TOBIN

Bord na Móna Derrygreenagh Wind and Solar

Wind Farm Breeding Season 2025 Bird Surveys: Summary Report

Bord na Móna

BUILT ON KNOWLEDGE

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1. BACKGROUND

This report summarises the results of bird surveys undertaken by TOBIN at the proposed Derrygreenagh Wind and Solar Farm site during the Breeding Season 2025, for the survey period of April to September.

2. SUMMARY OF LOCAL BIRD ACTIVITY DURING THE BREEDING SEASON 2025

2.1 VANTAGE POINT SURVEYS

The Vantage Point (VP) surveys were carried in accordance with the methodology set out by the Scottish Natural Heritage (SNH) guidelines (SNH, 2017). Thirteen (13) VPs across the Derrygreenagh Wind and Solar Farm development site were set at fixed locations, which were strategically positioned to provide a maximum viewshed of the survey area over the survey period, the locations of which can be seen in Figure 2-1. The viewshed of a given VP extended to a distance of no greater than 2km and included an arc of no greater than 180 degrees, as per SNH (2017), which encompassed the study area for the VP surveys.

The 13 VPs were surveyed for 6 hours each on each month, summing up to a total of 468 hours for the survey period of April to September 2025 (Table 2-1).

Table 2-1: Summary of Summer Vantage Point Survey Effort Between April to September 2025

Vantage point	Apr	May	Jun	Jul	Aug	Sep	Total hours
1	6	6	6	6	6	6	**36**
2	6	6	6	6	6	6	**36**
3	6	6	6	6	6	6	**36**
4	6	6	6	6	6	6	**36**
5	6	6	6	6	6	6	**36**
6	6	6	6	6	6	6	**36**
7	6	6	6	6	6	6	**36**
8	6	6	6	6	6	6	**36**
9	6	6	6	6	6	6	**36**
10	6	6	6	6	6	6	**36**
11	6	6	6	6	6	6	**36**
12	6	6	6	6	6	6	**36**
13	6	6	6	6	6	6	**36**
Total hours	**78**	**78**	**78**	**78**	**78**	**78**	**468**

7°22'48"W
7°16'30"W
7°10'12"W
53°27'12"N
53°23'40"N
53°20'8"N
742800
737600
732400
644000
649500
655000





Legend

- Derrygreenagh Wind and Solar - Proposed Developments
- Proposed wind farm 500m buffer
- VPs
- Viewshed Coverage

0 1,000 2,000
Meters

NOTES

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING\
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE\
3. ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES\
4. ALL LEVELS RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Rev	Date	Description	By	Chkd.
A	18/06/2025	First issue	K.K	J..M

Client:

Bord na Móna

Project:

Bord na Mona - Derrygreenagh Wind and Solar

Title:

Figure 2-1:
Vantage Points Survey Locations and Viewshed

Scale @ A3: 1:60,000

Prepared by:	Checked by:	Date:
K.Kale	J.Martins	June 2025

TOBIN

Tel: +353-(0)1-8030406
Email: info@tobin.ie
www.tobin.ie

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The VP surveys registered observations of 22 species flying within VP viewsheds over this survey period (Table 2-2). Northern Lapwing (*Vanellus vanellus*) was the most abundant species observed flying during the VP surveys, with 289 sightings, including a flock of 120 individuals. The highest concentrations of Northern Lapwing flight records were over the Derryarkin and Drumman quarry ponds, cutover bog in the north-western part from Derryarkin Bog and northern part of the Derryhinch Bog.

Common Buzzard (*Buteo buteo*) and Common Kestrel (*Falco tinnunculus*) and were the most frequently recorded raptor species with 147 and 116 sightings respectively Observations typically involved between one and five Buzzards, and between one to three Kestrels. Both species were observed consistently across Derryarkin, Drumman and Derryhinch bogs. Additionally, Peregrine was recorded in all survey months, with a total 16 sightings, predominantly involving single bird, with one record of two birds and another of three birds, including one juvenile. A single Hen Harrier (*Circus cyaneus*) was observed in flight once in September.

Notably, fiveAnnex I species were observed in flight at the Derrygreenagh Wind and Solar Farm during the breeding season. These were: European Golden Plover (*Pluvialis apricaria*), Peregrine Falcon (*Falco peregrinus*), Great Egret (*Ardea alba*), Little Egret (*Egretta garzetta*) and Hen Harrier.

Overall, the flightlines recorded during the Vantage Point surveys represent a typical and expected flight patterns over the Derrygreenagh Wind and Solar Farm development site during the breeding season and similar to previous years of surveys. Species observations can be seen in Figure 2-2 and Figure 2-3.

Table 2-2: Summary of Vantage Point Surveys Records of Target Species in Flight Between April to

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Northern Lapwing	Red	-	72	24	71	2	120	-	**289**
Black-headed Gull	Amber	-	87	49	42	16	-	-	**194**
Common Buzzard	Green	-	33	25	29	24	17	19	**147**
European Golden Plover	Red	Annex I	97	-	-	-	-	42	**139**
Common Kestrel	Red	-	15	6	23	8	30	34	**116**
Mallard	Amber	-	3	12	2	19	62		**98**
Lesser Black-backed Gull	Amber	-	4	-	11	-	21	29	**65**
Grey Heron	Green	-	11	11	4	5	5	-	**36**
Mute Swan	Amber	-	6	8	7	6	4	3	**34**
Eurasian Sparrowhawk	Green	-	3	2	5	7	4	7	**28**
Peregrine Falcon	Green	Annex I	1	4	1	8	1	1	**16**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Common Snipe	Red	-	5	1	4	1	-	-	**11**
Common Ringed Plover	Amber	-	4	-	1	-	1	-	**6**
Eurasian Teal	Amber	-	-	-	-	-	4	-	**4**
Tufted Duck	Amber	-	4	-	-	-	-	-	**4**
Eurasian Woodcock	Red	-	-	-	3	-	-	-	**3**
Great Cormorant	Amber	-	-	-	-	-	3	-	**3**
Great Egret	Green	Annex I	-	-	2	-	-	-	**2**
Greylag Goose	Amber	-	2	-	-	-	-	-	**2**
Little Egret	Green	Annex I	-	-	-	-	-	1	**1**
Eurasian Curlew	Red	-	-	-	-	-	1	-	**1**
Hen Harrier	Amber	Annex I	-	-	-	-	-	1	**1**

Table 2-3 summarises the observations at each of the VPs. The highest diversity of flying target species was recorded at VP6 located in Drumman Bog, with 13 species, whereas the highest abundance of flying birds was recorded at VP10 located in Derryarking Bog, with 266 sightings of seven different species. Other VP locations of relevant flying activity abundance were VP12 (108 sightings), VP7 (184 sightings), and VP9 (140 sightings).

Table 2-3: Summary of Breeding Birds Observation Per Vantage Point (Target Species Flying Observation –April to September 2025)

