED: 19/12/2025

- Legend:**
- Site Boundary
 - Vantage Points
 - Target Species Flightpaths**
 - ➔ Black Headed Gull
 - ➔ Buzzard
 - ➔ Common Gull
 - ➔ Cormorant
 - ➔ Grey Heron
 - ➔ Kestrel
 - ➔ Lapwing
 - ➔ Lesser Black-backed Gull
 - ➔ Little Egret
 - ➔ Mallard
 - ➔ Mute Swan
 - ➔ Snipe
 - ➔ Sparrowhawk



02	24/09/2025	2485475	TG	RPH	GW
Rev	Date	Description	Drn	Chk	App

Ballynisky Wind Farm

TITLE: Figure 7.6e:
Flight Observations from VP Surveys
for Target Species during the
2024/25 Non-Breeding Season

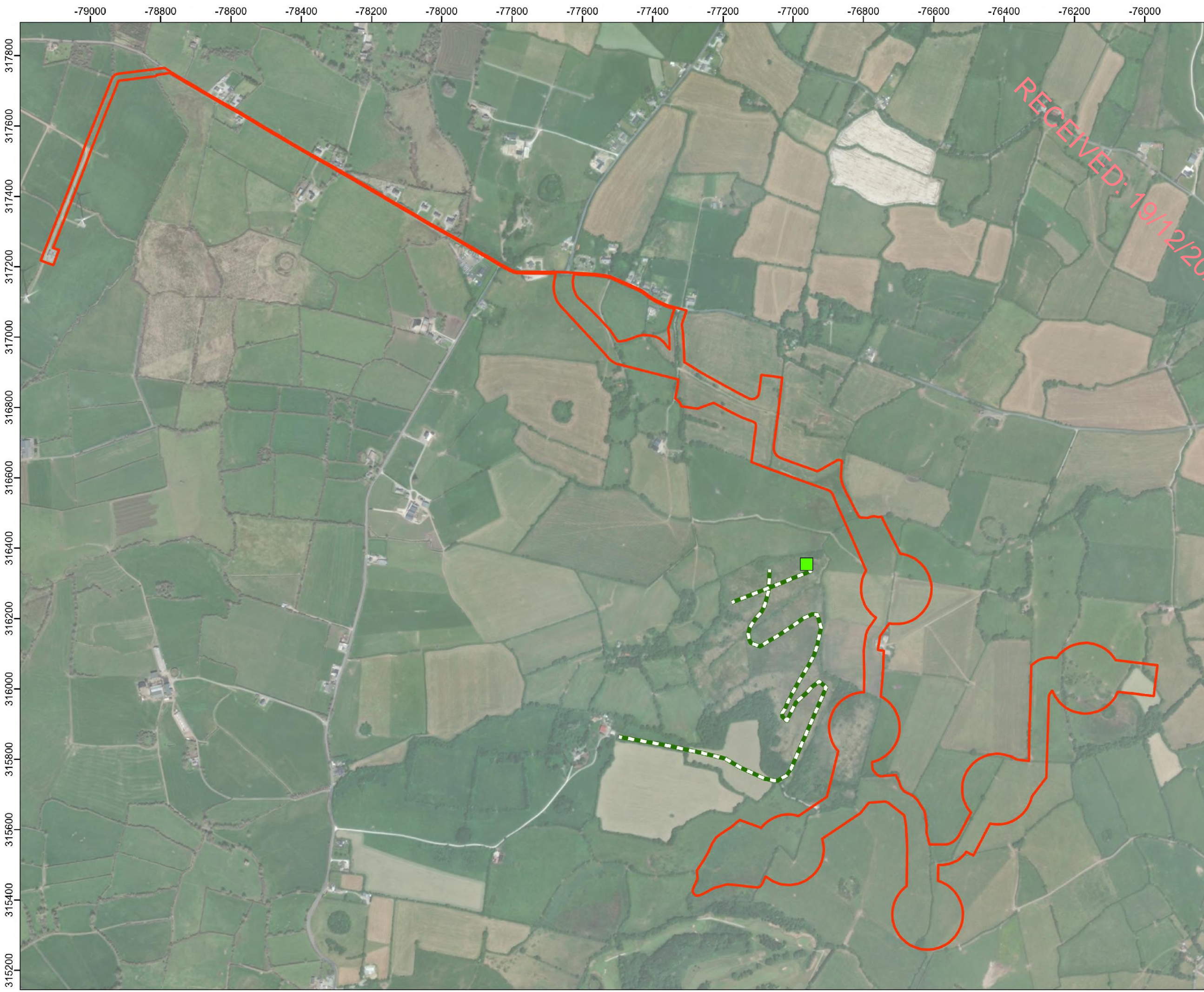
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Metres

