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Technical Appendix 10-3

Scout Moor II Wind Farm

2024 Year 3 Ornithology Report

Cubico UK Development (Wind 1) Ltd

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Executive Summary

This report presents updated findings from ornithological survey work undertaken at Scout Moor to inform an understanding of the ornithological conservation interest of the site, and potential constraints to the siting of a wind farm. The proposed wind farm is located approximately 0.65km North-West of Rochdale, Greater Manchester.

The report presents the results of the final season of ornithological surveys at the Site, comprising vantage point (VP) surveys at one 1 VP location (VP6), April – August 2024 and also breeding bird and raptor walkover surveys of additional areas.

During the third breeding season vantage point surveys, 2 primary target species were recorded, Merlin *Falco columbarius*, Curlew *Numenius Arquata*. There were also seven secondary target species.

As 2 VPs were started later following alterations and extension to the Northern boundary in early 2023, a summary of VP survey data for the full period (April 2022-August 2024) has also been presented in this report to aid interpretation,

Breeding bird and Raptor Survey areas in the 2024 breeding season were focussed on providing information on extensions to the North and North-East of the Site and a potential access corridor offsite to the South-West. As buffer areas in previous years covered a majority of the extension areas for the main Site, some comparison can be drawn with those results, however this is limited and the results from the 2024 season are intended primarily to capture any additional notable activity through more detailed survey of these areas and land adjacent to the new boundary.

Breeding bird and raptor walkover surveys undertaken in spring and summer of 2024 (April - July) identified the presence of 61 avian species. A total of 13 BoCC red list, 7 Amber BoCC list and one schedule 1 species forming the likely breeding assemblage onsite; 10 of these species were confirmed breeding onsite including Starling *Sturnus vulgaris*, Linnet *Linaria cannabina* and Skylark *Alauda arvensis*, a species which features in the Lancashire Biodiversity action Plan.

1. Introduction

1.1 Terms of Reference

Atmos Consulting Ltd. were commissioned by Cubico UK Developments Limited to commence ornithological surveys in April 2022 to inform a planning application for a potential wind energy development on Scout Moor (hereafter referred to as the "Site").

This interim report presents the results of the third year of breeding bird and raptor surveys, (April 2024 to July 2024), as well as the VP data covering the second breeding season (April 2024- August 2024). A full summary is also given presenting a collation of 18 months of VP data for VPs 1-4, 10 months for VP5 (discontinued) and 12 months for VP 5b and 17 months for VP6, which were introduced in February 2023 to accommodate alterations and extension to the Northern boundary.

1.2 Site Description

The proposed wind farm pertains to approximately 970ha of upland habitat located approximately 0.65km North-West of Rochdale, Greater Manchester, extending across both sides of the county line between Lancashire and Greater Manchester. The Site has an approximate central national grid reference of SD 85795 18585.

The Site is an upland habitat, predominately open moorland with fields to the South of the Site that are often in agricultural use. An existing operational wind farm lies adjacent West of the Site with some present in the North-West extent of the Site itself. The environment surrounding the Site is mostly urban, with Rochdale to the South of the Site and further housing developments being undertaken to the East of the Site.

1.3 Objectives

The objective of the survey work was to collect information on the usage of the Site by bird species and identify the potential ecological constraints that could arise in relation to the proposed installation of wind turbines.

The specific objectives of this Year 2 Bird Report are:

- Document species present on Site during the breeding season;
- Compare results to the previous breeding season; and
- Present a summary of all VP data to date.

2. Ornithological Legislation & Conservation Status

Legislation, non-statutory conservation designations, and NatureScot (NS), formerly Scottish Natural Heritage (SNH) guidance pertaining to the ornithological interests discussed within this report are presented below.

2.1 Legislation

Wildlife and Countryside Act 1981 (as amended) & Conservation (Natural Habitats & C.) Regulation 2017 (as amended)

The Wildlife and Countryside Act 1981 (as amended) (WCA) is the principal mechanism for the legislative protection of wildlife in Great Britain. All wild birds and their active nests, eggs and young are protected from damage, destruction or capture under the WCA. Bird species listed on Schedule 1 gain additional protection particularly around their nests, with disturbance listed as an offence, with special penalties for breaches of the law related to those Schedule 1 species. The WCA also provides the mechanism by which the Conservation of Wild Birds (Directive 2009/147/EC, the 'Birds Directive') is transposed into UK law, allowing for the designation of Special Protection Areas (SPAs). Because the Birds Directive has been transposed into law, its provisions still have effect despite the withdrawal of the UK from the EU.

The Birds Directive lays out special measures to conserve wild birds, their eggs, nests and habitats, and applies special protection to those species as listed under Annex 1 of the Directive. This is to apply special protection, in particular, to those species which are migratory and are considered to be of a shared heritage and conservation responsibility across all European Union member states.

The Conservation of Habitats and Species Regulations (2017) (as amended), or 'Habitat Regulations', are the method by which the relevant European Directives are translated into law. Specifically, the Habitat Regulations transpose the Convention on the Conservation of European Wildlife and Natural Habitats (the 'Bern Convention') and Natural Habitats and Wild Fauna and Flora (92/43/EEC, the 'Habitats Directive') into an English and Welsh context.

2.2 Conservation Plans

Biodiversity Action Plans

The UK Biodiversity Action Plan (UK BAP) was the UK's response to the commitments of the Rio Convention on Biological Diversity. The plan outlines action for 59 UK species of birds of conservation importance/concern; 53 of which are priority species in England (2007).

Birds of Conservation Concern (BoCC)

The leading government (Joint Nature Conservation Committee (JNCC)) and non-government conservation organisations in the UK jointly reviewed the population status of the 247 bird species that are regularly found within the United Kingdom using data from national monitoring schemes. This was most recently reviewed in 2021 (Stanbury *et al.*, 2021)¹ and was an update to the earlier 2009 BoCC report.

On the basis of seven quantitative criteria, each species has been placed on one of three lists, these being:

¹ Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., and Win I. 2021. The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. *British Birds* 114: 723-747.

- Red - red list species are those that are globally threatened, have had an historical population decline in the UK from 1800 -1995, a rapid ($>$ or $=$ 50%) decline in UK breeding population over the past 25 years, or a rapid ($>$ or $=$ 50%) contraction of UK breeding range over the past 25 years;
- Amber - amber listed species are those that have had a historical population decline from 1800-1995 but are recovering (population size has more than doubled over the past 25 years), a moderate (25-49%) decline in UK breeding population over the past 25 years, a moderate (25-49%) contraction of UK breeding range over the past 25 years, a moderate (25-49%) decline in UK non-breeding population over the past 25 years, or species with unfavourable conservation status in Europe also known as Species of European Conservation Concern (SPEC); and
- Green - green listed species are those that have no identified threat to their population status.

2.3 Ornithological Guidance

NS has produced several guidance documents in relation to the assessment of impacts of wind farm developments on bird populations. The following guidance informed the survey work and any subsequent assessments. This is the accepted guidance for use in England, with consequent analysis required in the English context:

- Assessing the Cumulative Impacts of Onshore Wind Energy Developments (2025a)²;
- Assessing connectivity with Special Protection Areas (SPAs) (2016a)³;
- Environmental Statements and Annexes of Environmentally Sensitive Bird information (2016b)⁴;
- Recommended Bird Survey Methods to Inform Impact Assessment of Onshore Wind Farms (2025b)⁵; and
- Assessing the Significance of Impacts from Onshore Wind Farms on Birds at Sites that do not Affect Protected Areas (2025c)⁶.

² NatureScot (2025a). Guidance - Assessing the cumulative landscape and visual impact of onshore wind energy developments. [online] Available at: <https://www.nature.scot/doc/guidance-assessing-cumulative-impacts-onshore-wind-farms-birds>.

³ SNH (2016a). *Assessing Connectivity with Special Protection Areas (SPAs) Guidance*. [online] Available at: <https://www.nature.scot/sites/default/files/2022-12/Assessing%20connectivity%20with%20special%20protection%20areas.pdf>.

⁴ NatureScot (2016b). Environmental Statements and Annexes of Environmentally Sensitive Bird Information. [online] Available at: <https://www.nature.scot/doc/environmental-statements-and-annexes-environmentally-sensitive-bird-information>.

⁵ NatureScot (2025b). *Recommended bird survey methods to inform impact assessment of onshore windfarms*. [online] Available at: <https://www.nature.scot/doc/recommended-bird-survey-methods-inform-impact-assessment-onshore-windfarms>.

⁶ NatureScot (2025c). Guidance note - Assessing the significance of impacts on bird populations from onshore wind farms that do not affect protected areas. [online] NatureScot. Available at: <https://www.nature.scot/doc/guidance-note-assessing-significance-impacts-bird-populations-onshore-wind-farms-do-not-affect>.

3. Methodology

3.1 Target Species

3.1.1 Target Species

Target avian species were identified as those that are either afforded specific legislative protection (i.e. of high conservation interest) or represent qualifying interests in designated sites in the wider area. The final list of target species was determined using these criteria along with the likelihood of each species being present at the Site and in the environs (based upon available habitat, experience of working in this region and geographical location).

Target species are considered to be those:

- Identified as potentially at risk from impacts of onshore wind farms (NatureScot 2025c);
- Species listed in Annex 1 of the EC Wild Birds Directive (2009/147/EC);
- Non-passerines listed in Schedule 1 of the Wildlife and Countryside Act 1981 (as amended).

The target species were differentiated between primary and secondary target species, with ornithological features of nearby designated sites are highlighted in **Bold**. These are as follows:

Primary Target Species

Raptors: All Schedule 1 and Annex 1 species including **Merlin** *Falco columbarius*, **Peregrine** *Falco peregrinus*, Hen harrier *Circus cyaneus* Hobby *Falco subbuteo*, Barn owl *Tyto alba*, **Short-eared owl** *Asio flammeus* and Red kite *Milvus milvus*.

Waders: all including **Little ringed plover** *Charadrius dubius* **Curlew** *Numenius arquata* **Golden plover** *Pluvialis apricaria*, **Common sandpiper** *Actitis hypoleucos*, **Dunlin** *Calidris alpina*, **Snipe** *Gallinago Gallinago*, Little egret *Egretta garzetta*, Oystercatcher *Haematopus ostralegus* and **Lapwing** *Vanellus vanellus*.

Wildfowl: all Ducks, including **Teal** *Anas crecca* and Goosander *Mergus merganser*.

Geese: all excluding Canada goose *Branta canadensis*

Secondary Target Species

- Raptors: **Buzzard** *Buteo buteo*, **Kestrel** *Falco tinnunculus*, Sparrowhawk *Accipiter nisus*.
- Cormorant *Phalacrocorax carbo*, **Moorhen** *Gallinula chloropus* and **Grey heron** *Ardea cinerea*
- **Red grouse** *Lagopus lagopus*;
- **Raven** *Corvus corax*
- Gulls: **Lesser black-backed** *Larus fuscus*, **Mediterranean** *Larus melanocapthalus*, and **Black-headed** *Chroicocephalus ridibundus*, Herring *Larus argentatus* and Common *Larus canus*.

3.2 Survey Methodologies

Survey methodologies were in accordance with NatureScot (2025b) guidance.

All surveys were carried out by experienced ornithological surveyors.