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
VP1									
European Golden Plover	Red	Annex I	12	-	-	-	-	6	**18**
Lesser Black-backed Gull	Amber	-	-	-	-	-	11	5	**16**
Common Buzzard	Green	-	5	1	1	5	1	-	**13**
Common Kestrel	Red	-	-	-	6	2	1	2	**11**
Northern Lapwing	Red	-	1	3	-	-	-	-	**4**
VP2									
Common Kestrel	Red	-	5	-	4	1	2	7	**19**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Common Buzzard	Green	-	2	2	3	1	3	2	**13**
European Golden Plover	Red	Annex I	-	-	-	-	-	12	**12**
Peregrine Falcon	Green	Annex I	-	-	1	8	-	-	**9**
Grey Heron	Green	-	-	1	-	2	-	-	**3**
Eurasian Sparrowhawk	Green	-	-	-	-	1	-	-	**1**
VP3									
European Golden Plover	Red	Annex I	-	-	-	-	-	24	**24**
Lesser Black-backed Gull	Amber	-	-	-	-	-	10	-	**10**
Common Buzzard	Green	-	2	1	1	-	3	1	**8**
Common Kestrel	Red	-	2	1	1	-	2	1	**7**
Eurasian Sparrowhawk	Green	-	-	-	1	-	1	-	**2**
Grey Heron	Green	-	-	1		-	-	-	**1**
VP4									
Common Buzzard	Green	-	3	-	1	2	1	2	9
Lesser Black-backed Gull	Amber	-	-	-	-	-	-	6	6
Mallard	Amber	-	-	-	-	-	6	-	6
Grey Heron	Green	-	2	1	-	1	1	-	5
Common Kestrel	Red	-	-	-	1	1	1	2	5
Common Snipe	Red	-	-	-	4	-	-	-	4
Mute Swan	Amber	-	4	-	-	-	-	-	4
Eurasian Sparrowhawk	Green	-	-	-	-	-	-	2	2
VP5									
Common Buzzard	Green	-	10	6	2	1	-	1	**20**
Black-headed Gull	Amber	-	7	1	5	-	-	-	**13**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Common Kestrel	Red	-	-	2	1	-	3	4	**10**
Northern Lapwing	Red	-	-	-	4	-	-	-	**4**
Eurasian Sparrowhawk	Green	-	-	-	2	1	-	-	**3**
Peregrine Falcon	Green	Annex I	1	-	-	-	-	-	**1**
VP6									
Black-headed Gull	Amber	-	17	1	1	-	-	-	**19**
Common Buzzard	Green	-	2	-	3	2	1	2	**10**
Mute Swan	Red	-	-	2	-	6	-	-	**8**
Grey Heron	Green	-	1	3	1	1	1	-	**7**
Common Ringed Plover	Amber	-	4	-	1	-	1	-	**6**
Common Kestrel	Red	-	2	1	3	-	-	-	**6**
Eurasian Sparrowhawk	Green	-	-	-		2	1	2	**5**
Lesser Black-backed Gull	Amber	-	-	-	3	-	-	-	**3**
Northern Lapwing	Red	-	1	1	-	-	-	-	**2**
Great Egret	Green	Annex I	-	-	2	-	-	-	**2**
Little Egret	Green	Annex I	-	-	-	-	-	1	**1**
Peregrine Falcon	Green	Annex I	-	-	-	-	-	1	**1**
Hen Harrier	Amber	Annex I	-	-	-	-	-	1	**1**
VP7									
European Golden Plover	Red	Annex I	85	-	-	-	-	-	**85**
Northern Lapwing	Red	-	55	-	-	-	-	-	**55**
Common Buzzard	Green	-	6	3	3	1	3	2	**18**
Common Kestrel	Red	-	1	1	2	-	10	2	**16**
Lesser Black-backed Gull	Amber	-	-	-	6	-	-	-	**6**
Mute Swan	Amber	-	-	2	-	-	-	-	**2**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Mallard	Amber	-	-	1	-	-	-	-	**1**
Eurasian Sparrowhawk	Green	-	-	-	-	1	-	-	**1**
VP8									
Black-headed Gull	Amber	-	31	5	7	-	-	-	**43**
Common Buzzard	Green	-	2	3	8	2	4	1	**20**
Mallard	Amber	-	-	-	-	15	-	-	**15**
Lesser Black-backed Gull	Amber	-	-	-	-	-	-	4	**4**
Grey Heron	Green	-	1	2	-	-	-	-	**3**
Common Kestrel	Red	-	-	-	-	-	1	1	**2**
Mute Swan	Amber	-	2	-	-	-	-	-	**2**
Common Snipe	Red	-	1	-	-	-	-		**1**
VP9									
Mallard	Amber	-	3	-	-	-	55	-	**58**
Black-headed Gull	Amber	-	7	11	5	3	-	-	**26**
Common Kestrel	Red	-	3	1	1	3	5	11	**24**
Common Buzzard	Green	-	-	1	3	3	1	1	**9**
Grey Heron	Green	-	1	3	1	1	-	-	**6**
Eurasian Sparrowhawk	Green	-	-	2	-	1	-	1	**4**
Eurasian Teal	Amber	-	-	-	-	-	4	-	**4**
Mute Swan	Amber	-	-	-	2	-	2	-	**4**
Peregrine Falcon	Green	Annex I	-	3	-	-	-	-	**3**
Lesser Black-backed Gull	Amber	-	-	-	2	-	-	-	**2**
VP10									
Northern Lapwing	Red	-	6	19	67	2	120	-	**214**
Black-headed Gull	Amber	-	8	-	3	1	-	-	**12**
Common Buzzard	Green	-	1	1	3	4	-	2	**11**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Common Kestrel	Red	-	2		3		2	3	**10**
Lesser Black-backed Gull	Amber	-	-	-	-	-	-	6	**6**
Eurasian Sparrowhawk	Green	-	3	-	-	-	2	1	**6**
Mallard	Amber	-	-	3	-	-	-	-	**3**
Common Snipe	Red	-	1	1	-	1	-	-	**3**
Peregrine Falcon	Green	Annex I	-	1	-	-	-	-	**1**
VP11									
Black-headed Gull	Amber	-	-	8	-	7	-	-	**15**
Northern Lapwing	Red	-	8	-	-	-	-	-	**8**
Mallard	Amber	-	-	3	1	2	-	-	**6**
Common Buzzard	Green	-	-	1	1	-	-	2	**4**
Common Snipe	Red	-	3	-	-	-	-	-	**3**
Eurasian Woodcock	Red	-	-	-	3	-	-	-	**3**
Grey Heron	Green	-	1	-	-	-	1	-	**2**
Common Kestrel	Red	-	-	-	1	-	1	-	**2**
Eurasian Sparrowhawk	Green	-	-	-	1	1	-	-	**2**
Eurasian Curlew	Red	-	-	-	-	-	1	-	**1**
VP12									
Black-headed Gull	Amber	-	13	23	21	5	-	-	**62**
Mute Swan	Amber	-	-	3	5	-	2	1	**11**
Common Buzzard	Green	-	-	5	-	2	-	1	**8**
Grey Heron	Green	-	2	-	2	-	-	-	**4**
Tufted Duck	Amber	-	4	-	-	-	-	-	**4**
Mallard	Amber	-	-	1	-	2	1	-	**4**
Lesser Black-backed Gull	Amber	-	4	-	-	-	-	-	**4**
Great Cormorant	Amber	-	-	-	-	-	3	-	**3**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Common Kestrel	Red	-	-	-	-	1	2	-	**3**
Northern Lapwing	Red	-	1	1	-	-	-	-	**2**
Greylag Goose	Amber	-	2	-	-	-	-	-	**2**
Peregrine Falcon	Green	Annex I	-	-	-	-	1	-	**1**
VP13									
Lesser Black-backed Gull	Amber	-	-	-	-	-	-	8	8
Mallard	Amber	-	-	4	1	-	-	-	5
Grey Heron	Green	-	3	-	-	-	2	-	5
Common Buzzard	Green	-	-	1	-	1	-	2	4
Black-headed Gull	Amber	-	4	-	-	-	-	-	4
Mute Swan	Amber	-	-	1	-	-	-	2	3
Eurasian Sparrowhawk	Green	-	-	-	1	-	-	1	2
Common Kestrel	Red	-	-	-	-	-	-	1	1

During the Vantage Point surveys, 16 different species of birds were recorded not in flight (Table 2-4). Observations included a total of 244 birds swimming, roosting or foraging within VP viewsheds. These observations included large numbers of Mute Swan (*Cygnus olor*) – the most abundant species not in-flight during VP surveys at the Derrygreenagh Wind and Solar Farm between April and September 2025.

Three species were displaying a 'Confirmed' breeding behaviour, most notably Mute Swan with four observations of adult birds with cygnets at Drumman Bog (VP6) and Derryarkin Bog (VP10 and VP12). Additionally, one nest of Northern Lapwing was evidence of 'Confirmed' breeding of the species in the north Derryarkin Bog (VP10). Lastly, chicks of Common Moorhen (*Gallinula chloropus*) were seen foraging near VP7 in east section of Drumman Bog.

Table 2-4: Summary of 2025 Breeding Birds Vantage Point Surveys (Target Species Non-flying Observations- April to September 2025)

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Mute Swan	Amber	-	11	17	29	71	3	54	**185**
Meadow Pipit	Red	-	-	-	4	-	4	5	**13**
Common Snipe	Red	-	3	5	2	1	-	-	**11**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Mallard	Amber	-	-	6	-	-	-	-	**6**
Common Ringed Plover	Amber	-	-	2	-	-	-	3	**5**
Tufted Duck	Amber	-	-	3	2	-	-	-	**5**
Northern Lapwing	Red	-	-	4	-	-	-	-	**4**
Great Crested Grebe	Amber	-	1	2	1	-	-	-	**4**
Common Sandpiper	Amber	-	-	2	-	-	-	-	**2**
Peregrine Falcon	Green	Annex I	-	2	-	-	-	-	**2**
Common Moorhen	Green	-	-	-	-	2	-	-	**2**
Water Rail	Green	-	-	-	-	1	-	-	**1**
Great Cormorant	Amber	-	-	-	-	1	-	-	**1**
Common Kestrel	Red	-	-	-	-	-	1	-	**1**
Common Swift	Red	-	-	-	-	-	1	-	**1**
Eurasian Woodcock	Red	-	1	-	-	-	-	-	**1**

The observations of non-flying birds while surveying VP6 were more diverse and more abundant than any other VP. The viewshed of this VP overlooks the Drumman quarry ponds, resulting in a high number of records of water birds, notably Mute Swan (Table 2-5).