SCALE: 1:12,000 @ A3

REV 00

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Bird Flightlines:
National World Map: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, Increment P Corp.
World Imagery: Maxar, Microsoft
Site Boundary:
Vantage Points:



RECEIVED: 19/12/2025

- Legend:**
- Site Boundary
 - Wading Bird Survey Transect
 - Incidental Observation of Displaying Snipe



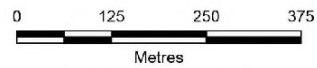
02	19/09/2025	2485475	TG	RPH	GW
Rev	Date	Description	Drm	Chk	App

Ballynisky Wind Farm




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TITLE: Figure 7.7:
Wading Bird Survey Results

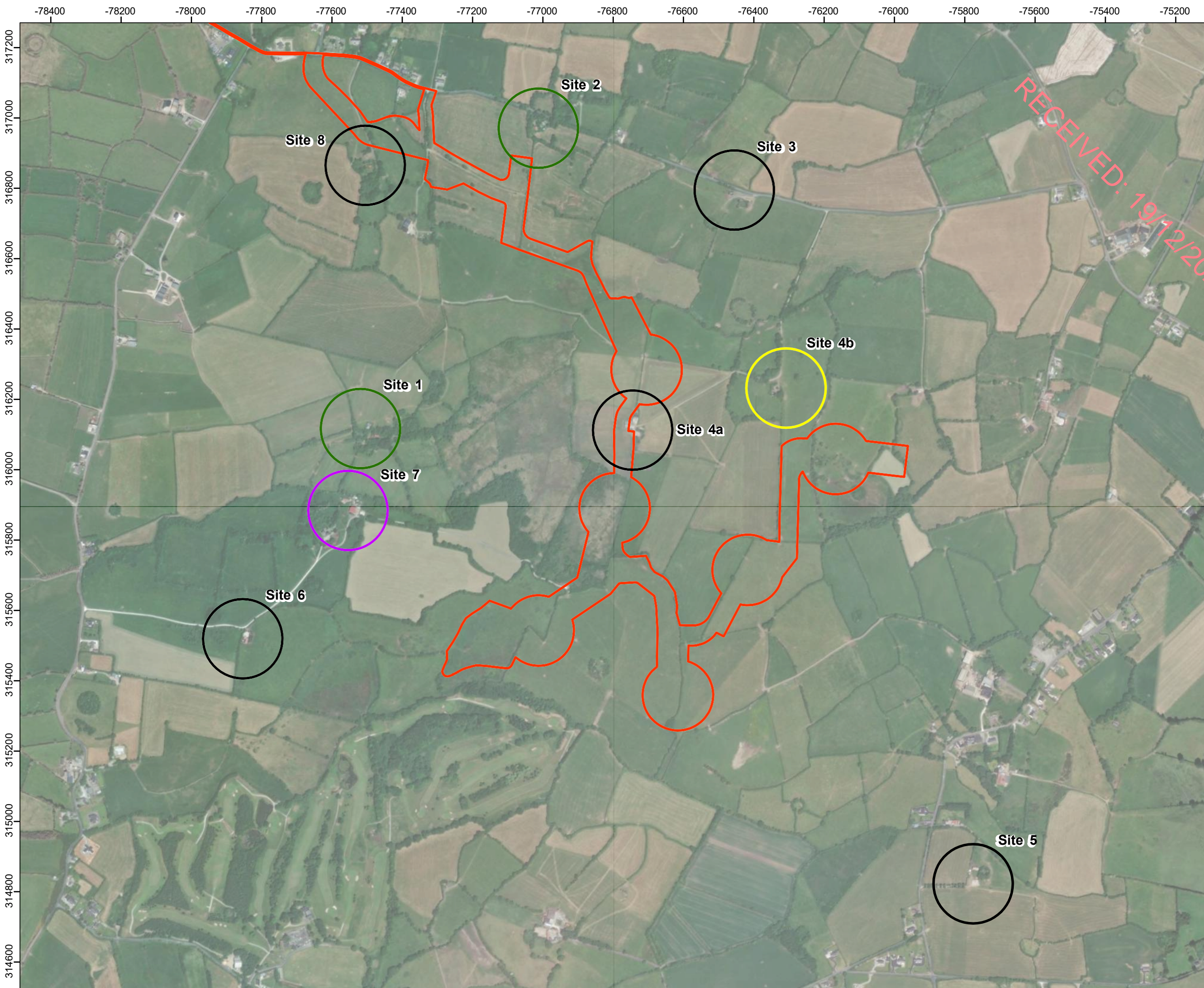


SCALE: 1:10,000 @ A3



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 World Imagery, Maxar, Microsoft
 Wading Bird Survey Transect
 Site Boundary
 Incidental Observation of Displaying Snipe



- Legend:**
- Site Boundary
 - Barn Owl Suitability**
 - Confirmed territory, active nest in 2022
 - Confirmed territory, fledged juveniles in 2023
 - Suitable nest site, no field signs
 - Not suitable

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01	24/09/2025	2485475	TG	RPH	GW
Rev	Date	Description	Drn	Chk	App

Ballynisky Wind Farm




RSK
biocensus
EXPERTS IN ECOLOGY

TITLE: Figure 7.8:
Barn Owl Survey Results
(CONFIDENTIAL)