3.2.1 Diurnal Vantage Point Survey

Vantage point (VP) watches have been undertaken since April 2022 and are now complete as of August 2024, following the methods within NatureScot guidance (2025b). Six hours of watches were undertaken per VP per month.

This report details the target species flight activity between April and August 2024 to cover a second breeding season in an extension to the Site. It also provides a summary for the full suite of surveys given the survey effort for each VP varied slightly and was carried out across different breeding and non-breeding seasons and passage periods. Each VP watch was undertaken by a suitably experienced single observer in conditions of good visibility. The surveyor positioned themselves as inconspicuously as possible to minimise their effect on the birds' natural behaviour.

Table 1 below presents the details of the Six VP locations along with the original VP5 which was replaced by 5b in February 2023. Figure 10.14 in the main ES chapter presents all VP locations and viewsheds.

Table 1: Details of Vantage Point Locations

VP Number	Grid Reference		View Bearing
	Easting	Northing	
VP1	-385102	416674	060°
VP2	-383254	418773	030°
VP3	-385860	418175	315°
VP4	-387337	418326	245°
VP5	-384927	420044	240°
VP5b	-384927	420044	270°
VP6	-385240	419585	010°

Surveys at each VP location were undertaken in watches of no longer than 3 hours duration, for two watches per VP location per month where conditions allowed. If weather conditions are such that the 3-hour watches are curtailed, these are re-commenced again in suitable conditions. When multiple surveyors were undertaking VPs onsite, care was taken to ensure the survey areas did not overlap. Other survey work and activity on the Site is considered to minimise the potential for disturbance of baseline conditions and issues compromising data integrity. Diurnal VPs were completed in order to cover all daylight hours (between dawn and dusk) in any given survey day.

Flight lines were recorded within the following three height bands:

- A - < 20m.
- B - 20m – 180m
- C - >180m.

Details of the date, timing, and surveyors for all VP surveys are provided in Appendix B.

3.2.2 Breeding Raptor Surveys

Surveys for breeding raptors were undertaken between April and July 2023, with four visits following Hardey *et al.* (2013). Table 2 below provides a summary of the timing and aim of each visit.

Table 2: Timing of Raptor Survey Visits

Visit No.	Purpose	Timing
1	Detection of possible territories	End March – mid-April
2	Location of nests	Late April – mid May
3	Detection of young birds	June
4	Detection of fledging	Mid July – late July

The survey area extended up to 2 km from the Site boundary due to raptor territory sizes. It was carried out in conjunction with the upland breeding bird surveys (see Section 3.2.3 below). Table 3 below summarises the breeding raptor survey effort in the 2023 season.

Table 3: Breeding Raptor Survey Effort 2023

Visit No.	Dates	Observer(s)
1	April – 10 th 11 th 12 th 13 th 14 th	MS
2	May – 2 nd 3 rd 4 th 5 th 6 th	EF
3	June – 26 th 27 th 28 th 29 th 30 th	MS
4	July – 24 th 25 th 26 th 27 th 28 th	MS

3.2.3 Upland Breeding Bird Surveys

A modified Common Bird Census approach (Gilbert *et al.*, 1998) was used, which involved four visits to the Site, each comprising a Site walkover by an experienced ornithologist in which all parts of the Proposed Development Area plus a 500m buffer were walked over to a minimum distance of 50 m (where accessible). Visits were carried out between the end of April and July and all birds seen or heard were recorded on site maps using British Trust for Ornithology (BTO) survey nomenclature. Due to the size of the Site, surveys took place over several days.

Table 4 below details the survey dates and surveyors.

Table 4: Breeding Bird Survey Visits

Visit	Dates	Surveyor
1	April – 11 th , 13 th 14 th	MS
2	May – 2 nd , 3 rd , 4 th , 5 th	EF
3	June – 26 th , 27 th , 28 th	MS
4	July – 24 th 25 th 28 th	MS

Once all surveys were complete, analysis of territories was undertaken. This involved an assessment of bird records across all four survey visits. However, only species which are listed on Birds of Conservation Concern as amber or red, Annex 1 or Schedule 1 species were included.

Four categories were recognised:

- Confirmed territory – a nest was found, or adults seen carrying food (unless raptors) or nesting materials or presence of juvenile birds on the site;
- Probable territory – bird(s) were seen in the same location on more than one location and breeding behaviour was observed on at least one occasion (e.g. courtship, display or singing, pairs in suitable habitat, territorial disputes);
- Possible territory – birds observed only once in one location, but evidence of breeding was observed, or birds recorded repeatedly (i.e. across several visits) in suitable habitat although no evidence of breeding observed; and
- Non-breeding – bird was recorded with no breeding behaviour observed and on no other visit was a bird observed in the same location.

Limitations

Due to the upland nature of the Site, some surveys have been affected by adverse weather conditions. However, to minimise these impacts, where wind, rain or fog significantly affected ability to undertake surveys or detect birds, the VP watches were stopped and rescheduled to a later date when conditions were more favourable. Surveys were successfully completed within the relevant

months for the full survey period and therefore this dataset is considered robust and representative of bird activity on Site in all seasons.

The breeding bird survey areas covered between 2022 and 2024 exclude Site extensions that were added in late April 2025. However, as survey buffers were able to be surveyed in detail in all years, this provides confidence that all receptors have been accounted for within the current Assessment Boundary, as of May 2025.

The access track referred to within this report is a former proposed access route that has not been brought forward to the final Site design, however it has been presented as supplementary data regarding breeding species assemblages surrounding the Site. The access route taken forward has not been surveyed, however it is understood that these are existing access tracks which connect to the adjacent Scout Moor wind farm and as such construction activities would be limited around them.

4. Results

4.1 Vantage Point Surveys

4.1.1 Year 3 Breeding Season VP (April – August 2024)

Table 5 summarises the breeding VP survey effort at a single VP location (VP6) for a five month period between April 2024 and August 2024 inclusive. Figure 10-3-1 shows the flightlines of target species recorded during the 2024 breeding season. Detailed results for all VPs from earlier breeding and wintering periods are presented separately in the year 1 (Appendix 10-1) and year 2 (Appendix 10-2) ornithological reports; they have been referred to within this report to draw comparisons.

Table 5: Year 3 (2024) Breeding Vantage Point Survey Effort - VP6

VP No.	March	April	May	June	July	August	September	Total Hours
6	-	6	3	9	6	6	-	30

During the 3rd year of breeding season VP surveys, two primary target species were recorded in flight over the site: Curlew and Merlin. This is consistent with previous data for the Site, whereby both these species were observed in the 2022 and 2023 breeding seasons. These were both individual flights, with Curlew observed for 26 seconds below risk height and Merlin observed for 7 seconds below risk height. Lapwing were frequently observed in previous years at other VP locations; however, no activity was observed for Lapwing in the area around VP6 during the 2024 breeding vantage point surveys. Additionally, Kestrel, a secondary target species which has been confirmed breeding in the vicinity of the Site was recorded in flight on 3 occasions during this period totalling 163 seconds at risk height.

Table 6: Summary Flight Data for Target Species Recorded during breeding season VP Surveys at VP6 (April - August 2024)

Species	Minimum No. of Birds	Maximum No. of Birds	Average No. of Birds	No. of Flights	Total Bird Seconds	At Risk Bird Seconds
Curlew	1	1	1	1	26	0
Merlin	1	1	1	1	7	0

4.1.2 All months (April 2022 – August 2024)

Table 7 below summarises the VP survey effort across all VP locations between April 2022 and August 2024. Whilst VPs 5b and 6 started later than VPs 1-5, timings ensured survey effort achieved coverage of 2 breeding seasons, two passage periods and 1 non-breeding season at each VP location. Survey effort consisted of 18 months at VPs 1-4, 10 months at VP5 (discontinued), 12 months of survey at VP 5b, and 17 months at VP6; VPs 5b and 6 were added later in the project in February 2023. The results of the full series from April 2022 to August 2024 are presented in section 4.1.2. The specific details of each VP survey visit can be found in Appendix B. Section 3.2.1 provides an explanation of the number of hours that were surveyed from each location.

Table 7: VP survey effort across all VP locations between April 2022 and August 2024

VP Number	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Hours
1	2022				6	6	6	6	6	6	6	6	6	54
	2023	6	6	6	3	9	6	6	6	6				54
2	2022				6	6	6	6	6	6	6	6	6	54

VP Number	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Hours
	2023	6	6	6	6	3	9	6	6	3	3			54
3	2022				6	6	6	6	6	6	6	6	6	54
	2023	6	6	6	3	9	6	6	6	6				54
4	2022				6	6	6	6	6	6	6	6	6	54
	2023	6	6	6	6	3	9	6	6	3	3			54
5	2022				6	6	6	6	6	6	6	6	6	54
	2023	6												6
5b	2023		6	6	6	6	6	6	6	6	3	6	9	66
	2024	6												6
6	2023		6	6	6	6	6	6	6	6	3	6	9	66
	2024	6			6	3	9	6	6					36

During the full suite of VP surveys between April 2022 and August 2024 each VP location underwent 6 hours of survey per VP per month as per guidance. A total of 666 hours of vantage point surveys have now been completed at the site across 6 VP locations, which have recorded a total of 18 primary target species. This period covers three breeding seasons, one full non-breeding season, one partial non-breeding season (5 months) and three passage periods. Details of survey effort for each VP can be found in section 4.1 above.

Lapwing were the most frequently observed primary target species and had both the highest total number of birds seconds and 'at risk' seconds. Overall, 32 flights, totalling 2,893 total bird seconds and 1,677 at risk flight seconds were recorded for this species over the two breeding seasons, whereby a peak count of 7 birds were recorded together. Merlin was the second most frequently recorded species over the surveys, whereby 12 flights were observed from a maximum of two birds, totalling 1,293 seconds, 1,075 of which were at risk height. Pink-footed goose had the second highest at risk seconds after Lapwing, although this pertained to a single flight by a flock of 27 birds in September 2023.

Other activity of note is 7 flights of Curlew (546 at risk seconds) and 8 flights of Greylag geese (1279 at risk seconds). Curlew activity was concentrated in one area of the Site and three additional 'heard' records were noted for this species, two of which were in the same region as the cluster of flight lines. Very occasional flights from Shoveler, Goosander, Gadwall, and Tufted duck were observed, with all but Goosander recorded flying at risk height. Finally single records from Hobby, Peregrine, Little egret, Black-tailed godwit, Mute swan, Redshank, Snipe and Oystercatcher were also recorded, with all but Mute swan and Hobby observed at- risk height. Snipe, Mute swan, Pink-footed goose and Black-tailed godwit were winter-only species, with all other species in Table 8 observed in at least one season or all breeding seasons.

Table 8: Summary Flight Data for Target Species Recrded during VPs over 27 months between April 2022 - August 2024

Species	Minimum No. of Birds	Maximum No. of Birds	Average No. Birds	No. of Flights	Total Bird Seconds	At Risk Bird Seconds
Black-tailed godwit	6	6	6	1	294	294
Curlew	1	3	1.43	7	655	546
Gadwall	1	1	1	1	39	39
Goosander	2	2	2	1	94	0
Greylag goose	2	8	4.13	8	1,399	1,279

Species	Minimum No. of Birds	Maximum No. of Birds	Average No. Birds	No. of Flights	Total Bird Seconds	At Risk Bird Seconds
Hobby	1	1	1	1	28	0
Lapwing	1	7	1.69	32	2,893	1,677
Little egret	1	1	1	1	41	41
Merlin	1	2	1.25	12	1,293	1,075
Mute swan	3	3	3	1	156	0
Oystercatcher	1	1	1	1	47	47
Peregrine	1	1	1	1	80	60
Pink-footed goose	27	27	27	1	1,620	1,620
Red kite	1	1	1	1	20	20
Redshank	1	1	1	1	20	20
Shoveler	2	2	2	2	158	80
Snipe	1	1	1	1	23	23
Tufted duck	2	2	2	3	518	518

4.2 Breeding Bird Surveys

4.2.1 Breeding Raptors

Six raptor species were observed within the red line boundary and 2 km buffer during dedicated breeding raptor surveys with three secondary target species comprised the likely breeding raptor assemblage on Site. Kestrel was confirmed as a breeder in the West of the Site and also had one possible and two non-breeding territories. This species was also confirmed the previous year. Surveyors regularly encountered Buzzard activity across the survey area, and one probable, one possible and four non-breeding territories were identified. Sparrowhawk had one possible and one non-breeding territory. Additionally, three primary target species were assessed as non-breeding: Barn owl, Peregrine and Red kite which all had one non-breeding territory each. Raptor territories for 2024 are shown in a confidential figure, (Figure 10.9) within the main ES chapter; whilst Table 9 below presents a summary of the number of territories found on Site.

Table 9: 2024 Breeding Raptor Territories

Species (A-Z)	Confirmed	Probable	Possible	Total Breeding Territories	Non-breeding / Unknown
Barn Owl				0	1
Buzzard		1	1	2	4
Kestrel	1	0	1	2	2
Peregrine				0	1
Red kite				0	1
Sparrowhawk			1	1	1

* It should be noted that the survey area in 2024 did not cover the entire Site, therefore the results are only a representative of species present in a portion of the Site. The purpose of 2024 breeding walkover surveys was to gather information on species present in additional areas such as Site extensions and a potential access route.

4.2.2 Upland Breeding Birds

The Site, proposed access track and associated buffers supported a variety of breeding bird species, shown in Figure 10.4 within the main ES chapter, with forty five out of fifty four species recorded,

comprising the likely breeding assemblage. Table 10 below presents a summary of territories found within the areas surveyed in 2024.

Table 10: 2024 Breeding Bird Territories

Species	Confirmed	Nonbreeding	Possible	Probable
Blackbird	1		5	3
Black-headed gull		1	1	
Blue Tit		1	3	1
Canada Goose	2	1		2
Carrion Crow	2	7	9	1
Chaffinch			9	2
Chiffchaff			2	
Coal Tit		1	1	
Common Gull		1		
Common sandpiper			1	
Cormorant			1	
Curlew		1	6	
Duncock		2	3	
Goldcrest		1	3	
Goldfinch		5	5	
Grasshopper warbler			2	
Great black-backed Gull			1	
Great Spotted Woodpecker		1		
Great Tit		4	2	
Green Woodpecker		1		
Greenfinch		1	1	
Grey Heron		2		
Herring Gull		4	2	
House Martin		1	2	
House Sparrow		1	1	1
Jackdaw	1	4	2	
Jay		2	1	
Lapwing		1	4	1
Lesser Black-backed Gull		3	1	
Linnet		4	4	2
Magpie	1	6	4	
Mallard		2	2	1
Meadow Pipit	12	17	120	76
Mistle Thrush		1		
Pheasant		3	2	
Pied Wagtail	1	7	7	
Raven		3		
Redstart			1	
Reed Bunting		4	7	
Ring Ouzel		2		
Robin			9	2

Species	Confirmed	Nonbreeding	Possible	Probable
Rock Dove / Feral Pigeon		2		
Rook		1		
Skylark		4	117	71
Snipe			2	
Song Thrush			3	
Starling		3	4	
Stonechat	2	2	4	1
Swallow		4	4	
Swift		2	2	
Wheatear	1	2	2	1
Whitethroat			3	
Willow Warbler			28	4
Woodpigeon		3	11	
Wren	2	1	26	8
Total	25	118	427	177

*It should be noted that the survey area in 2024 did not cover the entire Site, therefore the results are only a representative of species present in a portion of the Site. The purpose of 2024 breeding walkover surveys was to gather information on species present in additional areas such as Site extensions and a potential access route.

Ten species were confirmed breeding within the survey boundary, an additional nine probable species and twenty six possible breeding species. Among these were notable ground nesting waders which have high conservation importance. These were Curlew which was identified as a possible breeder in six locations across the survey area, two of which were in the development area with the remaining four in the buffer area for the site and proposed access track. This species was previously confirmed on Site in year 1 and was a possible breeder in the same region in year 2, with further probable and possible territories across the Site and buffer in both years. This year, one probable and four possible Lapwing territories were also present in buffer areas of the main Site and access track. Additionally, there were two possible territories for Snipe recorded within the Site.

Passerine breeding species of high conservation interest (i.e. BoCC red list) were Grasshopper warbler, House martin, House sparrow, Linnet, Skylark, Swift, and Starling. Of these, there were notably high densities of possible and probable breeding Skylark across the Site and access route. There were also high densities of BoCC amber list species Willow warbler and Meadow pipit (see Figure 10-3-2 for Meadow pipit territory results). Additionally, two non-breeding observations of ring ouzel were identified in the East of the site and East buffer.

Appendices



Appendix A. Figures

Figure 10-3-1 - Vantage Point Flightlines Target Species: April 2024- August 2024

Figure 10-3-2 - Breeding Meadow Pipit Territory Results 2024

Appendix B. Vantage Point Survey Visit Details

Table 11: Vantage Point Survey Visit Details (April 2022 - August 2024)

Survey Date	Start Time	Finish Time	Duration	Surveyor	VP Type	VP Number
11/04/2022	11:05	14:05	03:00:00	TB	Diurnal	3
11/04/2022	14:45	17:45	03:00:00	TB	Diurnal	5
12/04/2022	07:00	10:00	03:00:00	TB	Dawn	5
12/04/2022	10:45	14:15	03:30:00	TB	Diurnal	3
13/04/2022	07:00	10:00	03:00:00	TB	Dawn	2
13/04/2022	11:00	14:00	03:00:00	TB	Diurnal	4
13/04/2022	15:30	18:30	03:00:00	TB	Diurnal	1
14/04/2022	08:00	11:00	03:00:00	TB	Dawn	1
14/04/2022	13:00	16:00	03:00:00	TB	Diurnal	4
19/04/2022	13:30	16:30	03:00:00	MS	Diurnal	2
04/05/2022	09:30	12:30	03:00:00	DE	Diurnal	5
04/05/2022	12:45	15:45	03:00:00	DE	Diurnal	3
06/05/2022	06:50	09:50	03:00:00	DE	Diurnal	1
06/05/2022	10:20	13:20	03:00:00	DE	Diurnal	2
18/05/2022	09:00	12:00	03:00:00	MS	Diurnal	2
18/05/2022	14:00	17:00	03:00:00	MS	Diurnal	4
19/05/2022	09:00	12:00	03:00:00	MS	Diurnal	3
19/05/2022	12:30	15:30	03:00:00	MS	Diurnal	5
20/05/2022	09:00	12:00	03:00:00	MS	Diurnal	4
20/05/2022	13:00	16:00	03:00:00	MS	Diurnal	1
09/06/2022	09:00	12:00	03:00:00	EF and MS	Diurnal	1
09/06/2022	13:30	16:30	03:00:00	EF	Diurnal	4
09/06/2022	14:00	17:00	03:00:00	MS	Diurnal	2
10/06/2022	07:30	10:30	03:00:00	EF	Diurnal	3
10/06/2022	11:00	14:00	03:00:00	EF	Diurnal	5
28/06/2022	07:45	10:45	03:00:00	EF	Diurnal	5
28/06/2022	11:45	14:45	03:00:00	EF	Diurnal	3
29/06/2022	07:30	10:30	03:00:00	EF	Diurnal	4
29/06/2022	11:45	14:45	03:00:00	EF	Diurnal	1
30/06/2022	08:15	11:15	03:00:00	EF	Diurnal	2
04/07/2022	08:30	11:30	03:00:00	TB	Diurnal	3
04/07/2022	04:30	07:30	03:00:00	TB	Dawn	5
11/07/2022	09:00	12:00	03:00:00	DD	Diurnal	1
11/07/2022	14:50	17:50	03:00:00	DD	Diurnal	2
12/07/2022	09:10	12:10	03:00:00	DD	Diurnal	3
12/07/2022	13:20	16:20	03:00:00	DD	Diurnal	5
13/07/2022	07:50	10:50	03:00:00	DD	Diurnal	4

Survey Date	Start Time	Finish Time	Duration	Surveyor	VP Type	VP Number
13/07/2022	13:00	16:00	03:00:00	DD	Diurnal	1
14/07/2022	08:10	11:10	03:00:00	DD	Diurnal	2
14/07/2022	13:00	16:00	03:00:00	DD	Diurnal	4
02/08/2022	12:45	15:45	03:00:00	DD	Diurnal	3
08/08/2022	08:00	11:00	03:00:00	MS	Diurnal	3
08/08/2022	12:00	15:00	03:00:00	MS	Diurnal	5
10/08/2022	08:30	11:30	03:00:00	EF	Diurnal	5
11/08/2022	07:00	10:00	03:00:00	TB	Diurnal	4
11/08/2022	15:00	18:00	03:00:00	TB	Diurnal	1
14/07/2022	13:00	16:00	03:00:00	DD	Diurnal	4
02/08/2022	12:45	15:45	03:00:00	DD	Diurnal	3
08/08/2022	08:00	11:00	03:00:00	MS	Diurnal	3
08/08/2022	12:00	15:00	03:00:00	MS	Diurnal	5
10/08/2022	08:30	11:30	03:00:00	EF	Diurnal	5
11/08/2022	07:00	10:00	03:00:00	TB	Diurnal	4
11/08/2022	15:00	18:00	03:00:00	TB	Diurnal	1
15/08/2022	08:15	11:15	03:00:00	EF	Diurnal	2
15/08/2022	12:30	15:30	03:00:00	EF	Diurnal	4
17/08/2022	08:15	11:15	03:00:00	EF	Diurnal	1
17/08/2022	12:25	15:25	03:00:00	EF	Diurnal	2
14/09/2022	07:45	10:45	03:00:00	EF	Diurnal	2
14/09/2022	12:10	15:10	03:00:00	EF	Diurnal	1
15/09/2022	08:05	11:05	03:00:00	EF	Diurnal	3
15/09/2022	11:35	14:35	03:00:00	EF	Diurnal	5
27/09/2022	07:45	10:45	03:00:00	EF	Diurnal	2
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28/09/2022	07:20	10:20	03:00:00	DD	Diurnal	4
28/09/2022	13:10	16:10	03:00:00	DD	Diurnal	1
29/09/2022	08:00	11:00	03:00:00	DD	Diurnal	3
29/09/2022	12:00	15:00	03:00:00	DD	Diurnal	5
11/10/2022	09:00	12:00	03:00:00	MS	Diurnal	1
11/10/2022	13:10	16:10	03:00:00	MS	Diurnal	2
13/10/2022	08:45	11:45	03:00:00	DD	Diurnal	1
13/10/2022	14:10	17:10	03:00:00	DD	Diurnal	3
14/10/2022	13:00	16:00	03:00:00	MS	Diurnal	5
15/10/2022	09:00	12:00	03:00:00	MS	Diurnal	3
25/10/2022	09:00	12:00	03:00:00	MS	Diurnal	5
25/10/2022	14:30	17:30	03:00:00	MS	Diurnal	4
26/10/2022	08:00	11:00	03:00:00	EF	Diurnal	4
26/10/2022	12:15	15:15	03:00:00	EF	Diurnal	2
09/11/2022	08:15	11:15	03:00:00	TB	Diurnal	1
09/11/2022	13:15	16:15	03:00:00	TB	Diurnal	4
10/11/2022	08:50	11:50	03:00:00	DD	Diurnal	3
10/11/2022	12:30	15:30	03:00:00	DD	Diurnal	5
21/11/2022	08:05	11:05	03:00:00	EF	Diurnal	2
21/11/2022	12:10	15:10	03:00:00	EF	Diurnal	1
22/11/2022	08:00	11:00	03:00:00	EF	Diurnal	5

Survey Date	Start Time	Finish Time	Duration	Surveyor	VP Type	VP Number
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23/11/2022	08:00	11:00	03:00:00	EF	Diurnal	4
23/11/2022	12:15	15:15	03:00:00	EF	Diurnal	2
02/12/2022	08:30	11:30	03:00:00	MS	Diurnal	1
02/12/2022	13:00	16:00	03:00:00	MS	Diurnal	4
05/12/2022	08:30	11:30	03:00:00	JW	Diurnal	3
05/12/2022	12:15	15:15	03:00:00	JW	Diurnal	5
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06/12/2022	12:15	15:15	03:00:00	JW	Diurnal	3
07/12/2022	08:30	11:30	03:00:00	JW	Diurnal	2
07/12/2022	12:30	15:30	03:00:00	JW	Diurnal	1
08/12/2022	08:00	11:00	03:00:00	JW	Diurnal	4
08/12/2022	12:00	15:00	03:00:00	JW	Diurnal	2
05/01/2023	08:30	11:30	03:00:00	EF	Diurnal	3
05/01/2023	12:00	15:00	03:00:00	EF	Diurnal	5
29/09/2022	12:00	15:00	03:00:00	DD	Diurnal	5
11/10/2022	09:00	12:00	03:00:00	MS	Diurnal	1
11/10/2022	13:10	16:10	03:00:00	MS	Diurnal	2
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15/10/2022	09:00	12:00	03:00:00	MS	Diurnal	3
25/10/2022	09:00	12:00	03:00:00	MS	Diurnal	5
25/10/2022	14:30	17:30	03:00:00	MS	Diurnal	4
26/10/2022	08:00	11:00	03:00:00	EF	Diurnal	4
26/10/2022	12:15	15:15	03:00:00	EF	Diurnal	2
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02/12/2022	08:30	11:30	03:00:00	MS	Diurnal	1
02/12/2022	13:00	16:00	03:00:00	MS	Diurnal	4
05/12/2022	08:30	11:30	03:00:00	JW	Diurnal	3
05/12/2022	12:15	15:15	03:00:00	JW	Diurnal	5
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07/12/2022	08:30	11:30	03:00:00	JW	Diurnal	2
07/12/2022	12:30	15:30	03:00:00	JW	Diurnal	1
08/12/2022	08:00	11:00	03:00:00	JW	Diurnal	4

Survey Date	Start Time	Finish Time	Duration	Surveyor	VP Type	VP Number
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05/01/2023	12:00	15:00	03:00:00	EF	Diurnal	5
06/01/2023	08:35	11:35	03:00:00	MS	Diurnal	2
06/01/2023	13:00	16:00	03:00:00	MS	Diurnal	4
17/01/2023	10:30	13:30	03:00:00	MS	Diurnal	1
18/01/2023	12:15	15:15	03:00:00	MS	Diurnal	2
23/01/2023	08:15	11:15	03:00:00	TB	Diurnal	4
23/01/2023	13:45	16:45	03:00:00	TB	Diurnal	3
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24/01/2023	13:15	16:15	03:00:00	TB	Diurnal	1
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09/02/2023	14:00	17:00	03:00:00	Efa	Diurnal	1
10/02/2023	09:00	12:00	03:00:00	Efa	Diurnal	4
10/02/2023	13:40	16:40	03:00:00	Efa	Diurnal	2
27/02/2023	12:00	15:00	03:00:00	MS	Diurnal	6
28/02/2023	09:15	12:15	03:00:00	MS	Diurnal	6
01/03/2023	08:15	11:15	03:00:00	EF	Diurnal	1
01/03/2023	12:30	15:30	03:00:00	EF	Diurnal	3
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13/03/2023	11:20	14:20	03:00:00	EF	Diurnal	6
14/03/2023	07:45	10:45	03:00:00	EF	Diurnal	3
16/03/2023	07:55	10:55	03:00:00	EF	Diurnal	2
16/03/2023	12:00	15:00	03:00:00	EF	Diurnal	4
28/03/2023	08:00	11:00	03:00:00	EF	Diurnal	6
28/03/2023	11:30	14:30	03:00:00	EF	Diurnal	5b
29/03/2023	11:00	14:00	03:00:00	EF	Diurnal	1
03/04/2023	09:45	12:45	03:00:00	RB	Diurnal	2
03/04/2023	14:00	17:00	03:00:00	RB	Diurnal	4
04/04/2023	09:00	12:00	03:00:00	RB	Diurnal	5b
04/04/2023	12:10	15:10	03:00:00	RB	Diurnal	6
15/04/2023	12:30	15:30	03:00:00	MS	Diurnal	5b
15/04/2023	09:15	12:15	03:00:00	MS	Diurnal	6
25/04/2023	09:35	12:35	03:00:00	EP	Diurnal	3
25/04/2023	09:45	12:45	03:00:00	RB	Diurnal	4
25/04/2023	14:00	17:00	03:00:00	RB	Diurnal	2
25/04/2023	14:48	17:48	03:00:00	EP	Diurnal	1
02/05/2023	09:15	12:15	03:00:00	MS	Diurnal	1
09/05/2023	05:30	08:30	03:00:00	TB	Diurnal	1

Survey Date	Start Time	Finish Time	Duration	Surveyor	VP Type	VP Number
09/05/2023	09:45	12:45	03:00:00	TB	Diurnal	2
09/05/2023	14:00	17:00	03:00:00	TB	Diurnal	3
10/05/2023	08:00	11:00	03:00:00	TB	Diurnal	5b
10/05/2023	12:00	15:00	03:00:00	TB	Diurnal	4
11/05/2023	12:30	15:30	03:00:00	TB	Diurnal	6
12/05/2023	08:00	11:00	03:00:00	MS	Diurnal	3
12/05/2023	12:15	15:15	03:00:00	MS	Diurnal	1
16/05/2023	09:15	12:15	03:00:00	MS	Diurnal	6
16/05/2023	12:30	15:30	03:00:00	MS	Diurnal	5b
01/06/2023	08:45	11:45	03:00:00	Rbu	Diurnal	4
01/06/2023	15:50	18:50	03:00:00	NR	Diurnal	2
07/06/2023	08:00	11:00	03:00:00	TB	Diurnal	1
07/06/2023	12:00	15:00	03:00:00	TB	Diurnal	3
08/06/2023	08:00	11:00	03:00:00	TB	Diurnal	2
08/06/2023	12:00	15:00	03:00:00	TB	Diurnal	4
19/06/2023	08:00	11:00	03:00:00	TB	Diurnal	5b
19/06/2023	12:30	15:30	03:00:00	TB	Diurnal	6
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21/06/2023	08:30	11:30	03:00:00	TB	Diurnal	4
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22/06/2023	09:00	12:00	03:00:00	TB	Diurnal	6
10/07/2023	08:00	11:00	03:00:00	TB	Diurnal	5b
10/07/2023	12:00	15:00	03:00:00	TB	Diurnal	6
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12/07/2023	08:00	11:00	03:00:00	TB	Diurnal	4
12/07/2023	12:00	15:00	03:00:00	TB	Diurnal	2
13/07/2023	08:00	11:00	03:00:00	MS	Diurnal	2
13/07/2023	14:15	17:15	03:00:00	MS	Diurnal	4
24/07/2023	08:00	11:00	03:00:00	TB	Diurnal	1
24/07/2023	13:00	16:00	03:00:00	TB	Diurnal	3
28/07/2023	08:45	11:45	03:00:00	MS	Diurnal	6
28/07/2023	12:15	15:15	03:00:00	MS	Diurnal	5b
09/08/2023	09:30	12:30	03:00:00	MS	Diurnal	2
09/08/2023	13:30	16:30	03:00:00	MS	Diurnal	4
10/08/2023	07:30	10:30	03:00:00	MS	Diurnal	1
10/08/2023	11:40	14:40	03:00:00	MS	Diurnal	3
16/08/2023	10:00	13:00	03:00:00	RP	Diurnal	5b
16/08/2023	13:15	16:15	03:00:00	RP	Diurnal	6
18/08/2023	10:15	13:15	03:00:00	RP	Diurnal	1
18/08/2023	15:00	18:00	03:00:00	RP	Diurnal	3
24/08/2023	08:30	11:30	03:00:00	TB	Diurnal	4
24/08/2023	12:30	15:30	03:00:00	TB	Diurnal	2
29/08/2023	09:15	12:15	03:00:00	RP	Diurnal	6
29/08/2023	12:20	15:20	03:00:00	RP	Diurnal	5
10/09/2023	08:30	11:30	03:00:00	MS	Diurnal	6

Survey Date	Start Time	Finish Time	Duration	Surveyor	VP Type	VP Number
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12/09/2023	10:00	13:00	03:00:00	RP	Diurnal	6
12/09/2023	13:00	16:00	03:00:00	RP	Diurnal	5b
14/09/2023	10:00	13:00	03:00:00	RP	Diurnal	2
14/09/2023	15:00	18:00	03:00:00	RP	Diurnal	4
14/09/2023	09:30	12:30	03:00:00	MS	Diurnal	3
14/09/2023	13:30	16:30	03:00:00	MS	Diurnal	1
22/09/2023	08:30	11:30	03:00:00	TB	Diurnal	1
22/09/2023	13:00	16:00	03:00:00	TB	Diurnal	3
23/09/2023	08:00	11:00	03:00:00	TB	Diurnal	4
23/09/2023	12:45	15:45	03:00:00	TB	Diurnal	2
12/10/2023	11:00	14:00	03:00:00	RP	Diurnal	6
12/10/2023	14:15	17:15	03:00:00	RP	Diurnal	5b
07/11/2023	09:00	12:00	03:00:00	MS	Diurnal	6
07/11/2023	12:15	15:15	03:00:00	MS	Diurnal	5b
17/11/2023	09:00	12:00	03:00:00	RP	Diurnal	5b
17/11/2023	12:15	15:15	03:00:00	RP	Diurnal	6
05/12/2023	09:15	12:15	03:00:00	MS	Diurnal	5b
05/12/2023	12:30	15:30	03:00:00	MS	Diurnal	6
08/12/2023	08:30	11:30	03:00:00	EF	Diurnal	5b
08/12/2023	12:00	15:00	03:00:00	EF	Diurnal	6
13/12/2023	08:45	11:45	03:00:00	MS	Diurnal	6
13/12/2023	12:00	15:00	03:00:00	MS	Diurnal	5b
04/01/2024	08:45	11:45	03:00:00	EF	Diurnal	5b
04/01/2024	12:15	15:15	03:00:00	EF	Diurnal	6
19/01/2024	08:30	11:30	03:00:00	MS	Diurnal	6
19/01/2024	11:45	14:45	03:00:00	MS	Diurnal	5b
08/04/2024	12:00	15:00	03:00:00	EF	Diurnal	6
29/04/2024	08:00	11:00	03:00:00	EF	Diurnal	6
29/05/2024	08:45	11:45	03:00:00	EF	Diurnal	6
14/06/2024	12:25	15:25	03:00:00	EF	Diurnal	6
25/06/2024	09:00	12:00	03:00:00	EF	Diurnal	6
27/06/2024	11:00	14:00	03:00:00	EF	Diurnal	6
15/07/2024	09:00	12:00	03:00:00	EF	Diurnal	6
16/07/2024	11:30	14:30	03:00:00	EF	Diurnal	6
12/08/2024	12:10	15:10	03:00:00	EF	Diurnal	6
16/08/2024	08:20	11:20	03:00:00	EF	Diurnal	6

Appendix C. Vantage Point Survey Summary of Weather Conditions

Table 12: Vantage Point Weather Summary (April 2022 - August 2024)

Survey Date	VP Number	VP Type	Mean Cloud Cover (eights)	Modal Visibility	Modal Precipitation	Mean Temperature (°C)	Mean Wind Speed (Beaufort Scale)	Modal Wind Direction
11/04/2022	3	Diurnal	8	1km - 2km	Light Intermittent	9	3	W

Survey Date	VP Number	VP Type	Mean Cloud Cover (eights)	Modal Visibility	Modal Precipitation	Mean Temperature (°C)	Mean Wind Speed (Beaufort Scale)	Modal Wind Direction
12/04/2022	5	Diurnal	7	1km - 2km	Light Intermittent	8	4	W
	3	Diurnal	8	1km - 2km	Light Persistent	7	4	E
	5	Dawn	7	1km - 2km	None	7	3	E
13/04/2022	1	Diurnal	8	> 2km	Light Intermittent	9	3	SE
	2	Dawn	8	1km - 2km	Heavy Intermittent	6	4	NE
14/04/2022	4	Diurnal	7	> 2km	None	9	3	SE
	1	Dawn	4	> 2km	None	10	3	S
	4	Diurnal	4	> 2km	None	12	3	S
19/04/2022	2	Diurnal	6	> 2km	None	12	2	NW
04/05/2022	3	Diurnal	8	1km - 2km	Light Intermittent	11		U
	5	Diurnal	8	1km - 2km	Heavy Intermittent	10		U
06/05/2022	1	Diurnal	7	> 2km	None	11	1	NE
	2	Diurnal	8	> 2km	None	13	3	NE
18/05/2022	2	Diurnal	5	> 2km	None	17	2	W
19/05/2022	4	Diurnal	7	> 2km	None	17	2	W
	3	Diurnal	8	> 2km	None	14	2	W
20/05/2022	5	Diurnal	3	> 2km	None	18	2	SW
	1	Diurnal	5	> 2km	None	15	2	SW
	4	Diurnal	5	> 2km	None	15	2	SW
09/06/2022	1	Diurnal	6	> 2km	None	16	2	SW
	2	Diurnal	8	> 2km	Light Intermittent	15	3	S
	4	Diurnal	8	> 2km	Light Persistent	13	3	SW
10/06/2022	3	Diurnal	7	> 2km	None	12	3	SW
28/06/2022	5	Diurnal	6	> 2km	None	16	3	SW
	3	Diurnal	7	> 2km	None	14	7	SW
	5	Diurnal	7	> 2km	None	13	7	SW
29/06/2022	1	Diurnal	6	> 2km	None	16	3	S
	4	Diurnal	7	> 2km	None	13	3	S
30/06/2022	2	Diurnal	6	> 2km	None	14	2	S
04/07/2022	5	Dawn	7	> 2km	None	14	4	W
			7	> 2km	None	14	4	W
11/07/2022	1	Diurnal	4	> 2km	None	19	1	SSW
	2	Diurnal	7	> 2km	None	23	2	SSW
12/07/2022	3	Diurnal	7	> 2km	Light Intermittent	20	2	WSW
	5	Diurnal	8	> 2km	None	21	3	SW
13/07/2022	1	Diurnal	1	> 2km	None	17	3	WNW
	4	Diurnal	4	> 2km	None	14	3	WNW

Survey Date	VP Number	VP Type	Mean Cloud Cover (eights)	Modal Visibility	Modal Precipitation	Mean Temperature (°C)	Mean Wind Speed (Beaufort Scale)	Modal Wind Direction
14/07/2022	2	Diurnal	7	> 2km	None	11	4	NW
02/08/2022	4	Diurnal	4	> 2km	None	12	4	WNW
	3	Diurnal	8	> 2km	None	19	4	SW
	3	Diurnal	6	> 2km	None	20	1	WSW
08/08/2022	5	Diurnal	5	> 2km	None	26	1	WNW
10/08/2022	5	Diurnal	0	> 2km	None	19	2	S
11/08/2022	1	Diurnal	1	> 2km	None	29	1	N
15/08/2022			1	> 2km	None	29	1	N
	4	Diurnal	1	> 2km	None	22	1	N
			1	> 2km	None	22	1	N
	2	Diurnal	6	> 2km	None	17	2	NW
	4	Diurnal	8	> 2km	Light Intermittent	20	3	NW
17/08/2022	1	Diurnal	6	> 2km	None	13	8	NE
14/09/2022	2	Diurnal	5	> 2km	None	14	6	ENE
	1	Diurnal	5	> 2km	None	14	3	NW
	2	Diurnal	8	> 2km	None	9	3	NW
15/09/2022	3	Diurnal	7	> 2km	None	11	4	NNW
	5	Diurnal	5	> 2km	None	13	4	NNW
27/09/2022	2	Diurnal	8	> 2km	Light Intermittent	7	5	WNW
	4	Diurnal	6	> 2km	None	9	8	WNW
28/09/2022	1	Diurnal	5	> 2km	None	9	3	NW
	4	Diurnal	1	> 2km	None	6	2	NW
29/09/2022	3	Diurnal	6	> 2km	None	8	4	NE
	5	Diurnal	5	> 2km	None	11	4	NNE
11/10/2022	1	Diurnal	8	> 2km	None	8	1	SSW
	2	Diurnal	6	> 2km	None	11	1	SW
13/10/2022	1	Diurnal	0	> 2km	None	6	1	ENE
	3	Diurnal	3	> 2km	None	12	2	SSW
14/10/2022	5	Diurnal	8	> 2km	Light Intermittent	13	1	SW
15/10/2022	3	Diurnal	7	> 2km	None	11	3	SW
25/10/2022	4	Diurnal	7	> 2km	None	14	2	SE
	5	Diurnal	7	> 2km	None	11	2	SW
26/10/2022	2	Diurnal	6	> 2km	Light Intermittent	12	4	SSW
	4	Diurnal	7	> 2km	Light Intermittent	13	7	S
09/11/2022	1	Diurnal	5	> 2km	None	10	3	SSW
			5	> 2km	None	10	3	SSW
	4	Diurnal	5	> 2km	None	11	4	SW
			5	> 2km	None	11	4	SW
10/11/2022	3	Diurnal	8	> 2km	None	12	4	SSW
	5	Diurnal	8	> 2km	None	12	4	SSW

Survey Date	VP Number	VP Type	Mean Cloud Cover (eights)	Modal Visibility	Modal Precipitation	Mean Temperature (°C)	Mean Wind Speed (Beaufort Scale)	Modal Wind Direction
21/11/2022	1	Diurnal	8	> 2km	Light Persistent	3	5	E
	2	Diurnal	7	> 2km	None	1	4	ESE
22/11/2022	3	Diurnal	7	> 2km	None	5	2	NNE
	5	Diurnal	7	> 2km	None	4	2	N
23/11/2022	2	Diurnal	7	> 2km	None	6	5	SSW
	4	Diurnal	8	> 2km	Light Persistent	5	5	SW
02/12/2022	1	Diurnal	8	> 2km	None	4	1	NE
	4	Diurnal	8	> 2km	None	5	1	NE
05/12/2022	3	Diurnal	6	> 2km	None	4	3	SE
	5	Diurnal	6	> 2km	None	6	2	SE
06/12/2022	3	Diurnal	0	> 2km	None	4	1	SE
	5	Diurnal	0	> 2km	None	2	3	ESE
07/12/2022	1	Diurnal	0	> 2km	None	-1	2	NNW
	2	Diurnal	0	> 2km	None	1	2	NNW
08/12/2022	2	Diurnal	0	> 2km	None	0	2	NNW
	4	Diurnal	0	> 2km	None	0	2	NNW
05/01/2023	3	Diurnal	8	1km - 2km	Light Persistent	7	4	SSW
	5	Diurnal	8	> 2km	None	8	7	SW
06/01/2023	2	Diurnal	7	> 2km	None	5	4	SW
	4	Diurnal	8	1km - 2km	None	5	4	SW
17/01/2023	1	Diurnal	7	1km - 2km	None	-1	1	W
18/01/2023	2	Diurnal	2	> 2km	None	3	3	NW
23/01/2023	3	Diurnal	7	> 2km	None	4	3	N
	4	Diurnal	8	> 2km	None	4	3	N
24/01/2023	1	Diurnal	6	> 2km	None	5	1	NW
	5	Diurnal	6	> 2km	None	4	1	N
01/02/2023	3	Diurnal	8	> 2km	None	4	4	SW
	5	Diurnal	8	> 2km	None	4	4	SW
02/02/2023	2	Diurnal	8	> 2km	Light Intermittent	7	6	WSW
	4	Diurnal	8	> 2km	Light Intermittent	5	6	WSW
03/02/2023	1	Diurnal	8	> 2km	Light Intermittent	6	3	SW
09/02/2023	1	Diurnal	6	> 2km	None	5	2	W
	5	Diurnal	1	> 2km	None	4	2	W
10/02/2023	2	Diurnal	8	> 2km	None	8	3	SW
	4	Diurnal	8	> 2km	None	5	2	SW
27/02/2023	6	Diurnal	7	> 2km	None	6	4	NE
28/02/2023	6	Diurnal	7	> 2km	None	5	4	NNE
01/03/2023	1	Diurnal	7	> 2km	Light Intermittent	4	6	NE

Survey Date	VP Number	VP Type	Mean Cloud Cover (eights)	Modal Visibility	Modal Precipitation	Mean Temperature (°C)	Mean Wind Speed (Beaufort Scale)	Modal Wind Direction
	3	Diurnal	7	> 2km	Light Persistent	5	6	NE
02/03/2023	2	Diurnal	8	> 2km	None	6	2	ENE
	4	Diurnal	8	> 2km	None	4	2	ENE
13/03/2023	5b	Diurnal	8	> 2km	Light Intermittent	6	8	SW
	6	Diurnal	8	1km - 2km	Heavy Persistent	7	8	SW
14/03/2023	3	Diurnal	6	> 2km	Light Intermittent	2	2	WNW
16/03/2023	2	Diurnal	8	1km - 2km	Light Intermittent	8	5	SSW
	4	Diurnal	8	1km - 2km	Light Persistent	9	4	SSW
28/03/2023	5b	Diurnal	8	1km - 2km	Heavy Persistent	3	6	S
	6	Diurnal	8	1km - 2km	Light Persistent	3	5	SSE
29/03/2023	1	Diurnal	8	> 2km	Light Persistent	11	5	S
03/04/2023	2	Diurnal	1	> 2km	None	5	2	SE
	4	Diurnal	1	> 2km	None	10	2	SE
04/04/2023	5b	Diurnal	1	> 2km	None	5	3	SE
	6	Diurnal	1	> 2km	None	9	2	SE
15/04/2023	5b	Diurnal	7	> 2km	None	17	3	S
	6	Diurnal	7	> 2km	None	15	2	S
25/04/2023	1	Diurnal	4	> 2km	None	8	1	NW
	2	Diurnal	3	> 2km	None	8	1	NE
	3	Diurnal	2	> 2km	None	5	2	NNW
	4	Diurnal	2	> 2km	None	6	0	S
02/05/2023	1	Diurnal	8	> 2km	None	10	2	SE
	3	Unknown	7	> 2km	None	16	2	S
09/05/2023	1	Diurnal	6	> 2km	None	8	3	SSW
	2	Diurnal	6	> 2km	None	11	3	SSW
	3	Diurnal	6	> 2km	None	13	4	SSW
10/05/2023	4	Diurnal	6	> 2km	None	14	4	SSE
	5b	Diurnal	6	> 2km	None	13	5	SSE
11/05/2023	6	Diurnal	6	> 2km	None	12	3	W
12/05/2023	1	Diurnal	3	> 2km	None	14	4	NE
	3	Diurnal	4	> 2km	None	10	4	NE
16/05/2023	5b	Diurnal	6	> 2km	None	12	4	WNW
	6	Diurnal	7	> 2km	None	11	5	WNW
01/06/2023	4	Diurnal	7	> 2km	None	11	2	E
	2	Diurnal	4	> 2km	None	11	5	NE
07/06/2023	1	Diurnal	8	> 2km	None	12	2	N

Survey Date	VP Number	VP Type	Mean Cloud Cover (eights)	Modal Visibility	Modal Precipitation	Mean Temperature (°C)	Mean Wind Speed (Beaufort Scale)	Modal Wind Direction
08/06/2023	3	Diurnal	6	> 2km	None	13	3	E
	2	Diurnal	4	> 2km	None	12	3	E
	4	Diurnal	4	> 2km	None	15	3	E
19/06/2023	5b	Diurnal	3	> 2km	None	15	3	SSW
	6	Diurnal	4	> 2km	None	21	4	W
20/06/2023	1	Diurnal	7	> 2km	None	15	3	N
	3	Diurnal	8	> 2km	Light Intermittent	13	3	N
21/06/2023	2	Diurnal	6	> 2km	Light Intermittent		3	S
	4	Diurnal	2	> 2km	None	16	3	SSW
22/06/2023	5b	Unknown	2	> 2km	None	22	4	NW
	6	Diurnal	2	> 2km	None	18	2	N
10/07/2023	5b	Diurnal	3	> 2km	None	14	3	S
	6	Diurnal	7	> 2km	Light Intermittent	16	4	S
11/07/2023	1	Diurnal	7	> 2km	Light Intermittent	16	3	S
	3	Diurnal	6	> 2km	None	14	4	SW
12/07/2023	2	Diurnal	3	> 2km	None	17	5	WSW
	4	Diurnal	6	> 2km	None	14	4	SSW
13/07/2023	2	Diurnal	8	> 2km	None	13	3	SW
	4	Diurnal	7	> 2km	None	16	4	W
24/07/2023	1	Diurnal	6	> 2km	None	13	4	N
	3	Diurnal	3	> 2km	None	17	4	NW
28/07/2023	5b	Diurnal	6	> 2km	None	17	4	WSW
	6	Diurnal	8	> 2km	None	16	3	SSW
09/08/2023	2	Diurnal	7	> 2km	None	14	3	SW
	4	Diurnal	8	> 2km	None	14	4	WSW
10/08/2023	1	Diurnal	4	> 2km	None	18	3	S
	3	Diurnal	4	> 2km	None	21	4	S
16/08/2023	5b	Diurnal	3	> 2km	None	18	1	NW
	6	Diurnal	7	> 2km	None	18	1	NW
18/08/2023	1	Diurnal	8	1km - 2km	None	15	6	E
	3	Diurnal	8	1km - 2km	None	18	4	E
24/08/2023	2	Diurnal	6	> 2km	Light Intermittent	17	4	W
	4	Diurnal	6	> 2km	Light Intermittent	15	4	W
29/08/2023	5b	Diurnal	5	> 2km	None	16	1	SW
	6	Diurnal	8	> 2km	Light Intermittent	13	1	SW
10/09/2023	5b	Diurnal	5	> 2km	None	16	3	SSW
	6	Diurnal	6	> 2km	None	11	3	SSW

Survey Date	VP Number	VP Type	Mean Cloud Cover (eights)	Modal Visibility	Modal Precipitation	Mean Temperature (°C)	Mean Wind Speed (Beaufort Scale)	Modal Wind Direction
12/09/2023	5b	Diurnal	8	> 2km	None	14	3	NE
	6	Diurnal	8	> 2km	None	13	3	NE
14/09/2023	2	Diurnal	6	> 2km	None	16	3	SW
	4	Diurnal	6	> 2km	None	18	3	SW
14/09/2023	1	Diurnal	6	> 2km	None	18	3	SSW
	3	Diurnal	7	> 2km	None	17	3	SW
22/09/2023	1	Diurnal	7	> 2km	Light Intermittent	12	4	S
	3	Diurnal	8	> 2km	Light Intermittent	11	4	W
12/10/2023	5b	Diurnal	1	> 2km	None	12	1	SW
	6	Diurnal	1	> 2km	None	10	1	SE
23/10/2023	4	Diurnal	4	> 2km	None	13	2	E
	2	Diurnal	4	> 2km	None	13	2	ENE
07/11/2023	5b	Diurnal	7	> 2km	None	9	4	W
	6	Diurnal	7	> 2km	Light Intermittent	8	4	WSW
17/11/2023	5b	Diurnal	2	1km - 2km	None	6	2	E
	6	Diurnal	6	1km - 2km	None	7	1	SW
05/12/2023	5b	Diurnal	7	> 2km	Light Intermittent	4	4	NE
	6	Diurnal	4	> 2km	None	3	4	NE
08/12/2023	5b	Diurnal	8	> 2km	Light Intermittent	5	5	S
	6	Diurnal	8	1km - 2km	Heavy Intermittent	7	3	SSW
13/12/2023	5b	Diurnal	5	> 2km	None	4	4	NNE
	6	Diurnal	7	> 2km	None	5	5	NNE
04/01/2024	5b	Diurnal	7	> 2km	None	5	5	SW
	6	Diurnal	7	> 2km	None	5	2	SSW
19/01/2024	5b	Diurnal	3	> 2km	None	-1	5	WSW
	6	Diurnal	5	> 2km	None	-2	5	WSW
08/04/2024	6	Diurnal	6	> 2km	None	9	3	S
29/04/2024	6	Diurnal	7	> 2km	None	5	4	S
29/05/2024	6	Diurnal	8	1km - 2km	Heavy Intermittent	9	4	W
14/06/2024	6	Diurnal	5	> 2km	Light Intermittent	10	3	W
25/06/2024	6	Diurnal	3	> 2km	None	18	1	SSW
27/06/2024	6	Diurnal	7	> 2km	Light Intermittent	12	3	WSW
15/07/2024	6	Diurnal	2	> 2km	None	15	1	SSE
16/07/2024	6	Diurnal	7	> 2km	Light Persistent	13	3	WNW
12/08/2024	6	Diurnal	7	> 2km	None	18	2	WSW
16/08/2024	6	Diurnal	6	> 2km	None	11	2	SSW

Appendix D. Vantage Point Survey Target Species Flights

Table 13: VP Flight Line Details (April 2022 - August 2024)

Date	Species	VP Number	Time First Observed	Number of Birds	Height Band	Time in Height	No. of Bird Seconds at Risk height	Average Height (m)	Record Type*
11/04/2022	Canada goose	3	11:53	3	B	92	276	60	Standard
11/04/2022	Greylag goose	3	12:27	1	B	56	56	50	Standard
11/04/2022	Greylag goose	5	15:37	2	B	46	92	60	Standard
12/04/2022	Canada goose	5	09:21	2	A	147	0	0	Standard
13/04/2022	Greylag goose	1	16:46	8	B	35	280	45	Standard
13/04/2022	Greylag goose	1	16:47	8	A	15	0	5	Standard
13/04/2022	Greylag goose	4	13:12	2	B	47	94	50	Standard
13/04/2022	Oystercatcher	1	16:07	1	B	47	47	60	Standard
14/04/2022	Canada goose	1	10:14	8	A	64	0	15	Standard
14/04/2022	Canada goose	4	14:12	2	B	73	146	50	Standard
14/04/2022	Goosander	1	08:32	2	A	47	0	10	Standard
04/05/2022	Lapwing	5	11:35	1	B	20	20	180	Standard
04/05/2022	Red kite	3	13:20	1	B	20	20	200	Standard
06/05/2022	Canada goose	1	09:35	2	A	60	0	10	Standard
06/05/2022	Curlew	2	12:20	1	B	32	32	100	Standard
06/05/2022	Lapwing	1	07:45	2	C	60	0	200	Standard
18/05/2022	Greylag goose	4	15:08	2	B	52	104	40	Standard
19/05/2022	Curlew	5	13:36	1	B	146	146	150	Standard
19/05/2022	Lapwing	5	12:25	2	A		0	15	Incidental
19/05/2022	Lapwing	5	15:23	2	B	42	84	50	Standard
20/05/2022	Greylag goose	4	10:03	2	B	46	92	25	Standard
20/05/2022	Greylag goose	4	11:14	2	B	32	64	60	Standard
09/06/2022	Lapwing	1	10:16	1	B	54	54	50	Standard
09/06/2022	Lapwing	1	10:16	1	C	38	0	200	Standard
09/06/2022	Lapwing	1	11:12	1	B	10	10	160	Standard
09/06/2022	Lapwing	1	11:28	1	A	10	0	15	Standard
09/06/2022	Lapwing	4	13:38	3	B	65	195	150	Standard
09/06/2022	Lapwing	4	13:53	1	B	90	90	100	Standard
09/06/2022	Lapwing	4	14:00	1	A	100	0	18	Standard
09/06/2022	Lapwing	4	14:10	2	A	40	0	19	Standard
09/06/2022	Lapwing	4	14:10	2	B	40	80	110	Standard
09/06/2022	Lapwing	4	14:17	1	B	50	50	100	Standard
09/06/2022	Lapwing	4	14:20	1	B	60	60	130	Standard
09/06/2022	Lapwing	4	14:37	3	B	75	225	100	Standard
09/06/2022	Lapwing	4	14:40	2	A	20	0	20	Standard
09/06/2022	Lapwing	4	14:40	2	B	60	120	100	Standard
09/06/2022	Lapwing	4	14:40	2	B	50	100	100	Standard
09/06/2022	Lapwing	4	14:57	1	A	15	0	15	Standard
09/06/2022	Lapwing	4	15:15	1	A	10	0	15	Standard
09/06/2022	Lapwing	4	15:30	2	B	30	60	25	Standard
09/06/2022	Merlin	1	10:52	1	B	65	65	150	Standard

Date	Species	VP Number	Time First Observed	Number of Birds	Height Band	Time in Height	No. of Bird Seconds at Risk height	Average Height (m)	Record Type*
09/06/2022	Oystercatcher	1	08:26	1	A	25	0	15	Incidental
10/06/2022	Lapwing	3	07:40	1	B	62	62	120	Standard
10/06/2022	Peregrine	5	12:44	1	B	60	60	140	Standard
10/06/2022	Peregrine	5	12:44	1	C	20	0	200	Standard
11/08/2022	Lapwing	1	15:40	5	A	47	0	10	Standard
11/08/2022	Lapwing	1	15:40	5	A	47	0	10	Standard
11/08/2022	Little egret	4	09:24	1	B	41	41	60	Standard
11/08/2022	Merlin	4	08:19	1	B	109	109	100	Standard
11/08/2022	Merlin	4	08:19	1	B	109	109	100	Standard
17/08/2022	Merlin	1	09:50	2	B	36	72	90	Standard
28/09/2022	Canada goose	4	08:52	12	A	11	0	10	Standard
29/09/2022	Canada goose	3	10:00	7	B	59	413	40	Standard
29/09/2022	Merlin	5	13:44	1	B	56	56	120	Standard
29/09/2022	Mute swan	3	09:46	3	C	52	0	220	Standard
29/09/2022	Snipe	3	10:09	1	B	23	23	90	Standard
13/10/2022	Canada goose	1	10:09	160	C	141	0	200	Standard
13/10/2022	Merlin	1	09:35	1	A	8	0	5	Standard
13/10/2022	Merlin	1	09:35	1	B	97	97	30	Standard
13/10/2022	Merlin	1	10:28	1	B	75	75	40	Standard
13/10/2022	Snipe	3	14:01	1	A	17	0	5	Incidental
26/10/2022	Merlin	2	13:34	1	B	21	21	60	Standard
26/10/2022	Merlin	2	13:34	1	C	36	0	200	Standard
09/11/2022	Greylag goose	1	09:12	7	B	79	553	50	Standard
09/11/2022	Greylag goose	1	09:12	7	B	79	553	50	Standard
10/11/2022	Snipe	3	08:46	1	A	19	0	4	Incidental
10/11/2022	Snipe	3	08:46	1	B	47	47	40	Incidental
05/12/2022	Canada goose	5	12:49	2	A	76	0	15	Standard
17/01/2023	Canada goose	1	12:58	14	B	32	448	100	Standard
09/02/2023	Merlin	5	11:29	2	B	112	224	100	Standard
09/02/2023	Merlin	5	11:29	2	B	81	162	60	Standard
09/02/2023	Merlin	5	11:29	2	C	65	0	200	Standard
09/02/2023	Merlin	5	11:34	2	B	33	66	50	Standard
09/02/2023	Merlin	5	11:41	1	A	37	0	10	Standard
09/02/2023	Merlin	5	11:41	1	B	81	81	35	Standard
10/02/2023	Lapwing	4	09:03	1	A	5	0	2	Standard
10/02/2023	Lapwing	4	09:07	7	A	2	0	5	Standard
10/02/2023	Lapwing	4	09:07	7	A	39	0	15	Standard
10/02/2023	Lapwing	4	09:07	7	B	25	175	50	Standard
11/04/2022	Canada goose	3	11:53	3	B	92	276	60	Standard
11/04/2022	Greylag goose	3	12:27	1	B	56	56	50	
11/04/2022	Greylag goose	5	15:37	2	B	46	92	60	Standard
12/04/2022	Canada goose	5	09:21	2	A	147	0	0	Standard
13/04/2022	Greylag goose	1	16:46	8	B	35	280	45	Standard
13/04/2022	Greylag goose	1	16:47	8	A	15	0	5	Standard

Date	Species	VP Number	Time First Observed	Number of Birds	Height Band	Time in Height	No. of Bird Seconds at Risk height	Average Height (m)	Record Type*
13/04/2022	Greylag goose	4	13:12	2	B	47	94	50	Standard
13/04/2022	Oystercatcher	1	16:07	1	B	47	47	60	Standard
14/04/2022	Canada goose	1	10:14	8	A	64	0	15	Standard
14/04/2022	Canada goose	4	14:12	2	B	73	146	50	Standard
14/04/2022	Goosander	1	08:32	2	A	47	0	10	Standard
04/05/2022	Lapwing	5	11:35	1	B	20	20	180	Standard
04/05/2022	Red kite	3	13:20	1	B	20	20	200	Standard
06/05/2022	Canada goose	1	09:35	2	A	60	0	10	Standard
06/05/2022	Curlew	2	12:20	1	B	32	32	100	Standard
06/05/2022	Lapwing	1	07:45	2	C	60	0	200	Standard
18/05/2022	Greylag goose	4	15:08	2	B	52	104	40	Standard
19/05/2022	Curlew	5	13:36	1	B	146	146	150	Standard
19/05/2022	Lapwing	5	12:25	2	A		0	15	Incidental
19/05/2022	Lapwing	5	15:23	2	B	42	84	50	Standard
20/05/2022	Greylag goose	4	10:03	2	B	46	92	25	Standard
20/05/2022	Greylag goose	4	11:14	2	B	32	64	60	Standard
09/06/2022	Lapwing	1	10:16	1	B	54	54	50	Standard
09/06/2022	Lapwing	1	10:16	1	C	38	0	200	Standard
09/06/2022	Lapwing	1	11:12	1	B	10	10	160	Standard
09/06/2022	Lapwing	1	11:28	1	A	10	0	15	Standard
09/06/2022	Lapwing	4	13:38	3	B	65	195	150	Standard
09/06/2022	Lapwing	4	13:53	1	B	90	90	100	Standard
09/06/2022	Lapwing	4	14:00	1	A	100	0	18	Standard
09/06/2022	Lapwing	4	14:10	2	A	40	0	19	Standard
09/06/2022	Lapwing	4	14:10	2	B	40	80	110	Standard
09/06/2022	Lapwing	4	14:17	1	B	50	50	100	Standard
09/06/2022	Lapwing	4	14:20	1	B	60	60	130	Standard
09/06/2022	Lapwing	4	14:37	3	B	75	225	100	Standard
09/06/2022	Lapwing	4	14:40	2	A	20	0	20	Standard
09/06/2022	Lapwing	4	14:40	2	B	60	120	100	Standard
09/06/2022	Lapwing	4	14:40	2	B	50	100	100	Standard
09/06/2022	Lapwing	4	14:57	1	A	15	0	15	Standard
09/06/2022	Lapwing	4	15:15	1	A	10	0	15	Standard
09/06/2022	Lapwing	4	15:30	2	B	30	60	25	Standard
09/06/2022	Merlin	1	10:52	1	B	65	65	150	Standard
09/06/2022	Oystercatcher	1	08:26	1	A	25	0	15	Incidental
10/06/2022	Lapwing	3	07:40	1	B	62	62	120	Standard
10/06/2022	Peregrine	5	12:44	1	B	60	60	140	Standard
10/06/2022	Peregrine	5	12:44	1	C	20	0	200	Standard
11/08/2022	Lapwing	1	15:40	5	A	47	0	10	Standard
11/08/2022	Lapwing	1	15:40	5	A	47	0	10	Standard
11/08/2022	Little egret	4	09:24	1	B	41	41	60	Standard
11/08/2022	Merlin	4	08:19	1	B	109	109	100	Standard
11/08/2022	Merlin	4	08:19	1	B	109	109	100	Standard

Date	Species	VP Number	Time First Observed	Number of Birds	Height Band	Time in Height	No. of Bird Seconds at Risk height	Average Height (m)	Record Type*
17/08/2022	Merlin	1	09:50	2	B	36	72	90	Standard
28/09/2022	Canada goose	4	08:52	12	A	11	0	10	Standard
29/09/2022	Canada goose	3	10:00	7	B	59	413	40	Standard
29/09/2022	Merlin	5	13:44	1	B	56	56	120	Standard
29/09/2022	Mute swan	3	09:46	3	C	52	0	220	Standard
29/09/2022	Snipe	3	10:09	1	B	23	23	90	Standard
13/10/2022	Canada goose	1	10:09	160	C	141	0	200	Standard
13/10/2022	Merlin	1	09:35	1	A	8	0	5	Standard
13/10/2022	Merlin	1	09:35	1	B	97	97	30	Standard
13/10/2022	Merlin	1	10:28	1	B	75	75	40	Standard
13/10/2022	Snipe	3	14:01	1	A	17	0	5	Incidental
26/10/2022	Merlin	2	13:34	1	B	21	21	60	Standard
26/10/2022	Merlin	2	13:34	1	C	36	0	200	Standard
09/11/2022	Greylag goose	1	09:12	7	B	79	553	50	Standard
09/11/2022	Greylag goose	1	09:12	7	B	79	553	50	Standard
10/11/2022	Snipe	3	08:46	1	A	19	0	4	Incidental
10/11/2022	Snipe	3	08:46	1	B	47	47	40	Incidental
05/12/2022	Canada goose	5	12:49	2	A	76	0	15	Standard
17/01/2023	Canada goose	1	12:58	14	B	32	448	100	Standard
09/02/2023	Merlin	5	11:29	2	B	112	224	100	Standard
09/02/2023	Merlin	5	11:29	2	B	81	162	60	Standard
09/02/2023	Merlin	5	11:29	2	C	65	0	200	Standard
09/02/2023	Merlin	5	11:34	2	B	33	66	50	Standard
09/02/2023	Merlin	5	11:41	1	A	37	0	10	Standard
09/02/2023	Merlin	5	11:41	1	B	81	81	35	Standard
10/02/2023	Lapwing	4	09:03	1	A	5	0	2	Standard
10/02/2023	Lapwing	4	09:07	7	A	2	0	5	Standard
10/02/2023	Lapwing	4	09:07	7	A	39	0	15	Standard
10/02/2023	Lapwing	4	09:07	7	B	25	175	50	Standard
01/03/2023	Merlin	1	10:06	1	B	47	47	80	Standard
02/03/2023	Canada goose	4	08:50	2	A	6	0	8	Standard
02/03/2023	Lapwing	4	08:42	3	A	32	0	10	Standard
02/03/2023	Lapwing	4	09:08	1	A	11	0	2	Standard
16/03/2023	Lapwing	4	11:53	2	A	16	0	8	Incidental
28/03/2023	Curlew	6	10:11	1	B	8	8	32	Standard
03/04/2023	Lapwing	4	14:30	1	B	33	33	25	Standard
03/04/2023	Lapwing	4	15:15	2	B	49	98	30	Standard
03/04/2023	Lapwing	4	15:55	1	B	106	106	120	Standard
04/04/2023	Curlew	5b	11:15	3	A	20	0	10	Standard
04/04/2023	Curlew	5b	11:15	3	B	100	300	50	Standard
04/04/2023	Curlew	5b	11:15	2	B	30	60	30	Standard
02/05/2023	Canada goose	1	10:53	3	B	48	144	150	Standard
09/05/2023	Shoveler	1	07:17	2	A	39	0	10	Standard
12/05/2023	Canada goose	1	14:07	4	B	39	156	100	Standard

Date	Species	VP Number	Time First Observed	Number of Birds	Height Band	Time in Height	No. of Bird Seconds at Risk height	Average Height (m)	Record Type*
16/05/2023	Curlew	6	11:48	1	A	23	0	15	Standard
01/06/2023	Lapwing	4	08:48	1	A	36	0	15	Standard
01/06/2023	Lapwing	4	08:50	1	A	42	0	20	Standard
01/06/2023	Lapwing	4	08:56	1	A	48	0	10	Standard
01/06/2023	Lapwing	4	09:00	1	A	20	0	10	Standard
01/06/2023	Lapwing	4	09:41	1	B	55	55	40	Standard
01/06/2023	Lapwing	4	11:21	1	A	23	0	10	Standard
01/06/2023	Lapwing	2	15:00	1	A	20	0	10	Incidental
12/07/2023	Tufted duck	2	13:12	2	B	49	98	50	Standard
12/07/2023	Tufted duck	4	10:12	2	B	136	272	70	Standard
24/07/2023	Gadwall	1	09:25	1	B	39	39	65	Standard
24/07/2023	Tufted duck	3	14:10	2	B	74	148	50	Standard
10/08/2023	Hobby	3	13:23	1	A	28	0	1	Standard
18/08/2023	Redshank	1	10:45	1	B	20	20	90	Standard
12/09/2023	Pink-footed goose	5b	14:15	27	B	60	1620	150	Standard
23/10/2023	Black-tailed godwit	2	13:34	6	B	49	294	65	Standard
23/10/2023	Shoveler	2	14:55	2	B	40	80	50	Standard
17/11/2023	Canada goose	5b	10:00	34	B	30	1020	30	Standard
08/04/2024	Curlew	6	15:09	2	B	17	34	50	Incidental
29/04/2024	Curlew	6	09:25	1	A	8	0	15	Standard
29/04/2024	Curlew	6	09:25	1	A	18	0	13	Standard
16/07/2024	Merlin	6	14:26	1	A	7	0	5	Standard

* Standard record type means that the bird was observed during the duration of the vantage point watch and was within the viewshed of the VP (formed from a 180° arc centred on a predetermined view bearing out to a distance of 2km).

Incidental record type means that the bird was observed out with the duration of the vantage point watch and / or was beyond the 2km limit. The table does not include ground records.

Scout Moor 2 Wind Farm



Figure 10-3-1
Vantage Point Activity - Target
Species (April - August 2024)

Key

- Assessment boundary
- Proposed turbine location
- Active Vantage Point
- Inactive Vantage Point

Target species registrations

- Kestrel
- Curlew
- Merlin

Height Band

- Below 30m height
- 30 - 180m height
- Above 180m height
- On ground
- Heard only



0 0.25 0.5 1
Kilometres

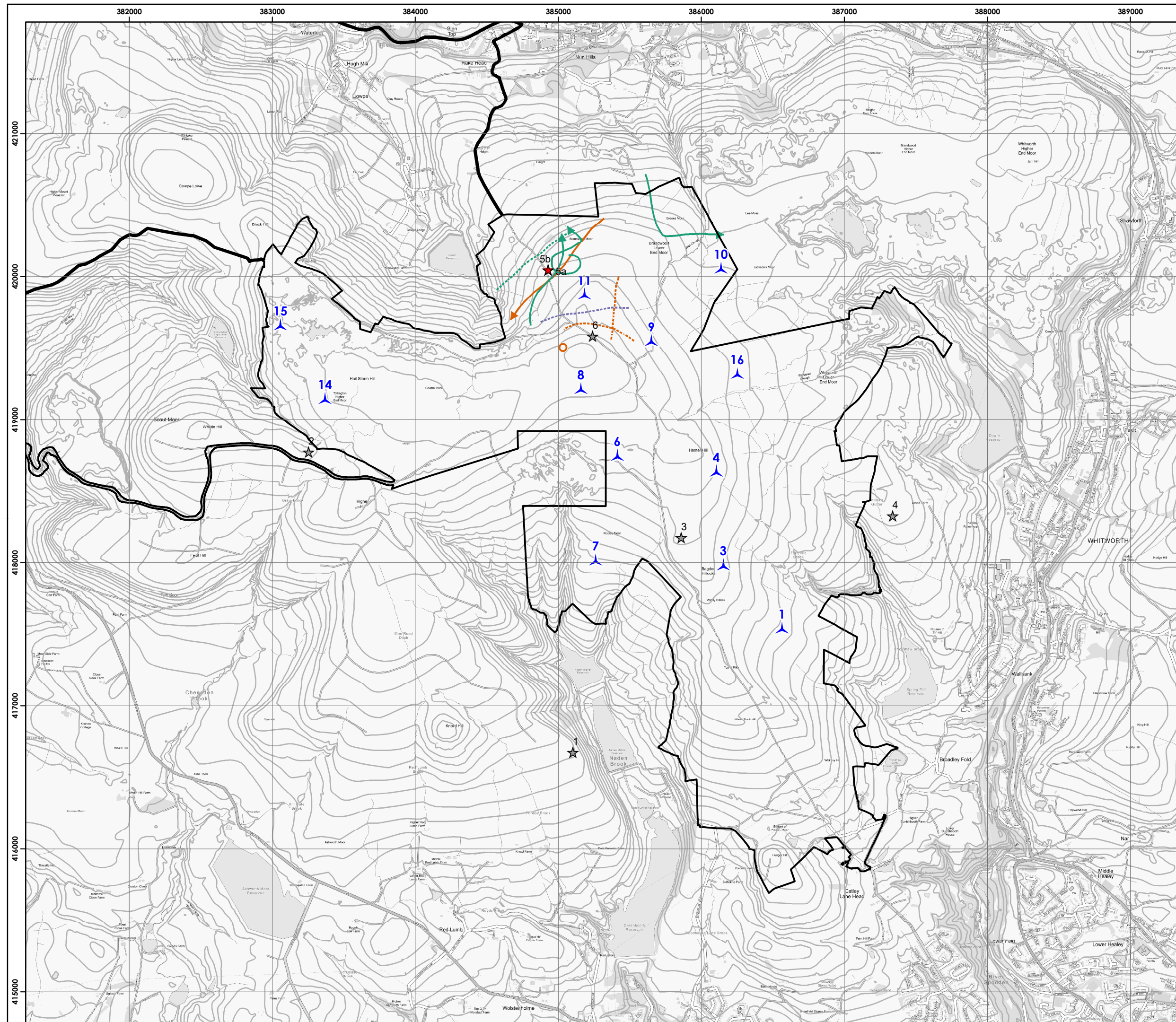


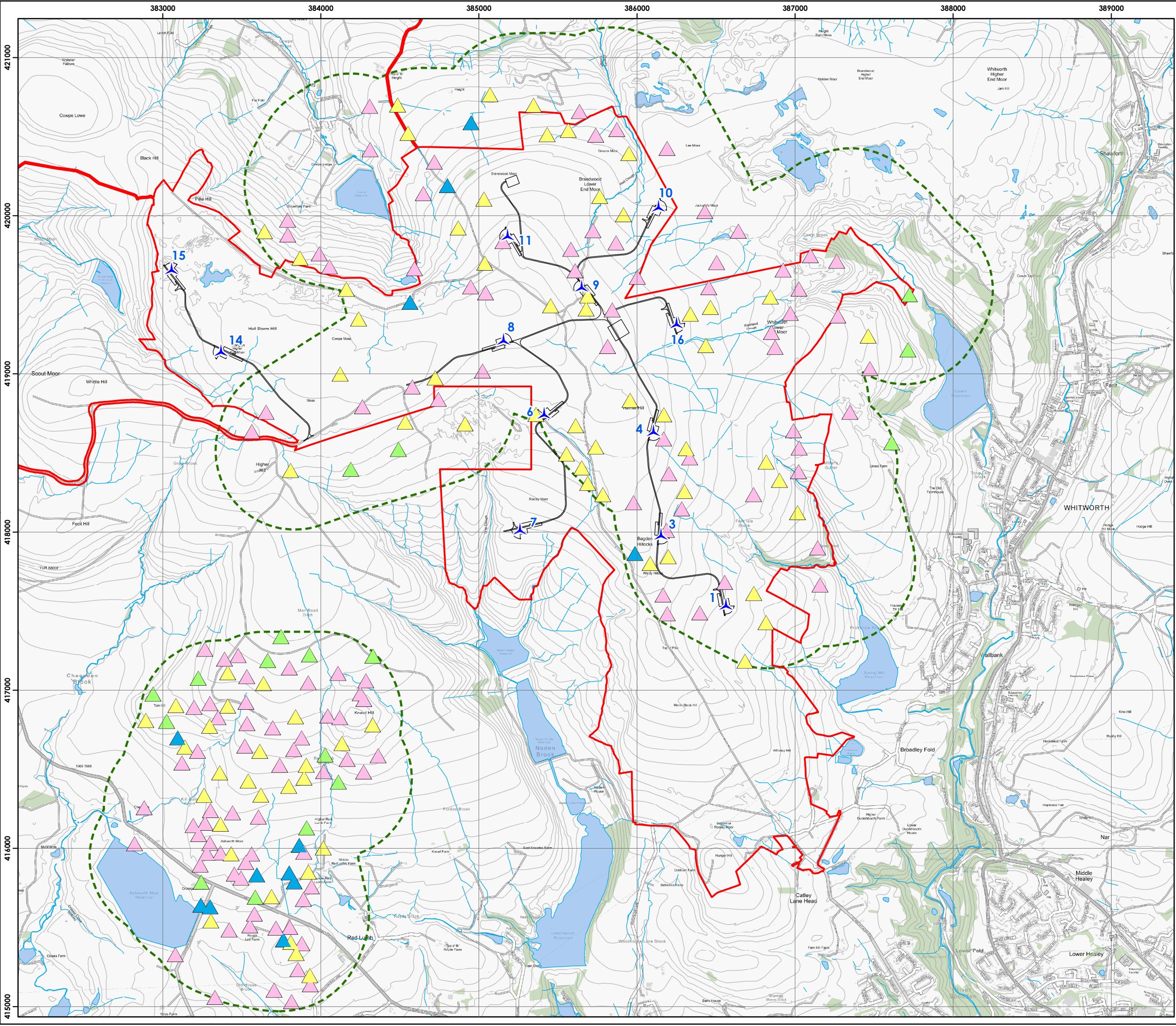
Scale @ A3:
1:25,000



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08/05/2026 TL02f 8706/OR/046d
Drawn by: KM Checked by: TH Approved by: HJ





Scout Moor 2 Wind Farm



Figure 10-3-2
Breeding Meadow Pipit
Territory Results 2024

Key

- Assessment boundary
- Proposed turbine location
- Proposed infrastructure
- Survey area

Breeding Birds Species

- Meadow Pipit

Breeding Birds Status

- Confirmed
- Probable
- Possible
- Non-breeding



0 0.5 1
Kilometres

N

Scale @ A3:
1:22,500

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