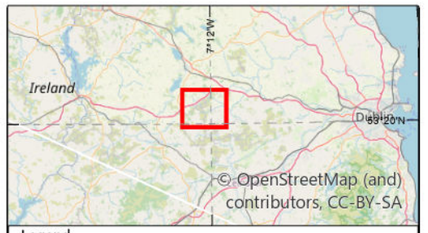
Table 2-5: Summary of 2025 Breeding Birds Observations Per Vantage Point Surveys (Target Species Non-Flying Observation – April to September 2025)

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sept	Total
VP1									
Northern Lapwing	Red	-	-	1	-	-	-	-	**1**
VP3									
Meadow Pipit	Red	-	-	-	4		4	5	**13**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sept	Total
Common Kestrel	Red	-	-	-	-	-	1	-	**1**
Common Swift	Red	-	-	-	-	-	1	-	**1**
VP4									
Mallard	Amber	-	-	4	-	-	-	-	**4**
Tufted Duck	Amber	-	-	3	-	-	-	-	**3**
Common Snipe	Red	-	-	1	-	-	-	-	**1**
Mute Swan	Amber	-	1	-	-	-	-	-	**1**
VP6									
Mute Swan	Amber	-	8	13	28	68	-	36	**153**
Common Ringed Plover	Amber	-	-	2	-	-	-	3	**5**
Great Crested Grebe	Amber	-	1	2	1	-	-	-	**4**
Common Sandpiper	Amber	-	-	2	-	-	-	-	**2**
Tufted Duck	Amber	-	-	-	2	-	-	-	**2**
Common Snipe	Red	-	-	1	-	-	-	-	**1**
Water Rail	Green	-	-	-	-	1	-	-	**1**
Eurasian Woodcock	Red	-	1	-	-	-	-	-	**1**
Great Cormorant	Amber	-	-	-	-	1	-	-	**1**
VP7									
Common Moorhen	Green	-	-	-	-	2	-	-	2
VP8									
Common Snipe	Red	-	1	2	1	-	-	-	4
VP9									
Common Snipe	Red	-	1	1	1	-	-	-	**3**
Peregrine Falcon	Green	Annex I	-	2	-	-	-	-	**2**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sept	Total
VP10									
Northern Lapwing	Red	-	-	3	-	-	-	-	**3**
Common Snipe	Red	-	1	-	-	1	-	-	**2**
VP12									
Mute Swan	Amber	-	2	4	1	3	3	18	**31**
Mallard	Amber	-	-	2	-	-	-	-	**2**

7°21'40"W
7°14'8"W
53°26'42"N
741000
734000
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R400
R441
M6
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(Fartullagh By)
Castlelost
Rahanine
Rathgarrett
Laurencetown
Fahy
Rathcobican
Toberdaly
Clonmor
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By)
re
Microsoft, Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



Legend

- Site Boundary
- 500m Buffer

Flightlines

- Black-headed Gull
- Buzzard
- Common Buzzard
- Common Kestrel
- Common Ringed Plover
- Common Snipe
- Eurasian Sparrowhawk
- Eurasian Woodcock
- European Golden Plover
- Great Egret
- Grey Heron
- Greylag Goose
- Lesser Black-backed Gull
- Mallard
- Mute Swan
- Northern Lapwing
- Peregrine Falcon
- Tufted Duck

Non - Flight Observations

- Common Ringed Plover
- Common Sandpiper
- Common Snipe
- Eurasian Woodcock
- Great Crested Grebe
- Mallard
- Meadow Pipit
- Mute Swan
- Northern Lapwing
- Peregrine Falcon
- Tufted Duck

0 1 2
Kilometers

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Rev	Date	Description	By	Chkd.
A	05/11/2025	First issue	K.K	L.S

Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2.2: Vantage Point Survey April-June 2025

Scale @ A3: 1:50,000

Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	November 2025

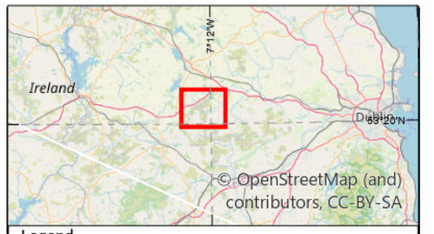
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Map Ref: 11458-047-VP-April..June25-TOB-A

Draft: A

7°21'40"W
7°14'8"W
53°26'42"N
741000
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R446
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R441
M6
Milltown
(Fartullagh B...)
Castlelost
Rahanine
Imore
Rathgarrett
Fahy
Laurencetown
Rathcobican
Toberdaly
Clon
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B
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Legend

- Site Boundary
- 500m Buffer

Flightlines

- Black-headed Gull
- Common Buzzard
- Common Kestrel
- Common Ringed Plover
- Common Snipe
- Eurasian Sparrowhawk
- European Golden Plover
- Grey Heron
- Lesser Black-backed Gull
- Mallard
- Mute Swan
- Northern Lapwing
- Peregrine Falcon
- Eurasian Curlew
- Eurasian Teal
- Hen Harrier
- Great Cormorant
- Little Egret

Non - Flight Observations

- Common Kestrel
- Common Moorhen
- Common Ringed Plover
- Common Snipe
- Common Swift
- Great Cormorant
- Meadow Pipit
- Mute Swan
- Water Rail

0 1 2
Kilometers

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Rev	Date	Description	By	Chkd.
A	05/11/2025	First issue	K.K	L.S

Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2-3: Vantage Point Survey July to September 2025

Scale @ A3:	1:50,000	
Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	November 2025

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Map Ref: 11458-048-VP-July..Sept25-TOB-A

Draft: A

2.2 BREEDING WATERBIRDS SURVEY

The Breeding Waterbirds survey involves conducting monthly counts during the survey season in wetland habitat locations within a study area, encompassing the Derrygreenagh Wind and Solar Farm development site and within a 2km buffer.

The Breeding Waterbirds survey involves conducting monthly counts during the survey season in wetland habitat locations within the study area for the proposed development, this study area encompasses the Derrygreenagh Wind and Solar Farm development site and suitable breeding waterbird habitat, such as lakes, rivers, canals, quarry ponds and turloughs within 2km from the site boundary as recommended by the SNH guidelines (SNH, 2017).

Counts at each wetland habitat site were conducted on the 'look-see' basis (Bibby *et al.* 2000), which involved scanning across the survey area and counting all the birds seen. Birds were recorded on a count form, along with relevant information, including numbers of waterbirds; the presence of marked birds (leg-ringed or neck-collared); and weather conditions.

A total of 3025 sightings of 26 species were recorded within the study area for Breeding Waterbirds Surveys between April and September 2025. Mute Swan and Mallard (*Anas platyrhynchos*) were the most abundant species recorded (Table 2-6). Species observations can be seen in Figure 2-4 and Figure 2-5.

Additionally, 9 target bird species were observed exhibiting 'Confirmed' breeding behaviour, with Mute Swan, Mallard, and Lapwing being the most common. The most common locations and the abundance of 'Confirmed' and 'Probable' sightings is listed below for the birds recorded for each target species (observations of incubation, nests, chicks, or nest protection).

Derryarkin Bog included 'Confirmed' breeding sightings of Mute Swan (three records of nests, seven of adults with cygnets), Black-headed Gull (*Chroicocephalus ridibundus*) (three records of nest), and Mallard (four records of female with ducklings), Lapwing (one record of a nest), Little Grebe (*Tachybaptus ruficollis*) (three records of a female with recently fledged young), Common Ringed Plover (*Charadrius hiaticula*) (three records of nest protection and chicks) and Common Moorhen (three record of chicks).

The 'Confirmed' breeding sightings on Drumman Bog included Mute Swan (8 records of nests, 26 records of adults with cygnets), Northern Lapwing (three records of juveniles), Great Crested Grebe (*Podiceps cristatus*) (one record of a nest, two records of chicks) Mallard (one record of female with ducklings), Black-headed Gull (one record of a nest), Common Ringed Plover (one record of chicks), and Little Grebe (one record of chicks).

Additionally, 'Confirmed' breeding observations were sighted within 2km buffer zone south of Ballybeg bog included Mute Swan (one record of a nest and two records of adults with cygnets) Lapwing (one record of nest protection displays). No "Confirmed" breeding was observed in Ballybeg and Derryhich during the Breeding Waterbird Surveys in 2025. Species observations of 'Confirmed' breeding behaviour can be seen in Figure 2-6.

Moreover, 8 target bird species were identified as 'Probable' breeders, notably Mute Swan (23 observations of pairs in the breeding habitat), Common Ringed Plover (8 records of alarm/agitated behaviour), and Great Crested Grebe (six records of pairs in breeding habitat). The areas of concentration for these 'Probable' breeding sightings included the Derryarkin

quarry ponds, wetlands in the southern part of Derryarkin Bog, Drumman quarry ponds, and wetlands located within the 2 km buffer zone south of Ballybeg Bog. Species observations of 'Confirmed' breeding behaviour can be seen in Figure 2-6.

Table 2-6: Summary of Breeding Waterbirds Survey Recorded Between April to September 2025

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Mute Swan	Amber	-	188	206	253	232	290	221	**1390**
Mallard	Amber	-	60	40	43	146	396	22	**707**
Tufted Duck	Amber	-	116	19	29	25	7	2	**198**
Northern Lapwing	Red	-	25	36	25	30	1	-	**117**
Eurasian Teal	Amber	-	2	1	-	-	27	65	**95**
Common Ringed Plover	Amber	-	21	24	23	16	5	-	**89**
Black-headed Gull	Amber	-	35	22	26	-	-	-	**83**
Common Snipe	Red	-	16	6	22	16	7	10	**77**
Grey Heron	Green	-	5	6	10	22	9	3	**55**
Common Moorhen	Green	-	27	3	5	6	11	3	**55**
Little Grebe	Amber	-	3	7	9	13	11	3	**46**
Great Crested Grebe	Amber	-	16	12	4	6	2	-	**40**
European Golden Plover	Red	Annex I	25	-	-	-	-	2	**27**
Little Egret	Green	Annex I	-	-	-	6	1	1	**8**
Lesser Black-backed Gull	Amber	-	-	-	-	-	8	-	**8**
Water Rail	Green	-	3	1	1	1	-	-	**6**
Common Sandpiper	Amber	-	-	-	1	2	-	1	**4**
Eurasian Curlew	Red	-	-	-	-	-	4		**4**
Common Kingfisher	Amber	Annex I	-	-	2	2	-	-	**4**
Great Egret	Green	Annex I	-	2	-	-	-	-	**2**
Dunlin	Red	Annex I	-	1	-	1	-	-	**2**
Common Redshank	Red	-	2	-	-	-	-	-	**2**
Green Sandpiper	Green	-	-	-	-	-	2	-	**2**
Great Cormorant	Amber	-	2	-	-	-	-	-	**2**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Black-tailed Godwit	Red	-	-	-	1	-	-	-	**1**
Smew	Amber	Annex I	1	-	-	-	-	-	**1**

2.3 BREEDING RAPTORS SURVEY

The Breeding Raptors survey involves conducting monthly counts during the survey season. Counts were conducted in suitable raptor habitat locations within a study area encompassing the Derrygreenagh Wind and Solar Farm development site and within a 2km buffer as recommended by the SNH guidelines (SNH, 2017).

Counts at each potential habitat site were conducted on the 'look-see' basis (Bibby *et al.*, 2000), which involved scanning across the survey area and counting all the birds seen. Birds were recorded on a count form, along with relevant information, such as evidence of breeding, including occupied nests, territorial behaviour, courtship, food pass, calls, and observation of raptor bird species in a suitable breeding habitat (Hardey *et al.*, 2013).

A total of 213 observations of four raptor species were recorded within study area during Raptors Surveys between April and September 2025. The most frequently recorded species were the Buzzard and Kestrel, with 138 and 55 sightings, respectively (Table 2-7). Species observations can be seen in Figure 2-4 and Figure 2-5.

The abundance of 'Confirmed' and 'Probable' sightings is listed below for the number of observations of breeding behaviour each target species (observations of incubation, nests, chicks, or nest protection).

The Breeding Raptor Surveys did not identify any raptor breeding record within the area of the Derrygreenagh Wind and Solar Farm development site. However, four 'Confirmed' sightings of Common Kestrel came from within the 2km buffer zone, of the same breeding pair at Rattin Castle – northeast of the Derryhinch Bog. Species observations of 'Confirmed' breeding behaviour can be seen in Figure 2-6.

Additionally, raptors sighted as 'Probable' breeders included the Buzzard (three records of courtship and flight displays) and Kestrel (five records of the same pair at Rattin Castle). There were no sightings suggesting breeding of Peregrine, at the site in 2025. Species observations of 'Confirmed' breeding behaviour can be seen in Figure 2-6.

Table 2-7: Summary of Raptors Recorded Between April - September 2025 (Breeding Raptors Survey)

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Common Buzzard	Green	-	23	24	21	27	23	20	**138**
Common Kestrel	Red	-	10	11	14	7	7	6	**55**
Eurasian Sparrowhawk	Green	-	2	4	6	4	2	-	**18**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Peregrine Falcon	Green	Annex I	-	1	-	-	-	1	**2**

7°21'40"W 7°14'8"W 7°6'36"W

53°26'42"N 53°19'24"N

741000 734000 727000

643000 650000 657000

Carrick (Fartullagh By)

Kinnegad

Athlone Road

Milltown (Fartullagh By)

Castlelost

Rahanine

Knockersally

Ballykilmore

Rathgarrett

Clonmore (Warrenstown By)

Laurencetown

Fahy

Monasteroris

Rathcobican

Toberdaly

Drumcod

Townparks (Philipstown Lower By)

R400 R446 R441 R401 N52 M6

Eurasian Sparrowhawk
Northern Lapwing

Northern Lapwing
Dunlin

Black-headed Gull
Eurasian Woodcock

Common Kingfisher
Peregrine Falcon
Common Ringer Plover
Eurasian Sparrowhawk
Northern Lapwing

Common Kestrel
Peregrine Falcon
Common Snipe

Common Buzzard
Eurasian Sparrowhawk

Tufted Duck
Great Crested Grebe
Mute Swan
Common Moorhen
Great Cormorant
Mallard
Northern Lapwing
Common Ringed Plover
Eurasian Teal

Great Crested Grebe
Common Ringed Plover
Northern Lapwing
European Golden Plover
Mute Swan
Tufted Duck

Common Snipe
Northern Lapwing
Common Moorhen
Mute Swan
Black-headed Gull

Common Ringed Plover
Peregrine Falcon
Northern Lapwing
Mallard
Meadow Pipit

Eurasian Woodcock
Mute Swan

Water Rail
Eurasian Woodcock
Kingfisher
Eurasian Sparrowhawk

Meadow Pipit
Common Moorhen
Grey Heron
Mute Swan
Common Snipe

Peregrine Falcon
Water Rail

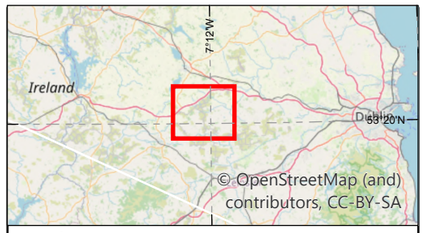
Great Egret
Northern Lapwing
Common Snipe
Common Moorhen
Mallard

Grey Heron
Northern Lapwing
Eurasian Teal
Water Rail
Common Snipe
Mallard
Great Egret

Little Grebe
Northern Lapwing
Tufted Duck
Common Moorhen
Water Rail
Mallard
Mute Swan

Northern Lapwing
Mallard

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community Earthstar Geographics



Legend

- Site Boundary
- 2km Buffer

Non - Flight Observations

- Grey Heron
- Mallard
- Mute Swan
- Little Grebe
- Great Crested Grebe
- Tufted Duck
- Water Rail
- Common Sandpiper
- Black-headed Gull
- Black-tailed Godwit
- Common Buzzard
- Common Kestrel
- Common Kingfisher
- Common Moorhen
- Common Redshank
- Common Ringed Plover
- Common Snipe
- Dunlin
- Eurasian Sparrowhawk
- Eurasian Teal
- European Golden Plover
- Great Cormorant
- Great Egret
- Northern Lapwing
- Peregrine Falcon
- Smew

0 1 2
Kilometers

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A	05/12/2025	First issue	K.K	L.S

Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2-4: Breeding Waders and Raptor Surveys April–June 2025 Observations

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Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	December 2025

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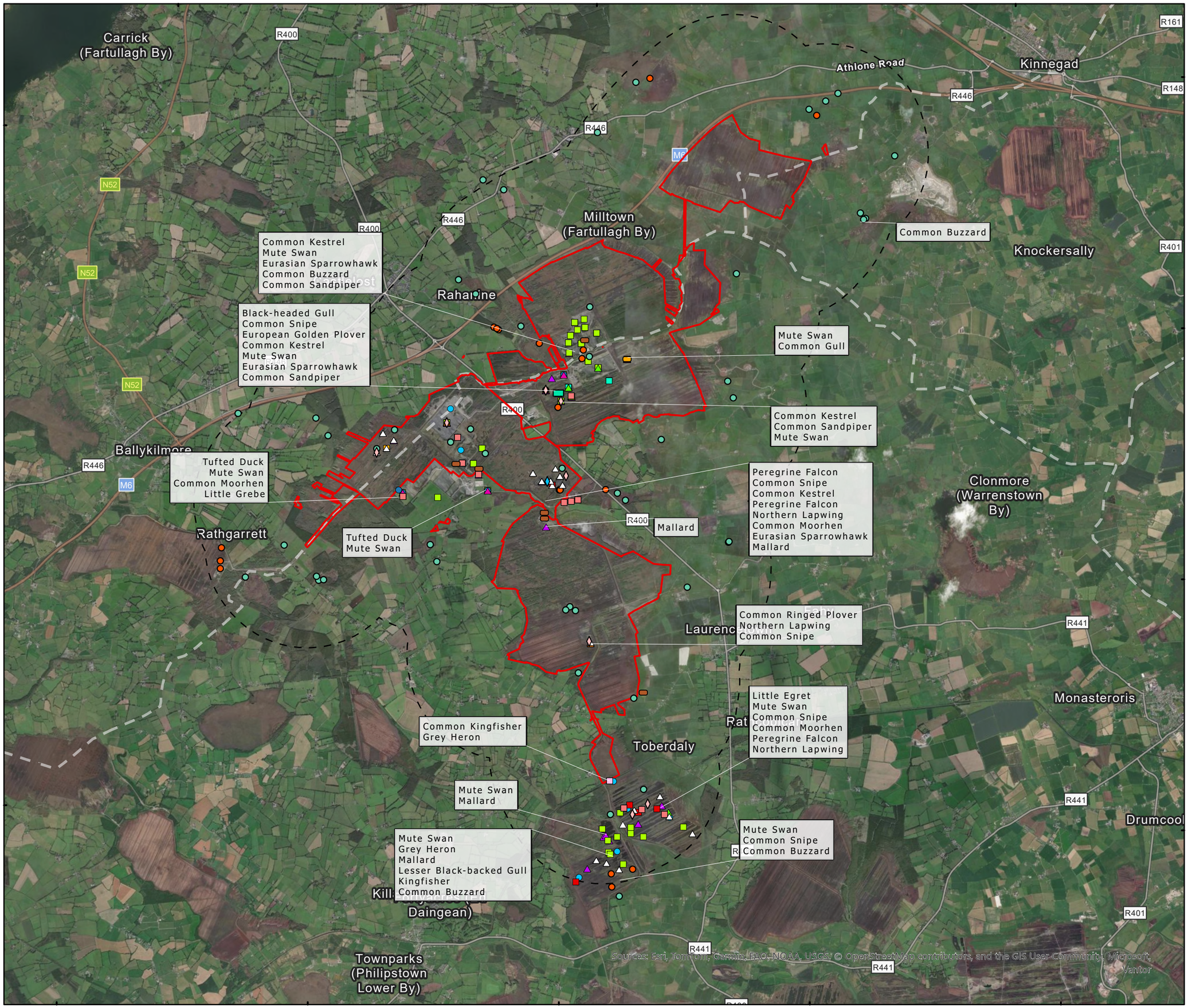
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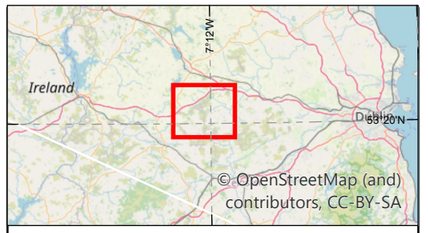
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53°26'42"N 53°19'24"N

745000 740000 735000 730000

640000 645000 650000 655000 660000





Legend

- Site Boundary
- 2 KM Buffer

Non - Flight Observations

- Grey Heron
- Mallard
- Lesser Black-backed Gull
- Mute Swan
- Little Grebe
- Great Crested Grebe
- Tufted Duck
- Water Rail
- Common Sandpiper
- Little Egret
- Common Buzzard
- Common Kestrel
- Common Kingfisher
- Common Moorhen
- Common Ringed Plover
- Common Snipe
- Dunlin
- Eurasian Sparrowhawk
- Eurasian Teal
- European Golden Plover
- Northern Lapwing
- Peregrine Falcon

0 1 2
Kilometers

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A	05/12/2025	First issue	K.K	L.S

Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2-5: Breeding Waders and Raptor Survey July-September 2025

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Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	December 2025

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53°26'42"N

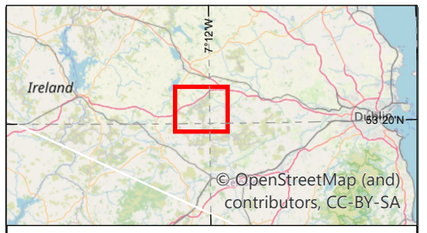
53°19'24"N

741000

734000

643000 650000 657000





Legend

- Site Boundary
- 2km Buffer

Non - Flight Observations

- Mallard
- Mute Swan
- Little Grebe
- Great Crested Grebe
- Black-headed Gull
- Common Kestrel
- Common Moorhen
- Common Ringed Plover
- Northern Lapwing

0 1 2
Kilometers

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Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2-6: 'Confirmed' Sightings of Breeding Waders and Raptors April to September 2025

Scale @ A3: 1:60,000

Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	December 2025

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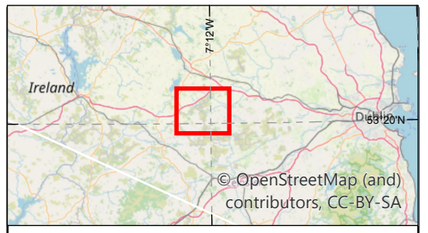
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53°26'42"N 53°19'24"N

745000 740000 735000 730000

645000 650000 655000 660000





Legend

- Site Boundary
- 2km Buffer

Non - Flight Observations

- Mallard
- Mute Swan
- Great Crested Grebe
- Tufted Duck
- Common Sandpiper
- Black-headed Gull
- Common Buzzard
- Common Kestrel
- Common Moorhen
- Common Ringed Plover
- Common Snipe
- Eurasian Teal
- Northern Lapwing

0 1 2
Kilometers

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A	05/12/2025	First issue	K.K	L.S

Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2-7: 'Probable' Sightings of Breeding Waders and Raptors April to September 2025 Observations

Scale @ A3:	1:60,000	
Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	December 2025

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2.4 BREEDING BIRD TRANSECT SURVEY

Breeding Bird transect surveys were conducted to establish the distribution and abundance of birds within the Derrygreenagh Wind and Solar Farm development site, and to allow the evaluation of the site's importance. The transect survey was adapted from CBS (2012), and involved 13 representative transects delineated across the Derrygreenagh Wind and Solar Farm site, the locations of which can be seen in Figure 2-8 and Figure 2-9. A total 1159 sightings of 24 species were recorded over the survey period (Table 2-8). Overall, Meadow Pipit (*Anthus pratensis*), Mute Swan, Black-headed Gull, Mallard,were the most abundant species recorded.

The most common locations and the abundance of 'Confirmed' and 'Probable' sightings is listed below for the birds recorded for each target species (observations of incubation, nests, chicks, or nest protection).

A total of 10 different target species were sighted expressing 'Confirmed' breeding behaviour within the boundary of the proposed site. Drumman Bog recorded the majority of 'Confirmed' breeding sightings. These were Mallard (3), Mute Swan (2), Common Ringed Plover (2), Northern Lapwing (1), and Common Buzzard (1). Derryarkin Bog recorded 'Confirmed' breeding sightings of Meadow Pipit (3), Black-headed Gull (2), Little Grebe (1) and Tufted Duck (*Aythya fuligula*) (1). Derryhinch Bog recorded 'Confirmed' breeding sightings of Meadow Pipit (3) and Northern Lapwing (1). Lastly, Ballybeg Bog recorded two observations of 'Confirmed' breeding behaviour of Sparrowhawk.

Species observations of 'Confirmed' breeding behaviour can be seen in Figure 2-10.

Additionally, 12 target bird species identified as 'Probable' breeders during the transect surveys, notably Northern Lapwing (23), Black-headed gull (7), and Common Ringed Plover (5). Species observations of 'Probable' breeding behaviour can be seen in Figure 2-11.

Table 2-8: Summary of breeding bird activity between April and September 2025

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Meadow Pipit	Red	-	21	41	87	100	56	10	315
Mute Swan	Amber	-	19	14	7	37	36	124	237
Black-headed Gull	Amber	-	8	77	51	7	-	-	143
Mallard	Amber	-	16	1	26	35	8	9	95
Northern Lapwing	Red	-	18	18	11	9	2	-	58
Tufted Duck	Amber	-	31	15	3	7	-	-	56
Common Buzzard	Green	-	11	4	8	11	8	9	51
Common Snipe	Red	-	11	3	11	3	6	8	42
European Golden Plover	Red	Annex I	27	-	-	-	-	-	27

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Common Ringed Plover	Amber	-	1	3	6	10	2	-	22
Common Kestrel	Red	-	2	2	2	4	5	5	20
Grey Heron	Green	-	3	2	3	5	5	2	20
Eurasian Teal	Amber	-	-	-	4	6	4	-	14
Eurasian Sparrowhawk	Green	-	1	3	2	2	4	2	14
Little Grebe	Amber	-	1	1	3	2	5		12
Common Moorhen	Green	-	2	2	-	-	3	4	11
Yellowhammer	Red	-	1	-	2	1	1		5
Great Crested Grebe	Amber	-	2	-	-	-	-	3	5
Whooper Swan	Amber	Annex I	4	-	-	-	-	-	4
Little Egret	Green	Annex I	-	-	-	-	2	-	2
Water Rail	Green	-	-	-	-	2	-	-	2
Peregrine Falcon	Green	Annex I	1	-	-	-	-	-	1
Common Gull	Amber	-	1	-	-	-	-	-	1
Green Sandpiper	Green	-	-	-	-	-	1	-	1

Transect 8_1, which follows a track along the Drumman quarry ponds, recorded the highest diversity of the target bird species (14) and the highest abundance of individual target bird species (405 sightings). Large numbers of Mute Swan and Mallard were frequently observed at this location throughout surveys (Table 2-9).

Table 2-9: Distribution of Breeding Bird Records During Transect Surveys Between April to September 2025

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
T1									
Meadow Pipit	Red	-	2	4	7	9	-	-	**22**
Common Kestrel	Red	-	2	-	1	1	1	-	**5**
Grey Heron	Green	-	-	-	1	-	-	2	**3**
Mute Swan	Amber	-	-	-		1	1	-	**2**
Common Buzzard	Green	-	-	-	1	-	1	-	**2**
Eurasian Sparrowhawk	Green	-	1	-	-	-	-	1	**2**
Yellowhammer	Red	-	1	-	-	-	-	-	**1**
Common Moorhen	Green	-	1	-	-	-	-	-	**1**
T2									
Meadow Pipit	Red	-	1	2	7	10	7	-	**27**
Common Snipe	Red	-	1	-	2	-	3	2	**8**
Common Buzzard	Green	-	1	1	1	1	-	-	**4**
Black-headed Gull	Amber	-	-	3	-	-	-	-	**3**
Common Kestrel	Red	-	-	1	-	-	1	-	**2**
Yellowhammer	Red	-	-	-	1	-	-	-	**1**
T3									
Meadow Pipit	Red	-	2	4	5	16	12	-	**39**
Grey Heron	Green	-	1	-	1	1	1	-	**4**
Common Ringed Plover	Amber	-	-	2	1	1	-	-	**4**
Common Buzzard	Green	-	2	-	-	-	1	1	**4**
Mallard	Amber	-	3	-	-	-	-	-	**3**