0 125 250 375

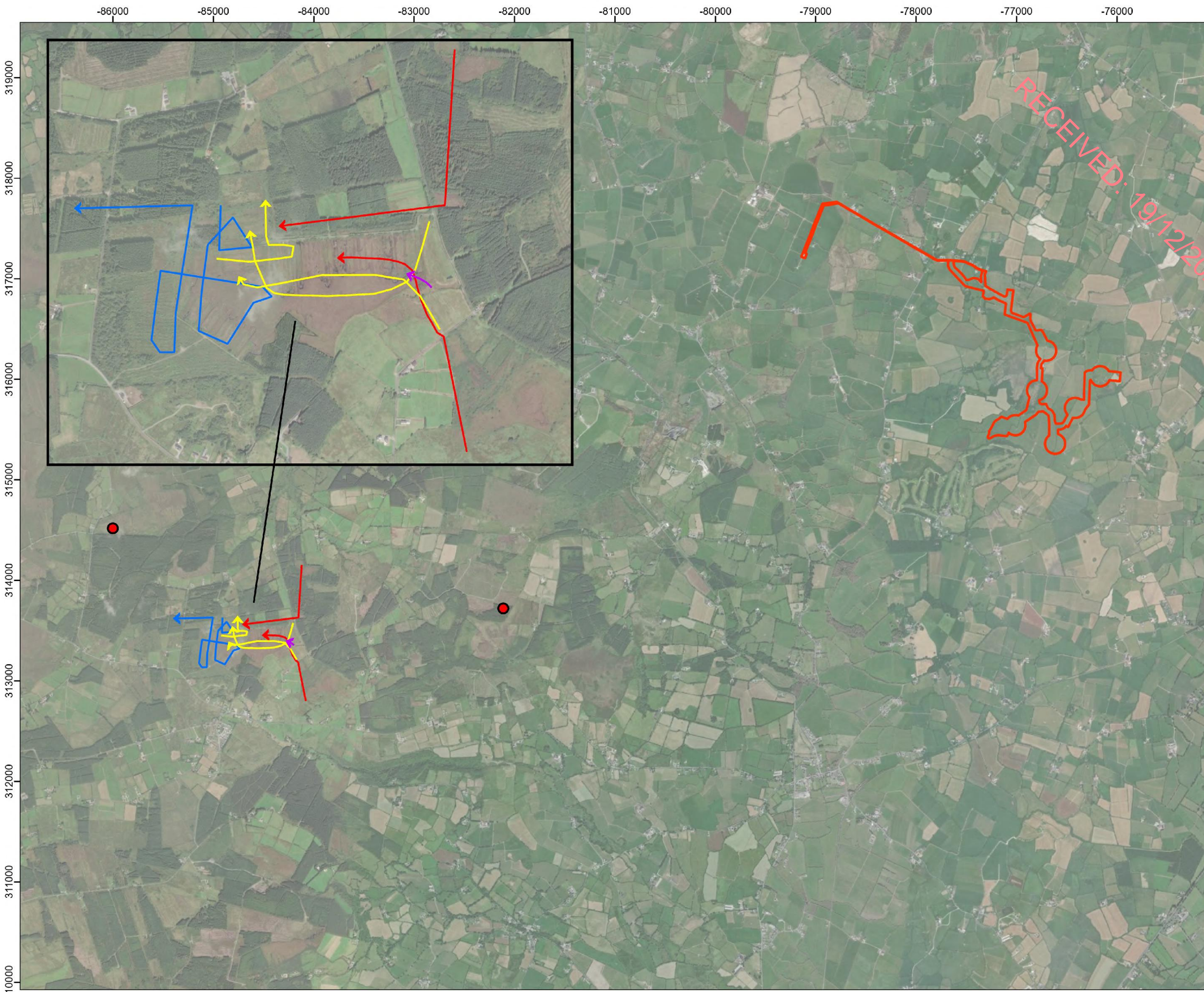
Metres

SCALE: 1:10,000 @ A3



REV 00

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 World Imagery: Maxar, Microsoft
 Site Boundary:



- Legend:**
- Site Boundary
 - Hen Harrier Observation**
 - 2022/23 Non-Breeding Season
 - 2023 Breeding Season
 - 2023/24 Non-Breeding Season
 - 2024/25 Non-Breeding Season
 - 2022/23 Non-Breeding Season

RECEIVED: 19/12/2025



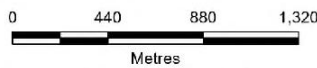
Rev	Date	Description	Drm	Chk	App
02	19/09/2025	2485475	TG	RPH	CW

Ballynisky Wind Farm




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TITLE: Figure 7.9:
Hen Harrier Survey Results (CONFIDENTIAL)