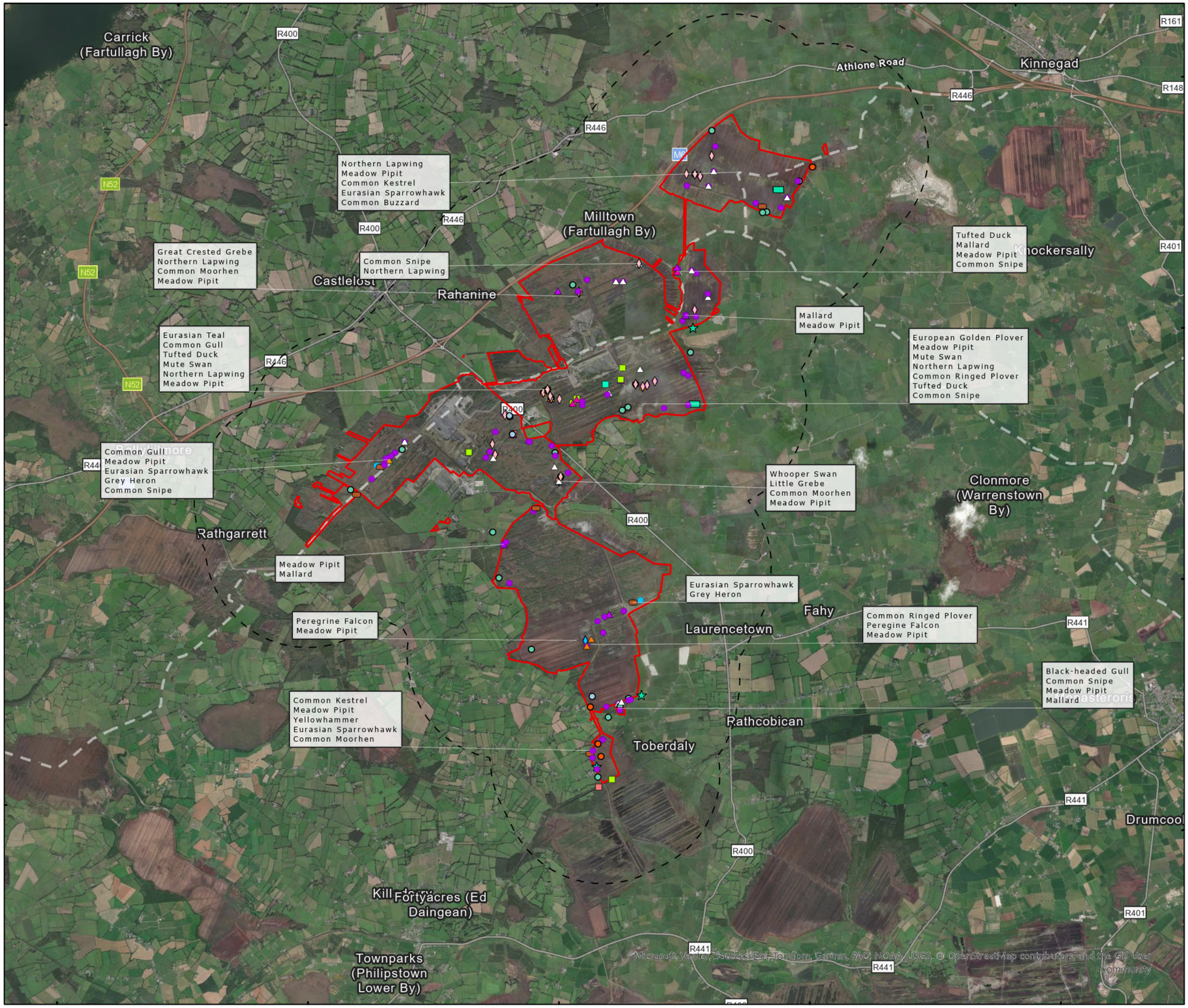
Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Common Kestrel	Red	-	-	-	-	1	1	1	**3**
Peregrine Falcon	Green	Annex I	1	-	-	-	-	-	**1**
Common Snipe	Red	-	-	-	-	1	-	-	**1**
Green Sandpiper	Green	-	-	-	-	-	1	-	**1**
Eurasian Sparrowhawk	Green	-	-	1	-	-	-	-	**1**
T4									
Meadow Pipit	Red	-	1	2	3	5	4	-	**15**
Common Buzzard	Green	-	1	-	1	3	1	-	**6**
Mallard	Amber	-	2	-	-	-	-	-	**2**
Grey Heron	Green	-	-	-	-	1	1	-	**2**
Common Kestrel	Red	-	-	-	-	-	-	1	**1**
Eurasian Sparrowhawk	Green	-	-	-	1	-	-	-	**1**
T5									
Black-headed Gull	Amber	-	-	66	48	5	-	-	**119**
Meadow Pipit	Red	-	2	3	8	4	-	-	**17**
Tufted Duck	Amber	-	-	6	1	7	-	-	**14**
Mallard	Amber	-	5	-	-	-	2	6	**13**
Little Grebe	Amber	-	1	1	3	1	5	-	**11**
Northern Lapwing	Red	-	5	2	-	-	-	-	**7**
Common Snipe	Red	-	4	-	3	-	-	-	**7**
Common Moorhen	Green	-	1	1	-	-	3	-	**5**
Whooper Swan	Amber	Annex I	4	-	-	-	-	-	**4**
Common Buzzard	Green	-	1	-	-	-	-	1	**2**
Mute Swan	Amber	-	2	-	-	-	-	-	**2**
Grey Heron	Green	-	-	1	-	-	-	-	**1**
Water Rail	Green	-	-	-	-	1	-	-	**1**
T6									

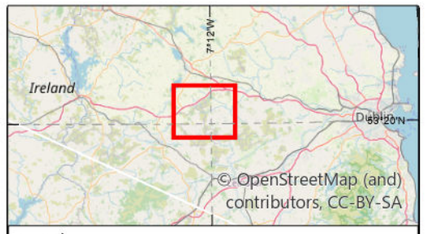
Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Meadow Pipit	Red	-	2	5	9	7	4	-	**27**
Common Buzzard	Green	-	2	-	-	1	1	1	**5**
Eurasian Sparrowhawk	Green	-	-	1	1	-	1	-	**3**
Common Snipe	Red	-	-	-	1	1	-	-	**2**
Lesser Black-backed Gull	Amber	-	-	-	-	1	-	-	**1**
Water Rail	Green	-	1	-	-	-	-	-	**1**
Common Gull	Amber	-	-	-	-	-	-	1	**1**
Common Kestrel	Red	-	1	-	-	-	-	-	**1**
T7									
Meadow Pipit	Red	-	1	2	6	9		-	**18**
Mute Swan	Amber	-	4	-	-	-	-	14	**18**
Black-headed Gull	Amber	-	-	4	3	-	-	-	**7**
Northern Lapwing	Red	-	4	1	-	-	-	-	**5**
Little Egret	Green	Annex I	-	-	-	-	2	-	**2**
Common Snipe	Red	-	-	-	1	-	-	-	**1**
Common Ringed Plover	Amber	-	-	-	-	1	-	-	**1**
Eurasian Sparrowhawk	Green	-	-	-	-	-	1	-	**1**
T8_1									
Mute Swan	Amber	-	11	14	6	37	36	108	**212**
Mallard	Amber	-	2	-	22	28	6	-	**58**
Tufted Duck	Amber	-	31	6	2	-	-	-	**39**
Northern Lapwing	Red	-	4	3	5	8	1	-	**21**
Meadow Pipit	Amber	-	1	5	6	3	4	-	**19**
Black-headed Gull	Amber	-	8	4	-	2	-	-	**14**
Eurasian Teal	Amber	-	-	-	4	6	4	-	**14**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Common Ringed Plover	Amber	-	1	1	2	6	2	-	**12**
Great Crested Grebe	Amber	-	2	-	-	-	-	3	**5**
Common Snipe	Red	-	2	-	-	-	-	1	**3**
Grey Heron	Green	-	-	-	-	1	1	1	**3**
Common Kestrel	Red	-	-	-	-	1	1	-	**2**
Common Moorhen	Green	-	-	-	-	-	-	2	**2**
Common Buzzard	Green	-	1	-	-	-	-	-	**1**
T8_2									
Meadow Pipit	Red	-	1	5	6	5	6	-	**23**
Common Buzzard	Green	-	1	1	3	2	2	3	**12**
Northern Lapwing	Red	-	1	2	2	-	1	-	**6**
Common Ringed Plover	Amber	-	-	-	3	2	-	-	**5**
Mute Swan	Amber	-	2	-	-	-	-	-	**2**
Common Snipe	Amber	-	-	1	-	-		1	**2**
European Golden Plover	Red	Annex I	2	-	-	-	-	-	**2**
Eurasian Sparrowhawk	Green	-	-	-	-	-	1	-	**1**
T9									
Meadow Pipit	Red	-	2	2	3	3	5	-	**15**
Northern Lapwing	Red	-	4	3	2	1	-	-	**10**
Common Snipe	Red	-	1	-	2	1	3	2	**9**
Common Buzzard	Green	-	-	2	-	2	1	-	**5**
Mallard	Amber	-	4	-	-	-	-	-	**4**
Grey Heron	Green	-	-	-	2	1	-	-	**3**
Common Moorhen	Green	-	-	1	-	-	-	-	**1**
Common Kestrel	Red	-	-	-	-	-	-	1	**1**

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Eurasian Sparrowhawk	Green	-	-	-	-	1	-	-	**1**
T10									
Meadow Pipit	Red	-	3	2	10	14	6	-	**35**
Mallard	Amber	-	-	1	4	7	-	-	**12**
Common Snipe	Red	-	2	-	2	-	-	1	**5**
Yellowhammer	Red	-	-	-	1	1	1	-	**3**
Tufted Duck	Amber	-	-	3	-	-	-	-	**3**
Grey Heron	Red	-	1	1	-	-	1	-	**3**
Common Moorhen	Amber	-	-	-	-	-	-	2	**2**
Eurasian Sparrowhawk	Green	-	-	-	-	-	-	1	**1**
Northern Lapwing	Red	-	-	1	-	-	-	-	**1**
Little Grebe	Amber	-	-	-	-	1	-	-	**1**
T11									
Meadow Pipit	Red	-	1	2	6	8	3	4	**24**
Northern Lapwing	Red	-	-	6	2	-	-	-	**8**
Common Buzzard	Green	-	-	-	1	1	1	3	**6**
Mallard	Amber	-	-	-	-	-	-	3	**3**
Common Snipe	Red	-	1	1	-	-	-	1	**3**
Common Kestrel	Red	-	-	-	1	-	-	1	**2**
T12									
Meadow Pipit	Red	-	2	3	11	7	5	6	34
European Golden Plover	Red	Annex I	25	-	-	-	-	-	25
Common Buzzard	Green	-	2	-	1	1	-	-	4
Common Kestrel	Red	-	-	1	-	1	1	-	3
Eurasian Sparrowhawk	Green	-	-	1	-	1	1	-	3
Common Snipe	Red	-	-	1	-	-	-	-	1

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Apr	May	Jun	Jul	Aug	Sep	Total
Grey Heron	Green	-	-	-	-	-	-	1	1





Legend

- Site Boundary
- 2 KM Buffer

Non - Flight Observations

- Grey Heron
- Mallard
- Mute Swan
- Little Grebe
- Common Gull
- Meadow Pipit
- Whooper Swan
- Great Crested Grebe
- Tufted Duck
- Black-headed Gull
- Common Buzzard
- Common Kestrel
- Common Moorhen
- Common Ringed Plover
- Common Snipe
- Eurasian Sparrowhawk
- Eurasian Teal
- European Golden Plover
- Northern Lapwing
- Peregrine Falcon
- Yellowhammer

0 1 2
Kilometers

NOTES

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Rev	Date	Description	By	Chkd.
A	05/11/2025	First issue	K.K	L.S

Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2-8: Transect Survey April-June 2025

Scale @ A3:	1:70,000	
Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	November 2025

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Tel: +353-(0)1-8030406
Email: info@tobin.ie
www.tobin.ie

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Map Ref: 11458-053-April..June25-TR-TOB-A

Draft: A

7°21'40"W 7°14'8"W 7°6'36"W

53°26'42"N 53°19'24"N

741000 734000 727000

643000 650000 657000

Carrick (Fartullagh By)

Eurasian Sparrowhawk
Meadow Pipit
Grey Heron
Eurasian Teal

Common Kestrel
Common Buzzard
Eurasian Sparrowhawk

Common Snipe
Grey Heron
Northern Lapwing
Black-headed Gull

Northern Lapwing
Black-headed Gull
Water Rail
Tufted Duck
Mute Swan
Great Crested Grebe

Tufted Duck
Common Moorhen
Mallard
Black-headed Gull
Great Crested Grebe
Mute Swan

Peregrine Falcon
Common Kestrel
Meadow Pipit

Meadow Pipit
Eurasian Sparrowhawk
Common Buzzard

Common Ringed Plover
Meadow Pipit

Common Kestrel
Eurasian Sparrowhawk
Meadow Pipit
Common Buzzard

Townparks (Philipstown Lower By)

Rathgarrett

Ballykilmore

Castlelost

Rahanine

Milltown (Fartullagh By)

Athlone Road

Kinnegad

Knockersally

Meadow Pipit
Mallard
Tufted Duck

Meadow Pipit
Mallard

European Golden Plover
Meadow Pipit
Mute Swan
Northern Lapwing
Common Ringed Plover
Tufted Duck
Common Snipe

Whooper Swan
Little Grebe
Common Moorhen
Meadow Pipit

Clonmore (Warrenstown By)

Laurencetown

Common Ringed Plover
Peregine Falcon
Meadow Pipit

Black-headed Gull
Common Snipe
Meadow Pipit

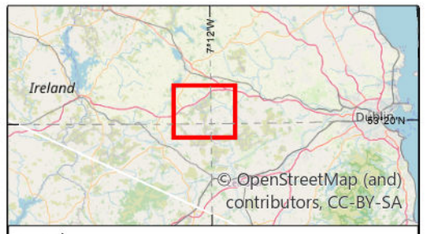
Rathcobican

Toberdaly

Monasteroris

Drumcool

R400 R446 R161 R148 R401 R441 N52 M6



Legend

- Site Boundary
- 2km Buffer

Non - Flight Observations

- Grey Heron
- Mallard
- Mute Swan
- Little Grebe
- Common Gull
- Meadow Pipit
- Whooper Swan
- Great Crested Grebe
- Tufted Duck
- Black-headed Gull
- Common Buzzard
- Common Kestrel
- Common Moorhen
- Common Ringed Plover
- Common Snipe
- Eurasian Sparrowhawk
- Eurasian Teal
- European Golden Plover
- Northern Lapwing
- Peregrine Falcon
- Yellowhammer

0 1 2
Kilometers

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Rev	Date	Description	By	Chkd.
A	05/11/2025	First issue	K.K	L.S

Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2-9: Transect Survey July-September 2025

Scale @ A3:	1:70,000	
Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	November 2025

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Map Ref: 11458-054-July..Sept25-TR-TOB-A

Draft: A

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7°21'40"W
7°14'8"W
53°26'42"N
53°19'24"N
741000
734000
643000
650000
657000

Milltown
(Fartullagh By)
Castlelost
Rahanine
Rathgarrett
Laurencetown
Fahy
Rathcobican
Toberdaly
Clonm
(Warren
By

R446
R400
R441
M6

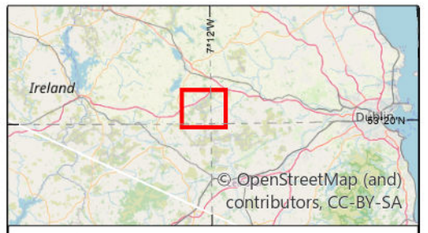
Northern Lapwing
Common Gull

Mute Swan
Common Gull

Tufted Duck
Black-headed Gull
Meadow Pipit

Meadow Pipit

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Legend

- Site Boundary
- 2km Buffer

Non - Flight Observations

- Mallard
- Mute Swan
- Little Grebe
- Meadow Pipit
- Tufted Duck
- Black-headed Gull
- Common Buzzard
- Common Ringed Plover
- Eurasian Sparrowhawk
- Northern Lapwing

0 1 2
Kilometers

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Rev	Date	Description	By	Chkd.
A	04/11/2025	First issue	K.K.	L.S

Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2-10: 'Confirmed' Breeding Sightings During Transect Surveys April to September 2025

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Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	November 2025

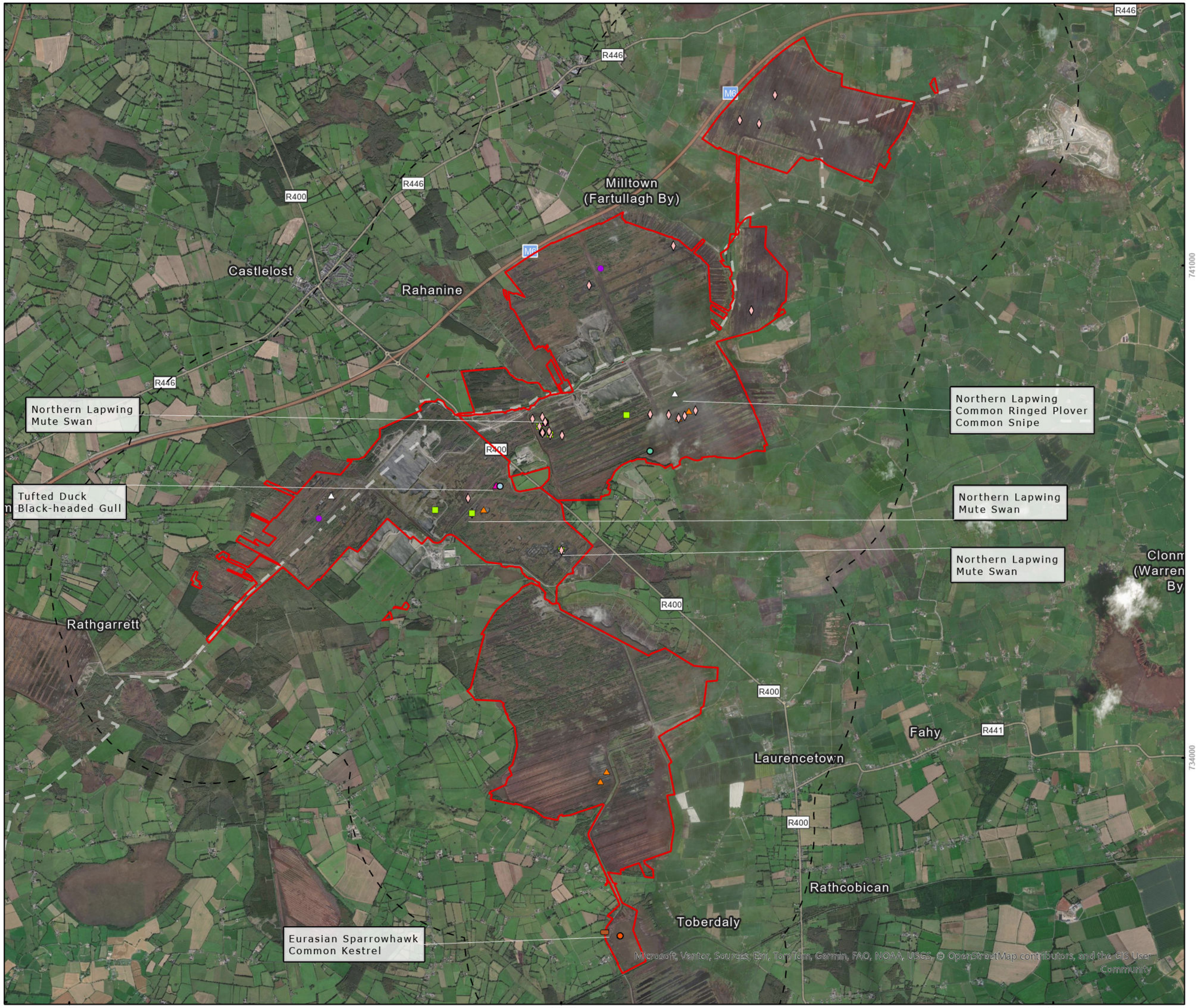
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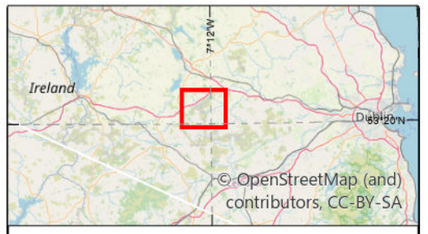
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Map Ref: 11458-055-April..Sept25-TR..Con-TOB-A

Draft: A

7°21'40"W
7°14'8"W
53°26'42"N
53°19'24"N
741000
734000
643000
650000
657000





Legend

- Site Boundary
- 2km Buffer

Non - Flight Observations

- Mute Swan
- Meadow Pipit
- Tufted Duck
- Black-headed Gull
- Common Buzzard
- Common Kestrel
- Common Ringed Plover
- Common Snipe
- Eurasian Sparrowhawk
- Eurasian Teal
- Northern Lapwing

0 1 2
Kilometers

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Rev	Date	Description	By	Chkd.
A	04/11/2025	First issue	K.K	L.S

Client: Bord na Móna

Project: Bord na Mona Derrygreenagh Wind and Solar

Title: Figure 2-11: 'Probable' Breeding Sightings During Transect Surveys April to September 2025

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K.Kale	L.Shinkwin	November 2025

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Tel: +353-(0)1-8030406
Email: info@tobin.ie
www.tobin.ie

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Map Ref: 11458-056-April..Sept25-TR..Prob-TOB-A

Draft: A

2.5 WOODCOCK TRANSECT SURVEYS

Woodcock (*Scolopax rusticola*) Transect surveys were undertaken in areas of suitable habitat within the area of the proposed project. The survey methodology followed the recommendations of Gilbert *et al.* (1998) for surveying Woodcock, with three survey visits undertaken between May and June 2025. Surveyors were in position from an hour before sunset until an hour after sunset. The aim of the survey was to record the presence of roding (displaying) male Woodcock and, thereby, establish the distribution and abundance of the species in the study area. A total of 58 roding Woodcock males were recorded, along with one other target species – Common Snipe (*Gallinago gallinago*) (Table 2-10).

Figure 2-12 displays the observations recorded during the Woodcock Transect Survey at the locations identified in Table 2-11.

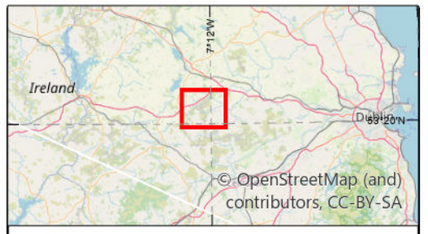
Table 2-10: Summary of Woodcock Transect Surveys in May and June 2025

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Number of observations over the survey period
Eurasian Woodcock	Red	-	56
Common Snipe	Red	-	4

Table 2-11: Distribution of Woodcock Transect Surveys in May and June 2025

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Number of observations over the survey period
WK1			
Eurasian Woodcock	Red	-	13
Common Snipe	Red	-	3
WK2			
Eurasian Woodcock	Red	-	26
WK3			
Eurasian Woodcock	Red	-	10
WK4			
Eurasian Woodcock	Red	-	9
Common Snipe	Red	-	1

7°21'40"W
7°14'8"W
53°26'42"N
53°19'24"N
643000
650000
657000
741000
734000
R446
R400
R441
M6
Milltown
(Fartullagh By)
Castlelost
Rahanine
Rathgarrett
Fahy
Laurencetown
Rathcobican
Toberdaly
Clonm
(Warren
By
more
Microsoft, Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



Legend

- Site Boundary
- 2km Buffer

Non - Flight Observations

- Common Snipe
- Eurasian Woodcock

0 1 2
Kilometers

NOTES

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING\
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE\
3. ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES\
4. ALL LEVELS RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Rev	Date	Description	By	Chkd.
A	04/11/2025	First issue	K.K	L.S

Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2-12: Woodcock transects survey observation 2025

Scale @ A3: 1:50,000

Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	November 2025

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Tel: +353-(0)1-8030406
Email: info@tobin.ie
www.tobin.ie

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Map Ref: 11458-057-April..Sept25-WCK-TOB-A

Draft: A

2.6 INCIDENTAL SIGHTINGS

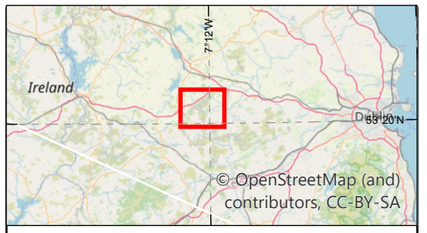
Incidental sightings were recorded at the Derrygreenagh Wind and Solar Farm site, but outside of the scheduled surveys. This could be sighting of target species observed during the walk to the VP location, during VP breaks, or outside of the viewshed. Incidental sightings are
summarised in Table 2-12. Species observations can be seen in Figure 2-13.

Table 2-12: Summary of Incidental Sighting Surveys between April to September 2025.

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Number of observations over the survey period
Black-headed Gull	Amber	-	257
Tufted Duck	Amber	-	30
Mallard	Amber	-	11
Little Grebe	Amber	-	9
Common Pochard	Red	-	4
Peregrine Falcon	Green	Annex I -	2
Eurasian Sparrowhawk	Amber	-	1
Common Kestrel	Red	-	1
Northern Lapwing	Red	-	1

7°21'40"W
7°14'8"W
53°26'42"N
53°19'24"N
741000
734000
643000
650000
657000

Tufted Duck
Black-headed Gull
Common Pochard



Legend

- Site Boundary
- 2km Buffer

Non - Flight Observations

- Mallard
- Little Grebe
- Tufted Duck
- Black-headed Gull
- Common Kestrel
- Common Pochard
- Eurasian Sparrowhawk
- Northern Lapwing
- Peregrine Falcon

0 1 2
Kilometers

NOTES

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3. ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES\
4. ALL LEVELS RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Rev	Date	Description	By	Chkd.
A	03/11/2025	First issue	K.K	L.S

Client: Bord na Móna

Project: Bord na Mona - Derrygreenagh Wind and Solar

Title: Figure 2-13: Incidental sightings observations April-September 2025

Scale @ A3: 1:50,000

Prepared by:	Checked by:	Date:
K.Kale	L.Shinkwin	November 2025

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Email: info@tobin.ie
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Map Ref: 11458-058-ICSO-S.BO-TOB-A

Draft: A

3. CONCLUSION

This report summarises the results of bird surveys undertaken by TOBIN at the proposed Derrygreenagh Wind and Solar development site during the Breeding Season 2025 (April to September).

In total, 40 target species of birds were identified at the proposed Derrygreenagh Wind and Solar development site and hinterland during breeding season during all surveys. The most common birds sighted were Mute Swan, Mallard, Black-headed Gull, and Lapwing. Additionally, five raptor species were recorded at the site – Buzzard, Kestrel, Sparrowhawk (*Accipiter nisus*), Peregrine, and Hen Harrier.

Target species recorded at the Derrygreenagh Wind and Solar site and hinterland during the breeding bird season 2025 included eight species listed in Annex I of the Birds Directive. These were: European Golden Plover, Peregrine Falcon, Little Egret, Whooper Swan (*Cygnus cygnus*), Great Egret,Common Kingfisher (*Alcedo atthis*), Smew (*Mergellus albellus*), and Hen Harrier. Additionally,

12 species classified by Gilbert *et al.* (2021) as Red Listed [i.e. Northern Lapwing, Meadow Pipit, European Golden Plover, Common Snipe, Eurasian Woodcock, Yellowhammer (*Emberiza citronella*), Eurasian Curlew (*Numenius Arquata*), Common Redshank (*Tringa tetanus*), Dunlin (*Calidris alpina*), Black-tailed Godwit (*Limosa limosa*), Common Swift (*Apus apus*)] were seen. Notably, 14 target bird species were sighted as 'Confirmed' breeders, and 17 as 'Probable' breeders. The areas of the most significant breeding activity of the target bird species within the proposed Derrygreenagh Wind and Solar development site are Derryarkin Bog and Drumman Bog, especially the vicinity of the quarry ponds at both locations.

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