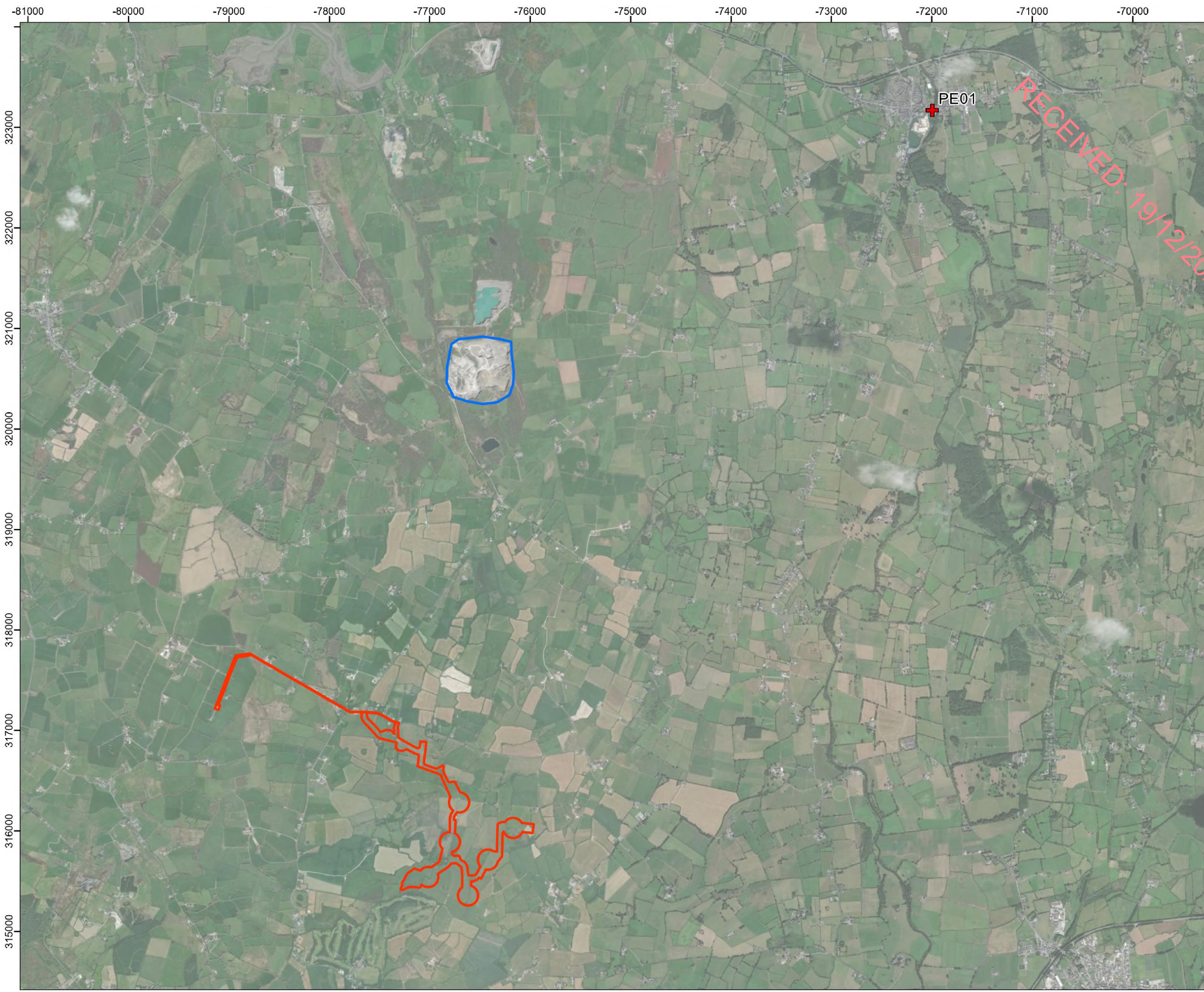
Metres
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 World Imagery: Maxar, Microsoft
 Site Boundary:
 2022/23 Non-Breeding Season:



- Legend:**
- Site Boundary
 - Survey area
 - + Juvenile bird observation

RECEIVED: 19/12/2025

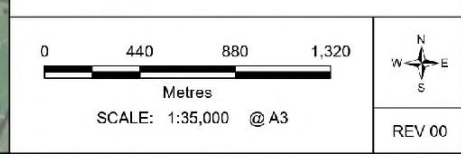


Rev	Date	Description	Drm	Chk	App
01	19/09/2025	2485475	TG	RPH	GW

Ballynisky Wind Farm



TITLE: Figure 7.10:
Peregrine Survey Results



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 World Imagery: Maxar, Microsoft
 Site Boundary: