



APPENDIX 7-4

SURVEY DATA

Appendix 7-4 – Survey Data

Coole Wind Farm
Development, Co. Westmeath



DOCUMENT DETAILS

Client: **Coole Wind Farm Ltd**

Project Title: **Coole Wind Farm Development, Co. Westmeath**

Project Number: **200445**

Document Title: **Appendix 7-4 – Survey Data**

Document File Name: **Ch7 Ornithology F - 2021.03.15 – 200445**

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Rev	Status	Date	Author(s)	Approved By
01	Draft	02/11/2020	MP	MP
02	Draft	27/01/2021	MP	PC
03	Final	15/03/2021	MP	PC

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1.

APPENDIX 7-4 (SURVEY DATA)

Table 1-1 Whooper Swan Vantage Point Survey Data

Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Vantage Point Surveys				Notes on habitat and activity	Surveyor
							Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)		
WS001	25/11/2015	4	Whooper Swan	7	09:11:00	25			25			J.Cy
WS002	25/11/2015	4	Whooper Swan	3	10:31:00	15		15				J.Cy
WS003	14/03/2016	4	Whooper Swan	4	10:02:00	90		90				J.Cy
WS004	29/11/2016	4	Whooper Swan	1	09:17	35		5	30		lake	PT
WS005	03/10/2018	VP3	Whooper Swan	9	18:42:02	212		0	200		PB4, (Cutover bog) (Mixed) broadleaved woodland GS4, (Wet grassland) Travelling	PM
WS006	23/03/2020	3	Whooper Swan	5	06:12:00	110			75		W, (Woodland and scrub) PB4, (Cutover bog) GA1, (Improved agricultural grassland) Direct flight - migrating?	PT
WS007	23/03/2020	3	Whooper Swan	14	06:45:00	100			40		PB4, (Cutover bog) GA1, (Improved agricultural grassland) Direct flight - migrating?	PT
WS008	24/03/2020	5	Whooper Swan	1	07:57:00	115		30			GA1, (Improved agricultural grassland) Flying	PT

Table 1-2 Whooper Swan Winter Transect Survey Data

Map Ref.	Survey Date	Time of observation	Species	Number of birds	Winter Transect Surveys		Comments	Surveyor
					Habitat and Activity			
WS001	30/10/2016		Whooper Swan	12	on flood; 4 later headed S/SE over site			PT
WS002	28/01/2017		Whooper Swan	8				PT
WS001	20/03/2020		Whooper Swan	3	PB4, (Cutover bog) GA1, (Improved agricultural grassland) Travelling			DM

Table 1-3 Whooper Swan Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
27/10/2015	Lough Iron	Whooper Swan	4		DM
27/10/2015	Lough Kinale	Whooper Swan	3		DM
27/10/2015	Sheelin	Whooper Swan	2		DM
20/12/2015	Kinale	Whooper Swan	7		
21/12/2015	Derravaragh	Whooper Swan	4		
16/01/2016	Derravaragh	Whooper Swan	40		
17/01/2016	Kinale	Whooper Swan	1		
31/10/2016	Derravaragh	Whooper Swan	4		PT
15/11/2016	Sheelin	Whooper Swan	11		PT-JC
15/11/2016	Sheelin	Whooper Swan	3		PT-JC
28/11/2016	Derravaragh	Whooper Swan	17		PT
17/12/2016	Sheelin	Whooper Swan	3		PT-JC
29/12/2016	Derravaragh	Whooper Swan	18		PT-JC
29/12/2016	Kinale	Whooper Swan	4		PT-JC
16/01/2017	Area N. of Lough Bane	Whooper Swan	7		J. Carey
28/01/2017	Area N. of Lough Bane	Whooper Swan	8		P. Troake
01/02/2017	Lough Derravaragh	Whooper Swan	12		J. Carey
16/02/2017	Area N. of Lough Bane	Whooper Swan	7		J. Carey
16/02/2017	Lough Bane	Whooper Swan	7	Group of 7 flying over the big. See map. This is an incidental sighting.	J. Carey
16/02/2017	Lough Derravaragh	Whooper Swan	15	Two groups (5 & 10) flying west at 15m for approx 30 secs. Most likely roosted close by overnight (flights at 7:20 & 7:30)	J. Carey
16/02/2017	Lough Derravaragh	Whooper Swan	3		J. Carey
16/02/2017	Lough Derravaragh	Whooper Swan	4	Group of 4 swans flying along the Inny River	J. Carey
05/04/2017	Lough Derravaragh	Whooper Swan	18		PM
19/04/2018	Lough Iron	Whooper Swan	3		PM
09/10/2018	Lough Iron	Whooper Swan			DM
06/11/2018	Lough Iron	Whooper Swan	8		PM
08/11/2018	Lough Iron	whooper swan	69		PM
08/11/2018	Lough Iron	whooper swan	13		PM
08/11/2018	Lough Iron	whooper swan	11		PM
08/11/2018	Lough Iron	whooper swan	16		PM
08/11/2018	Lough Iron	whooper swan	29		PM
08/11/2018	Lough Iron	whooper swan	7		PM
08/11/2018	Lough Iron	whooper swan	21		PM
08/11/2018	Lough Iron	whooper swan	8		PM

20/11/2018	Lough Derravaragh	Whooper Swan	4		PM
21/11/2018	Lough Iron	whooper swan	27		PM
21/11/2018	Lough Iron	whooper swan	6		PM
21/11/2018	Lough Iron	whooper swan	5		PM
21/11/2018	Lough Iron	whooper swan	18		PM
06/12/2018	Lough Iron	Whooper Swan	59		PM
06/12/2018	Lough Iron	Whooper Swan	63	roosting on lake	PM
06/12/2018	Lough Iron	Whooper Swan	7	roosting on lake	PM
09/01/2019	Lough Iron	Whooper Swan	38	WS feeding in fields	PM
09/01/2019	Lough Iron	Whooper Swan	10		PM
09/01/2019	Lough Iron	Whooper Swan	17		PM
09/01/2019	Lough Iron	Whooper Swan	6		PM
09/01/2019	Lough Iron	Whooper Swan	4		PM
09/01/2019	Lough Iron	Whooper Swan	12		PM
09/01/2019	Lough Iron	Whooper Swan	26		PM
09/01/2019	Lough Iron	Whooper Swan	25		PM
10/01/2019	Lough Bane	Whooper Swan	7	3Ad & 4Juv	PM
10/01/2019	Lough Derravaragh	Whooper Swan	2		PM
28/01/2019	Lough Iron	Whooper Swan	65	feeding until going to roost	PM
28/01/2019	Lough Iron	Whooper Swan	5		PM
28/01/2019	Lough Iron	Whooper Swan	10		PM
28/01/2019	Lough Iron	Whooper Swan	7		PM
28/01/2019	Lough Iron	Whooper Swan	55		PM
28/01/2019	Lough Iron	Whooper Swan	8		PM
28/01/2019	Lough Iron	Whooper Swan	12		PM
28/01/2019	Lough Iron	Whooper Swan	10		PM
13/02/2019	Lough Iron	Whooper Swan	96	Feeding in fields until moving to roost	PM
13/02/2019	Lough Iron	Whooper Swan	4		PM
13/02/2019	Lough Iron	Whooper Swan	17		PM
13/02/2019	Lough Iron	Whooper Swan	84		PM
13/02/2019	Lough Iron	Whooper Swan	18		PM
27/02/2019	Lough Iron	Whooper Swan	10+	Heard flying in low; not seen	PM
13/03/2019	Lough Iron	Whooper Swan	14		PM
13/03/2019	Lough Iron	Whooper Swan	72		PM
13/03/2019	Lough Iron	Whooper Swan	10		PM
13/03/2019	Lough Iron	Whooper Swan	8		PM
13/03/2019	Lough Iron	Whooper Swan	57		PM
27/03/2019	Lough Iron	Whooper Swan	28		PM
27/03/2019	Lough Iron	Whooper Swan	7		PM
27/03/2019	Lough Iron	Whooper Swan	3		PM
27/03/2019	Lough Iron	Whooper Swan	5		PM
22/10/2019	Lough Iron	whooper swan	15		PM
05/11/2019	Lough Iron	whooper swan	24		PM

05/11/2019	Lough Iron	whooper swan	20		PM
05/11/2019	Lough Iron	whooper swan	12		PM
18/11/2019	Lough Iron	whooper swan	14		PM
18/11/2019	Lough Iron	whooper swan	8		PM
09/12/2019	Lough Iron	Whooper Swan	4		PM
09/12/2019	Lough Iron	Whooper Swan	5		PM
18/12/2019	Lough Iron	Whooper Swan	2		PM
29/12/2019	Lough Iron	Whooper Swan	2		PM
29/12/2019	Lough Iron	Whooper Swan	30		PM
29/12/2019	Lough Iron	Whooper Swan	30		PM
29/12/2019	Lough Iron	Whooper Swan	5		PM
08/01/2020	Lough Iron	Whooper Swan	9		PM
08/01/2020	Lough Iron	Whooper Swan	6		PM
21/01/2020	Lough Iron	Whooper Swan	5		PM
21/01/2020	Lough Iron	Whooper Swan	9		PM
21/01/2020	Lough Iron	Whooper Swan	18		PM
21/01/2020	Lough Iron	Whooper Swan	23		PM
21/01/2020	Lough Iron	Whooper Swan	19		PM
21/01/2020	Lough Iron	Whooper Swan	35		PM
21/01/2020	Lough Iron	Whooper Swan	53		PM
06/02/2020	Lough Iron	Whooper Swan	20	Flying into lake	PM
06/02/2020	Lough Iron	Whooper Swan	25	Flying into lake	PM
06/02/2020	Lough Iron	Whooper Swan	13	Flying into lake	PM
06/02/2020	Lough Iron	Whooper Swan	4	Flying into lake	PM
18/02/2020	Lough Iron	Whooper Swan	7	Flying into lake	PM
09/03/2020	Lough Iron	whooper swan	3		PM
09/03/2020	Lough Iron	whooper swan	8		PM
24/03/2020	Lough Iron	whooper swan	3		PM
24/03/2020	Lough Iron	whooper swan	32		PM
	Lough Iron	whooper swan	69	feeding in field until moving to roost	PM
	Lough Iron	whooper swan	13		PM
	Lough Iron	whooper swan	11		PM
	Lough Iron	whooper swan	16		PM
	Lough Iron	whooper swan	29		PM
	Lough Iron	whooper swan	7		PM
	Lough Iron	whooper swan	21		PM
	Lough Iron	whooper swan	8		PM
	Lough Iron	whooper swan	27	feeding in fields	PM
	Lough Iron	whooper swan	6		PM
	Lough Iron	whooper swan	5		PM
	Lough Iron	whooper swan	18		PM



Map Legend

- EIAR Site Boundary
- Turbine Location
- 500m Buffer of Turbine Location
- Vantage Point Location
- Whooper Swan VP Flight (2015/17)
- Whooper Swan VP Flight (2018/20)

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Drawing Title

Whooper Swan VP Flights

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-1-1
Scale	Date
1:30000	25.01.2021



Map Legend

- EIAR Site Boundary
- Turbine Location
- Winter Transect Survey Area (500m) (2015/17)
- Winter Transect Survey Area (500m) (2018/20)
- Whooper Swan Observation (2015/17)
- Whooper Swan Observation (2018/20)

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Drawing Title
Whooper Swan Winter
Transect Survey Observations
Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-5-1

Table 1-4 Greenland White-fronted Goose Vantage Point Survey Data

Vantage Point Surveys												
Map Ref.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
WG001	03/10/2018	VP3	White-fronted Goose	12	18:33:22	149		0	30		Mixed broadleaved/conifer woodland PB4, (Cutover bog) Travelling	PM
WG002	20/02/2019	VP3	White-fronted Goose	15	17:46:38	136		0	136		PB4, (Cutover bog) WD4, (Conifer plantation)	PM

Table 1-5 Greenland White-fronted Goose Waterfowl Survey Data

Waterfowl Surveys					
Date	Location Ref.	Species	Number of birds	Notes on habitat and activity	Surveyor
23/10/2018	Lough Iron	White-fronted Goose	80	Ref number WG001	DM
08/11/2018	Lough Iron	White-fronted Goose	5		PM
08/11/2018	Lough Iron	White-fronted Goose	15		PM
21/11/2018	Lough Iron	White-fronted Goose	160		PM
09/01/2019	Lough Iron	White-fronted Goose	4		PM
09/01/2019	Lough Iron	White-fronted Goose	40	40+ Silhouette against woodland	PM
09/01/2019	Lough Iron	White-fronted Goose	100	Estimated 100+ silhouetted against wood in almost darkness	PM
09/01/2019	Lough Iron	White-fronted Goose	85	feeding until going to roost	PM
28/01/2019	Lough Iron	White-fronted Goose	138	Circled a few times before landing on lake	PM
28/01/2019	Lough Iron	White-fronted Goose	9		PM
13/02/2019	Lough Iron	White-fronted Goose	68	Feeding in field until moving to roost	PM
13/02/2019	Lough Iron	White-fronted Goose	13		PM
13/02/2019	Lough Iron	White-fronted Goose	117		PM
27/02/2019	Lough Iron	White-fronted Goose	80	Minimum count due to bad visibility	PM
13/03/2019	Lough Iron	White-fronted Goose	104		PM
27/03/2019	Lough Iron	White-fronted Goose	15		PM
22/10/2019	Lough Iron	White-fronted Goose	45		PM
05/11/2019	Lough Iron	White-fronted Goose	50		PM
09/12/2019	Lough Iron	White-fronted Goose	140		PM
08/01/2020	Lough Iron	White-fronted Goose	120		PM
21/01/2020	Lough Iron	White-fronted Goose	238		PM
06/02/2020	Lough Iron	White-fronted Goose	129	Flying into lake	PM
24/03/2020	Lough Iron	White-fronted Goose	30		PM
	Lough Iron	White-fronted Goose	5	minimum 5 birds, heardbut not seen	PM



	Lough Iron	White-fronted Goose	15	minimum 15. Came in low under treeline at dark so couldnt see all of flock	PM
	Lough Iron	White-fronted Goose	160		PM



Table 1-6 Golden Plover Vantage Point Survey Data

Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Vantage Point Surveys				Notes on habitat and activity	Comments	Surveyor
							Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)			
GP001	27/10/2015	4	Golden Plover	21	07:50:00	85			85				D.McLoughlin
GP001	27/10/2015	4	Golden Plover	21	08:20:00	42			42				D.McLoughlin
GP001	27/10/2015	4	Golden Plover	21	09:05:00	320			320				D.McLoughlin
GP004	27/10/2015	4	Golden Plover	21	09:20:00	20			20				D.McLoughlin
GP005	28/10/2015	3	Golden Plover	45	07:35:00	45		45					D.McLoughlin
GP006	28/10/2015	3	Golden Plover	23	07:58:00	40			40				D.McLoughlin
GP007	25/11/2015	4	Golden Plover	22	11:27:00	6	6						J.Cy
GP008	25/11/2015	4	Golden Plover	110	12:11:00	40			40				J.Cy
GP009	25/11/2015	4	Golden Plover	110	12:11:00	30			30				J.Cy
GP010	25/11/2015	4	Golden Plover	45	12:47:00	10		10					J.Cy
GP011	25/11/2015	4	Golden Plover	125	13:58:00	600			600				J.Cy
GP012	06/12/2015	3	Golden Plover	18	1016	180		100	80				PT
GP013	06/12/2015	3	Golden Plover	1	1125	200	20	120	60				PT
GP014	06/12/2015	3	Golden Plover	1	1230	100		80	20				PT
GP015	10/12/2015	4	Golden Plover	7	1615	330	30	200	100				PT
GP016	22/12/2015	3	Golden Plover	8	0824	75		50					PT
GP017	10/01/2016	4	Golden Plover	1	12:57:00	60			60				J.Cy
GP018	15/02/2016	4	Golden Plover	28	13:11:00	180			180				J.Cy

GP019	15/02/2016	4	Golden Plover	25	17:09:00	300			100							J.Cy
GP020	15/02/2016	4	Golden Plover	25	17:14:00	180	180									J.Cy
GP021	04/03/2016	3	Golden Plover	17	17:47	120		90								SD
GP022	04/03/2016	3	Golden Plover	8	17:47	90		30								SD
GP023	14/03/2016	4	Golden Plover	85	08:21:00	250				250						J.Cy
GP024	10/04/2016	3	Golden Plover	1	0739	4	4									J.Cy
GP025	10/04/2016	3	Golden Plover	125	1348	180			180			OFF SITE				P.Troake
GP026	10/04/2016	3	Golden Plover	25	13:51	20			20			OFF SITE				P.Troake
GP027	10/04/2016	3	Golden Plover	100	13:51	360	15	30	315			OFF SITE				P.Troake
GP028	21/04/2016	3	Golden Plover	75	15:50:00	80			80							J.Cy
GP029	21/04/2016	3	Golden Plover	110	20:00	240			240			OFF SITE				J.Cy
GP030	30/09/2016	4	Golden Plover	5	08:01:00	95	20	5	70							PT
GP031	30/09/2016	4	Golden Plover	3	08:03:00	5			5							PT
GP032	30/09/2016	4	Golden Plover	8	08:03:00	80	10	5	65				Remove			PT
GP033	30/09/2016	4	Golden Plover	2	08:17:00	20			20							PT
GP034	30/09/2016	4	Golden Plover	9	09:30:00	115			115							PT
GP035	30/09/2016	4	Golden Plover	14	09:44:00	110	5	10	95							PT
GP036	30/09/2016	4	Golden Plover	1	11:21:00	30	5	5	20							PT
GP037	30/09/2016	4	Golden Plover	1	11:38:00	55	5	20	30							PT
GP038	30/09/2016	4	Golden Plover	6	12:16:00	75		15	60							PT
GP039	18/10/2016	3	Golden Plover	75	09:20:00	240			120	120						JC

GP040	18/10/2016	3	Golden Plover	36	11:50:00	10			10					JC
GP041	18/10/2016	3	Golden Plover	7	11:55:00	25	25							JC
GP042	29/10/2016	4	Golden Plover	15	13:07:00	20			20		Cutover bog, bog woodland			J.Cy
GP043	29/10/2016	4	Golden Plover	34	13:11:00	30			30		Cutover bog, bog woodland			J.Cy
GP044	29/10/2016	4	Golden Plover	6	13:26:00	90			90		Cutover bog, bog woodland			J.Cy
GP045	29/10/2016	4	Golden Plover	38	13:44:00	330					Cutover bog, bog woodland			J.Cy
GP046	29/10/2016	4	Golden Plover	13	15:03:00	150			150		Cutover bog, bog woodland			J.Cy
GP047	29/10/2016	4	Golden Plover	10	16:47:00	180			180		Cutover bog, bog woodland			J.Cy
GP048	29/10/2016	4	Golden Plover	2	18:02:00	5		5			Cutover bog, bog woodland			J.Cy
GP049	23/11/2016	3	Golden Plover	100	13:47	8	8				pasture	number approximate; location as ②; flushed by Peregrine	PT	
GP050	23/11/2016	3	Golden Plover	40	11:49	50		40	10		pasture	number approximate; height c.40m entering buffer zone, dropped to c.10m then up to c.20m exiting buffer zone	PT	
GP051	23/11/2016	3	Golden Plover	100	12:56	4	4				pasture	number approximate; brief sighting, dropping to field	PT	
GP052	28/11/2016	4	Golden Plover	6	13:46:00	80		35			Cut-over bog, bog woodland, improved grassland			JC
GP053	18/12/2016	3	Golden Plover	35	09:46	15			15		cutover	number approximate	PT	
GP054	18/12/2016	3	Golden Plover	40	09:48	100			80	20	cutover/pasture	number approximate; descending	PT	
GP055	16/01/2017	3	Golden Plover	110	13:18:00	300			150	150	PB4, (Cutover bog) WN, (Semi-natural woodland)	number approximate; height initially c.75m, circled up within area circled on map to	P.Troake	

GP056	16/01/2017	3	Golden Plover	7	14:03:00	20	20			PB4, (Cutover bog)	350m, then off to south			
GP057	16/01/2017	3	Golden Plover	55	15:43:00	200			200	PB4, (Cutover bog) GA1, (Improved agricultural grassland)	height 0-1m, probably settled	P.Troake	P.Troake	
GP058	16/01/2017	3	Golden Plover	9	16:09:00	50			50	PB4, (Cutover bog) GA1, (Improved agricultural grassland)	height c.250m	P.Troake	P.Troake	
GP059	06/03/2017	3	Golden Plover	9	09:02:00	65			65	PB4, (Cutover bog)	height c.100m dropping to c.60m; calls heard during preceding 4 minutes also	P.Troake	P.Troake	
N/A	26/03/2017	3	Golden Plover	50	13:33	45	15	30		GA1, (Improved agricultural grassland)	height 35-70m	P.Troake	P.Troake	
N/A	26/03/2017	3	Golden Plover	50	13:51	20	5	15		GA1, (Improved agricultural grassland)	number approximate; dropped low over field then back up, height 1-25m	P.Troake	P.Troake	
N/A	26/03/2017	3	Golden Plover	28	15:02	15			5	GA1, (Improved agricultural grassland)	height 5-25m	P.Troake	P.Troake	
N/A	26/03/2017	3	Golden Plover	15	17:57	45			15	GA1, (Improved agricultural grassland)	location similar to ③; also flew NE; height 10-40m	P.Troake	P.Troake	
N/A	26/03/2017	3	Golden Plover	8	17:58	30			30	GA1, (Improved agricultural grassland)	descended; 7 possibly dropped to fields; height 20-30m	P.Troake	P.Troake	
N/A	26/03/2017	3	Golden Plover	140	19:28	420			120	GA1, (Improved agricultural grassland)	height 10-25m	P.Troake	P.Troake	
GP060	27/03/2017	4	Golden Plover	17	08:11:00	180	5	10	165	PB4, (Cutover bog) WD4, (Conifer plantation)	number approximate; circling repeatedly; height mainly 15-35m; dropped to field? Area circled on map.	up to c.40m, dropped to cutover near VP until flushed by me at 0935	P.Troake	DM
GP034	16/04/2018	VP3	Golden Plover	5	09:50:00	225		30	30	PB4, (Cutover bog) GA1, (Improved agricultural grassland) travelling	WD4, (Conifer plantation)	PM		
GP035	03/10/2018	VP3	Golden Plover	5	14:39:32	265		0	265	PB4, (Cutover bog) Travelling		PM		
GP036	03/10/2018	VP3	Golden Plover	12	14:41:11	133		0	0	PB4, (Cutover bog) Travelling		PM		

GP037	20/02/2019	VP3	Golden Plover	38	14:05:15	187		0	180		PB4, (Cutover bog) WD4, (Conifer plantation)		PM
GP038	07/03/2019	VP3	Golden Plover	46	08:19:25	75		0	25		GS4, (Wet grassland)		PM
GP039	07/03/2019	VP3	Golden Plover	26	09:55:14	37		0	37		PB4, (Cutover bog)		PM
GP040	07/03/2019	VP3	Golden Plover	2	10:38:13	10		0	0		PB4, (Cutover bog)		PM
GP041	07/03/2019	VP3	Golden Plover	3	10:40:45	12		0	0		PB4, (Cutover bog)		PM
GP042	04/09/2019	VP3	Golden Plover	1	07:06:33	87		0	0		PB4, (Cutover bog) Travelling low across bog; Dropped out of sight, possibly landed; Calling		PM
GP043	02/10/2019	VP3	Golden Plover	48	15:28:49	34	0	0			PB4, (Cutover bog)Flushed by RN; Circled before settling on bog		PM
GP044	02/10/2019	VP3	Golden Plover	14	17:16:34	38	0	0			PB4, (Cutover bog) Traveling low; landed with other GP flock		PM
GP045	15/11/2019	3	Golden Plover	5	13:44:50	360	0	0			PB4, (Cutover bog)		AOD
GP046	23/03/2020	3	Golden Plover	45	06:58:00	480					PB4, (Cutover bog) Circling		PT
GP047	23/03/2020	3	Golden Plover	20	10:14:00	370			90		PB4, (Cutover bog) WD4, (Conifer plantation) Flying/circling		PT
GP048	23/03/2020	3	Golden Plover	40	11:48:00	35			35		PB4, (Cutover bog) W, (Woodland and scrub) Direct flight		PT

Table 1-7 Golden Plover Winter Transect Survey Data

Winter Transect Surveys							
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity		Surveyor
GP001	15/12/2015		European Golden Plover	2			PT
GP002	24/12/2015		European Golden Plover	30			PT
GP003	29/12/2015		European Golden Plover	1			PT
GP004	29/12/2015		European Golden Plover	11			PT
GP005	15/01/2016		European Golden Plover	1			PT
GP006	19/01/2016		European Golden Plover	8			J.Cy

GP007	24/02/2016		European Golden Plover	28			J.Cy
GP008	30/10/2016		European Golden Plover	4	on cutover		PT
GP009	28/01/2017		European Golden Plover	1	PB4, (Cutover bog) heard only		P.Troake
GP001	03/12/2018	10:41:27	Golden Plover	24	GS4, (Wet grassland) flying		PM
GP002	12/12/2018	10:33:51	Golden Plover	29	PB4, (Cutover bog) Flying		PM
GP003	12/12/2018	10:36:49	Golden Plover	140	PB4, (Cutover bog) Flying		PM
GP004	12/12/2018	11:18:43	Golden Plover	52	PB4, (Cutover bog) Flying		PM
GP005	04/10/2019	11:49:20	golden plover	2	PB4, (Cutover bog)	Travelling	PM
GP006	04/10/2019	11:55:52	golden plover	17	PB4, (Cutover bog)	Travelling	PM
GP007	04/10/2019	13:41:46	golden plover	50	PB4, (Cutover bog)	Travelling	PM
GP008	10/10/2019	10:30:37	golden plover	3	PB4, (Cutover bog)	Roosting	PM
GP009	10/10/2019	10:52:14	golden plover	19	PB4, (Cutover bog)	Travelling	PM
GP010	27/12/2019	14:55:00	Golden Plover	5	PB4, (Cutover bog) WD4, (Conifer plantation) feeding		ED
GP011	06/01/2020	11:59:08	Golden Plover	2	PB4, (Cutover bog)	Travelling	PM

Table I-8 Golden Plover Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
16/01/2016	Derravaragh	European Golden Plover	36		
17/01/2016	Kinale	European Golden Plover	54		
19/04/2016	Derravaragh	European Golden Plover	85		P.T
17/10/2016	Garriskil	European Golden Plover	18		PT-JC
31/10/2016	Derravaragh	European Golden Plover	500		PT
28/11/2016	Derravaragh	European Golden Plover	110		PT
17/12/2016	Derravaragh	European Golden Plover	90		PT
29/12/2016	Derravaragh	European Golden Plover	75		PT-JC
20/11/2018	Lough Bane	Golden Plover	16	PB4, (Cutover bog)	PM
03/01/2020	Lough Sheelin	Golden Plover	58		PM

Table 1-9 Golden Plover Incidental Observation Data

Incidental Observations							
Date	VP	Species Name	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
28/10/2015	3	Golden Plover	151	06:20:00		NO FLIGHTLINE	D.McLoughlin
06/12/2015	3	Golden Plover	1	0911		NO FLIGHTLINE	PT
06/12/2015	3	Golden Plover	1	0915		NO FLIGHTLINE	PT
06/12/2015	3	Golden Plover	1	0940		NO FLIGHTLINE	PT
06/12/2015	3	Golden Plover	13	1045		NO FLIGHTLINE	PT
06/12/2015	3	Golden Plover	23	1155		NO FLIGHTLINE	PT
22/12/2015	3	Golden Plover	32	1258		NO FLIGHTLINE	PT
22/12/2015	3	Golden Plover	7	1305		NO FLIGHTLINE	PT
22/12/2015	3	Golden Plover		1655		NO FLIGHTLINE	PT
14/01/2016	3	Golden Plover		0810		NO FLIGHTLINE	J.Cy
11/02/2016	3	Golden Plover	1	00:00:00		NO FLIGHTLINE	PT
30/09/2016	4	Golden Plover	1	07:49:00		NO FLIGHTLINE	PT
30/09/2016	4	Golden Plover	1	10:26:00		NO FLIGHTLINE	PT
30/09/2016	4	Golden Plover	?	12:41:00		NO FLIGHTLINE	PT
17/12/2016	3	Golden Plover	22	13:39	cutover	on ground; 13+ remained through first half of watch, possibly all still hidden	PT
16/01/2017	3	Golden Plover		16:39:00	PB4, (Cutover bog)	heard only, over cutover bog	P.Troake
28/01/2017	4	Golden Plover	1		PB4, (Cutover bog) roosting	first observed 1051, until 1220 at least, probably remained hidden throughout watch	P.Troake
28/01/2017	4	Golden Plover	7		PB4, (Cutover bog) roosting	first observed 1058, until 1615 at least	P.Troake
02/11/2018	VP3	Golden Plover		08:50:00	PB4, (Cutover bog) heard only		PM
07/12/2018	VP3	Golden Plover		09:20:00	PB4, (Cutover bog) Heard but not seen		PM
07/12/2018	VP3	Golden Plover		11:10:00	PB4, (Cutover bog) Heard but not seen		PM
07/12/2018	VP3	Golden Plover		12:43:00	PB4, (Cutover bog) Heard but not seen		PM
02/10/2019	VP3	Golden Plover	48	13:36:00	PB4, (Cutover bog) Roosting on bog for duration of 6hr VP; Becoming more vocal after dark, possibly dispersing slightly in bog but none seen breaking the horizon in flight		PM
09/01/2020	VP3	Golden Plover	1+	11:46:00	PB4, (Cutover bog) Heard calling only		PM

Map Legend

- EIAR Site Boundary
- Turbine Location
- 500m Buffer of Turbine Location
- △ Vantage Point Location
- Golden Plover VP Flight (2015/17)
- Golden Plover VP Flight (2018/20)

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Drawing Title	
Golden Plover VP Flights	
Project Title	
Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-1-3
Scale	Date
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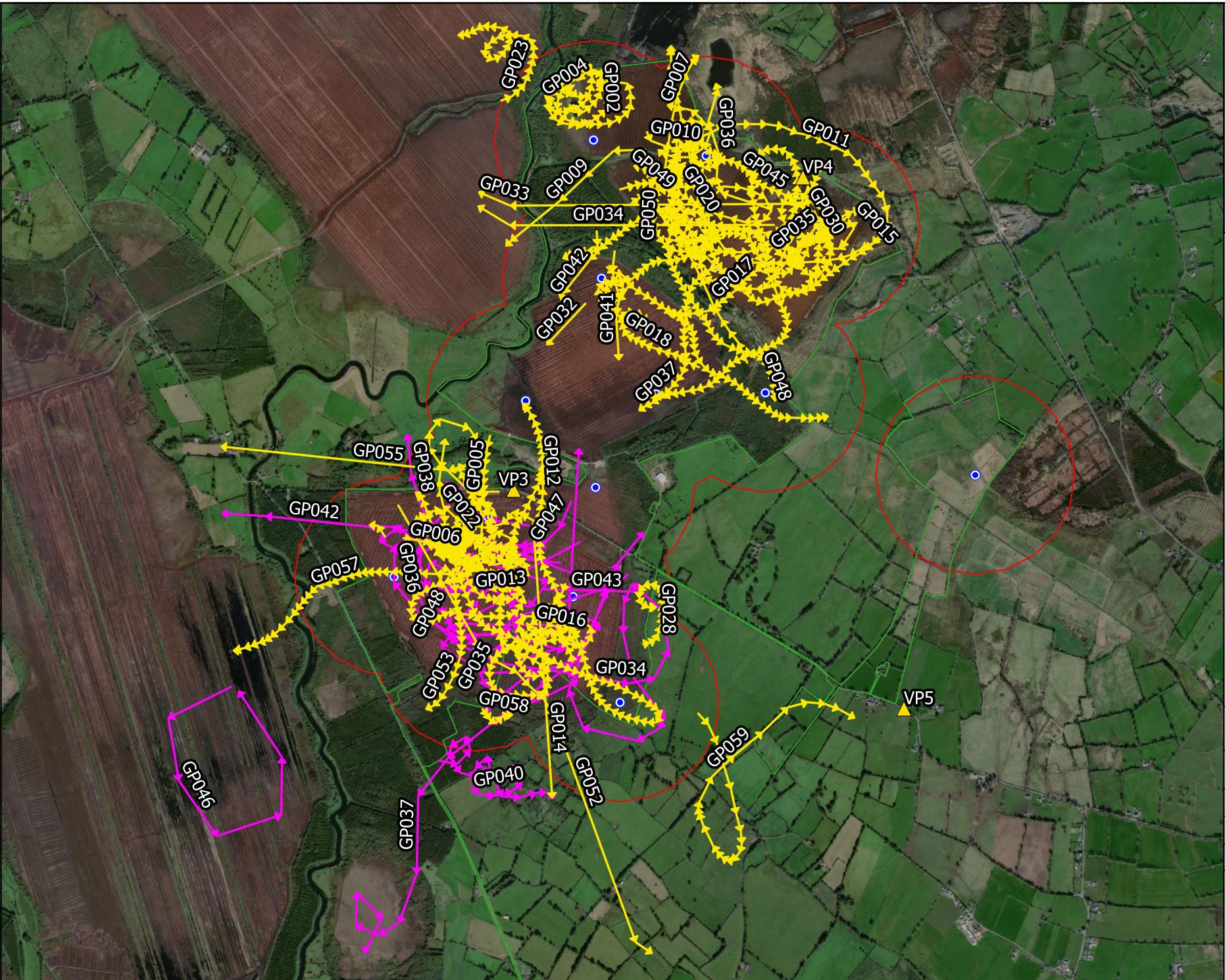




Table 1-10 Hen Harrier Survey Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
HH001	16/01/2017	3	Hen Harrier	1	13:37:00	70	70				PB4, (Cutover bog) WN, (Semi-natural woodland) hunting	male (subadult?); height 1-2m	P.Troake

Table 1-11 Hen Harrier Survey Breeding Raptor Survey Data

Breeding Raptor Surveys										
Map Ref.	Date	RVP	Species Name	No. of Birds	Time of flight	Notes on habitat and activity			Comments	Surveyor
HH001	09/04/2018	RVP4	Hen Harrier	1	14:45	PB4, (Cutover bog) Mixed broadleaved/conifer woodland Travelling			Travelling low across bog/woodland	PM

Map Legend

- EIA Site Boundary
- Turbine Location
- 500m Buffer of Turbine Location
- Vantage Point Location
- Hen Harrier VP Flight (2015/17)

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Drawing Title

Hen Harrier VP Flights

Project Title

Coole Wind Farm

Drawn By

Margaux Pierrel

Checked By

Padraig Cregg

Project No.

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Drawing No.

Fig 7-1-4

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1:30000

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Table 1-12 Merlin Vantage Point Survey Data

Vantage Point Surveys													
Map Ref	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
ML001	27/10/2015	4	Merlin	1		30			30				D.McLoughlin
ML002	11/02/2016	3	Merlin	1	00:00:00	15	15						PT
ML003	10/04/2016	3	Merlin	1	0830	13	13						PT
ML004	10/04/2016	3	Merlin	1	0830	30	30						PT
ML005	10/04/2016	3	Merlin	1	0836	15	15						PT
ML006	21/04/2016	4	Merlin	1	0753	15	15						J.Cy
ML007	19/12/2016	4	Merlin	1	11:02	70	20				cutover/pasture	ascended	PT

Table 1-13 Merlin Winter Transect Survey Data

Winter Transect Surveys						
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Surveyor
ML001	24/12/2015		Merlin	1		PT

Map Legend

- EIAR Site Boundary
- Turbine Location
- 500m Buffer of Turbine Location
- Vantage Point Location
- Merlin VP Flight

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Drawing Title

Merlin VP Flights

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-1-5
Scale	Date
1:25000	25.01.2021



Map Legend

- EIAR Site Boundary
- Turbine Location
- Winter Transect Survey Area (500m) (2015/17)
- Winter Transect Survey Area (500m) (2018/20)
- Merlin Observation

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Drawing Title
Merlin Winter Transect Survey Observations

Project Title

Coole Wind Farm

Drawn By	Checked By
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Project No.	Drawing No.
200445	Fig 7-5-3
Scale	Date
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Table 1-14 Peregrine Falcon Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
PE001	10/12/2015	4	Peregrine Falcon	1	0915	130		100	30				PT
PE002	10/12/2015	4	Peregrine Falcon	2	0950	45		45					PT
PE003	14/01/2016	3	Peregrine Falcon	1	1143	25	10	15					PT
PE004	14/01/2016	3	Peregrine Falcon	1	12:04:00	0							PT
PE005	15/02/2016	4	Peregrine Falcon	1	14:24:00	80			80				J.Cy
PE006	09/05/2016	4	Peregrine Falcon	1	11:05:00	8			8				J.Cy
PE007	11/06/2016	3	Peregrine Falcon	1	11:20:00	420							J.Cy
PE008	11/06/2016	3	Peregrine Falcon	1	11:30:00	15		15					J.Cy
PE009	12/07/2016	3	Peregrine Falcon	1	1535	120			120				PT
PE010	20/07/2016	4	Peregrine Falcon	1	08:35:00	NA							J.Cy
PE011	20/07/2016	4	Peregrine Falcon	1	08:42:00	83		20	63				J.Cy
PE012	20/07/2016	4	Peregrine Falcon	1	12:47:00	900							J.Cy
PE013	20/07/2016	4	Peregrine Falcon	1	14:33:00	60			60				J.Cy
PE014	15/09/2016	3	Peregrine Falcon	1	15:04:00	40			54				J.Cy
PE015	30/09/2016	4	Peregrine Falcon	1	07:23:00	10		10					PT
PE016	29/10/2016	4	Peregrine Falcon	1	14:57:00	60			60		Cutover bog, bog woodland		J.Cy
PE017	23/11/2016	3	Peregrine Falcon	1	13:47	55			55		pasture		PT
PE018	23/11/2016	3	Peregrine Falcon	1	15:36	50	10	10	30		forestry/cutover	dropped to small mound on cutover, then on to ground where lost to view	PT
PE019	03/04/2017	4	Peregrine Falcon	1	18:37:00	7		7			Mixed broadleaved/conifer woodland Travelling		PM
PE020	06/08/2018	VP3	Peregrine Falcon	1	11:02:20	87		0	0		PB4, (Cutover bog) WD4, (Conifer plantation) Travelling		PM
PE021	25/09/2018	VP5	Peregrine Falcon	1	10:23:24	44		0	44		GA1, (Improved agricultural grassland) Travelling		PM
PE022	07/12/2018	VP3	Peregrine Falcon	1	13:35:52	194		94	100		PB4, (Cutover bog) GA1, (Improved agricultural grassland)		PM
PE023	11/01/2019	VP5	Peregrine Falcon	1	11:21:16	46		0	20		GS1, (Dry calcareous grassland and neutral grassland)		PM

PE016	23/07/2019	VP5	Peregrine Falcon	1	14:55:14	20		0	20		GA1, (Improved agricultural grassland) Travelling; mobbed by SL		PM
PE017	04/09/2019	VP8	Peregrine Falcon	1	09:33:48	144		0	144		WD4, (Conifer plantation) Travelling		PM
PE018	01/10/2019	VP5	Peregrine Falcon	1	15:31:08	54	0	54					PM

Table 1-15 Peregrine Falcon Breeding Bird Survey Data

Breeding Bird Surveys				
Date	Map Ref.	Species	Comments	Surveyor
10/06/2016	PE001	Peregrine Falcon	With prey	PT

Table 1-16 Peregrine Falcon Breeding Raptor Survey Data

Breeding Raptor Surveys								
Map Ref.	Date	VP/Trans/Point/Quad No.	Species	Number of birds	Time	Habitat & Activity	Notes	Surveyor
PE001	30/04/2016	C	Peregrine Falcon	1	1250		Mobbing RN & BZ either side of cliff, then flew up to cliff	PT
PE002	30/04/2016	C	Peregrine Falcon	1	1431		Arrived over hill behind cliff, settled on grassy ledge left of presumed nest site; preened. One then flew to presumed nest site, it or another quickly exiting (1434) - possible changeover?	PT
PE003	30/04/2016	C	Peregrine Falcon	1	1508		Arrived over cliff, flying towards me, defaecated prior to display flight then up to presumed nest ledge where it walked in to crevice and remained. Same location as previous 2 sightings.	PT
PE004	29/05/2016	C/R2	Peregrine Falcon	1	1307		Male?; lost to view behind tree	PT
PE005	29/05/2016	C/R2	Peregrine Falcon	2	1325		Visiting nesting ledge, one initially tearing up prey; both departed to SW	PT
PE006	29/05/2016	C/R2	Peregrine Falcon	1	1416		Arrived at ledge, remained to end of watch; 2 downy chicks visible	PT
PE007	29/06/2016	C/R2	Peregrine Falcon	1	1754		Juvenile flying strongly, landed near nesting ledge and nearby after subsequent flights	PT
PE008	29/06/2016	C/R2	Peregrine Falcon	2	1802		Adult landed on crags above nesting ledge with second juvenile, apparent prey delivery; both remained on crags, adult to c.1825 only	PT
PE009	02/05/2017	RPV1	Peregrine Falcon	1	11:42:00		Flying off cliff and off over farmland	PM

PE001	10/04/2018	RVP2	Peregrine Falcon	1	11:28	WS, (Scrub/ transitional woodland) Travelling	Flying low over scrub before landing on rock above cliff face	PM
PE002	10/04/2018	RVP1	Peregrine Falcon	1	15:24	WD4, (Conifer plantation) Hunting	Hunting along edge of forestry/lake	PM
PE003	10/04/2018	RVP1	Peregrine Falcon	1	15:35	PB4, (Cutover bog) Travelling	Flying over lake and being mobbed by L	PM
PE004	04/05/2018	RVP2	Peregrine Falcon	1	10:34	Travelling		PM
PE005	04/05/2018	RVP1	Peregrine Falcon	1	13:43	WD4, (Conifer plantation) Travelling		PM
PE006	04/05/2018	RVP1	Peregrine Falcon	1	15:26	WD4, (Conifer plantation) Hunting		PM
PE007	11/06/2018	RVP2	Peregrine Falcon	1	12:46	(Mixed) broadleaved woodland Flew from cliff and away over hill		PM
PE008	11/06/2018	RVP2	Peregrine Falcon	1	12:51	(Mixed) broadleaved woodland Travelling along top of hill		PM
PE009	11/04/2019	BRVP2	Peregrine Falcon	1	11:35	Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) Travelling	Fly from cliff direction. didn't see if it was on cliff or flew over it	PM
PE010	11/04/2019	BRVP2	Peregrine Falcon	1	11:51	Circling; landed on top of cliff		PM
PE011	11/04/2019	BRVP2	Peregrine Falcon	1	11:55	Circling before landing again		PM
PE012	11/04/2019	BRVP2	Peregrine Falcon	1	11:57	Flew off top of cliff and circled		PM
PE013	13/06/2019	RVP1	Peregrine Falcon	1	15:11	PB4, (Cutover bog) WD4, (Conifer plantation) Travelling/landed		PM

Table 1-17 Peregrine Falcon Winter Transect Survey Data

Winter Transect Surveys						
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Surveyor
PE001	15/12/2015		Peregrine Falcon	1		PT

Table 1-18 Peregrine Falcon Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
28/11/2016	Derragh	Peregrine Falcon	1		PT-JC
12/03/2017	Lough Sheelin	Peregrine Falcon	1	Several fishing boats in the area	J. Carey



20/11/2018	Lough Bane	Peregrine Falcon	1	WD4, (Conifer plantation)	PM
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Table 1-19 Peregrine Falcon Incidental Observation Data

Incidental Observations						
Date	Survey Type	Location	Species	Number of Individuals	Notes	Surveyor
09/10/2018	Lough Iron survey		PE	1	Flew over near VP	DM

Map Legend

- EIAR Site Boundary
- Turbine Location
- 500m Buffer of Turbine Location
- ▲ Vantage Point Location
- Peregrine Falcon VP Flight (2015/17)
- Peregrine Falcon VP Flight (2018/20)

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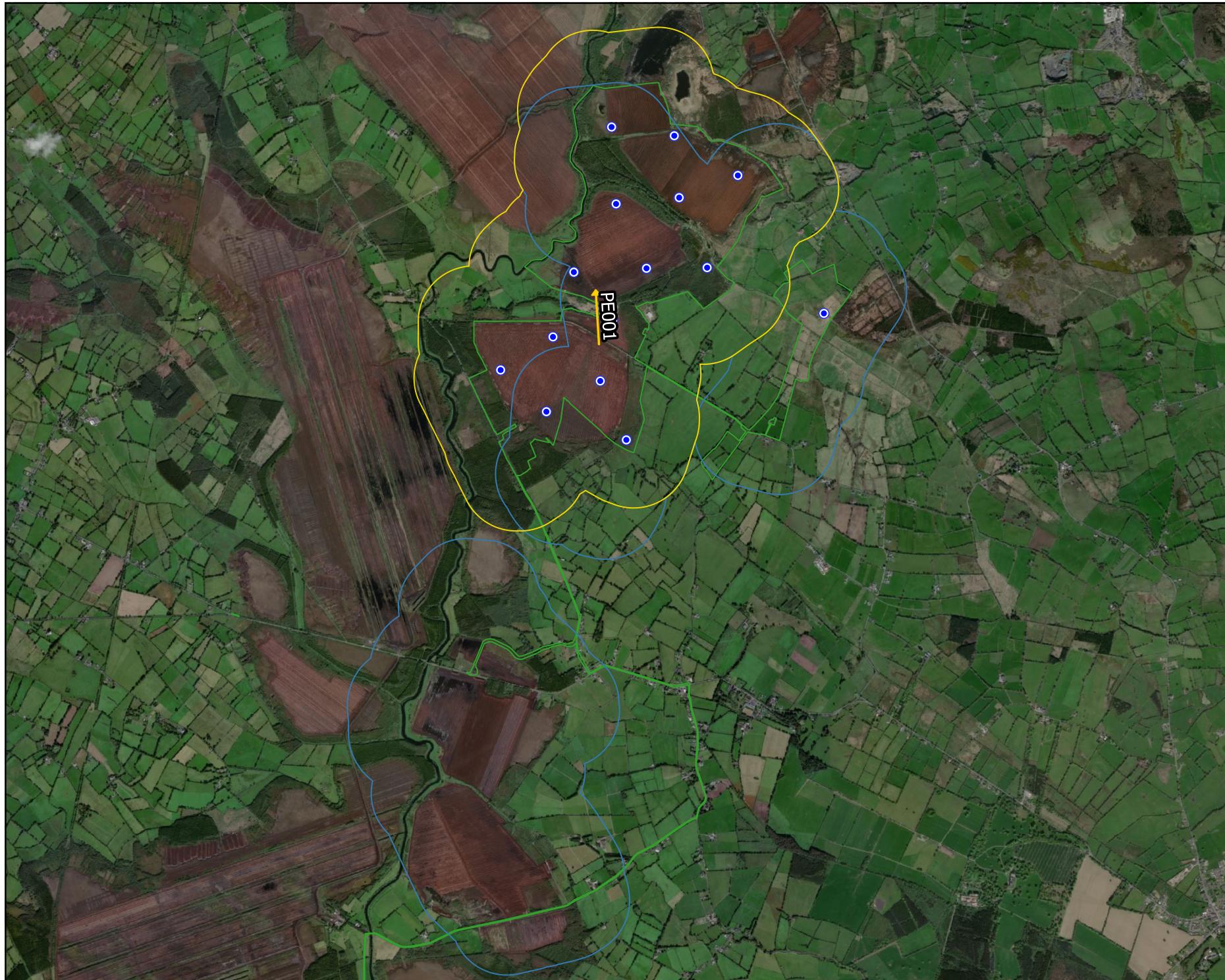
Drawing Title

Peregrine Falcon VP Flights

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-1-6
Scale	Date
1:25000	25.01.2021



Map Legend

- EIAR Site Boundary
- 500m Survey Radius (2018/20)
- 500m Survey Radius (2018/20)
- Turbine Location
- Peregrine Falcon Flights

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Drawing Title
Peregrine Falcon Breeding Bird
Survey Observations
Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-3-1
Scale	Date
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Table 1-20 White-tailed Eagle Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
WTE001	29/11/2016	4	White-tailed Eagle	1	08:54						clearfell/scattered trees	perched on top of pine for 30 seconds then dropped low out of view	PT
WTE002	29/11/2016	4	White-tailed Eagle	1	09:24						pasture/trees	perched in tree until 0929	PT
WTE003	29/11/2016	4	White-tailed Eagle	1	09:34						poplar plantation	perched in poplar until 1025 at least	PT



Table 1-21 Osprey Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
OP001	30/05/2016	4	Osprey	1	00:00:00	30		30					SD
OP002	30/05/2016	4	Osprey	1	00:00:00	30			30				SD
OP003	30/05/2016	4	Osprey	1	00:00:00	50			50				SD

Table 1-22 Osprey Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
15/09/2016	Bracklagh	Osprey	1		

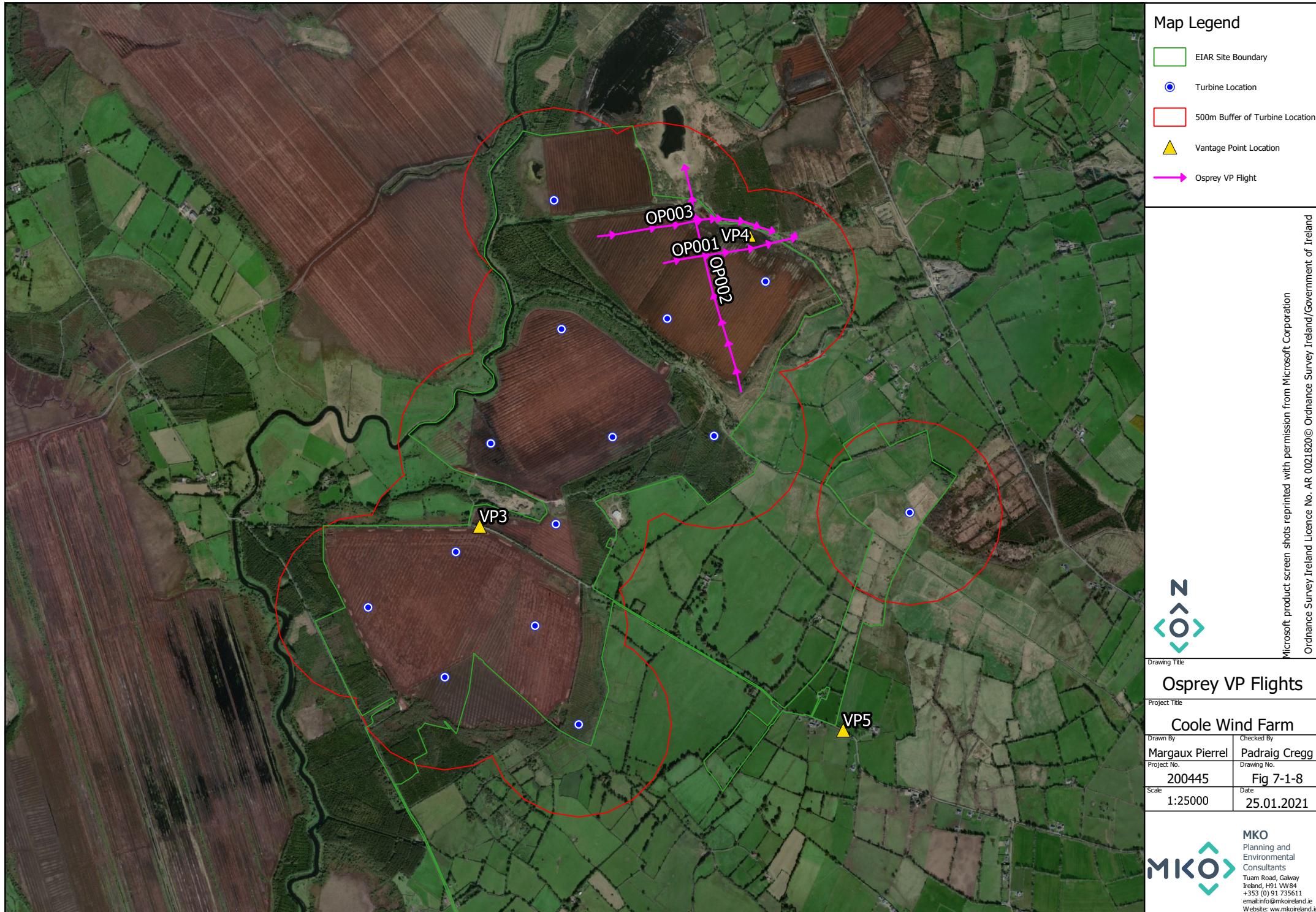


Table 1-23 Red Kite Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
KT001	29/05/2018	VP5	Red Kite	1	18:10:00	60			10	50	GA1, (Improved agricultural grassland) travelling		DM



Table 1-24 Shoveler Winter Transect Survey Data

Winter Transect Surveys						
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Surveyor
SV001	28/01/2017		Northern Shoveler	1	flushed	P.Troake

Table 1-25 Shoveler Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
30/03/2016	Derravaragh	Northern Shoveler	3		
28/11/2016	Derravaragh	Northern Shoveler	2		PT
28/01/2017	Lough Bane	Northern Shoveler	1		P. Troake
01/02/2017	Lough Bracklagh	Northern Shoveler	1		J. Carey
01/02/2017	Lough Sheelin	Northern Shoveler	1		J. Carey
12/03/2017	Lough Derragh	Northern Shoveler	3		J. Carey
07/02/2020	Lough Derravaragh	Shoveler	1		PM



Table 1-26 Wigeon Winter Transect Survey Data

Winter Transect Surveys						
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Surveyor
WN001	24/12/2015		Eurasian Wigeon	7		PT
WN002	11/02/2016		Eurasian Wigeon	1		PT
WN003	30/10/2016		Eurasian Wigeon	4	Lough Baun	PT
WN004	28/01/2017		Eurasian Wigeon	4		P.Troake
WN005	27/03/2017		Eurasian Wigeon	17		P.Troake

Table 1-27 Wigeon Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
27/10/2015	Lough Kinale	Eurasian Wigeon	8		DM
31/12/2015	Derravaragh	Eurasian Wigeon	10		
16/01/2016	Derravaragh	Eurasian Wigeon	39		
10/02/2016	Derravaragh	Eurasian Wigeon	8		
05/03/2016	Derravaragh	Eurasian Wigeon	33		
30/03/2016	Derravaragh	Eurasian Wigeon	8		
15/09/2016	Bracklagh	Eurasian Wigeon	8		
15/09/2016	Derravaragh	Eurasian Wigeon	3		
15/09/2016	Kinale	Eurasian Wigeon	7		
17/10/2016	Derravaragh	Eurasian Wigeon	5		PT-JC
17/10/2016	Kinale	Eurasian Wigeon	8		PT-JC
31/10/2016	Kinale	Eurasian Wigeon	11		PT
28/11/2016	Derravaragh	Eurasian Wigeon	11		PT
17/12/2016	Bane (including newly flooded area)	Eurasian Wigeon	78		PT-JC
17/12/2016	Derravaragh	Eurasian Wigeon	12		PT
29/12/2016	Bane (including newly flooded area)	Eurasian Wigeon	15		PT-JC
29/12/2016	Derravaragh	Eurasian Wigeon	2		PT-JC
29/12/2016	Sheelin	Eurasian Wigeon	1		PT-JC
16/01/2017	Lough Bane	Eurasian Wigeon	50		J. Carey
28/01/2017	Lough Bane	Eurasian Wigeon	4		P. Troake
01/02/2017	Lough Bracklagh	Eurasian Wigeon	2		J. Carey
16/02/2017	Lough Bane	Eurasian Wigeon	25		J. Carey
28/02/2017	Lough Bane	Eurasian Wigeon	60		J. Carey
12/03/2017	Lough Bane	Eurasian Wigeon	20		J. Carey
22/10/2018	Bracklagh Lough	Wigeon	8		PM
22/10/2018	Lough Derravaragh	Wigeon	49		PM
06/11/2018	Lough Bane	Wigeon	33		PM
20/11/2018	Lough Bane	Wigeon	45		PM

20/11/2018	Lough Sheelin	Wigeon	37		PM
20/11/2018	Bracklagh Lough	Wigeon	2		PM
06/12/2018	Lough Bane	Wigeon	51		PM
20/12/2018	Lough Bane	Wigeon	23		PM
10/01/2019	Lough Bane	Wigeon	39		PM
29/01/2019	Lough Bane	Wigeon	13		PM
08/02/2019	Lough Bane	Wigeon	2		PM
26/02/2019	Lough Bane	Wigeon	27		PM
20/08/2019	Bracklagh Lough	Wigeon	7		LD
10/09/2019	Bracklagh Lough	Wigeon	4		PM
19/11/2019	Lough Bane	Wigeon	18		PM
04/12/2019	Lough Bane	Wigeon	40		PM
03/01/2020	Lough Bane	Wigeon	5		PM
03/01/2020	Lough Kinale and Derragh Lough	Wigeon	44		PM
20/01/2020	Derragh Lough	Wigeon	3		PM
07/02/2020	Lough Bane	Wigeon	39		PM
10/03/2020	Lough Derravaragh	Wigeon	2		PM
25/03/2020	Lough Bane	Wigeon	6	PB4, (Cutover bog) FL , (Lakes and ponds) Feeding	DM



Table 1-28 Pochard Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
20/12/2015	Bracklagh	Common Pochard	1		
30/12/2015	Bracklagh	Common Pochard	2		
31/12/2015	Derravaragh	Common Pochard	7		
16/01/2016	Derravaragh	Common Pochard	375		
10/02/2016	Derravaragh	Common Pochard	409		
12/02/2016	Bracklagh	Common Pochard	3		
12/02/2016	Sheelin	Common Pochard	483		
05/03/2016	Derravaragh	Common Pochard	57		
06/03/2016	Bracklagh	Common Pochard	79		
30/03/2016	Bracklagh	Common Pochard	8		
30/03/2016	Derravaragh	Common Pochard	1		
19/04/2016	Bracklagh	Common Pochard	2		P.T
19/04/2016	Sheelin	Common Pochard	2		P.T
17/10/2016	Sheelin	Common Pochard	2		PT-JC
31/10/2016	Bracklagh	Common Pochard	18		PT
15/11/2016	Sheelin	Common Pochard	3		PT-JC
28/11/2016	Derragh	Common Pochard	2		PT-JC
28/11/2016	Derravaragh	Common Pochard	0		PT
17/12/2016	Derravaragh	Common Pochard	110		PT
17/12/2016	Sheelin	Common Pochard	3		PT-JC
29/12/2016	Bracklagh	Common Pochard	6		PT-JC
29/12/2016	Derravaragh	Common Pochard	211		PT-JC
16/01/2017	Lough Bracklagh	Common Pochard	36		J. Carey
16/01/2017	Lough Kinale	Common Pochard	3		J. Carey
16/01/2017	Lough Sheelin	Common Pochard	182		J. Carey
01/02/2017	Lough Bracklagh	Common Pochard	30		J. Carey
01/02/2017	Lough Sheelin	Common Pochard	126		J. Carey
16/02/2017	Lough Sheelin	Common Pochard	234		J. Carey
16/02/2017	Lough Sheelin	Common Pochard	55		J. Carey
28/02/2017	Lough Sheelin	Common Pochard	78		J. Carey
28/02/2017	Lough Sheelin	Common Pochard	39		J. Carey
12/03/2017	Lough Bracklagh	Common Pochard	111		J. Carey
22/10/2018	Bracklagh Lough	Pochard	2		PM
20/12/2018	Lough Derravaragh	Pochard	16		PM
10/01/2019	Lough Sheelin	Pochard	93		PM
10/01/2019	Bracklagh Lough	Pochard	38		PM
10/01/2019	Lough Derravaragh	Pochard	38		PM
29/01/2019	Lough Sheelin	Pochard	25		PM
29/01/2019	Lough Sheelin	Pochard	90		PM

26/02/2019	Lough Sheelin	Pochard	142		PM
26/02/2019	Bracklagh Lough	Pochard	1		PM
12/03/2019	Bracklagh Lough	Pochard	12		PM
25/03/2019	Bracklagh Lough	Pochard	4		PM
25/03/2019	Lough Derravaragh	Pochard	2		PM
09/04/2019	Bracklagh Lough	Pochard	2		PM
24/04/2019	Lough Derravaragh	Pochard	1		PM
10/09/2019	Bracklagh Lough	Pochard	3		PM
24/09/2019	Bracklagh Lough	Pochard	3		PM
30/09/2019	Lough Sheelin	Pochard	1		PM
09/10/2019	Lough Bane	Pochard	1		PM
09/10/2019	Lough Sheelin	Pochard	1		PM
09/10/2019	Bracklagh Lough	Pochard	3		PM
23/10/2019	Lough Sheelin	Pochard	2		PM
19/11/2019	Lough Sheelin	Pochard	225		PM
19/11/2019	Lough Derravaragh	Pochard	7		PM
04/12/2019	Lough Sheelin	Pochard	6		PM
04/12/2019	Lough Derravaragh	Pochard	7		PM
03/01/2020	Lough Sheelin	Pochard	120		PM
20/01/2020	Lough Sheelin	Pochard	24		PM
07/02/2020	Lough Sheelin	Pochard	22		PM
21/02/2020	Lough Sheelin	Pochard	39		PM
25/03/2020	Bracklagh Lough	Pochard	10	FL , (Lakes and ponds)	DM

Table 1-29 Goldeneye Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
20/12/2015	Sheelin	Common Goldeneye	1		
21/12/2015	Derravaragh	Common Goldeneye	5		
30/12/2015	Sheelin	Common Goldeneye	10		
31/12/2015	Derravaragh	Common Goldeneye	9		
16/01/2016	Derravaragh	Common Goldeneye	12		
17/01/2016	Sheelin	Common Goldeneye	1		
10/02/2016	Derravaragh	Common Goldeneye	13		
12/02/2016	Kinale	Common Goldeneye	1		
12/02/2016	Sheelin	Common Goldeneye	16		
05/03/2016	Derravaragh	Common Goldeneye	2		
06/03/2016	Sheelin	Common Goldeneye	5		
30/03/2016	Derravaragh	Common Goldeneye	10		
19/04/2016	Derravaragh	Common Goldeneye	1		P.T
13/08/2016	Sheelin	Common Goldeneye	2		
28/08/2016	Sheelin	Common Goldeneye	4		
15/11/2016	Sheelin	Common Goldeneye	8		PT-JC
28/11/2016	Derragh	Common Goldeneye	8		PT-JC
28/11/2016	Derragh	Common Goldeneye	4		PT-JC
28/11/2016	Derravaragh	Common Goldeneye	4		PT
17/12/2016	Derravaragh	Common Goldeneye	12		PT
17/12/2016	Sheelin	Common Goldeneye	4		PT-JC
29/12/2016	Derravaragh	Common Goldeneye	13		PT-JC
16/01/2017	Lough Sheelin	Common Goldeneye	1		J. Carey
01/02/2017	Lough Sheelin	Common Goldeneye	1		J. Carey
16/02/2017	Lough Sheelin	Common Goldeneye	2		J. Carey
16/02/2017	Lough Sheelin	Common Goldeneye	2		J. Carey
16/02/2017	Lough Sheelin	Common Goldeneye	12		J. Carey
28/02/2017	Lough Sheelin	Common Goldeneye	5		J. Carey
12/03/2017	Lough Kinale	Common Goldeneye	1		J. Carey
12/03/2017	Lough Sheelin	Common Goldeneye	5	Several fishing boats in the area	J. Carey
29/01/2019	Lough Sheelin	Goldeneye	6		PM
12/03/2019	Lough Derravaragh	Goldeneye	1		PM
09/04/2019	Lough Derravaragh	Goldeneye	10		PM
20/01/2020	Lough Sheelin	Goldeneye	1		PM
20/01/2020	Lough Derravaragh	Goldeneye	2		PM
07/02/2020	Lough Sheelin	Goldeneye	4		PM
07/02/2020	Lough Sheelin	Goldeneye	2		PM

Table 1-30 Tufted Duck Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
20/12/2015	Bracklagh	Tufted Duck	23		
20/12/2015	Kinale	Tufted Duck	60		
21/12/2015	Derravaragh	Tufted Duck	125		
30/12/2015	Bracklagh	Tufted Duck	73		
30/12/2015	Kinale	Tufted Duck	78		
30/12/2015	Sheelin	Tufted Duck	197		
31/12/2015	Derravaragh	Tufted Duck	525		
16/01/2016	Derravaragh	Tufted Duck	253		
17/01/2016	Kinale	Tufted Duck	6		
17/01/2016	Sheelin	Tufted Duck	23		
10/02/2016	Derravaragh	Tufted Duck	338		
12/02/2016	Bracklagh	Tufted Duck	15		
12/02/2016	Derragh	Tufted Duck	4		
12/02/2016	Kinale	Tufted Duck	164		
12/02/2016	Sheelin	Tufted Duck	44		
05/03/2016	Derravaragh	Tufted Duck	116		
06/03/2016	Bracklagh	Tufted Duck	39		
06/03/2016	Derragh	Tufted Duck	23		
06/03/2016	Kinale	Tufted Duck	552		
06/03/2016	Sheelin	Tufted Duck	1		
30/03/2016	Bracklagh	Tufted Duck	28		
30/03/2016	Derragh	Tufted Duck	13		
30/03/2016	Derravaragh	Tufted Duck	196		
30/03/2016	Kinale	Tufted Duck	265		
30/03/2016	Sheelin	Tufted Duck	4		
19/04/2016	Bracklagh	Tufted Duck	250		P.T
19/04/2016	Kinale	Tufted Duck	17		P.T
19/04/2016	Derravaragh	Tufted Duck	61		P.T
27/04/2016	Bracklagh	Tufted Duck	77		P.T
27/04/2016	Sheelin	Tufted Duck	7		P.T
27/04/2016	Kinale	Tufted Duck	3		P.T
27/04/2016	Derravaragh	Tufted Duck	25		P.T
16/05/2016	Derragh	Tufted Duck	1		
16/05/2016	Kinale	Tufted Duck	2		
16/05/2016	Sheelin	Tufted Duck	2		
13/08/2016	Bracklagh	Tufted Duck	2		
13/08/2016	Sheelin	Tufted Duck	2		
15/09/2016	Bracklagh	Tufted Duck	45		
17/10/2016	Bracklagh	Tufted Duck	6		PT-JC

17/10/2016	Derragh	Tufted Duck	19		PT-JC
17/10/2016	Derravaragh	Tufted Duck	153		PT-JC
17/10/2016	Sheelin	Tufted Duck	8		PT-JC
31/10/2016	Derravaragh	Tufted Duck	40		PT
31/10/2016	Sheelin	Tufted Duck	1		PT
15/11/2016	Sheelin	Tufted Duck	188		PT-JC
15/11/2016	Sheelin	Tufted Duck	363		PT-JC
28/11/2016	Derragh	Tufted Duck	247		PT-JC
28/11/2016	Derragh	Tufted Duck	124		PT-JC
28/11/2016	Derravaragh	Tufted Duck	92		PT
17/12/2016	Derravaragh	Tufted Duck	45		PT
17/12/2016	Kinale	Tufted Duck	84		PT-JC
17/12/2016	Sheelin	Tufted Duck	79		PT-JC
29/12/2016	Derravaragh	Tufted Duck	96		PT-JC
29/12/2016	Kinale	Tufted Duck	75		PT-JC
29/12/2016	Sheelin	Tufted Duck	131		PT-JC
16/01/2017	Lough Bracklagh	Tufted Duck	6		J. Carey
16/01/2017	Lough Kinale	Tufted Duck	185		J. Carey
16/01/2017	Lough Sheelin	Tufted Duck	170		J. Carey
16/01/2017	Lough Sheelin	Tufted Duck	668		J. Carey
16/01/2017	Lough Sheelin	Tufted Duck	83		J. Carey
01/02/2017	Lough Kinale	Tufted Duck	93		J. Carey
01/02/2017	Lough Kinale	Tufted Duck	8		J. Carey
01/02/2017	Lough Bracklagh	Tufted Duck	5		J. Carey
01/02/2017	Lough Sheelin	Tufted Duck	387		J. Carey
01/02/2017	Lough Sheelin	Tufted Duck	151		J. Carey
01/02/2017	Lough Sheelin	Tufted Duck	70		J. Carey
16/02/2017	Lough Kinale	Tufted Duck	190		J. Carey
16/02/2017	Lough Sheelin	Tufted Duck	254		J. Carey
16/02/2017	Lough Sheelin	Tufted Duck	378		J. Carey
28/02/2017	Lough Kinale	Tufted Duck	280		J. Carey
28/02/2017	Lough Sheelin	Tufted Duck	3		J. Carey
28/02/2017	Lough Sheelin	Tufted Duck	268		J. Carey
28/02/2017	Lough Sheelin	Tufted Duck	382		J. Carey
12/03/2017	Lough Kinale	Tufted Duck	412		J. Carey
12/03/2017	Lough Bracklagh	Tufted Duck	26		J. Carey
12/03/2017	Lough Derragh	Tufted Duck	4		J. Carey
12/03/2017	Lough Sheelin	Tufted Duck	3	Several fishing boats in the area	J. Carey
12/03/2017	Lough Sheelin	Tufted Duck	5	Several fishing boats in the area	J. Carey
12/03/2017	Lough Sheelin	Tufted Duck	2	Several fishing boats in the area	J. Carey
05/04/2017	Bracklagh Lough	Tufted Duck	11		PM
05/04/2017	Lough Kinale	Tufted Duck	169		PM
05/04/2017	Derragh Lough	Tufted Duck	11		PM

05/04/2017	Lough Kinale	Tufted Duck	16		PM
05/04/2017	Bracklagh Lough	Tufted Duck	163		PM
04/05/2017	Lough Kinale	Tufted Duck	2		PM
04/05/2017	Lough Kinale	Tufted Duck	3		PM
04/05/2017	Bracklagh Lough	Tufted Duck	7		PM
14/08/2017	Lough Sheelin	Tufted Duck	7		DM
04/04/2018	Lough Kinale and Derragh Lough	Tufted Duck	183		PM
04/04/2018	Bracklagh Lough	Tufted Duck	4		PM
04/04/2018		Tufted Duck	5		PM
04/04/2018	Lough Derravaragh	Tufted Duck	13		PM
04/04/2018	Lough Derravaragh	Tufted Duck	45		PM
22/04/2018	Bracklagh Lough	Tufted Duck	18		PM
03/05/2018	Bracklagh Lough	Tufted Duck	6		PM
18/05/2018	Derragh Lough	Tufted Duck	1		PM
18/05/2018	Lough Derravaragh	Tufted Duck	1		PM
03/09/2018	Lough Sheelin	Tufted Duck	13		PM
03/09/2018	Lough Kinale and Derragh Lough	Tufted Duck	2		PM
05/10/2018	Lough Derravaragh	Tufted Duck	169		PM
20/12/2018	Lough Sheelin	Tufted Duck	136		PM
20/12/2018	Lough Derravaragh	Tufted Duck	273		PM
20/12/2018	Lough Derravaragh	Tufted Duck	18		PM
10/01/2019	Lough Sheelin	Tufted Duck	151		PM
10/01/2019	Lough Sheelin	Tufted Duck	52		PM
10/01/2019	Lough Derravaragh	Tufted Duck	23		PM
29/01/2019	Lough Sheelin	Tufted Duck	1		PM
29/01/2019	Lough Sheelin	Tufted Duck	131		PM
29/01/2019	Lough Sheelin	Tufted Duck	70		PM
29/01/2019	Lough Kinale and Derragh Lough	Tufted Duck	127		PM
29/01/2019	Lough Derravaragh	Tufted Duck	6		PM
08/02/2019	Lough Sheelin	Tufted Duck	14		PM
08/02/2019	Lough Sheelin	Tufted Duck	29		PM
08/02/2019	Lough Sheelin	Tufted Duck	53		PM
08/02/2019	Lough Kinale and Derragh Lough	Tufted Duck	52		PM
08/02/2019	Lough Derravaragh	Tufted Duck	13		PM
08/02/2019	Lough Derravaragh	Tufted Duck	17		PM
26/02/2019	Lough Sheelin	Tufted Duck	13		PM
26/02/2019	Lough Sheelin	Tufted Duck	361		PM
26/02/2019	Lough Sheelin	Tufted Duck	384		PM
26/02/2019	Lough Kinale and Derragh Lough	Tufted Duck	71		PM
26/02/2019	Bracklagh Lough	Tufted Duck	12		PM
26/02/2019	Lough Derravaragh	Tufted Duck	31		PM
12/03/2019	Lough Sheelin	Tufted Duck	30		PM
12/03/2019	Lough Sheelin	Tufted Duck	3		PM

12/03/2019	Lough Kinale and Derragh Lough	Tufted Duck	143		PM
12/03/2019	Derragh Lough	Tufted Duck	2		PM
12/03/2019	Lough Derravaragh	Tufted Duck	20		PM
25/03/2019	Lough Kinale and Derragh Lough	Tufted Duck	117		PM
25/03/2019	Bracklagh Lough	Tufted Duck	151		PM
25/03/2019	Lough Derravaragh	Tufted Duck	29		PM
25/03/2019	Lough Derravaragh	Tufted Duck	121		PM
09/04/2019	Lough Kinale and Derragh Lough	Tufted Duck	66		PM
09/04/2019	Bracklagh Lough	Tufted Duck	22		PM
09/04/2019	Derragh Lough	Tufted Duck	11		PM
09/04/2019	Lough Derravaragh	Tufted Duck	5		PM
09/04/2019	Lough Derravaragh	Tufted Duck	24		PM
24/04/2019	Bracklagh Lough	Tufted Duck	2		PM
20/08/2019	Lough Kinale and Derragh Lough	Tufted Duck	7		LD
20/08/2019	Derragh Lough	Tufted Duck	8		LD
20/08/2019	Lough Sheelin	Tufted Duck	64		LD
20/08/2019	Lough Sheelin	Tufted Duck	17		LD
20/08/2019	Lough Sheelin	Tufted Duck	4		LD
20/08/2019	Lough Derravaragh	Tufted Duck	47		LD
24/09/2019	Bracklagh Lough	Tufted Duck	2		PM
09/10/2019	Lough Sheelin	Tufted Duck	47		PM
09/10/2019	Bracklagh Lough	Tufted Duck	115		PM
23/10/2019	Lough Sheelin	Tufted Duck	10		PM
23/10/2019	Lough Sheelin	Tufted Duck	24		PM
23/10/2019	Bracklagh Lough	Tufted Duck	2		PM
07/11/2019	Bracklagh Lough	Tufted Duck	1		PM
19/11/2019	Lough Sheelin	Tufted Duck	108		PM
19/11/2019	Lough Sheelin	Tufted Duck	64		PM
04/12/2019	Lough Sheelin	Tufted Duck	4		PM
04/12/2019	Lough Sheelin	Tufted Duck	38		PM
04/12/2019	Lough Derravaragh	Tufted Duck	8		PM
18/12/2019	Lough Sheelin	Tufted Duck	119		PM
18/12/2019	Lough Kinale and Derragh Lough	Tufted Duck	19		PM
03/01/2020	Lough Sheelin	Tufted Duck	6		PM
03/01/2020	Lough Sheelin	Tufted Duck	268		PM
03/01/2020	Lough Kinale and Derragh Lough	Tufted Duck	37		PM
20/01/2020	Lough Sheelin	Tufted Duck	42		PM
20/01/2020	Lough Sheelin	Tufted Duck	100		PM
20/01/2020	Lough Kinale and Derragh Lough	Tufted Duck	76		PM
07/02/2020	Lough Sheelin	Tufted Duck	4		PM
07/02/2020	Lough Sheelin	Tufted Duck	39		PM
07/02/2020	Lough Sheelin	Tufted Duck	408		PM
07/02/2020	Lough Kinale and Derragh Lough	Tufted Duck	63		PM

07/02/2020	Derragh Lough	Tufted Duck	12		PM
07/02/2020	Lough Derravaragh	Tufted Duck	23		PM
21/02/2020	Lough Sheelin	Tufted Duck	82		PM
21/02/2020	Lough Sheelin	Tufted Duck	325		PM
21/02/2020	Lough Kinale and Derragh Lough	Tufted Duck	13		PM
21/02/2020	Lough Derravaragh	Tufted Duck	5		PM
21/02/2020	Lough Derravaragh	Tufted Duck	20		PM
10/03/2020	Lough Sheelin	Tufted Duck	9		PM
10/03/2020	Lough Kinale and Derragh Lough	Tufted Duck	30		PM
10/03/2020	Bracklagh Lough	Tufted Duck	72		PM
10/03/2020	Derragh Lough	Tufted Duck	7		PM
10/03/2020	Lough Derravaragh	Tufted Duck	10		PM
10/03/2020	Lough Derravaragh	Tufted Duck	25		PM
10/03/2020	Lough Derravaragh	Tufted Duck	28		PM
25/03/2020	Lough Kinale and Derragh Lough	Tufted Duck	75	FL, (Lakes and ponds)	DM
25/03/2020	Bracklagh Lough	Tufted Duck	5	FL, (Lakes and ponds)	DM
25/03/2020	Derragh Lough	Tufted Duck	2		DM
25/03/2020	Lough Derravaragh	Tufted Duck	25		DM
25/03/2020	Lough Derravaragh	Tufted Duck	5	FL, (Lakes and ponds)	DM

Table 1-31 Teal Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
T001	18/12/2016	4	Teal	7	16:49	25	10	15			cutover/woodland	ascended	PT

Table 1-32 Teal Winter Transect Survey Data

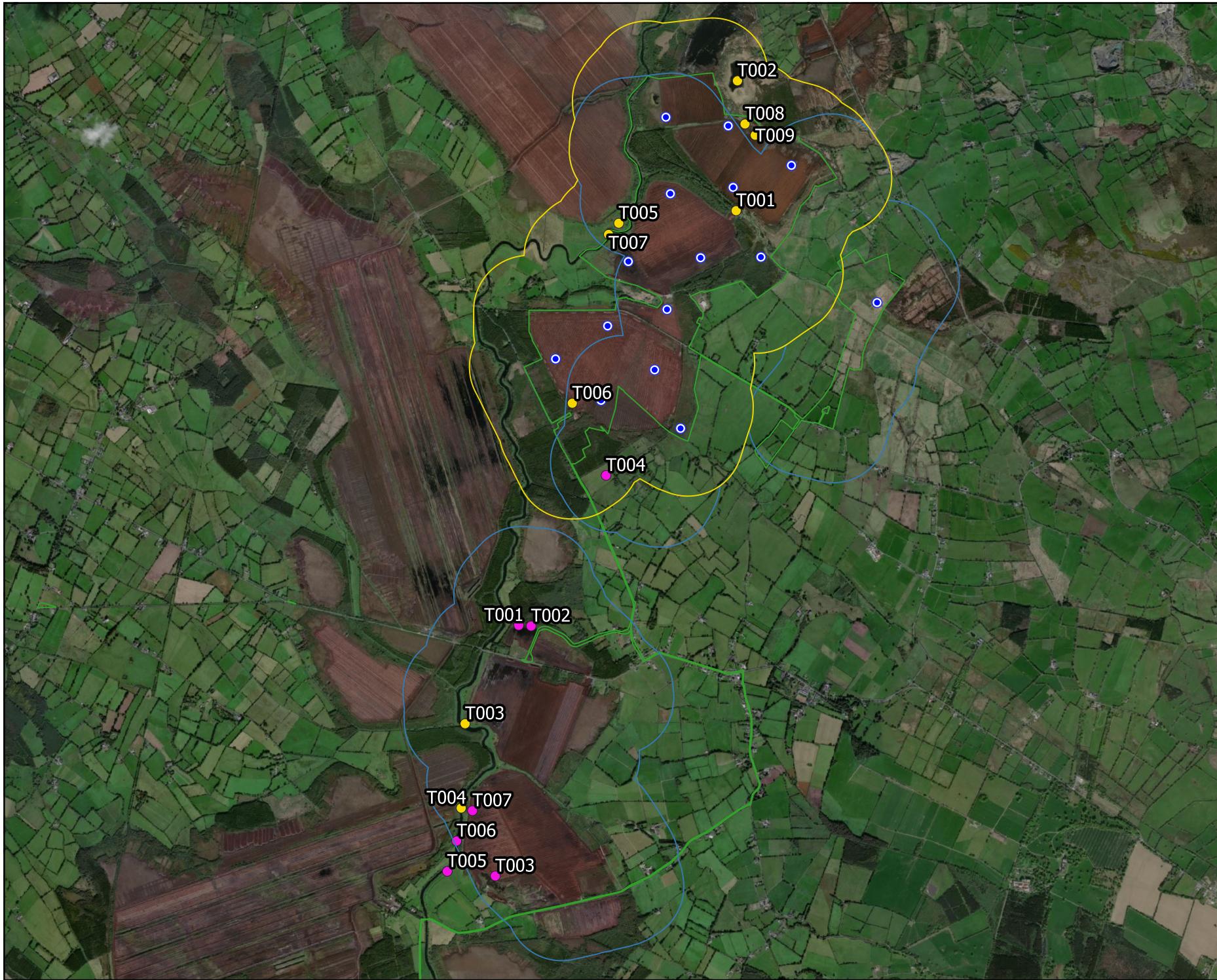
Winter Transect Surveys								
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity		Comments	Surveyor
T001	15/12/2015		Eurasian Teal	1				PT
T002	24/12/2015		Eurasian Teal	50				PT
T003	29/12/2015		Eurasian Teal	2				PT
T004	29/12/2015		Eurasian Teal	36				PT
T005	11/02/2016		Eurasian Teal	1				PT
T006	12/02/2016		Eurasian Teal	1				PT
T007	24/02/2016		Eurasian Teal	5				J.Cy
T008	28/01/2017		Eurasian Teal	3	FW4, (Drainage ditches) feeding			P.Troake
T009	27/03/2017		Eurasian Teal	2				P.Troake
T001	12/12/2018	11:06:05	Teal	4	FW4, (Drainage ditches) Flushed			PM
T002	15/01/2019	12:21:44	Teal	4	FW4, (Drainage ditches) flushed			PM
T003	15/01/2019	14:59:17	Teal	9	PB4, (Cutover bog) flying			PM
T004	06/01/2020	15:01:20	Teal	1	GS4, (Wet grassland)	Flushed from drain		PM
T005	07/01/2020	09:40:43	Teal	3		Flushed, flew along river before landing again		PM
T006	19/03/2020		Teal	2	PB4, (Cutover bog) On river			DM
T007	20/03/2020		Teal	3	PB4, (Cutover bog) on flooded bog and river			DM

Table 1-33 Teal Waterfowl Survey Data

Waterfowl Surveys						
Date	Location	Species	Number of birds	Notes on habitat and activity		Surveyor
27/10/2015	Lough Kinale	Eurasian Teal	11			DM
16/01/2016	Derravaragh	Eurasian Teal	54			
17/01/2016	Kinale	Eurasian Teal	2			
10/02/2016	Derravaragh	Eurasian Teal	2			

05/03/2016	Derravaragh	Eurasian Teal	8		
06/03/2016	Bracklagh	Eurasian Teal	2		
06/03/2016	Kinale	Eurasian Teal	3		
30/03/2016	Derravaragh	Eurasian Teal	48		
19/04/2016	Derravaragh	Eurasian Teal	5		P.T
27/04/2016	Derragh	Eurasian Teal	1		P.T
15/09/2016	Derravaragh	Eurasian Teal	84		
31/10/2016	Derravaragh	Eurasian Teal	8		PT
31/10/2016	Kinale	Eurasian Teal	10		PT
28/11/2016	Derravaragh	Eurasian Teal	3		PT
17/12/2016	Bane (including newly flooded area)	Eurasian Teal	16		PT-JC
17/12/2016	Derravaragh	Eurasian Teal	18		PT
01/02/2017	Lough Bracklagh	Eurasian Teal	1		J. Carey
01/02/2017	Lough Sheelin	Eurasian Teal	1		J. Carey
16/02/2017	Area N. of Lough Bane	Eurasian Teal	4		J. Carey
16/02/2017	Lough Kinale	Eurasian Teal	20		J. Carey
16/02/2017	Lough Bane	Eurasian Teal	14		J. Carey
16/02/2017	Lough Derragh	Eurasian Teal	4		J. Carey
28/02/2017	Lough Bane	Eurasian Teal	22		J. Carey
12/03/2017	Lough Bane	Eurasian Teal	2		J. Carey
14/08/2017	Lough Bane	Eurasian Teal	1		DM
19/09/2018	Lough Bane	Teal	6		PM
06/11/2018	Lough Derravaragh	Teal	122		PM
20/11/2018	Lough Kinale and Derragh Lough	Teal	17		PM





Map Legend

- [Green Box] EIAR Site Boundary
- [Blue Circle] Turbine Location
- [Yellow Box] Winter Transect Survey Area (500m) (2015/17)
- [Blue Box] Winter Transect Survey Area (500m) (2018/20)
- [Yellow Dot] Teal Observation (2015/17)
- [Pink Dot] Teal Observation (2018/20)

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Drawing Title:
Teal Winter Transect Survey Observations

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-5-7
Scale	Date
1:45000	26.01.2021

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Table 1-34 Coot Breeding Bird Survey Data

Breeding Bird Surveys							
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Comments	Surveyor
CO001	26/06/2019	06:05:55	Coot	1		On Flood	PM

Table 1-35 Coot Winter Transect Survey Data

Winter Transect Surveys							
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Comments	Surveyor
CO001	14/03/2016		Common Coot	2			JCY
CO002	27/03/2017		Common Coot	4			P.Troake
CO001	20/03/2020		Coot	1	PB4, (Cutover bog) on bog pond		DM

Table 1-36 Coot Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
27/10/2015	Derragh	Common Coot	42		DM
27/10/2015	Sheelin	Common Coot	7		DM
20/12/2015	Bracklagh	Common Coot	6		
20/12/2015	Derragh	Common Coot	1		
20/12/2015	Sheelin	Common Coot	300		
21/12/2015	Derravaragh	Common Coot	523		
30/12/2015	Bracklagh	Common Coot	14		
30/12/2015	Derragh	Common Coot	1		
30/12/2015	Kinale	Common Coot	111		
30/12/2015	Sheelin	Common Coot	591		
31/12/2015	Derravaragh	Common Coot	561		
16/01/2016	Derravaragh	Common Coot	477		
17/01/2016	Bracklagh	Common Coot	18		
17/01/2016	Derragh	Common Coot	8		
17/01/2016	Kinale	Common Coot	510		
17/01/2016	Sheelin	Common Coot	293		
10/02/2016	Derravaragh	Common Coot	442		
12/02/2016	Bracklagh	Common Coot	11		
12/02/2016	Derragh	Common Coot	23		
12/02/2016	Kinale	Common Coot	412		
12/02/2016	Sheelin	Common Coot	208		

05/03/2016	Derravaragh	Common Coot	33		
06/03/2016	Bracklagh	Common Coot	4		
06/03/2016	Derragh	Common Coot	30		
06/03/2016	Kinale	Common Coot	139		
06/03/2016	Sheelin	Common Coot	6		
30/03/2016	Bracklagh	Common Coot	4		
30/03/2016	Derragh	Common Coot	16		
30/03/2016	Derravaragh	Common Coot	87		
30/03/2016	Kinale	Common Coot	43		
19/04/2016	Bracklagh	Common Coot	6	P.T	
19/04/2016	Sheelin	Common Coot	1	P.T	
19/04/2016	Kinale	Common Coot	17	P.T	
19/04/2016	Derragh	Common Coot	14	P.T	
19/04/2016	Derravaragh	Common Coot	108	P.T	
27/04/2016	Bracklagh	Common Coot	2	P.T	
27/04/2016	Sheelin	Common Coot	3	P.T	
27/04/2016	Kinale	Common Coot	3	P.T	
27/04/2016	Derragh	Common Coot	7	P.T	
27/04/2016	Derravaragh	Common Coot	58	P.T	
16/05/2016	Bracklagh	Common Coot	2		
16/05/2016	Derragh	Common Coot	8		
16/05/2016	Derravaragh	Common Coot	23		
16/05/2016	Kinale	Common Coot	1		
13/08/2016	Bracklagh	Common Coot	25		
13/08/2016	Derragh	Common Coot	18		
13/08/2016	Kinale	Common Coot	68		
13/08/2016	Sheelin	Common Coot	1		
28/08/2016	Bracklagh	Common Coot	7		
28/08/2016	Derragh	Common Coot	29		
28/08/2016	Kinale	Common Coot	160		
28/08/2016	Sheelin	Common Coot	1		
15/09/2016	Bracklagh	Common Coot	45		
15/09/2016	Derragh	Common Coot	34		
15/09/2016	Derravaragh	Common Coot	1129		
15/09/2016	Kinale	Common Coot	98		
07/10/2016	Derragh	Common Coot	45	SC	
17/10/2016	Bracklagh	Common Coot	14	PT-JC	
17/10/2016	Derravaragh	Common Coot	488	PT-JC	
17/10/2016	Kinale	Common Coot	125	PT-JC	
17/10/2016	Sheelin	Common Coot	36	PT-JC	
31/10/2016	Derravaragh	Common Coot	348	PT	
31/10/2016	Kinale	Common Coot	1	PT	
31/10/2016	Sheelin	Common Coot	190	PT	

01/11/2016	Derragh	Common Coot	64		SC
15/11/2016	Sheelin	Common Coot	1565		PT-JC
15/11/2016	Sheelin	Common Coot	13		PT-JC
15/11/2016	Sheelin	Common Coot	9		PT-JC
15/11/2016	Sheelin	Common Coot	274		PT-JC
28/11/2016	Derragh	Common Coot	563		PT-JC
28/11/2016	Derragh	Common Coot	1		PT-JC
28/11/2016	Derravaragh	Common Coot	951		PT
17/12/2016	Derravaragh	Common Coot	1239		PT
17/12/2016	Kinale	Common Coot	41		PT-JC
17/12/2016	Sheelin	Common Coot	227		PT-JC
29/12/2016	Derragh	Common Coot	5		PT-JC
29/12/2016	Derravaragh	Common Coot	890		PT-JC
29/12/2016	Kinale	Common Coot	3		PT-JC
29/12/2016	Sheelin	Common Coot	265		PT-JC
16/01/2017	Lough Bracklagh	Common Coot	5		J. Carey
16/01/2017	Lough Derragh	Common Coot	32		J. Carey
16/01/2017	Lough Kinale	Common Coot	50		J. Carey
16/01/2017	Lough Sheelin	Common Coot	213		J. Carey
16/01/2017	Lough Sheelin	Common Coot	163		J. Carey
01/02/2017	Lough Bracklagh	Common Coot	6		J. Carey
01/02/2017	Lough Derragh	Common Coot	13		J. Carey
01/02/2017	Lough Sheelin	Common Coot	1		J. Carey
01/02/2017	Lough Sheelin	Common Coot	29		J. Carey
01/02/2017	Lough Sheelin	Common Coot	200		J. Carey
16/02/2017	Lough Kinale	Common Coot	42		J. Carey
16/02/2017	Lough Kinale	Common Coot	3		J. Carey
16/02/2017	Lough Bracklagh	Common Coot	2		J. Carey
16/02/2017	Lough Derragh	Common Coot	30		J. Carey
16/02/2017	Lough Sheelin	Common Coot	137		J. Carey
16/02/2017	Lough Sheelin	Common Coot	196		J. Carey
28/02/2017	Lough Bracklagh	Common Coot	5		J. Carey
28/02/2017	Lough Derragh	Common Coot	32		J. Carey
28/02/2017	Lough Kinale	Common Coot	108		J. Carey
28/02/2017	Lough Kinale	Common Coot	11		J. Carey
28/02/2017	Lough Sheelin	Common Coot	194		J. Carey
12/03/2017	Lough Kinale	Common Coot	62		J. Carey
12/03/2017	Lough Kinale	Common Coot	5		J. Carey
12/03/2017	Lough Bracklagh	Common Coot	4		J. Carey
12/03/2017	Lough Derragh	Common Coot	28		J. Carey
12/03/2017	Lough Sheelin	Common Coot	1	Several fishing boats in the area	J. Carey
12/03/2017	Lough Sheelin	Common Coot	30	Several fishing boats in the area	J. Carey
05/04/2017	Lough Sheelin	Common Coot	5		PM

05/04/2017	Lough Sheelin	Common Coot	16		PM
05/04/2017	Bracklagh Lough	Common Coot	2		PM
05/04/2017	Lough Kinale	Common Coot	6		PM
05/04/2017	Derragh Lough	Common Coot	14		PM
05/04/2017	Lough Bane	Common Coot	1		PM
05/04/2017	Lough Sheelin	Common Coot	8		PM
05/04/2017	Lough Kinale	Common Coot	1		PM
05/04/2017	Bracklagh Lough	Common Coot	4		PM
05/04/2017	Derragh Lough	Common Coot	5		PM
04/05/2017	Bracklagh Lough	Common Coot	12		PM
26/05/2017	Lough Bane	Common Coot	1		PM
26/05/2017	Lough Sheelin	Common Coot	1		PM
26/05/2017	Lough Kinale	Common Coot	2		PM
26/05/2017	Bracklagh Lough	Common Coot	9		PM
26/05/2017	Derragh Lough	Common Coot	5		PM
14/08/2017	Lough Sheelin	Common Coot	5	inc. juvs	DM
14/08/2017	Bracklagh Lough	Common Coot	14	inc. juvs	DM
14/08/2017	Derragh Lough	Common Coot	18		DM
24/08/2017	Lough Sheelin	Common Coot	5		DM
24/08/2017	Lough Sheelin	Common Coot	19		DM
24/08/2017	Lough Kinale	Common Coot	51		DM
24/08/2017	Bracklagh Lough	Common Coot	23		DM
24/08/2017	Derragh Lough	Common Coot	9		DM
01/09/2017	Lough Sheelin	Common Coot	12	Feeding and Roosting on open water	JH
01/09/2017	Bracklagh Lough	Common Coot	33	Feeding and Roosting on open water	JH
01/09/2017	Derragh Lough	Common Coot	1	Feeding and Roosting on open water	JH
01/09/2017	Lough Derravaragh	Common Coot	60	Feeding and Roosting on open water	JH
01/09/2017	Lough Derravaragh	Common Coot	160	Feeding and Roosting on open water	JH
01/09/2017	Lough Derravaragh	Common Coot	4	Feeding and Roosting on open water	JH
01/09/2017	Lough Derravaragh	Common Coot	81	Feeding and Roosting on open water	JH
01/09/2017	Lough Derravaragh	Common Coot	145	Feeding and Roosting on open water	JH
04/04/2018	Lough Derravaragh	Coot	3		PM
04/04/2018	Lough Derravaragh	Coot	18		PM
04/04/2018	Lough Derravaragh	Coot	13		PM
04/04/2018	Lough Derravaragh	Coot	21		PM
22/04/2018	Lough Kinale and Derragh Lough	Coot	4		PM
22/04/2018	Derragh Lough	Coot	8		PM
22/04/2018	Lough Derravaragh	Coot	5		PM
22/04/2018	Lough Derravaragh	Coot	5		PM
03/05/2018	Lough Sheelin	Coot	1		PM
03/05/2018	Lough Kinale and Derragh Lough	Coot	1		PM
03/05/2018	Bracklagh Lough	Coot	7		PM
03/05/2018	Derragh Lough	Coot	6		PM

03/05/2018	Lough Derravaragh	Coot	1		PM
03/05/2018	Lough Derravaragh	Coot	1		PM
18/05/2018	Lough Kinale and Derragh Lough	Coot	4		PM
18/05/2018	Derragh Lough	Coot	1		PM
18/05/2018	Lough Derravaragh	Coot	3		PM
18/05/2018	Lough Derravaragh	Coot	23		PM
03/09/2018	Lough Sheelin	Coot	8		PM
03/09/2018	Bracklagh Lough	Coot	22		PM
03/09/2018	Derragh Lough	Coot	7		PM
03/09/2018	Lough Derravaragh	Coot	4		PM
19/09/2018	Lough Sheelin	Coot	19		PM
19/09/2018	Lough Kinale and Derragh Lough	Coot	89		PM
19/09/2018	Bracklagh Lough	Coot	18		PM
19/09/2018	Derragh Lough	Coot	29		PM
05/10/2018	Bracklagh Lough	Coot	1		PM
05/10/2018	Derragh Lough	Coot	4		PM
05/10/2018	Lough Derravaragh	Coot	106		PM
22/10/2018	Lough Sheelin	Coot	230		PM
22/10/2018	Derragh Lough	Coot	3		PM
22/10/2018	Lough Derravaragh	Coot	395		PM
06/11/2018	Lough Sheelin	Coot	157		PM
06/11/2018	Lough Kinale and Derragh Lough	Coot	2		PM
06/11/2018	Lough Derravaragh	Coot	395		PM
20/11/2018	Lough Sheelin	coot	227		PM
20/11/2018	Lough Derravaragh	Coot	189		PM
20/11/2018	Lough Derravaragh	Coot	409		PM
06/12/2018	Lough Sheelin	Coot	191		PM
06/12/2018	Lough Kinale and Derragh Lough	Coot	13		PM
06/12/2018	Lough Derravaragh	Coot	437		PM
20/12/2018	Lough Sheelin	Coot	361		PM
20/12/2018	Lough Derravaragh	Coot	2		PM
20/12/2018	Lough Derravaragh	Coot	584		PM
10/01/2019	Lough Sheelin	Coot	556		PM
10/01/2019	Lough Kinale and Derragh Lough	Coot	7		PM
10/01/2019	Derragh Lough	Coot	8		PM
10/01/2019	Lough Derravaragh	Coot	4		PM
10/01/2019	Lough Derravaragh	coot	560		PM
29/01/2019	Lough Sheelin	Coot	410		PM
29/01/2019	Lough Kinale and Derragh Lough	Coot	11		PM
29/01/2019	Derragh Lough	Coot	2		PM
29/01/2019	Lough Derravaragh	Coot	92		PM
29/01/2019	Lough Derravaragh	Coot	197		PM
08/02/2019	Lough Sheelin	Coot	581		PM

08/02/2019	Lough Kinale and Derragh Lough	Coot	38		PM
08/02/2019	Bracklagh Lough	Coot	1		PM
08/02/2019	Lough Derravaragh	Coot	16		PM
08/02/2019	Lough Derravaragh	Coot	362		PM
26/02/2019	Lough Sheelin	Coot	2		PM
26/02/2019	Lough Sheelin	Coot	97		PM
26/02/2019	Lough Kinale and Derragh Lough	Coot	29		PM
26/02/2019	Derragh Lough	Coot	11		PM
26/02/2019	Lough Derravaragh	Coot	9		PM
26/02/2019	Lough Derravaragh	Coot	247		PM
12/03/2019	Lough Sheelin	Coot	1		PM
12/03/2019	Lough Sheelin	Coot	68		PM
12/03/2019	Lough Sheelin	Coot	3		PM
12/03/2019	Lough Kinale and Derragh Lough	Coot	1		PM
12/03/2019	Bracklagh Lough	Coot	1		PM
12/03/2019	Derragh Lough	Coot	10		PM
12/03/2019	Lough Derravaragh	Coot	12		PM
12/03/2019	Lough Derravaragh	Coot	125		PM
25/03/2019	Lough Sheelin	Coot	5		PM
25/03/2019	Lough Sheelin	Coot	3		PM
25/03/2019	Lough Sheelin	Coot	13		PM
25/03/2019	Lough Kinale and Derragh Lough	Coot	8		PM
25/03/2019	Bracklagh Lough	Coot	1		PM
25/03/2019	Derragh Lough	Coot	11		PM
25/03/2019	Lough Derravaragh	Coot	97		PM
09/04/2019	Lough Sheelin	Coot	1		PM
09/04/2019	Bracklagh Lough	Coot	2		PM
09/04/2019	Derragh Lough	Coot	9		PM
09/04/2019	Lough Derravaragh	Coot	1		PM
09/04/2019	Lough Derravaragh	Coot	17		PM
24/04/2019	Lough Bane	Coot	1		PM
24/04/2019	Derragh Lough	Coot	1		PM
24/04/2019	Lough Derravaragh	Coot	2		PM
24/04/2019	Lough Derravaragh	Coot	11		PM
20/08/2019	Lough Kinale and Derragh Lough	Coot	5		LD
20/08/2019	Bracklagh Lough	Coot	2		LD
20/08/2019	Lough Sheelin	Coot	3		LD
20/08/2019	Lough Sheelin	Coot	12		LD
20/08/2019	Lough Sheelin	Coot	5		LD
20/08/2019	Lough Derravaragh	Coot	104		LD
20/08/2019	Lough Derravaragh	Coot	5		LD
10/09/2019	Lough Sheelin	Coot	2		PM
10/09/2019	Lough Sheelin	Coot	98		PM

10/09/2019	Lough Kinale and Derragh Lough	Coot	4		PM
10/09/2019	Bracklagh Lough	Coot	20		PM
10/09/2019	Lough Derravaragh	Coot	43		PM
24/09/2019	Lough Sheelin	Coot	78		PM
24/09/2019	Lough Sheelin	Coot	1		PM
24/09/2019	Bracklagh Lough	Coot	28		PM
24/09/2019	Derragh Lough	Coot	8		PM
24/09/2019	Lough Derravaragh	Coot	159		PM
30/09/2019	Lough Sheelin	Coot	3		PM
30/09/2019	Lough Kinale and Derragh Lough	Coot	9		PM
30/09/2019	Bracklagh Lough	Coot	14		PM
30/09/2019	Derragh Lough	Coot	3		PM
30/09/2019	Lough Derravaragh	Coot	40		PM
09/10/2019	Lough Sheelin	Coot	449		PM
09/10/2019	Lough Sheelin	Coot	4		PM
09/10/2019	Lough Kinale and Derragh Lough	Coot	102		PM
09/10/2019	Bracklagh Lough	Coot	116		PM
09/10/2019	Derragh Lough	Coot	71		PM
09/10/2019	Lough Derravaragh	Coot	2		PM
09/10/2019	Lough Derravaragh	Coot	198		PM
23/10/2019	Lough Sheelin	Coot	457		PM
23/10/2019	Lough Sheelin	Coot	192		PM
23/10/2019	Lough Kinale and Derragh Lough	Coot	1		PM
23/10/2019	Bracklagh Lough	Coot	0		PM
23/10/2019	Derragh Lough	Coot	45		PM
23/10/2019	Lough Derravaragh	Coot	35		PM
23/10/2019	Lough Derravaragh	Coot	83		PM
07/11/2019	Lough Sheelin	Coot	565		PM
07/11/2019	Lough Sheelin	Coot	3		PM
07/11/2019	Lough Kinale and Derragh Lough	Coot	3		PM
07/11/2019	Bracklagh Lough	Coot	1		PM
07/11/2019	Derragh Lough	Coot	1		PM
07/11/2019	Lough Derravaragh	Coot	37		PM
07/11/2019	Lough Derravaragh	Coot	65		PM
19/11/2019	Lough Sheelin	coot	760		PM
19/11/2019	Lough Sheelin	Coot	261		PM
19/11/2019	Lough Kinale and Derragh Lough	Coot	29		PM
19/11/2019	Derragh Lough	Coot	4		PM
19/11/2019	Lough Derravaragh	Coot	47		PM
19/11/2019	Lough Derravaragh	Coot	12		PM
19/11/2019	Lough Derravaragh	Coot	120		PM
04/12/2019	Lough Sheelin	Coot	516		PM
04/12/2019	Lough Sheelin	Coot	137		PM

04/12/2019	Lough Kinale and Derragh Lough	Coot	161		PM
04/12/2019	Derragh Lough	Coot	13		PM
04/12/2019	Lough Derravaragh	Coot	6		PM
04/12/2019	Lough Derravaragh	Coot	216		PM
18/12/2019	Lough Sheelin	Coot	227		PM
18/12/2019	Lough Kinale and Derragh Lough	Coot	118		PM
18/12/2019	Derragh Lough	Coot	51		PM
18/12/2019	Lough Derravaragh	Coot	340		PM
03/01/2020	Lough Sheelin	Coot	660		PM
03/01/2020	Lough Sheelin	Coot	10		PM
03/01/2020	Lough Kinale and Derragh Lough	Coot	122		PM
03/01/2020	Bracklagh Lough	Coot	8		PM
03/01/2020	Derragh Lough	Coot	7		PM
03/01/2020	Lough Derravaragh	Coot	9		PM
03/01/2020	Lough Derravaragh	Coot	16		PM
20/01/2020	Lough Sheelin	Coot	642		PM
20/01/2020	Lough Sheelin	Coot	307		PM
20/01/2020	Lough Kinale and Derragh Lough	Coot	295		PM
20/01/2020	Derragh Lough	Coot	15		PM
20/01/2020	Lough Derravaragh	Coot	8		PM
20/01/2020	Lough Derravaragh	Coot	49		PM
20/01/2020	Lough Derravaragh	Coot	323		PM
07/02/2020	Lough Sheelin	Coot	179		PM
07/02/2020	Lough Sheelin	Coot	222		PM
07/02/2020	Lough Kinale and Derragh Lough	Coot	79		PM
07/02/2020	Bracklagh Lough	Coot	1		PM
07/02/2020	Derragh Lough	Coot	18		PM
07/02/2020	Lough Derravaragh	Coot	6		PM
07/02/2020	Lough Derravaragh	Coot	14		PM
07/02/2020	Lough Derravaragh	Coot	140		PM
21/02/2020	Lough Sheelin	Coot	106		PM
21/02/2020	Lough Sheelin	Coot	80		PM
21/02/2020	Derragh Lough	Coot	6		PM
21/02/2020	Lough Derravaragh	Coot	2		PM
21/02/2020	Lough Derravaragh	Coot	7		PM
21/02/2020	Lough Derravaragh	Coot	128		PM
10/03/2020	Lough Sheelin	Coot	6		PM
10/03/2020	Lough Kinale and Derragh Lough	Coot	9		PM
10/03/2020	Derragh Lough	Coot	8		PM
10/03/2020	Lough Derravaragh	Coot	1		PM
10/03/2020	Lough Derravaragh	Coot	3		PM
10/03/2020	Lough Derravaragh	Coot	108		PM
25/03/2020	Lough Sheelin	Coot	2	FL, (Lakes and ponds)	DM

25/03/2020	Lough Kinale and Derragh Lough	Coot	25	FL , (Lakes and ponds)	DM
25/03/2020	Derragh Lough	Coot	17	FL , (Lakes and ponds)	DM
25/03/2020	Lough Derravaragh	Coot	5		DM
25/03/2020	Lough Derravaragh	Coot	2	FL , (Lakes and ponds)	DM
25/03/2020	Lough Derravaragh	Coot	1	FL , (Lakes and ponds)	DM



Map Legend

- EIAR Site Boundary
- 500m Survey Radius (2015/17)
- 500m Survey Radius (2018/20)
- Turbine Location
- Coot Observation

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Drawing Title
Coot Breeding Bird Survey
Observations

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-3-2
Scale	Date
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Table 1-37 Great-crested Grebe Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
27/10/2015	Lough Kinale	Great Crested Grebe	2		DM
27/10/2015	Sheelin	Great Crested Grebe	2		DM
20/12/2015	Kinale	Great Crested Grebe	2		
20/12/2015	Sheelin	Great Crested Grebe	14		
21/12/2015	Derravaragh	Great Crested Grebe	1		
30/12/2015	Kinale	Great Crested Grebe	2		
30/12/2015	Sheelin	Great Crested Grebe	17		
31/12/2015	Derravaragh	Great Crested Grebe	2		
16/01/2016	Derravaragh	Great Crested Grebe	4		
17/01/2016	Derragh	Great Crested Grebe	1		
17/01/2016	Kinale	Great Crested Grebe	6		
17/01/2016	Sheelin	Great Crested Grebe	12		
10/02/2016	Derravaragh	Great Crested Grebe	5		
12/02/2016	Bracklagh	Great Crested Grebe	1		
12/02/2016	Derragh	Great Crested Grebe	1		
12/02/2016	Kinale	Great Crested Grebe	21		
12/02/2016	Sheelin	Great Crested Grebe	24		
05/03/2016	Derravaragh	Great Crested Grebe	9		
06/03/2016	Bracklagh	Great Crested Grebe	2		
06/03/2016	Kinale	Great Crested Grebe	30		
06/03/2016	Sheelin	Great Crested Grebe	24		
30/03/2016	Bracklagh	Great Crested Grebe	2		
30/03/2016	Derragh	Great Crested Grebe	1		
30/03/2016	Derravaragh	Great Crested Grebe	18		
30/03/2016	Kinale	Great Crested Grebe	26		
30/03/2016	Sheelin	Great Crested Grebe	32		
19/04/2016	Bracklagh	Great Crested Grebe	4		P.T
19/04/2016	Sheelin	Great Crested Grebe	16		P.T
19/04/2016	Kinale	Great Crested Grebe	20		P.T
19/04/2016	Derravaragh	Great Crested Grebe	49		P.T
27/04/2016	Bracklagh	Great Crested Grebe	2		P.T
27/04/2016	Sheelin	Great Crested Grebe	22		P.T
27/04/2016	Kinale	Great Crested Grebe	18		P.T
27/04/2016	Derravaragh	Great Crested Grebe	29		P.T
16/05/2016	Derragh	Great Crested Grebe	1		
16/05/2016	Derravaragh	Great Crested Grebe	17		
16/05/2016	Kinale	Great Crested Grebe	24		
16/05/2016	Sheelin	Great Crested Grebe	24		
13/08/2016	Bracklagh	Great Crested Grebe	5		

13/08/2016	Derragh	Great Crested Grebe	2		
13/08/2016	Kinale	Great Crested Grebe	14		
13/08/2016	Sheelin	Great Crested Grebe	4		
28/08/2016	Bracklagh	Great Crested Grebe	3		
28/08/2016	Kinale	Great Crested Grebe	1		
28/08/2016	Sheelin	Great Crested Grebe	9		
15/09/2016	Bracklagh	Great Crested Grebe	4		
15/09/2016	Derravaragh	Great Crested Grebe	15		
15/09/2016	Sheelin	Great Crested Grebe	4		
07/10/2016	Derragh	Great Crested Grebe	1		SC
17/10/2016	Bracklagh	Great Crested Grebe	2		PT-JC
17/10/2016	Derravaragh	Great Crested Grebe	11		PT-JC
17/10/2016	Kinale	Great Crested Grebe	2		PT-JC
17/10/2016	Sheelin	Great Crested Grebe	34		PT-JC
31/10/2016	Bracklagh	Great Crested Grebe	2		PT
31/10/2016	Derravaragh	Great Crested Grebe	17		PT
31/10/2016	Kinale	Great Crested Grebe	4		PT
31/10/2016	Sheelin	Great Crested Grebe	16		PT
01/11/2016	Derragh	Great Crested Grebe	1		SC
15/11/2016	Bracklagh	Great Crested Grebe	1		PT-JC
15/11/2016	Sheelin	Great Crested Grebe	33		PT-JC
15/11/2016	Sheelin	Great Crested Grebe	15		PT-JC
15/11/2016	Sheelin	Great Crested Grebe	13		PT-JC
28/11/2016	Derragh	Great Crested Grebe	7		PT-JC
28/11/2016	Derragh	Great Crested Grebe	4		PT-JC
28/11/2016	Derravaragh	Great Crested Grebe	10		PT
17/12/2016	Derravaragh	Great Crested Grebe	4		PT
17/12/2016	Kinale	Great Crested Grebe	3		PT-JC
17/12/2016	Sheelin	Great Crested Grebe	33		PT-JC
29/12/2016	Derravaragh	Great Crested Grebe	13		PT-JC
29/12/2016	Kinale	Great Crested Grebe	4		PT-JC
29/12/2016	Sheelin	Great Crested Grebe	18		PT-JC
16/01/2017	Lough Kinale	Great Crested Grebe	5		J. Carey
16/01/2017	Lough Sheelin	Great Crested Grebe	5		J. Carey
16/01/2017	Lough Sheelin	Great Crested Grebe	5		J. Carey
16/01/2017	Lough Sheelin	Great Crested Grebe	8		J. Carey
01/02/2017	Lough Kinale	Great Crested Grebe	3		J. Carey
01/02/2017	Lough Bracklagh	Great Crested Grebe	3		J. Carey
01/02/2017	Lough Sheelin	Great Crested Grebe	2		J. Carey
01/02/2017	Lough Sheelin	Great Crested Grebe	5		J. Carey
01/02/2017	Lough Sheelin	Great Crested Grebe	10		J. Carey
16/02/2017	Lough Kinale	Great Crested Grebe	4		J. Carey
16/02/2017	Lough Kinale	Great Crested Grebe	4		J. Carey

16/02/2017	Lough Sheelin	Great Crested Grebe	1		J. Carey
16/02/2017	Lough Sheelin	Great Crested Grebe	6		J. Carey
28/02/2017	Lough Bracklagh	Great Crested Grebe	2		J. Carey
28/02/2017	Lough Derragh	Great Crested Grebe	1		J. Carey
28/02/2017	Lough Kinale	Great Crested Grebe	17		J. Carey
28/02/2017	Lough Sheelin	Great Crested Grebe	2		J. Carey
28/02/2017	Lough Sheelin	Great Crested Grebe	8		J. Carey
28/02/2017	Lough Sheelin	Great Crested Grebe	10		J. Carey
12/03/2017	Lough Kinale	Great Crested Grebe	42		J. Carey
12/03/2017	Lough Kinale	Great Crested Grebe	5		J. Carey
12/03/2017	Lough Bracklagh	Great Crested Grebe	4		J. Carey
12/03/2017	Lough Derragh	Great Crested Grebe	2		J. Carey
12/03/2017	Lough Sheelin	Great Crested Grebe	6	Several fishing boats in the area	J. Carey
12/03/2017	Lough Sheelin	Great Crested Grebe	17	Several fishing boats in the area	J. Carey
12/03/2017	Lough Sheelin	Great Crested Grebe	18	Several fishing boats in the area	J. Carey
05/04/2017	Lough Sheelin	Great Crested Grebe	8		PM
05/04/2017	Lough Sheelin	Great Crested Grebe	12		PM
05/04/2017	Bracklagh Lough	Great Crested Grebe	2		PM
05/04/2017	Lough Kinale	Great Crested Grebe	15		PM
05/04/2017	Derragh Lough	Great Crested Grebe	2		PM
05/04/2017	Lough Sheelin	Great Crested Grebe	1		PM
05/04/2017	Lough Sheelin	Great Crested Grebe	3		PM
05/04/2017	Lough Sheelin	Great Crested Grebe	2		PM
05/04/2017	Lough Kinale	Great Crested Grebe	14		PM
05/04/2017	Bracklagh Lough	Great Crested Grebe	4		PM
05/04/2017	Derragh Lough	Great Crested Grebe	3		PM
04/05/2017	Lough Sheelin	Great Crested Grebe	2		PM
04/05/2017	Lough Sheelin	Great Crested Grebe	3		PM
04/05/2017	Lough Sheelin	Great Crested Grebe	6		PM
04/05/2017	Lough Kinale	Great Crested Grebe	4		PM
26/05/2017	Lough Sheelin	Great Crested Grebe	3		PM
26/05/2017	Lough Sheelin	Great Crested Grebe	6		PM
26/05/2017	Lough Kinale	Great Crested Grebe	16		PM
26/05/2017	Bracklagh Lough	Great Crested Grebe	1		PM
26/05/2017	Derragh Lough	Great Crested Grebe	2		PM
14/08/2017	Lough Sheelin	Great Crested Grebe	5	2 juvs	DM
14/08/2017	Bracklagh Lough	Great Crested Grebe	1		DM
24/08/2017	Lough Sheelin	Great Crested Grebe	4		DM
24/08/2017	Lough Sheelin	Great Crested Grebe	4	inc. juvs	DM
01/09/2017	Lough Sheelin	Great Crested Grebe	2	Feeding and Roosting on open water	JH
01/09/2017	Lough Sheelin	Great Crested Grebe	2	Feeding and Roosting on open water	JH
01/09/2017	Lough Sheelin	Great Crested Grebe	1	Feeding and Roosting on open water	JH
01/09/2017	Bracklagh Lough	Great Crested Grebe	1	Feeding and Roosting on open water	JH

01/09/2017	Lough Kinale	Great Crested Grebe	1	Feeding and Roosting on open water	JH
01/09/2017	Lough Derravaragh	Great Crested Grebe	2	Feeding and Roosting on open water	JH
01/09/2017	Lough Derravaragh	Great Crested Grebe	6	Feeding and Roosting on open water	JH
01/09/2017	Lough Derravaragh	Great Crested Grebe	5	Feeding and Roosting on open water	JH
04/04/2018	Lough Sheelin	Great Crested Grebe	1		PM
04/04/2018	Lough Sheelin	Great Crested Grebe	12		PM
04/04/2018	Lough Kinale and Derragh Lough	Great Crested Grebe	3		PM
04/04/2018	Brackagh Lough	Great Crested Grebe	6		PM
04/04/2018	Derragh Lough	Great Crested Grebe	2		PM
04/04/2018	Lough Derravaragh	Great Crested Grebe	2		PM
04/04/2018	Lough Derravaragh	Great Crested Grebe	8		PM
22/04/2018	Lough Sheelin	Great Crested Grebe	3		PM
22/04/2018	Lough Sheelin	Great Crested Grebe	1		PM
22/04/2018	Lough Derravaragh	Great Crested Grebe	5		PM
03/05/2018	Lough Sheelin	Great Crested Grebe	2		PM
03/05/2018	Lough Kinale and Derragh Lough	Great Crested Grebe	2		PM
03/05/2018	Brackagh Lough	Great Crested Grebe	1		PM
03/05/2018	Derragh Lough	Great Crested Grebe	1		PM
03/05/2018	Lough Derravaragh	Great Crested Grebe	1		PM
18/05/2018	Lough Sheelin	Great Crested Grebe	10		PM
18/05/2018	Lough Kinale and Derragh Lough	Great Crested Grebe	2		PM
18/05/2018	Derragh Lough	Great Crested Grebe	1		PM
18/05/2018	Lough Derravaragh	Great Crested Grebe	2		PM
18/05/2018	Lough Derravaragh	Great Crested Grebe	2		PM
03/09/2018	Lough Sheelin	Great Crested Grebe	6		PM
03/09/2018	Lough Sheelin	Great Crested Grebe	5		PM
19/09/2018	Lough Sheelin	Great Crested Grebe	4		PM
05/10/2018	Lough Sheelin	Great Crested Grebe	1		PM
05/10/2018	Lough Sheelin	Great Crested Grebe	2		PM
05/10/2018	Lough Sheelin	Great Crested Grebe	11		PM
05/10/2018	Lough Kinale and Derragh Lough	Great Crested Grebe	5		PM
05/10/2018	Lough Derravaragh	Great Crested Grebe	1		PM
05/10/2018	Lough Derravaragh	Great Crested Grebe	3		PM
22/10/2018	Lough Sheelin	Great Crested Grebe	32		PM
22/10/2018	Lough Sheelin	Great Crested Grebe	33		PM
22/10/2018	Lough Derravaragh	Great Crested Grebe	4		PM
06/11/2018	Lough Sheelin	Great Crested Grebe	2		PM
06/11/2018	Lough Sheelin	Great Crested Grebe	3		PM
06/11/2018	Lough Derravaragh	Great Crested Grebe	1		PM
20/11/2018	Lough Sheelin	Great Crested Grebe	1		PM
20/11/2018	Lough Sheelin	Great Crested Grebe	1		PM
06/12/2018	Lough Sheelin	Great Crested Grebe	1		PM
06/12/2018	Lough Sheelin	Great Crested Grebe	9		PM

06/12/2018	Lough Kinale and Derragh Lough	Great Crested Grebe	1		PM
06/12/2018	Lough Derravaragh	Great Crested Grebe	4		PM
20/12/2018	Lough Sheelin	Great Crested Grebe	15		PM
20/12/2018	Lough Sheelin	Great Crested Grebe	12		PM
20/12/2018	Lough Derravaragh	Great Crested Grebe	6		PM
10/01/2019	Lough Sheelin	Great Crested Grebe	1		PM
10/01/2019	Lough Sheelin	Great Crested Grebe	12		PM
10/01/2019	Lough Derravaragh	Great Crested Grebe	9		PM
29/01/2019	Lough Sheelin	Great Crested Grebe	3		PM
29/01/2019	Lough Sheelin	Great Crested Grebe	1		PM
29/01/2019	Lough Sheelin	Great Crested Grebe	5		PM
29/01/2019	Lough Kinale and Derragh Lough	Great Crested Grebe	5		PM
29/01/2019	Derragh Lough	Great Crested Grebe	1		PM
29/01/2019	Lough Derravaragh	Great Crested Grebe	4		PM
29/01/2019	Lough Derravaragh	Great Crested Grebe	1		PM
08/02/2019	Lough Sheelin	Great Crested Grebe	9		PM
08/02/2019	Lough Derravaragh	Great Crested Grebe	2		PM
26/02/2019	Lough Sheelin	Great Crested Grebe	8		PM
26/02/2019	Lough Sheelin	Great Crested Grebe	6		PM
26/02/2019	Lough Sheelin	Great Crested Grebe	18		PM
26/02/2019	Lough Kinale and Derragh Lough	Great Crested Grebe	5		PM
26/02/2019	Lough Derravaragh	Great Crested Grebe	10		PM
12/03/2019	Lough Sheelin	Great Crested Grebe	6		PM
12/03/2019	Lough Sheelin	Great Crested Grebe	13		PM
12/03/2019	Lough Sheelin	Great Crested Grebe	4		PM
12/03/2019	Lough Kinale and Derragh Lough	Great Crested Grebe	1		PM
12/03/2019	Brackagh Lough	Great Crested Grebe	2		PM
12/03/2019	Lough Derravaragh	Great Crested Grebe	4		PM
12/03/2019	Lough Derravaragh	Great Crested Grebe	2		PM
25/03/2019	Lough Sheelin	Great Crested Grebe	9		PM
25/03/2019	Lough Sheelin	Great Crested Grebe	17		PM
25/03/2019	Lough Sheelin	Great Crested Grebe	3		PM
25/03/2019	Lough Kinale and Derragh Lough	Great Crested Grebe	14		PM
25/03/2019	Brackagh Lough	Great Crested Grebe	2		PM
25/03/2019	Derragh Lough	Great Crested Grebe	1		PM
25/03/2019	Lough Derravaragh	Great Crested Grebe	2		PM
25/03/2019	Lough Derravaragh	Great Crested Grebe	7		PM
09/04/2019	Lough Sheelin	Great Crested Grebe	1		PM
09/04/2019	Lough Sheelin	Great Crested Grebe	2		PM
09/04/2019	Lough Kinale and Derragh Lough	Great Crested Grebe	3		PM
09/04/2019	Brackagh Lough	Great Crested Grebe	1		PM
09/04/2019	Derragh Lough	Great Crested Grebe	3		PM
09/04/2019	Lough Derravaragh	Great Crested Grebe	3		PM

24/04/2019	Lough Sheelin	Great Crested Grebe	4		PM
24/04/2019	Lough Sheelin	Great Crested Grebe	3		PM
24/04/2019	Lough Kinale and Derragh Lough	Great Crested Grebe	7		PM
24/04/2019	Bracklagh Lough	Great Crested Grebe	1		PM
24/04/2019	Derragh Lough	Great Crested Grebe	2		PM
24/04/2019	Lough Derravaragh	Great Crested Grebe	1		PM
24/04/2019	Lough Derravaragh	Great Crested Grebe	2		PM
20/08/2019	Lough Kinale and Derragh Lough	Great Crested Grebe	2		LD
20/08/2019	Bracklagh Lough	Great Crested Grebe	2		LD
20/08/2019	Derragh Lough	Great Crested Grebe	3		LD
20/08/2019	Lough Sheelin	Great Crested Grebe	2		LD
20/08/2019	Lough Sheelin	Great Crested Grebe	2		LD
20/08/2019	Lough Sheelin	Great Crested Grebe	16		LD
20/08/2019	Lough Derravaragh	Great Crested Grebe	2		LD
20/08/2019	Lough Derravaragh	Great Crested Grebe	2		LD
20/08/2019	Lough Derravaragh	Great Crested Grebe	3		LD
10/09/2019	Lough Sheelin	Great Crested Grebe	3		PM
10/09/2019	Lough Sheelin	Great Crested Grebe	6		PM
10/09/2019	Lough Sheelin	Great Crested Grebe	15		PM
10/09/2019	Bracklagh Lough	Great Crested Grebe	3		PM
10/09/2019	Lough Derravaragh	Great Crested Grebe	7		PM
24/09/2019	Lough Sheelin	Great Crested Grebe	2		PM
24/09/2019	Lough Sheelin	Great Crested Grebe	4		PM
24/09/2019	Lough Sheelin	Great Crested Grebe	7		PM
24/09/2019	Bracklagh Lough	Great Crested Grebe	2		PM
24/09/2019	Derragh Lough	Great Crested Grebe	3		PM
24/09/2019	Lough Derravaragh	Great Crested Grebe	9		PM
30/09/2019	Lough Sheelin	Great Crested Grebe	12		PM
30/09/2019	Lough Kinale and Derragh Lough	Great Crested Grebe	1		PM
30/09/2019	Bracklagh Lough	Great Crested Grebe	3		PM
30/09/2019	Lough Derravaragh	Great Crested Grebe	2		PM
09/10/2019	Lough Sheelin	Great Crested Grebe	3		PM
09/10/2019	Lough Sheelin	Great Crested Grebe	2		PM
09/10/2019	Lough Sheelin	Great Crested Grebe	5		PM
09/10/2019	Bracklagh Lough	Great Crested Grebe	2		PM
09/10/2019	Derragh Lough	Great Crested Grebe	1		PM
09/10/2019	Lough Derravaragh	Great Crested Grebe	3		PM
23/10/2019	Lough Sheelin	Great Crested Grebe	2		PM
23/10/2019	Lough Sheelin	Great Crested Grebe	4		PM
23/10/2019	Lough Sheelin	Great Crested Grebe	8		PM
23/10/2019	Bracklagh Lough	Great Crested Grebe	1		PM
23/10/2019	Derragh Lough	Great Crested Grebe	1		PM
23/10/2019	Lough Derravaragh	Great Crested Grebe	2		PM

07/11/2019	Lough Sheelin	Great Crested Grebe	2		PM
07/11/2019	Lough Sheelin	Great Crested Grebe	12		PM
07/11/2019	Lough Sheelin	Great Crested Grebe	9		PM
07/11/2019	Bracklagh Lough	Great Crested Grebe	3		PM
07/11/2019	Derragh Lough	Great Crested Grebe	1		PM
07/11/2019	Lough Derravaragh	Great Crested Grebe	3		PM
19/11/2019	Lough Sheelin	Great Crested Grebe	2		PM
19/11/2019	Lough Sheelin	Great Crested Grebe	3		PM
19/11/2019	Lough Sheelin	Great Crested Grebe	13		PM
19/11/2019	Lough Derravaragh	Great Crested Grebe	2		PM
04/12/2019	Lough Sheelin	Great Crested Grebe	1		PM
04/12/2019	Lough Sheelin	Great Crested Grebe	20		PM
04/12/2019	Lough Sheelin	Great Crested Grebe	18		PM
04/12/2019	Lough Kinale and Derragh Lough	Great Crested Grebe	1		PM
04/12/2019	Bracklagh Lough	Great Crested Grebe	1		PM
04/12/2019	Lough Derravaragh	Great Crested Grebe	5		PM
18/12/2019	Lough Sheelin	Great Crested Grebe	1		PM
18/12/2019	Lough Sheelin	Great Crested Grebe	5		PM
18/12/2019	Lough Derravaragh	Great Crested Grebe	1		PM
03/01/2020	Lough Sheelin	Great Crested Grebe	1		PM
03/01/2020	Lough Sheelin	Great Crested Grebe	25		PM
03/01/2020	Lough Sheelin	Great Crested Grebe	7		PM
03/01/2020	Lough Kinale and Derragh Lough	Great Crested Grebe	1		PM
03/01/2020	Bracklagh Lough	Great Crested Grebe	2		PM
03/01/2020	Lough Derravaragh	Great Crested Grebe	1		PM
03/01/2020	Lough Derravaragh	Great Crested Grebe	4		PM
20/01/2020	Lough Sheelin	Great Crested Grebe	6		PM
20/01/2020	Lough Sheelin	Great Crested Grebe	10		PM
20/01/2020	Lough Sheelin	Great Crested Grebe	22		PM
20/01/2020	Lough Derravaragh	Great Crested Grebe	1		PM
07/02/2020	Lough Sheelin	Great Crested Grebe	2		PM
07/02/2020	Lough Sheelin	Great Crested Grebe	6		PM
07/02/2020	Lough Sheelin	Great Crested Grebe	36		PM
07/02/2020	Lough Kinale and Derragh Lough	Great Crested Grebe	2		PM
07/02/2020	Bracklagh Lough	Great Crested Grebe	2		PM
07/02/2020	Lough Derravaragh	Great Crested Grebe	1		PM
07/02/2020	Lough Derravaragh	Great Crested Grebe	10		PM
21/02/2020	Lough Sheelin	Great Crested Grebe	1		PM
21/02/2020	Lough Sheelin	Great Crested Grebe	12		PM
10/03/2020	Lough Sheelin	Great Crested Grebe	2		PM
10/03/2020	Lough Sheelin	Great Crested Grebe	10		PM
10/03/2020	Bracklagh Lough	Great Crested Grebe	1		PM
10/03/2020	Derragh Lough	Great Crested Grebe	3		PM

10/03/2020	Lough Derravaragh	Great Crested Grebe	9		PM
25/03/2020	Lough Sheelin	Great Crested Grebe	2	FL, (Lakes and ponds)	DM
25/03/2020	Lough Sheelin	Great Crested Grebe	8	FL, (Lakes and ponds)	DM
25/03/2020	Lough Kinale and Derragh Lough	Great Crested Grebe	6	FL, (Lakes and ponds)	DM
25/03/2020	Bracklagh Lough	Great Crested Grebe	6	FL, (Lakes and ponds) pairs	DM
25/03/2020	Derragh Lough	Great Crested Grebe	1		DM
25/03/2020	Lough Derravaragh	Great Crested Grebe	2	FL, (Lakes and ponds)	DM
25/03/2020	Lough Derravaragh	Great Crested Grebe	2	FL, (Lakes and ponds)	DM
25/03/2020	Lough Derravaragh	Great Crested Grebe	2	FL, (Lakes and ponds)	DM

Table 1-38 Black-headed Gull Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175 m)	Notes on habitat and activity	Comments	Surveyor
BH001	30/05/2016	VP4	Black-headed Gull	2		15		15					SD
BH002	04/12/2018	VP5	Black-headed Gull	1	10:21:47	67		0	67		GA1, (Improved agricultural grassland)	Travelling	PM
BH003	05/06/2019	VP5	Black-headed Gull	3	11:11:02	125		0	125		FW2, (Depostuing/upland rivers) GS4, (Wet grassland) Travelling		PM
BH004	05/06/2019	VP5	Black-headed Gull	2	12:25:51	153		0	153		GA1, (Improved agricultural grassland) GS4, (Wet grassland) Travelling		PM

Table 1-39 Black-headed Gull Breeding Bird Survey Data

Breeding Bird Surveys						
Map Ref.	Date	Time of observation	Species	No. of birds	Comments	Surveyor
BH001	29/05/2016		Black-headed Gull	1		PT
BH002	30/05/2016		Black-headed Gull	1		PT
BH003	30/05/2016		Black-headed Gull	2		PT
BH001	26/04/2018		Black-headed Gull	20		
BH002	18/06/2018		Black-headed Gull	2		
BH003	25/06/2018		Black-headed Gull	1		
BH004	19/06/2018		Black-headed Gull	4		
BH005	27/06/2019		Black-headed Gull	14	Travelling E	

Table 1-40 Black-headed Gull Winter Transect Survey Data

Winter Transect Survey						
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Surveyor
BH001	24/02/2016		Black-headed Gull	10		J.Cy
BH002	14/03/2016		Black-headed Gull	27		JCY
BH003	27/03/2017		Black-headed Gull	5		P.Troake

Table 1-41 Black-headed Gull Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
20/12/2015	Sheelin	Black-headed Gull	87		
21/12/2015	Derravaragh	Black-headed Gull	7		
16/01/2016	Derravaragh	Black-headed Gull	13		
17/01/2016	Kinale	Black-headed Gull	10		
10/02/2016	Derravaragh	Black-headed Gull	136		
12/02/2016	Bracklagh	Black-headed Gull	1		
12/02/2016	Derragh	Black-headed Gull	1		
12/02/2016	Kinale	Black-headed Gull	6		
05/03/2016	Derravaragh	Black-headed Gull	148		
06/03/2016	Sheelin	Black-headed Gull	2		
30/03/2016	Derravaragh	Black-headed Gull	489		
30/03/2016	Kinale	Black-headed Gull	33		
30/03/2016	Sheelin	Black-headed Gull	2		
19/04/2016	Bracklagh	Black-headed Gull	1		P.T
19/04/2016	Kinale	Black-headed Gull	37		P.T
19/04/2016	Derravaragh	Black-headed Gull	234		P.T
27/04/2016	Sheelin	Black-headed Gull	2		P.T
27/04/2016	Kinale	Black-headed Gull	81		P.T
27/04/2016	Derravaragh	Black-headed Gull	133		P.T
16/05/2016	Derravaragh	Black-headed Gull	144		
16/05/2016	Kinale	Black-headed Gull	18		
16/05/2016	Sheelin	Black-headed Gull	18		
13/08/2016	Kinale	Black-headed Gull	1		
13/08/2016	Sheelin	Black-headed Gull	8		
28/08/2016	Kinale	Black-headed Gull	2		
15/11/2016	Sheelin	Black-headed Gull	1		PT-JC
15/11/2016	Sheelin	Black-headed Gull	1		PT-JC
28/11/2016	Derravaragh	Black-headed Gull	1		PT
17/12/2016	Derragh	Black-headed Gull	1		PT-JC
17/12/2016	Derravaragh	Black-headed Gull	6		PT
29/12/2016	Derravaragh	Black-headed Gull	21		PT-JC

29/12/2016	Sheelin	Black-headed Gull	16		PT-JC
16/01/2017	Lough Kinale	Black-headed Gull	1		J. Carey
16/01/2017	Lough Kinale	Black-headed Gull	1		J. Carey
16/01/2017	Lough Sheelin	Black-headed Gull	8		J. Carey
16/02/2017	Lough Kinale	Black-headed Gull	1		J. Carey
16/02/2017	Lough Sheelin	Black-headed Gull	3		J. Carey
16/02/2017	Lough Sheelin	Black-headed Gull	6		J. Carey
12/03/2017	Area N. of Lough Bane	Black-headed Gull	2		J. Carey
12/03/2017	Lough Brackagh	Black-headed Gull	1		J. Carey
12/03/2017	Lough Sheelin	Black-headed Gull	2	Several fishing boats in the area	J. Carey
12/03/2017	Lough Sheelin	Black-headed Gull	3	Several fishing boats in the area	J. Carey
12/03/2017	Lough Sheelin	Black-headed Gull	14	Several fishing boats in the area	J. Carey
05/04/2017	Lough Sheelin	Black-headed Gull	10		PM
05/04/2017	Lough Sheelin	Black-headed Gull	2		PM
05/04/2017	Lough Sheelin	Black-headed Gull	8		PM
05/04/2017	Lough Kinale	Black-headed Gull	5		PM
05/04/2017	Lough Bane	Black-headed Gull	21		PM
05/04/2017	Lough Sheelin	Black-headed Gull	9		PM
05/04/2017	Lough Sheelin	Black-headed Gull	39		PM
05/04/2017	Lough Sheelin	Black-headed Gull	5		PM
05/04/2017	Lough Kinale	Black-headed Gull	171		PM
04/05/2017	Lough Bane	Black-headed Gull	65		PM
04/05/2017	Lough Sheelin	Black-headed Gull	16		PM
04/05/2017	Lough Sheelin	Black-headed Gull	67		PM
04/05/2017	Lough Sheelin	Black-headed Gull	18		PM
04/05/2017	Lough Kinale	Black-headed Gull	82		PM
04/05/2017	Lough Kinale	Black-headed Gull	67		PM
26/05/2017	Lough Bane	Black-headed Gull	41		PM
26/05/2017	Lough Sheelin	Black-headed Gull	22		PM
26/05/2017	Lough Kinale	Black-headed Gull	34		PM
26/05/2017	Derragh Lough	Black-headed Gull	1		PM
14/08/2017	Lough Sheelin	Black-headed Gull	8		DM
24/08/2017	Lough Kinale	Black-headed Gull	5		DM
01/09/2017	Lough Derravaragh	Black-headed Gull	2	Flying over	JH
04/04/2018	Lough Kinale and Derragh Lough	Black-headed Gull	5		PM
04/04/2018	Brackagh Lough	Black-headed Gull	285		PM
04/04/2018	Lough Derravaragh	Black-headed Gull	7		PM
22/04/2018	Lough Bane	Black-headed Gull	129		PM
22/04/2018	Lough Sheelin	Black-headed Gull	1		PM
22/04/2018	Lough Sheelin	Black-headed Gull	55		PM
22/04/2018	Lough Kinale and Derragh Lough	Black-headed Gull	23		PM
22/04/2018	Lough Kinale and Derragh Lough	Black-headed Gull	2		PM
22/04/2018	Brackagh Lough	Black-headed Gull	4		PM

22/04/2018	Lough Derravaragh	Black-headed Gull	31		PM
22/04/2018	Lough Derravaragh	Black-headed Gull	4		PM
03/05/2018	Lough Bane	Black-headed Gull	53		PM
03/05/2018	Lough Sheelin	Black-headed Gull	30		PM
03/05/2018	Derragh Lough	Black-headed Gull	1		PM
03/05/2018	Lough Derravaragh	Black-headed Gull	49		PM
18/05/2018	Lough Bane	Black-headed Gull	15		PM
18/05/2018	Lough Sheelin	Black-headed Gull	1		PM
18/05/2018	Lough Sheelin	Black-headed Gull	35		PM
18/05/2018	Lough Sheelin	Black-headed Gull	18		PM
18/05/2018	Lough Sheelin	Black-headed Gull	127		PM
18/05/2018	Lough Kinale and Derragh Lough	Black-headed Gull	11		PM
18/05/2018	Lough Derravaragh	Black-headed Gull	13		PM
18/05/2018	Lough Derravaragh	Black-headed Gull	15		PM
03/09/2018	Lough Sheelin	Black-headed Gull	4		PM
03/09/2018	Lough Derravaragh	Black-headed Gull	37		PM
03/09/2018	Lough Derravaragh	Black-headed Gull	2		PM
19/09/2018	Lough Derravaragh	Black-headed Gull	15		PM
05/10/2018	Lough Sheelin	Black-headed Gull	30		PM
05/10/2018	Lough Sheelin	Black-headed Gull	1		PM
05/10/2018	Lough Derravaragh	Black-headed Gull	3		PM
09/10/2018	Lough Iron	Black-headed Gull	43		DM
22/10/2018	Lough Sheelin	Black-headed Gull	3		PM
22/10/2018	Lough Derravaragh	Black-headed Gull	8		PM
06/11/2018	Lough Derravaragh	Black-headed Gull	10		PM
20/11/2018	Lough Sheelin	Black-headed Gull	2		PM
20/11/2018	Lough Derravaragh	Black-headed Gull	11		PM
06/12/2018	Lough Derravaragh	Black-headed Gull	3		PM
20/12/2018	Lough Sheelin	Black-headed Gull	4		PM
10/01/2019	Lough Kinale and Derragh Lough	Black-headed Gull	69		PM
29/01/2019	Lough Kinale and Derragh Lough	Black-headed Gull	4		PM
29/01/2019	Lough Derravaragh	Black-headed Gull	23	GA1, (Improved agricultural grassland)	On field beside lake
08/02/2019	Lough Sheelin	Black-headed Gull	2		PM
26/02/2019	Lough Sheelin	Black-headed Gull	2		PM
26/02/2019	Lough Kinale and Derragh Lough	Black-headed Gull	4		PM
26/02/2019	Lough Derravaragh	Black-headed Gull	2		PM
12/03/2019	Lough Sheelin	Black-headed Gull	10		PM
12/03/2019	Lough Kinale and Derragh Lough	Black-headed Gull	17	GA1, (Improved agricultural grassland)	PM
12/03/2019	Lough Kinale and Derragh Lough	Black-headed Gull	22		PM
12/03/2019	Derragh Lough	Black-headed Gull	1		PM
25/03/2019	Lough Sheelin	Black-headed Gull	85		PM
25/03/2019	Lough Sheelin	Black-headed Gull	26		PM
25/03/2019	Lough Kinale and Derragh Lough	Black-headed Gull	3		PM

25/03/2019	Lough Derravaragh	Black-headed Gull	33		PM
25/03/2019	Lough Derravaragh	Black-headed Gull	2		PM
09/04/2019	Lough Sheelin	Black-headed Gull	4		PM
09/04/2019	Lough Sheelin	Black-headed Gull	5		PM
09/04/2019	Lough Kinale and Derragh Lough	Black-headed Gull	15		PM
09/04/2019	Derragh Lough	Black-headed Gull	2		PM
09/04/2019	Lough Derravaragh	Black-headed Gull	1		PM
09/04/2019	Lough Derravaragh	Black-headed Gull	3		PM
24/04/2019	Lough Bane	Black-headed Gull	5		PM
24/04/2019	Lough Sheelin	Black-headed Gull	4		PM
24/04/2019	Lough Sheelin	Black-headed Gull	27		PM
24/04/2019	Lough Kinale and Derragh Lough	Black-headed Gull	39		PM
24/04/2019	Lough Derravaragh	Black-headed Gull	44		PM
30/09/2019	Lough Kinale and Derragh Lough	Black-headed Gull	19		PM
07/11/2019	Lough Derravaragh	Black-headed Gull	1		PM
04/12/2019	Lough Kinale and Derragh Lough	Black-headed Gull	10		PM
18/12/2019	Lough Sheelin	Black-headed Gull	1		PM
18/12/2019	Lough Sheelin	Black-headed Gull	1		PM
03/01/2020	Lough Sheelin	Black-headed Gull	3		PM
03/01/2020	Lough Kinale and Derragh Lough	Black-headed Gull	9		PM
03/01/2020	Lough Derravaragh	Black-headed Gull	19		PM
20/01/2020	Lough Sheelin	Black-headed Gull	1		PM
20/01/2020	Lough Sheelin	Black-headed Gull	11		PM
20/01/2020	Lough Kinale and Derragh Lough	Black-headed Gull	8		PM
07/02/2020	Lough Sheelin	Black-headed Gull	8		PM
07/02/2020	Lough Kinale and Derragh Lough	Black-headed Gull	118		PM
21/02/2020	Lough Sheelin	Black-headed Gull	2		PM
10/03/2020	Lough Sheelin	Black-headed Gull	2		PM
25/03/2020	Lough Bane	Black-headed Gull	1	PB4, (Cutover bog) FL, (Lakes and ponds) Flying over	DM
25/03/2020	Lough Bane	Black-headed Gull	2	PB4, (Cutover bog) FL, (Lakes and ponds)	DM
25/03/2020	Lough Sheelin	Black-headed Gull	8	FL, (Lakes and ponds)	DM
25/03/2020	Lough Kinale and Derragh Lough	Black-headed Gull	25	FL, (Lakes and ponds)	DM
25/03/2020	Bracklagh Lough	Black-headed Gull	35	FL, (Lakes and ponds) Flying over	DM
25/03/2020	Lough Derravaragh	Black-headed Gull	35	FL, (Lakes and ponds) Flying over	DM







Table 1-42 Curlew Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
31/12/2015	Derravaragh	Eurasian Curlew	2		
16/01/2016	Derravaragh	Eurasian Curlew	1		
10/02/2016	Derravaragh	Eurasian Curlew	12		
05/03/2016	Derravaragh	Eurasian Curlew	9		
17/12/2016	Derravaragh	Eurasian Curlew	1		PT
29/12/2016	Garriskil	Eurasian Curlew	35		PT,JC
01/09/2017	Lough Derravaragh	Eurasian Curlew	4	Feeding on GA1	JH
03/01/2020	Lough Derravaragh	Curlew	13		PM

Table 1-43 Lapwing Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
L001	10/01/2016	4	Lapwing	40	11:52:00	20		20					J.Cy
L002	15/02/2016	4	Lapwing	40	13:45:00	15			15				J.Cy
L003	15/02/2016	4	Lapwing	40	13:55:00	5			5				J.Cy

Table 1-44 Lapwing Breeding Bird Survey Data

Breeding Bird Surveys							
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Comments	Surveyor
L001	05/04/2019	12:24:43	Lapwing	1		On ground; calling	PM
L002	28/05/2019	09:26:21	Lapwing	2		On bog	PM
L003	28/05/2019	10:21:16	Lapwing	1		Call/display	PM
L004	26/06/2019	10:33:09	Lapwing	2		Mobbing HC	PM

Table 1-45 Lapwing Winter Transect Survey Data

Winter Transect Surveys						
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Surveyor
	19/01/2016		Northern Lapwing	1		J.Cy

Table 1-46 Lapwing Waterfowl Survey Data

Waterfowl Surveys						
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor	
20/12/2015	Kinale	Northern Lapwing	150			
21/12/2015	Derravaragh	Northern Lapwing	144			
30/12/2015	Kinale	Northern Lapwing	290			
16/01/2016	Derravaragh	Northern Lapwing	50			
17/01/2016	Kinale	Northern Lapwing	160			
10/02/2016	Derravaragh	Northern Lapwing	107			

12/02/2016	Kinale	Northern Lapwing	45			
06/03/2016	Kinale	Northern Lapwing	5			
30/03/2016	Kinale	Northern Lapwing	1			
19/04/2016	Kinale	Northern Lapwing	4			P.T
13/08/2016	Sheelin	Northern Lapwing	5			
17/10/2016	Derravaragh	Northern Lapwing	84			PT-JC
17/10/2016	Sheelin	Northern Lapwing	4			PT-JC
31/10/2016	Derravaragh	Northern Lapwing	40			PT
31/10/2016	Sheelin	Northern Lapwing	47			PT
15/11/2016	Sheelin	Northern Lapwing	54			PT-JC
15/11/2016	Sheelin	Northern Lapwing	147			PT-JC
28/11/2016	Derragh	Northern Lapwing	19			PT-JC
28/11/2016	Derragh	Northern Lapwing	2			PT-JC
28/11/2016	Derravaragh	Northern Lapwing	130			PT
17/12/2016	Derravaragh	Northern Lapwing	280			PT
17/12/2016	Sheelin	Northern Lapwing	43			PT-JC
29/12/2016	Derravaragh	Northern Lapwing	94			PT-JC
29/12/2016	Sheelin	Northern Lapwing	22			PT-JC
16/01/2017	Lough Sheelin	Northern Lapwing	45			J. Carey
16/02/2017	Lough Kinale	Northern Lapwing	45			J. Carey
26/05/2017	Lough Bane	Northern Lapwing	1			PM
04/04/2018	Lough Bane	Lapwing	1			PM
03/05/2018	Lough Bane	Lapwing	2			PM
18/05/2018	Lough Bane	Lapwing	2			PM
22/10/2018	Lough Sheelin	Lapwing	36			PM
22/10/2018	Lough Derravaragh	Lapwing	73			PM
06/11/2018	Lough Derravaragh	Lapwing	73			PM
06/12/2018	Lough Derravaragh	Lapwing	30			PM
06/12/2018	Lough Derravaragh	Lapwing	14			PM
26/02/2019	Lough Bane	Lapwing	18			PM
12/03/2019	Lough Bane	Lapwing	14			PM
09/04/2019	Lough Bane	Lapwing	1			PM
24/04/2019	Lough Bane	Lapwing	3			PM
28/10/2019	Lough Bane	Lapwing	29			PM
23/10/2019	Lough Sheelin	Lapwing	1			PM
07/11/2019	Lough Bane	Lapwing	44			PM
07/02/2020	Lough Sheelin	Lapwing	18			PM
25/03/2020	Lough Bane	Lapwing	4	PB4, (Cutover bog) FL , (Lakes and ponds) Displaying		DM

Table 1-47 Lapwing Incidental Observation Data

Incidental Observations						
Date	Survey Type	Location	Species	Number of Individuals	Notes	Surveyor
08/05/2019	Breeding Raptor	RVP1	L.	6	Some displaying. On flooded area of bog in front of VP	PM
13/06/2019	Breeding Raptor	RVP1	L.	3		PM
26/07/2019	Breeding Raptor	RVP1	L.	1	Juvenile	PM



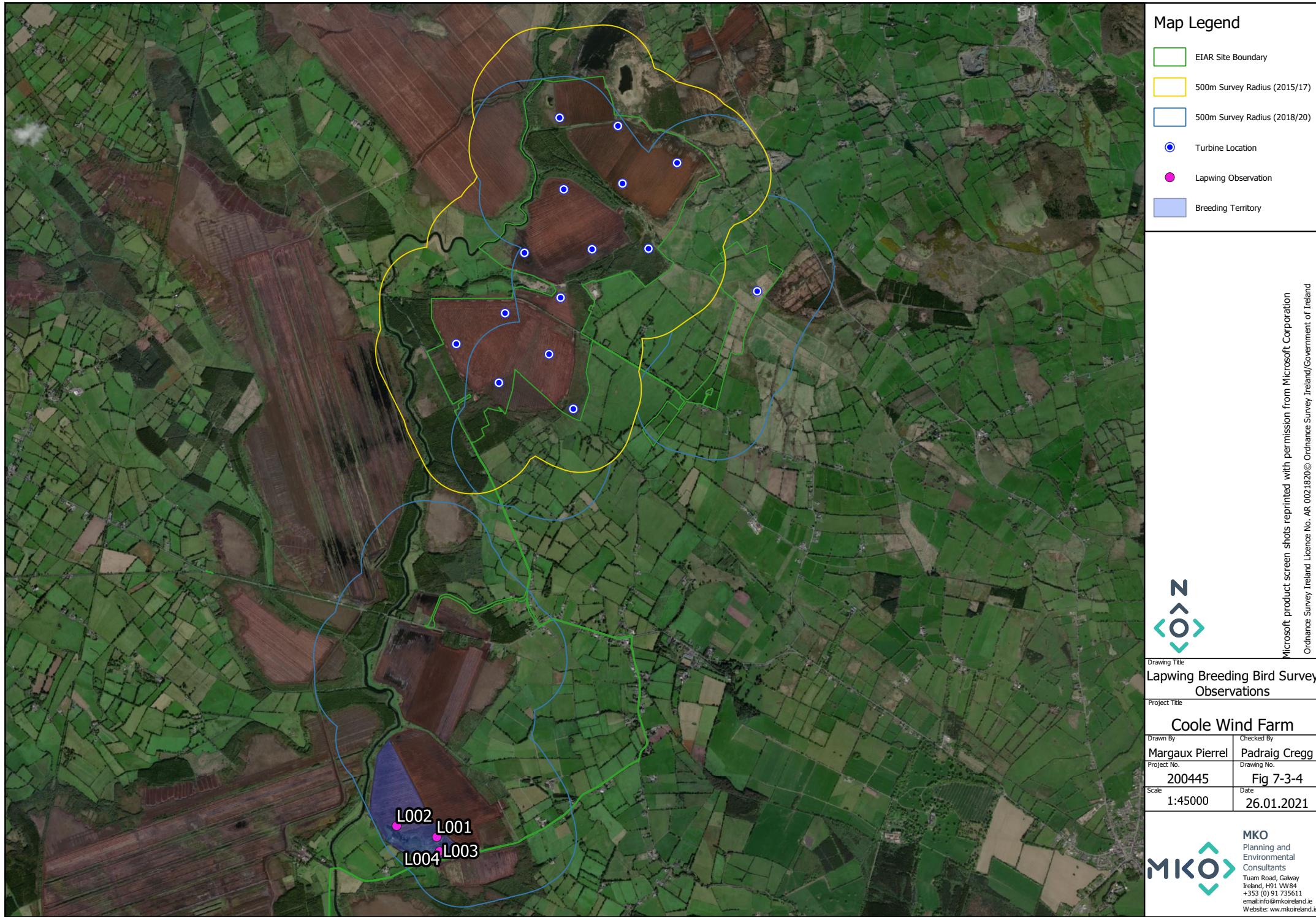




Table 1-48 Redshank Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
RK001	07/08/2019	3	Redshank	2	16:14:00	42	42				BC3, (Tilled land) Travelling and landing	Saw two Redshank in flight, which landed on the survey site shortly before flying out of view; alongside a couple calling at dusk from behind the VP to the north-west. See map for location.	L. Dark

Table 1-49 Redshank Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
21/12/2015	Derravaragh	Common Redshank	1		
30/03/2016	Derravaragh	Common Redshank	2		
19/04/2016	Derravaragh	Common Redshank	5		P.T
20/08/2019	Lough Derravaragh	Redshank	1		LD



Table 1-50 Woodcock Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
WK001	14/03/2016	4	Woodcock	1	06:11:00	3	3						J.Cy
WK002	20/04/2016	4	Woodcock	2	2114	15		15					PT
WK003	20/04/2016	4	Woodcock	1	2114	10		10					PT

Table 1-51 Woodcock Winter Transect Survey Data

Winter Transect Survey							
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Comments	Surveyor
WK001	15/12/2015		Eurasian Woodcock	1			PT
WK001	14/01/2019	14:13:09	Woodcock	1	WD4, (Conifer plantation) flushed		PM
WK002	06/01/2020	10:27:07	Woodcock	1	GS4, (Wet grassland)	Flushed from bottom of hedge	PM

Table 1-52 Woodcock Survey Data

Woodcock Surveys								
Map Ref.	Date	Transect/Fixed Point	Species	No. of Birds	Time of flight	Duration of flight (s)	Notes on habitat and activity	Surveyor
WK001	11/06/2016	2	Eurasian Woodcock	1	22:36		Croaking, height 20-25m	PT
WK002	11/06/2016	2	Eurasian Woodcock	1	22:40		Croaking, height 10-20m	PT
WK003	11/06/2016	2	Eurasian Woodcock	2	22:31		Squeaking, height 3-8m	PT
WK004	11/06/2016	2	Eurasian Woodcock	1	22:44		Croaking heard; location as start of ③	PT
WK005	11/06/2016	WK4	Eurasian Woodcock	1	21:57	8		J.Cy
WK006	11/06/2016	WK4	Eurasian Woodcock	1	22:05	10		J.Cy
WK007	11/06/2016	WK4	Eurasian Woodcock	1	22:07	10		J.Cy
WK008	11/06/2016	WK4	Eurasian Woodcock	1	22:21	5		J.Cy
WK009	11/06/2016	WK4	Eurasian Woodcock	1	22:27	22		J.Cy
WK010	18/06/2016	WK4	Eurasian Woodcock	1	22:24	15		J.Cy
WK011	18/06/2016	WK4	Eurasian Woodcock	1	22:28	10		J.Cy
WK012	18/06/2016	WK4	Eurasian Woodcock	1	22:37	20		J.Cy
WK013	18/06/2016	WK4	Eurasian Woodcock	1	22:45	25		J.Cy
WK014	23/06/2016	WK2	Eurasian Woodcock	1	10:16	10		J.Cy

WK015	23/06/2016	WK2	Eurasian Woodcock	1	10:20	10		J.Cy
WK016	23/06/2016	WK2	Eurasian Woodcock	1	10:10		Heard but not seen	J.Cy
WK017	23/06/2016	WK2	Eurasian Woodcock	1	10:42		Heard but not seen	J.Cy
WK018	23/06/2016	WK2	Eurasian Woodcock	1	10:45		Heard but not seen	J.Cy
WK019	23/06/2016	WK2	Eurasian Woodcock	1	10:46		Heard but not seen	J.Cy
WK020	29/06/2016	4	Eurasian Woodcock	1	22:22			PT
WK021	28/06/2017		Eurasian Woodcock	1	22:01		Roding	PM
WK022	28/06/2017		Eurasian Woodcock	1	22:03		Roding	PM
WK023	28/06/2017		Eurasian Woodcock	2	22:11		Flying together and calling	PM
WK024	28/06/2017		Eurasian Woodcock	1	22:20		Roding	PM
WK025	28/06/2017		Eurasian Woodcock	1	22:25		Roding	PM
WK026	28/06/2017		Eurasian Woodcock	1	22:27		Roding	PM
WK027	28/06/2017		Eurasian Woodcock	1	22:32		Roding	PM
WK028	28/06/2017		Eurasian Woodcock	1	22:34		Roding	PM

Table 1-53 Woodcock Incidental Observation Data

Incidental Observations							
Date	Survey Type	Location	Species	Number of Individuals	Notes		Surveyor
07/08/2019	VP 3	Close to the VP.	Woodcock	1	Flushed a Woodcock on the way out close to the VP at G 3989 7556.		L. Dark





Map Legend

- EIAR Site Boundary
- Turbine Location
- Winter Transect Survey Area (500m) (2015/17)
- Winter Transect Survey Area (500m) (2018/20)
- Woodcock Observation (2015/17)
- Woodcock Observation (2018/20)

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Drawing Title
Woodcock Winter Transect Survey Observations

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-5-11
Scale	Date
1:45000	26.01.2021

Map Legend

- EIAR Site Boundary
- Turbine Location
- Woodcock Survey Transect
- Woodcock Call
- Woodcock Observation

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Drawing Title
Woodcock Survey Observations

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-6-1
Scale	Date
1:20000	26.01.2020

Table 1-54 Barn Owl Incidental Observation Data

Incidental Observation											
Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-180m)	Band 4 (>175m)	Notes on habitat and activity	Surveyor
08/08/2019	5	barn owl	1	19:28:00		8				BL3, (Buildings and artificial surfaces) GA1, (Improved agricultural grassland) GS4, (Wet grassland) Calling	LD
08/08/2019	5	barn owl	1	19:51:00		9				BL3, (Buildings and artificial surfaces) GA1, (Improved agricultural grassland) GS4, (Wet grassland) Calling	LD

Table 1-55 Long-eared Owl Incidental Observation Data

Incidental Observations												
Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-180m)	Band 4 (>175m)	Activity	Notes on habitat and activity	Surveyor
11/01/2019	VP5	long-eared owl	1	17:28:00						Heard only	Heard only	PM
04/02/2020	VP5	long-eared owl	1	18:09:16						Calling from tree in farm yard		PM
24/03/2020	VP4	long-eared owl								Heard calling at dawn		PT

Table 1-56 Buzzard Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
	10/12/2015	4	Buzzard	1	1239	200		100	100				J.Cy
	10/12/2015	4	Buzzard	1	1316	115		100	15				J.Cy
	10/12/2015	4	Buzzard	2	1319	75		75					PT
	10/01/2016	4	Buzzard	1	12:35:00	180			180				J.Cy
	10/01/2016	4	Buzzard	1	12:50:00	60			60				J.Cy
	15/02/2016	4	Buzzard	1	12:35:00	5	5						J.Cy
	15/02/2016	4	Buzzard	2	13:28:00	15		15					J.Cy
	15/02/2016	4	Buzzard	1	13:34:00	3	3						J.Cy
	15/02/2016	4	Buzzard	1	13:38:00	4	4						J.Cy
	15/02/2016	4	Buzzard	1	14:13:00	8		8					J.Cy
	04/03/2016	3	Buzzard	1	17:22	775		775					SD
	04/03/2016	3	Buzzard	1	17:34	40		40					SD
	14/03/2016	4	Buzzard	1	08:46:00	30			30				J.Cy
	10/04/2016	3	Buzzard	1	0652	135	135						J.Cy
	10/04/2016	3	Buzzard	1	0717	20	20						J.Cy
	10/04/2016	3	Buzzard	1	0726	85	85						J.Cy
	10/04/2016	3	Buzzard	1	0817	32	32						J.Cy
	10/04/2016	3	Buzzard	1	1025	90		15	75				J.Cy
	10/04/2016	3	Buzzard	1	1042	315	50	235	30				J.Cy
	10/04/2016	3	Buzzard	1	1116	45		10	35				J.Cy
	21/04/2016	3	Buzzard	1	15:21:00	4	4						J.Cy
	21/04/2016	3	Buzzard	1	15:34:00	15		15					J.Cy
	21/04/2016	3	Buzzard	1	16:27:00	8		8					J.Cy
	21/04/2016	3	Buzzard	1	16:46:00	5		5					J.Cy
	21/04/2016	3	Buzzard	1	17:02:00	10			10				J.Cy
	21/04/2016	3	Buzzard	1	18:49:00	10	10						J.Cy
	09/05/2016	4	Buzzard	1	11:16:00	270	120		150				J.Cy
	09/05/2016	4	Buzzard	1	11:38:00	240	45	30	165				J.Cy
	20/05/2016	3	Buzzard	1	00:00:00	50		20	30				J.Cy

	20/05/2016	3	Buzzard	1	00:00:00	30			30					J.Cy
	11/06/2016	3	Buzzard	2	11:15:00	700								J.Cy
	11/06/2016	3	Buzzard	1	11:40:00	60		60						J.Cy
	11/06/2016	3	Buzzard	4	11:41:00	480		480						J.Cy
	11/06/2016	3	Buzzard	1	11:55:00	25		25						J.Cy
	11/06/2016	3	Buzzard	1	12:29:00	180			180					J.Cy
	11/06/2016	3	Buzzard	1	12:50:00	180			165					J.Cy
	11/06/2016	3	Buzzard	1	12:55:00	240			40					J.Cy
	11/06/2016	3	Buzzard	1	13:30:00	240			60					J.Cy
	11/06/2016	3	Buzzard	2	13:45:00	60			165					J.Cy
	11/06/2016	3	Buzzard	1	13:50:00	90			180					J.Cy
	11/06/2016	3	Buzzard	1	14:45:00	165			60					J.Cy
	11/06/2016	3	Buzzard	1	15:11:00	180			180					J.Cy
	11/06/2016	3	Buzzard	1	15:57:00	60			160					J.Cy
	11/06/2016	3	Buzzard	1	16:45:00	160			120	180				J.Cy
	11/06/2016	3	Buzzard	1	17:12:00	300				300				J.Cy
	18/06/2016	4	Buzzard	1	11:01:00	40		40						SD
	18/06/2016	4	Buzzard	1	11:38:00	8			8					SD
	18/06/2016	4	Buzzard	1	11:47:00	220			220					SD
	18/06/2016	4	Buzzard	1	13:56:00	30			40					SD
	18/06/2016	4	Buzzard	3	14:36:00	180			180					SD
	18/06/2016	4	Buzzard	1	16:18:00	60		60						SD
	18/06/2016	4	Buzzard	1	16:28:00	40		40						SD
	12/07/2016	3	Buzzard	1	1310	320			320					PT
	12/07/2016	3	Buzzard	1	1325	195			195					PT
	12/07/2016	3	Buzzard	2	1511	90		10	80					PT
	12/07/2016	3	Buzzard	1	1516	75		75						PT
	12/07/2016	3	Buzzard	1	1625	840		10	250	580				PT
	12/07/2016	3	Buzzard	1	1636	960		480	480					PT
	12/07/2016	3	Buzzard	1	1746	190		70	120					PT
	12/07/2016	3	Buzzard	1	1912	7		7						PT
	20/07/2016	4	Buzzard	1	15:00:00	30			50					J.Cy
	13/08/2016	3	Buzzard	1	11:44:00	90			90					J.Cy
	13/08/2016	3	Buzzard	1	11:48:00	40			40					J.Cy
	13/08/2016	3	Buzzard	1	12:42:00	25			25					J.Cy
	13/08/2016	3	Buzzard	2	13:30:00	240			240					J.Cy
	13/08/2016	3	Buzzard	1	13:42:00	10			10					J.Cy

	13/08/2016	3	Buzzard	1	15:00:00	150		60	90				J.Cy
	13/08/2016	3	Buzzard	1	15:11:00	90			90				J.Cy
	13/08/2016	3	Buzzard	1	16:48:00	300			180	120			J.Cy
	26/08/2016	4	Buzzard	1	12:32:00	180			180				J.Cy
	26/08/2016	4	Buzzard	1	13:24:00	195		75	120				J.Cy
	26/08/2016	4	Buzzard	1	16:18:00	180			65	105			J.Cy
	15/09/2016	3	Buzzard	1	16:58:00	25		60					
	15/09/2016	3	Buzzard	1	18:20:00	15		10					
	30/09/2016	4	Buzzard	1	11:21:00	180			180				
	30/09/2016	4	Buzzard	1	11:22:00	25		25					
	30/09/2016	4	Buzzard	1	11:22:00	300		60	240				
	30/09/2016	4	Buzzard	1	12:53:00	90		60	30				
	30/09/2016	4	Buzzard	1	12:54:00	45			45				
	18/10/2016	3	Buzzard	1	11:50:00	45			45				JC
	18/10/2016	3	Buzzard	1	12:26:00	90			90				JC
	18/10/2016	3	Buzzard	1	12:41:00	10		10					JC
	29/10/2016	4	Buzzard	1	14:10:00	60		60		Cutover bog, bog woodland			J.Cy
	23/11/2016	3	Buzzard	1	13:53	15		15		cutover/scrub		behind vp	PT
	23/11/2016	3	Buzzard	1	16:03	75		75		forestry		settled in poplar by river until 1645	PT
	28/11/2016	4	Buzzard	1	13:28:00	30		20		Cut-over bog, bog woodland, improved grassland			JC
	28/11/2016	4	Buzzard	1	13:32:00	10		10		Cut-over bog, bog woodland, improved grassland			JC
	28/11/2016	4	Buzzard	2	14:41:00	80			80	Cut-over bog, bog woodland, improved grassland			JC
	29/11/2016	4	Buzzard	1	08:37	30		30		bare peat/forest		landed in conifers; presumed same as bird ②	PT
	29/11/2016	4	Buzzard	1	09:43	25		25		young forestry			PT
	29/11/2016	4	Buzzard	1	09:50	6	6			small trees along cutover drain		landed on small trees until c.1010	PT
	29/11/2016	4	Buzzard	1	10:14	45			45	pasture/forest/bare peat			PT
	17/12/2016	3	Buzzard	1	13:55	35		35		pasture/trees		landed in tree to c.1405	PT
	17/12/2016	3	Buzzard	1	14:18	35		35		forestry		landed on edge of spruce plantation	PT
	17/12/2016	3	Buzzard	1	14:41	12	12			clearfell		flew between two trees	PT
	28/01/2017	4	Buzzard	1	13:26:00	110			110	PB4, (Cutover bog) WD4, (Conifer plantation)		height c.60m	P.Troake

	05/03/2017	4	Buzzard	1	13:08:00	720			720		PB1, (Raised bog) PB4, (Cutover bog) WN7, (Bog woodland) circling	height 25-60m; flight area circled on map; departed to east	P.Troake
	05/03/2017	4	Buzzard	1	13:08:00	720			720		PB1, (Raised bog) WN7, (Bog woodland) WD4, (Conifer plantation) circling	height 25-60m; flight area circled on map	P.Troake
	05/03/2017	4	Buzzard	1	13:10:00	50		20	30		PB1, (Raised bog) WN7, (Bog woodland) WD4, (Conifer plantation) circling	height 20-50m; flight area circled on map (similar to bird 2)	P.Troake
	05/03/2017	4	Buzzard	1	13:20:00	30			30		WD4, (Conifer plantation) gliding	height c.25m	P.Troake
	05/03/2017	4	Buzzard	1	13:43:00	120			120		WN7, (Bog woodland) circling	height 30-40m	P.Troake
	05/03/2017	4	Buzzard	1	14:33:00	3	3				WS5, (Recently-felled woodland)	alighted on top of tree	P.Troake
	05/03/2017	4	Buzzard	1	15:13:00	150		15	135		GA1, (Improved agricultural grassland)	ascended, height 15-50m	P.Troake
	05/03/2017	4	Buzzard	2	15:31:00	180			180		GA1, (Improved agricultural grassland) circling	height c.50-100m; stooped down at end of flight	P.Troake
	06/03/2017	3	Buzzard	1	13:41:00	45		45			(Mixed) Conifer woodland GA1, (Improved agricultural grassland)	height 15-25m	P.Troake
	06/03/2017	3	Buzzard	1	14:03:00	50		50			WD4, (Conifer plantation) W, (Woodland and scrub)	height 15m	P.Troake
	26/03/2017	3	Buzzard	1	13:34:00	130	10	65	55		PB4, (Cutover bog) W, (Woodland and scrub) GA1, (Improved agricultural grassland)	height 7-40m, descending	P.Troake
	26/03/2017	3	Buzzard	1	14:38:00	225	55	30	140		GA1, (Improved agricultural grassland) PB4, (Cutover bog) W, (Woodland and scrub)	circled up, drifted down to NW; height 15m -> 60m -> 2m	P.Troake
	26/03/2017	3	Buzzard	1	14:47:00	70	70				PB4, (Cutover bog) W, (Woodland and scrub) GA1, (Improved agricultural grassland)	height 3-10 m	P.Troake
	26/03/2017	3	Buzzard	1	15:15:00	80	10	30	40		WD4, (Conifer plantation) WN7, (Bog woodland)	height 5-30m; descending	P.Troake
	27/03/2017	4	Buzzard	1	07:32:00						W, (Woodland and scrub)	perched	P.Troake
	27/03/2017	4	Buzzard	2	13:22:00	85		5	80		WN7, (Bog woodland) WD4, (Conifer plantation)	20-c.100m, descending	P.Troake
	27/03/2017	4	Buzzard	1	13:33:00	15			15		WS, (Scrub/transitional woodland) hovering	height c.40m	P.Troake
	27/03/2017	4	Buzzard	1	14:01:00	27		27			initially circling	height 20-25m	P.Troake
	27/03/2017	4	Buzzard	2	14:06:00	20		10	10		Mixed broadleaved/conifer woodland dropped to trees	height 15-30m	P.Troake
	27/03/2017	4	Buzzard	2	14:09:00	55		20	35		Mixed broadleaved/conifer woodland dropped to trees	height 15-35m	P.Troake

	27/03/2017	4	Buzzard	2	14:13:00	30		30		Mixed broadleaved/conifer woodland landed in trees again	height 15m	P.Troake	
	27/03/2017	4	Buzzard	1	14:17:00	18		5	13	Mixed broadleaved/conifer woodland landed in trees again	height 15-40m, descended	P.Troake	
	27/03/2017	4	Buzzard	3	15:16:00	25		20	5	Mixed broadleaved/conifer woodland PB4, (Cutover bog)	height 15-30m	P.Troake	
	27/03/2017	4	Buzzard	1	15:16:00	115		60	55	Mixed broadleaved/conifer woodland	height 20-30m	P.Troake	
	27/03/2017	4	Buzzard	1	15:17:00	35		35		Mixed broadleaved/conifer woodland	height 15-25m	P.Troake	
	03/04/2017	4	Buzzard	1	18:26:00	44	24	20		PB4, (Cutover bog) Travelling		PM	
	04/04/2017	3	Buzzard	1	14:49:00	155			155		Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) Soaring & being mobbed by HC	PM	
	04/04/2017	3	Buzzard	1	16:39:00	159			60	99	Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) Soaring	PM	
	04/04/2017	3	Buzzard	1	16:45:00	98		98		GA1, (Improved agricultural grassland) Soaring		PM	
	04/04/2017	3	Buzzard	2	16:58:00	64		64		PB4, (Cutover bog) Mixed broadleaved/conifer woodland Travelling and being mobbed by corvids		PM	
	04/04/2017	3	Buzzard	1	17:24:00	272			272		Mixed broadleaved/conifer woodland PB4, (Cutover bog) Hunting	PM	
	04/04/2017	3	Buzzard	1	17:30:00	90		90		Mixed broadleaved/conifer woodland PB4, (Cutover bog) Travelling		PM	
	11/05/2017	3	Buzzard	1	09:34:00	99			67	32	Mixed broadleaved/conifer woodland Soaring	Being mobbed by HC	PM
	11/05/2017	3	Buzzard	1	10:15:00	107			107		PB4, (Cutover bog) Hunting		PM
	11/05/2017	3	Buzzard	1	10:38:00	44			44		Mixed broadleaved/conifer woodland Hunting		PM
	11/05/2017	3	Buzzard	1	10:58:00	173			55	118	Mixed broadleaved/conifer woodland PB4, (Cutover bog) Soaring		PM
	12/05/2017	4	Buzzard	1	09:23:00	62		62		PB4, (Cutover bog) Hunting		PM	
	12/05/2017	4	Buzzard	1	10:25:00	35	35			PB4, (Cutover bog) Travelling		PM	
	02/06/2017	3	Buzzard	1	10:15:00	149			149		PB4, (Cutover bog) Hunting		PM

	02/06/2017	3	Buzzard	1	10:23:00	67			67		WD4, (Conifer plantation) Soaring	Mobbed by Corvid	PM
	02/06/2017	3	Buzzard	1	10:45:00	405			170	235	PB4, (Cutover bog) Travelling/Soaring	Being mobbed by corvid until it began soaring	PM
	02/06/2017	3	Buzzard	1	11:01:00	39			39				PM
	02/06/2017	3	Buzzard	1	11:19:00	30		30			WD4, (Conifer plantation) Travelling		PM
	02/06/2017	3	Buzzard	1	11:20:00	79		79			PB4, (Cutover bog) WD4, (Conifer plantation) Hunting		PM
	02/06/2017	3	Buzzard	1	11:37:00	293		95	198		WD4, (Conifer plantation) Hunting		PM
	02/06/2017	3	Buzzard	1	12:08:00	117			117		WD4, (Conifer plantation) Soaring		PM
	02/06/2017	3	Buzzard	1	13:24:00	66		66			WD4, (Conifer plantation) Hunting		PM
	02/06/2017	3	Buzzard	1	14:20:00	309			70	239	PB4, (Cutover bog) WD4, (Conifer plantation) Soaring		PM
	02/06/2017	4	Buzzard	1	10:50:00	165	30	30	30	7.5	Mixed broadleaved/conifer woodland Hunting		DM
	02/06/2017	4	Buzzard	1	11:20:00	110	20	20	20	50	Mixed broadleaved/conifer woodland Hunting		DM
	02/06/2017	4	Buzzard	2	11:40:00	265			200	65	PB4, (Cutover bog) Mixed broadleaved/conifer woodland Hunting		DM
	02/06/2017	4	Buzzard	1	13:35:00	25		25			Mixed broadleaved/conifer woodland Hunting		DM
	02/06/2017	4	Buzzard	1	15:25:00	25			25		Mixed broadleaved/conifer woodland Travelling		DM
	12/07/2017	3	Buzzard	1	10:08:00	582				582	PB4, (Cutover bog) ED2, (Spoil and bare ground) Soaring		PM
	12/07/2017	3	Buzzard	1	10:39:00	121				121	PB4, (Cutover bog) GA1, (Improved agricultural grassland) Soaring		PM
	12/07/2017	3	Buzzard	1	11:21:00	54			54		PB4, (Cutover bog) Mixed broadleaved/conifer woodland Travelling		PM
	12/07/2017	3	Buzzard	1	13:06:00	134			134		PB4, (Cutover bog) Soaring		PM
BZ001	16/04/2018	VP3	Buzzard	1	07:30:00	15	15				GA1, (Improved agricultural grassland) landed in grass field		DM

BZ002	17/04/2018	VP5	Buzzard	1	10:45:00	90			90	Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) circling		DM	
BZ003	17/04/2018	VP5	Buzzard	1	11:35:00	160			70	Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) travelling		DM	
BZ004	17/04/2018	VP5	Buzzard	1	11:35:00	60		20	40	Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) circling		DM	
BZ010	24/05/2018	VP3	Buzzard	1	17:10:00	160			160	PB4, (Cutover bog) Mixed broadleaved/conifer woodland circling		DM	
BZ011	29/05/2018	VP5	Buzzard	1	16:25:00	135			135	Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) circling		DM	
BZ012	29/05/2018	VP5	Buzzard	1	16:50:00	50	10	10	30	Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) hunting		DM	
BZ013	29/05/2018	VP5	Buzzard	1	17:30:00	20	5	5	10	Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) hunting		DM	
BZ020	07/06/2018	VP3	Buzzard	1	10:10:00	325			50	275	PB4, (Cutover bog) Mixed broadleaved/conifer woodland circling and travelling		DM
BZ021	07/06/2018	VP3	Buzzard	1	10:10:00	50		20	30	PB4, (Cutover bog) Mixed broadleaved/conifer woodland Travelling		DM	
BZ022	07/06/2018	VP3	Buzzard	1	11:40:00	35			35	PB4, (Cutover bog) Mixed broadleaved/conifer woodland Circling		DM	
BZ023	07/06/2018	VP3	Buzzard	1	13:40:00	25		10	15	GA1, (Improved agricultural grassland) Hunting		DM	
BZ024	07/06/2018	VP3	Buzzard	1	15:15:00	320			320	PB4, (Cutover bog) Mixed broadleaved/conifer woodland circling		DM	
BZ025	13/06/2018	VP5	Buzzard	1	13:10:00	30		10	20	GA1, (Improved agricultural grassland) Mixed broadleaved/conifer woodland hunting		DM	
BZ026	13/06/2018	VP5	Buzzard	1	13:12:00	90			60	30	GA1, (Improved agricultural grassland) travelling		DM
BZ027	13/06/2018	VP5	Buzzard	1	13:25:00	120		20	100	GA1, (Improved agricultural grassland) Mixed		DM	

										broadleaved/conifer woodland hunting		
BZ028	13/06/2018	VP5	Buzzard	1	13:45:00	45				45	GA1, (Improved agricultural grassland) Mixed broadleaved/conifer woodland circling	
BZ029	13/06/2018	VP5	Buzzard	4	14:25:00	75				75	GA1, (Improved agricultural grassland) Travelling	
BZ038	12/07/2018	VP5	Buzzard	1	14:30:00	130		10	40	150	Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) Circling	
BZ039	12/07/2018	VP5	Buzzard	2	14:40:00	210			60		Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) Circling	
BZ040	12/07/2018	VP5	Buzzard	1	14:45:00	60			120		Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) travelling	
BZ041	12/07/2018	VP5	Buzzard	1	15:00:00	120					Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) travelling	
BZ043	22/08/2018	VP5	Buzzard	1	12:10:04	110		0	110		GA1, (Improved agricultural grassland) Hunting	PM
BZ046	25/09/2018	VP5	Buzzard	2	07:08:34	27		27	0		GA1, (Improved agricultural grassland) GS4, (Wet grassland) Travelling; Calling	PM
BZ047	25/09/2018	VP5	Buzzard	1	10:21:36	36		36	0		GA1, (Improved agricultural grassland) Hunting	PM
BZ048	25/09/2018	VP5	Buzzard	1	11:30:39	121		90	0		GA1, (Improved agricultural grassland) Hunting	PM
BZ050	27/09/2018	VP3	Buzzard	1	07:06:16	121		121	0		GS1, (Dry calcareous grassland and neutral grassland) PB4, (Cutover bog) Travelling	PM
BZ051	27/09/2018	VP3	Buzzard	1	10:58:15	358		0	358		PB3, (Lowland blanket bog) Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) Hunting	PM
BZ052	27/09/2018	VP3	Buzzard	2	11:07:03	127		80	0		PB4, (Cutover bog) GA1, (Improved agricultural grassland) Travelling/Calling	PM
BZ069	03/10/2018	VP3	Buzzard	1	16:27:48	72		72	0		GA1, (Improved agricultural grassland) Travelling; being mobbed by HC	PM
BZ070	04/10/2018	VP5	Buzzard	2	13:49:39	151		0	0		GA1, (Improved agricultural grassland) Soaring	PM

BZ071	02/11/2018	VP3	Buzzard	1	09:25:15	28		28	0		PB4, (Cutover bog)	Travelling/Calling	PM
BZ075	09/11/2018	VP5	Buzzard	1	08:28:19	39		39	0		GA1, (Improved agricultural grassland)	Hunting	PM
BZ076	04/12/2018	VP5	Buzzard	1	09:42:01	43		3	40		GA1, (Improved agricultural grassland)	Travelling; landed in tree	PM
BZ077	04/12/2018	VP5	Buzzard	1	09:48:18	51		0	51		GA1, (Improved agricultural grassland) GS4, (Wet grassland)	Travelling; flew from tree	PM
BZ078	04/12/2018	VP5	Buzzard	1	11:25:15	12		5	0		GA1, (Improved agricultural grassland)	Flew from tree to ground	PM
BZ079	04/12/2018	VP5	Buzzard	1	11:36:22	6		6	0		GA1, (Improved agricultural grassland)	Flew into tree	PM
BZ080	07/12/2018	VP3	Buzzard	1	12:29:04	49		49	0		PB1, (Raised bog)	Hunting	PM
BZ081	07/12/2018	VP3	Buzzard	2	12:45:37	652		0	452		GA1, (Improved agricultural grassland)	Soaring	PM
BZ084	11/01/2019	VP5	Buzzard	1	12:47:51	25		25	0		GA1, (Improved agricultural grassland)	Travelling; landed in tree	PM
BZ085	11/01/2019	VP5	Buzzard	1	12:59:33	20		20	0		GA1, (Improved agricultural grassland)	Travelling; flew from tree	PM
BZ086	11/01/2019	VP5	Buzzard	1	14:46:27	46		46	0		GA1, (Improved agricultural grassland) GS1, (Dry calcareous grassland and neutral grassland)	Travelling	PM
BZ091	20/02/2019	VP3	Buzzard	1	15:11:05	15		0	0		PB4, (Cutover bog)	Travelling low; landed in conifer	PM
BZ093	07/03/2019	VP3	Buzzard	1	07:22:11	25		25	0		(Mixed) broadleaved woodland	Travelling	PM
BZ094	07/03/2019	VP3	Buzzard	1	08:26:00	17		0	17		GS4, (Wet grassland)	Hunting	PM
BZ095	07/03/2019	VP3	Buzzard	2	08:35:19	144		0	144		WD4, (Conifer plantation) GS4, (Wet grassland)	Circling	PM
BZ096	07/03/2019	VP3	Buzzard	1	08:53:58	115		0	115		GS4, (Wet grassland) GA1, (Improved agricultural grassland)	Hunting	PM
BZ097	07/03/2019	VP3	Buzzard	1	11:32:20	58		58	0		WD4, (Conifer plantation) GA1, (Improved agricultural grassland)	Circling; mobbed by corvids	PM
BZ098	07/03/2019	VP3	Buzzard	1	12:20:43	76		0	76		GA1, (Improved agricultural grassland)	Circling	PM
BZ100	01/04/2019	VP5	Buzzard	1	18:27:50	263		0	263		GA1, (Improved agricultural grassland)	Travelling/circling	PM
BZ101	01/04/2019	VP5	Buzzard	1	18:30:55	48		48	0		GA1, (Improved agricultural grassland)	Circling	PM
BZ102	01/04/2019	VP5	Buzzard	1	18:46:54	54		54	0		GA1, (Improved agricultural grassland)	Travelling	PM
BZ103	02/04/2019	VP3	Buzzard	1	15:19:38	392		0	392		GS4, (Wet grassland) Mixed broadleaved/conifer woodland	Hunting	PM
BZ107	05/06/2019	VP5	Buzzard	1	10:14:47	181		100	81		GA1, (Improved agricultural grassland) Hunting		PM

BZ108	05/06/2019	VP5	Buzzard	1	11:21:22	23		23	0		GA1, (Improved agricultural grassland) Hunting		PM
BZ109	05/06/2019	VP5	Buzzard	1	13:21:34	792		500	150		GS4, (Wet grassland) Mixed broadleaved/conifer woodland Travelling with small prey; flew in among trees and reappeared without food and began hunting		PM
BZ110	05/06/2019	VP5	Buzzard	1	13:34:27	109		0	109		GA1, (Improved agricultural grassland) Hunting		PM
BZ111	05/06/2019	VP5	Buzzard	1	13:59:06	250		0	230		GA1, (Improved agricultural grassland) GS4, (Wet grassland) Hunting		PM
BZ112	05/06/2019	VP5	Buzzard	1	14:00:15	981		300	250		GA1, (Improved agricultural grassland) GS4, (Wet grassland) Hunting		PM
BZ113	06/06/2019	VP3	Buzzard	1	14:14:02	234		200	134		GA1, (Improved agricultural grassland) WD4, (Conifer plantation) Soaring/travelling		PM
BZ130	22/07/2019	VP3	Buzzard	1	11:23:14	30		30	0		Mixed broadleaved/conifer woodland GS4, (Wet grassland) Hunting		PM
BZ131	23/07/2019	VP5	Buzzard	1	10:14:24	47		47	0		GS4, (Wet grassland) Hunting		PM
BZ132	23/07/2019	VP5	Buzzard	1	14:36:43	157		0	57		GA1, (Improved agricultural grassland) Soaring		PM
BZ133	23/07/2019	VP5	Buzzard	4	15:14:51	127		0	0		GA1, (Improved agricultural grassland) Soaring		PM
BZ139	08/08/2019	5	Buzzard	1	19:14:00	197	197				GA1, (Improved agricultural grassland) Fly and land, then travelling.	Saw a juvenile Buzzard fly and land in tree's, before heading off again over hedgrows and fields.	L. Dark
BZ140	03/09/2019	VP5	Buzzard	1	09:59:49	39		0	0		GS4, (Wet grassland) Travelling low across field, through mature treeline and out of view		PM
BZ144	01/10/2019	VP5	Buzzard	1	13:54:20	130	0	0			Hunting	PM	
BZ145	01/10/2019	VP5	Buzzard	1	16:12:02	62	62	0			Travelling; mobbed by corvids; landed in tree	PM	
BZ146	01/10/2019	VP5	Buzzard	1	16:16:07	230	230	0			Travelling	PM	
BZ147	01/10/2019	VP5	Buzzard	1	16:30:17	318	0	0			Hunting	PM	
BZ148	01/10/2019	VP5	Buzzard	1	17:28:31	45	0	0			Travelling low	PM	

BZ149	01/10/2019	VP5	Buzzard	1	17:32:00	72	37	0			GA1, (Improved agricultural grassland) Travelling low	Travelling low	PM
BZ150	02/10/2019	VP3	Buzzard	1	16:01:01	398	0	398			GA1, (Improved agricultural grassland) Soaring	Soaring	PM
BZ171	15/11/2019	3	Buzzard	3	12:42:13	130	30	100			GA1, (Improved agricultural grassland)	SOARING GROUP	AOD
BZ172	18/11/2019	3	Buzzard	1	07:45:10	30	0	0			PB4, (Cutover bog)	FLYING LOW OVER BOG NW	AOD
BZ173	10/01/2020	VP5	Buzzard	1	09:06:37	26		0	0		GA1, (Improved agricultural grassland)	Travelling low	PM
BZ174	10/01/2020	VP5	Buzzard	1	09:27:43	83		83	0		GA1, (Improved agricultural grassland) GS4, (Wet grassland)	Travelling	PM
BZ175	03/02/2020	VP3	Buzzard	1	12:18:26	71		0	0	71	GA1, (Improved agricultural grassland) Hunting		PM
BZ176	03/02/2020	VP3	Buzzard	1	12:33:49	109		0	0	109	GA1, (Improved agricultural grassland) Soaring		PM
BZ177	03/02/2020	VP3	Buzzard	1	14:16:39	208		0	0	208	GA1, (Improved agricultural grassland) Hunting		PM
BZ178	04/02/2020	VP5	Buzzard	1	13:55:51	206		0	0	206	GS4, (Wet grassland) Soaring; being mobbed by HC		PM
BZ187	23/03/2020	3	Buzzard	1	07:32:00	40					GA1, (Improved agricultural grassland) Flew from large tree	Height 10-15m	PT
BZ188	23/03/2020	3	Buzzard	1	11:10:00	340			200		GA1, (Improved agricultural grassland) WD4, (Conifer plantation) Circling up then drifted down towards river	Height 75m → 175m	PT
BZ189	23/03/2020	3	Buzzard	1	11:48:00	40					GA1, (Improved agricultural grassland) Hunting	Height 20m; duration within buffer uncertain - close to buffer boundary	PT
BZ190	23/03/2020	3	Buzzard	1	11:58:00	105					GA1, (Improved agricultural grassland) Flying	Height 10-30m; duration within buffer uncertain - close to buffer boundary	PT
BZ191	23/03/2020	5	Buzzard	1	14:04:00	190			175		GA1, (Improved agricultural grassland) W, (Woodland and scrub) Flying	Height 175m → 60m	PT
BZ192	24/03/2020	5	Buzzard	1	07:56:00	25		25			GA1, (Improved agricultural grassland) W, (Woodland and scrub) Flying	Height c.15m	PT

Table 1-57 Buzzard Breeding Bird Survey Data

Breeding Bird Surveys

Map Ref.	Date	Time	Species	Number of birds	Habitat and activity	Comments	Survey or
BZ001	28/04/2016		Common Buzzard	1		Suitable nest site West of the Quadrat in scrub/trees	J.Cy
BZ002	28/04/2016		Common Buzzard	1		Flying through the site	J.Cy
BZ003	28/04/2016		Common Buzzard	1		Perched in tree, flew North	J.Cy
BZ004	09/05/2016		Common Buzzard	1		North, 15m, 5s, Flying through	J.Cy
BZ005	17/06/2016		Common Buzzard	1		Nest located, not within quadrat	J.Cy
BZ006	30/04/2016		Common Buzzard	1			
BZ007	30/04/2016		Common Buzzard	1		Landed in tree	
BZ008	29/05/2016		Common Buzzard	1		Just E of quadrat 6, circled up, drifted NW then plunged down c.1.5km away	
BZ009	10/06/2016		Common Buzzard	1		Seen after quadrat survey; calling from poplars by river, flew off SE as I approached, apparently agitated by my presence	
BZ010	18/06/2016		Common Buzzard	1		Height 150m+	
BZ001	25/04/2018		Buzzard	1			
BZ002	25/04/2018		Buzzard	1			
BZ003	30/05/2018		Buzzard	1			
BZ004	30/05/2018		Buzzard	1			
BZ005	30/05/2018		Buzzard	1			
BZ006	25/05/2018		Buzzard	1			
BZ007	18/06/2018		Buzzard	1			
BZ008	25/06/2018		Buzzard	1			
BZ009	19/06/2018		Buzzard	1			
BZ010	19/06/2018		Buzzard	1			
BZ011	19/06/2018		Buzzard	1			
BZ012	19/06/2018		Buzzard	1			
BZ013	19/06/2018		Buzzard	1			
BZ014	19/06/2018		Buzzard	1			
BZ015	04/04/2019	08:05	Buzzard	1		Flying/calling	PM
BZ016	26/06/2019	09:46	Buzzard	1		Soaring	PM
BZ017	27/06/2019	05:45	Buzzard	1		Travelling SE	PM
BZ018	25/07/2019		Buzzard	1		Travelling E	PM

Table 1-58 Buzzard Breeding Raptor Survey Data

Breeding Raptor Surveys							
Map Ref.	Date	RVP	Species	Number of birds	Time	Notes	Surveyor
	30/04/2016	C	Buzzard	1	1240	Circling; dropped	PT
	30/04/2016	C	Buzzard	1	1250	Circling; mobbed by PE	PT
	30/04/2016	C	Buzzard	1		Circled up over forestry, dropped over fields	PT

	30/04/2016	C	Buzzard	1		Circling, dropped towards conifers	PT
	30/04/2016	C	Buzzard	1		Followed bird 4 down towards conifers	PT
	30/04/2016	C	Buzzard	1	1403	Turned and swooped towards large deciduous trees between cliff and barn; not mapped - location similar to BZ2	PT
	30/04/2016	C	Buzzard	2	1529	One, tussled with second bird, low, at end of flight; one circling above same location shortly after	PT
	30/04/2016	C	Buzzard	2	1535	One flew left in front of cliff; joined second bird over gorse block, both hanging together on wind then both stooped to lower edge of gorse. Not mapped; similar location to BZ2	PT
	30/04/2016	C	Buzzard	1	00:00:00	Gliding slowly in to wind	PT
	30/04/2016	C	Buzzard	1	1702	Circling beyond gorse block	PT
	06/05/2016	R3	Buzzard	1	1210	Dropped	
	06/05/2016	G	Buzzard	1	1239	25-30m, dropped to bog	PT
	06/05/2016	R3	Buzzard	1	1449		
	25/05/2016	C	Buzzard	1	0921		
	25/05/2016	R5	Buzzard	1	1147	Male?, mewing constantly, mostly in flight, agitated by my presence; area within dashed line on map	
	25/05/2016	R5	Buzzard	1	1157	Female?; mostly within area defined by dashed line on map	
	25/05/2016	R5	Buzzard	1	1458	Same bird as 1157 flight (broken primary tips on right wing); dropped	
	25/05/2016	R5	Buzzard	1	1540	Mapped location approx	
	25/05/2016	R5	Buzzard	1	1550	Dropped	
	25/05/2016	R5	Buzzard	1	1610	Same bird as previously; dropped behind conifers	
	27/05/2016	R4B	Buzzard	1	1130		
	27/05/2016	R4B	Buzzard	1	1157		
	27/05/2016	R4B	Buzzard	1	1229		
	27/05/2016	R4B	Buzzard	1	1246		
	27/05/2016	R4B	Buzzard	3	1252		
	27/05/2016	R4B	Buzzard	1	1339		
	27/05/2016	R4B	Buzzard	1	1344		
	27/05/2016	R3	Buzzard	1	1545		
	27/05/2016	R3	Buzzard	1	1546	With ① then ③ briefly (4 birds in total)	
	27/05/2016	R3	Buzzard	2	1548		
	27/05/2016	R3	Buzzard	1		Twice seen heading in to large trees	
	27/05/2016	R3	Buzzard	3			
	29/05/2016	R6	Buzzard	1	1728	Dropped	
	29/05/2016	R6	Buzzard	1	1801	Near large broadleaf trees	
	29/05/2016	R6	Buzzard	1	1812	Landed among large broadleaf trees	
	11/06/2016	C	Buzzard	1	0754	Flushed off clearfell prior to count	
	11/06/2016	C	Buzzard	1	0825	Flushed	
	17/06/2016	Quadrat 10 Aerial	Buzzard	1	1035	See quadrat 10 aerial for location; adult feeding 2+ noisy young in nest in spruce within open forest	

	17/06/2016	R3	Buzzard	1	1831	Distant; mapped location approximate	
	29/06/2016	C/R2	Buzzard	1	1723	Brief flight, calls to 1726 hrs	PT
	29/06/2016	C/R2	Buzzard	2	1803	Adults circling together, brief clash of talons	PT
	13/07/2016	R7	Buzzard	1	1037	In flight and perched	
	13/07/2016	R7	Buzzard	1	1118		
	13/07/2016	R8	Buzzard	1	1523	Settled on cutover	
	13/07/2016	R8	Buzzard	2	1525	Territorial dispute?	
	13/07/2016	R8	Buzzard	1	1532		
	13/07/2016	R8	Buzzard	1	1607	Settled on edge of conifer block where called continuously	
	13/07/2016	R8	Buzzard	1	1632	Same bird as previous observation, circled up over conifers	
	13/04/2017	RVP1	Buzzard	2	10:17:00	WS, (Scrub/ transitional woodland) Circling	PM
	21/04/2017	RVP3	Buzzard	1	09:52:00	GA1, (Improved agricultural grassland) Mixed broadleaved/conifer woodland Flew low into woodland	PM
	01/05/2017	RVP3	Buzzard	1	15:05:00	Circling field/clear fell	PM
	01/05/2017	RVP3	Buzzard	1	15:29:00	Flying over fields hunting	PM
	02/05/2017	RVP4	Buzzard	1	12:30:00	Hunting along edge of forestry	PM
	02/05/2017	RVP4	Buzzard	1	12:46:00	Hunting over birch woodland and forestry	PM
	02/05/2017	RVP4	Buzzard	1	13:28:00	Hunting over forestry before perching in dead tree	PM
	02/05/2017	RVP4	Buzzard	1	14:27:00	Soaring over forestry	PM
	02/05/2017	RVP4	Buzzard	1	14:43:00	Sitting in dead tree	PM
	02/05/2017	RVP4	Buzzard	1	14:53:00	Soaring over forestry	PM
	02/05/2017	RVP4	Buzzard	1	15:09:00	Flying over forestry	PM
BZ001	09/04/2018	RVP4	Buzzard	2	15:05	Mixed broadleaved/conifer woodland Circling Pair circling low over woodland	PM
BZ002	09/04/2018	RVP4	Buzzard	2	15:24	PB4, (Cutover bog) Mixed broadleaved/conifer woodland Travelling Pair flying low over bog/woodland, one briefly landing on tree	PM
BZ003	09/04/2018	RVP4	Buzzard	1	16:37	Mixed broadleaved/conifer woodland GS4, (Wet grassland) Travelling Flying low over woodland/farmland	PM
BZ004	09/04/2018	RVP4	Buzzard	2	16:59	Mixed broadleaved/conifer woodland Circling Pair circling low over woodland	PM
BZ005	10/04/2018	RVP1	Buzzard	2	13:45	WD4, (Conifer plantation) PB4, (Cutover bog) Circling Pair circling over forestry/bog	PM
BZ006	10/04/2018	RVP1	Buzzard	1	14:47	WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Circling circling forestry/woodland	PM
BZ007	19/04/2018	RVP3	Buzzard	2	16:01	PB4, (Cutover bog) Mixed broadleaved/conifer woodland Soaring	PM
BZ008	19/04/2018	RVP3	Buzzard	1	16:30	Mixed broadleaved/conifer woodland Soaring	PM
BZ009	02/05/2018	RVP4	Buzzard	1	16:02	Mixed broadleaved/conifer woodland Soaring	PM
BZ010	02/05/2018	RVP4	Buzzard	1	17:28	Mixed broadleaved/conifer woodland Dropped into forestry	PM
BZ011	02/05/2018	RVP4	Buzzard	1	18:07	Mixed broadleaved/conifer woodland Circling low over forestry	PM
BZ012	04/05/2018	RVP2	Buzzard	1	10:47	Hunting	PM
BZ013	04/05/2018	RVP2	Buzzard	1	11:49	GA1, (Improved agricultural grassland) Hunting	PM
BZ014	04/05/2018	RVP2	Buzzard	2	11:58	GA1, (Improved agricultural grassland) Travelling/Soaring	PM

BZ015	04/05/2018	RVP2	Buzzard	2	12:04	GA1, (Improved agricultural grassland) Soaring Briefly joined by a 3rd BZ (from flight 6)	PM
BZ016	04/05/2018	RVP2	Buzzard	1	12:07	GA1, (Improved agricultural grassland) Soaring	PM
BZ017	04/05/2018	RVP2	Buzzard	1	12:14	GA1, (Improved agricultural grassland) Soaring	PM
BZ018	04/05/2018	RVP2	Buzzard	3	12:23	GA1, (Improved agricultural grassland) Soaring	PM
BZ019	04/05/2018	RVP2	Buzzard	1	12:27	GA1, (Improved agricultural grassland) Travelling	PM
BZ020	04/05/2018	RVP1	Buzzard	1	13:47	Mixed broadleaved/conifer woodland Hunting	PM
BZ021	04/05/2018	RVP1	Buzzard	1	13:49	Mixed broadleaved/conifer woodland Flew from woodland to interact with BZ from flight 2 before flying off	PM
BZ022	04/05/2018	RVP1	Buzzard	2	13:56	Mixed broadleaved/conifer woodland WD4, (Conifer plantation) circling	PM
BZ023	04/05/2018	RVP1	Buzzard	1	14:07	Mixed broadleaved/conifer woodland WD4, (Conifer plantation) Circling/Soaring	PM
BZ024	04/05/2018	RVP1	Buzzard	1	14:19	Mixed broadleaved/conifer woodland Soaring	PM
BZ025	04/05/2018	RVP1	Buzzard	2	15:02	Mixed broadleaved/conifer woodland WD4, (Conifer plantation) Soaring	PM
BZ026	04/05/2018	RVP1	Buzzard	1	15:11	Mixed broadleaved/conifer woodland Hunting	PM
BZ027	04/05/2018	RVP1	Buzzard	1	15:11	Mixed broadleaved/conifer woodland Hunting	PM
BZ028	04/05/2018	RVP1	Buzzard	1	15:38	Mixed broadleaved/conifer woodland Circling/Hunting	PM
BZ029	04/05/2018	RVP1	Buzzard	2	16:07	Mixed broadleaved/conifer woodland WD4, (Conifer plantation) Circling	PM
BZ030	11/06/2018	RVP2	Buzzard	1	11:31	(Mixed) broadleaved woodland Flew out of woodland before flying over scrub	PM
BZ031	11/06/2018	RVP2	Buzzard	2	12:37	GA1, (Improved agricultural grassland) Soaring over scrub/farmland	PM
BZ032	11/06/2018	RVP2	Buzzard	1	13:07	GA1, (Improved agricultural grassland) (Mixed) broadleaved woodland Flying low over farmland before flying into woodland	PM
BZ033	11/06/2018	RVP1	Buzzard	1	14:16	WD4, (Conifer plantation) (Mixed) broadleaved woodland Circling/Soaring	PM
BZ034	11/06/2018	RVP1	Buzzard	1	14:20	(Mixed) broadleaved woodland Came out of woodland to join first BZ	PM
BZ035	11/06/2018	RVP1	Buzzard	1	14:45	WD4, (Conifer plantation) (Mixed) broadleaved woodland Circling/Soaring	PM
BZ036	11/06/2018	RVP1	Buzzard	2	14:57	WD4, (Conifer plantation) Circling forestry (104s) before landing in forestry (1617s) then flying off over woodland (57s)	PM
BZ037	11/06/2018	RVP1	Buzzard	1	15:27	WD4, (Conifer plantation) (Mixed) broadleaved woodland Circling forestry, joined by second BZ after 15s, then soaring over area for 402s before both birds fly into forestry	PM
BZ038	11/06/2018	RVP1	Buzzard	1	16:05	WD4, (Conifer plantation) (Mixed) broadleaved woodland circling woodland/forestry before flying into forestry	PM
BZ039	11/06/2018	RVP1	Buzzard	1	16:43	WD4, (Conifer plantation) (Mixed) broadleaved woodland circling woodland/forestry before flying into forestry	PM
BZ040	11/06/2018	RVP1	Buzzard	1	16:48	WD4, (Conifer plantation) (Mixed) broadleaved woodland circling woodland/forestry	PM
BZ041	20/06/2018	RVP4	Buzzard	1	09:49	PB4, (Cutover bog) (Mixed) broadleaved woodland Hunting	PM
BZ042	20/06/2018	RVP4	Buzzard	1	11:26	PB4, (Cutover bog) (Mixed) broadleaved woodland Circling	PM
BZ043	20/06/2018	RVP3	Buzzard	1	14:38	PB4, (Cutover bog) (Mixed) broadleaved woodland Soaring	PM
BZ044	20/06/2018	RVP3	Buzzard	1	15:04	(Mixed) broadleaved woodland Soaring	PM
BZ045	03/07/2018	RVP1	Buzzard	1	13:20	WD4, (Conifer plantation) Soaring	PM
BZ046	03/07/2018	RVP1	Buzzard	1	13:38	WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Flying with BZ flight 3 before dropping into forestry	PM
BZ047	03/07/2018	RVP1	Buzzard	1	13:38	WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Soaring	PM

BZ048	03/07/2018	RVP1	Buzzard	1	14:41	WD4, (Conifer plantation) Circling	PM
BZ049	05/07/2018	RVP4	Buzzard	1	10:18	PB4, (Cutover bog) Mixed broadleaved/conifer woodland Travelling; before being mobbed by HC and landing in woodland	PM
BZ050	05/07/2018	RVP4	Buzzard	1	10:58	PB4, (Cutover bog) flew from tree and across cutover	PM
BZ051	05/07/2018	RVP3	Buzzard	1	14:06	WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Hunting	PM
BZ052	10/04/2019	BRVP 4	Buzzard	1	15:37	Mixed broadleaved/conifer woodland Travelling	PM
BZ053	10/04/2019	BRVP 4	Buzzard	1	15:50	Mixed broadleaved/conifer woodland GS1, (Dry calcareous grassland and neutral grassland) Soaring	PM
BZ054	11/04/2019	BRVP 2	Buzzard	2	11:47	GA1, (Improved agricultural grassland) Soaring	PM
BZ055	11/04/2019	BRVP 1	Buzzard	1	14:17	WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Circling; landed at edge of forestry	PM
BZ056	11/04/2019	BRVP 1	Buzzard	1	15:14	WD4, (Conifer plantation) Circling	PM
BZ057	11/04/2019	BRVP 1	Buzzard	1	15:27	Mixed broadleaved/conifer woodland Circling	PM
BZ058	07/05/2019	RVP3	Buzzard	1	11:03	Mixed broadleaved/conifer woodland Circling; dipped below tree line	PM
BZ059	08/05/2019	RVP1	Buzzard	1	10:28	Mixed broadleaved/conifer woodland Hunting	PM
BZ060	08/05/2019	RVP1	Buzzard	1	11:19	Mixed broadleaved/conifer woodland WD4, (Conifer plantation) Hunting	PM
BZ061	08/05/2019	RVP1	Buzzard	1	11:43	WD4, (Conifer plantation) Hunting	PM
BZ062	08/05/2019	RVP1	Buzzard	1	12:23	PB4, (Cutover bog) Mixed broadleaved/conifer woodland Travelling	PM
BZ063	13/06/2019	RVP2	Buzzard	1	09:29	GA1, (Improved agricultural grassland) Travelling	PM
BZ064	13/06/2019	RVP1	Buzzard	1	13:01	Mixed broadleaved/conifer woodland Hunting	PM
BZ065	13/06/2019	RVP1	Buzzard	1	13:09	Mixed broadleaved/conifer woodland Hunting	PM
BZ066	13/06/2019	RVP1	Buzzard	1	13:37	Mixed broadleaved/conifer woodland Hunting	PM
BZ067	13/06/2019	RVP1	Buzzard	1	13:49	PB4, (Cutover bog) Hunting	PM
BZ068	13/06/2019	RVP1	Buzzard	1	13:49	Mixed broadleaved/conifer woodland Hunting	PM
BZ069	13/06/2019	RVP1	Buzzard	1	14:10	Mixed broadleaved/conifer woodland Hunting	PM
BZ070	13/06/2019	RVP1	Buzzard	1	14:16	Mixed broadleaved/conifer woodland Hunting	PM
BZ071	13/06/2019	RVP1	Buzzard	1	14:27	WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Hunting	PM
BZ072	13/06/2019	RVP1	Buzzard	1	14:31	Mixed broadleaved/conifer woodland Hunting	PM
BZ073	13/06/2019	RVP1	Buzzard	1	14:49	Mixed broadleaved/conifer woodland Hunting	PM
BZ074	13/06/2019	RVP1	Buzzard	1	14:49	WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Hunting	PM
BZ075	13/06/2019	RVP1	Buzzard	1	15:00	WD4, (Conifer plantation) Hunting	PM
BZ076	26/07/2019	RVP1	Buzzard	1	10:11	PB4, (Cutover bog) (Mixed) broadleaved woodland Travelling very low across bog and into wood	PM
BZ077	26/07/2019	RVP1	Buzzard	1	10:33	WD4, (Conifer plantation) (Mixed) broadleaved woodland Circling	PM
BZ078	26/07/2019	RVP1	Buzzard	1	10:47	PB4, (Cutover bog) (Mixed) broadleaved woodland Hunting low	PM

Table 1-59 Buzzard Winter Transect Survey Data

Winter Transect Surveys							
Map Ref	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Comments	Surveyor
BZ001	15/12/2015		Common Buzzard	2	Grassland and marsh		PT
BZ002	15/12/2015		Common Buzzard	1	Not specified		PT
BZ003	24/12/2015		Common Buzzard	1	Not specified		PT
BZ004	29/12/2015		Common Buzzard	1	Not specified		PT
BZ005	15/01/2016		Common Buzzard	2	Not specified		PT
BZ008	11/02/2016		Common Buzzard	1	Not specified		PT
BZ009	11/02/2016		Common Buzzard	3	Not specified		PT
BZ006	19/01/2016		Common Buzzard	1	Not specified		J.Cy
BZ010	24/02/2016		Common Buzzard	1	Bogs		J.Cy
BZ011	12/03/2016		Common Buzzard	2	Cutover bog/ wet grassland/ conifer plantation		SD
BZ012	14/03/2016		Common Buzzard	1	Cutover bog/Scrub		JCY
BZ013	30/10/2016		Common Buzzard	1		flew across cutover, landed in tree belt	PT
BZ014	30/10/2016		Common Buzzard	1			PT
BZ007	14-15/01/2016		Common Buzzard	2	Not specified		
BZ001	03/12/2018	11:21:32	Buzzard	1	WD4, (Conifer plantation) perched	on dead tree	PM
BZ002	03/12/2018	11:22:07	Buzzard	1	WD4, (Conifer plantation) perched	on dead tree	PM
BZ003	14/01/2019	10:06:37	Buzzard	1	perched		PM
BZ004	14/01/2019	12:03:30	Buzzard	1	WD4, (Conifer plantation) flying		PM
BZ005	21/03/2019	14:16:13	Buzzard	1	GA1, (Improved agricultural grassland)	Hunting	PM
BZ005	21/03/2019	14:17:29	Buzzard	1	WD4, (Conifer plantation)	Hunting	PM
BZ007	21/03/2019	14:56:23	Buzzard	5	WD4, (Conifer plantation)	Soaring	PM
BZ008	07/01/2020	11:15:58	Buzzard	1	PB4, (Cutover bog)	Travelling/hunting	PM
BZ009	07/01/2020	11:17:28	Buzzard	1	WD4, (Conifer plantation)	Hunting	PM
BZ010	19/03/2020		Buzzard	8	PB4, (Cutover bog) Mixed broadleaved/conifer woodland	Circling	DM
BZ011	20/03/2020		Buzzard	7	PB4, (Cutover bog) Mixed broadleaved/conifer woodland	Circling	DM

Table 1-60 Buzzard Waterfowl Survey Data

Waterfowl Surveys					
Date	Location	Species	Number of birds	Notes on habitat and activity	Surveyor
15/09/2016	Bracklagh	Common Buzzard	1		
15/09/2016	Derravaragh	Common Buzzard	1		
17/10/2016	Derravaragh	Common Buzzard	1		PT-JC
17/10/2016	Kinale	Common Buzzard	2		PT-JC
15/11/2016	Bracklagh	Common Buzzard	1		PT-JC

17/12/2016	Kinale	Common Buzzard	1		PT-JC
29/12/2016	Derravaragh	Common Buzzard	1		PT-JC
29/12/2016	Kinale	Common Buzzard	1		PT-JC
12/03/2017	Area N. of Lough Bane	Common Buzzard	1		J. Carey
12/03/2017	Lough Kinale	Common Buzzard	1		J. Carey
12/03/2017	Lough Bane	Common Buzzard	1		J. Carey
25/03/2020	Lough Kinale and Derragh Lough	Buzzard	1	Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) Circling	DM



Map Legend

-  EIAR Site Boundary
 -  Turbine Location
 -  500m Buffer of Turbine Location
 -  Vantage Point Location
 -  Buzzard VP Flight

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Drawing Title

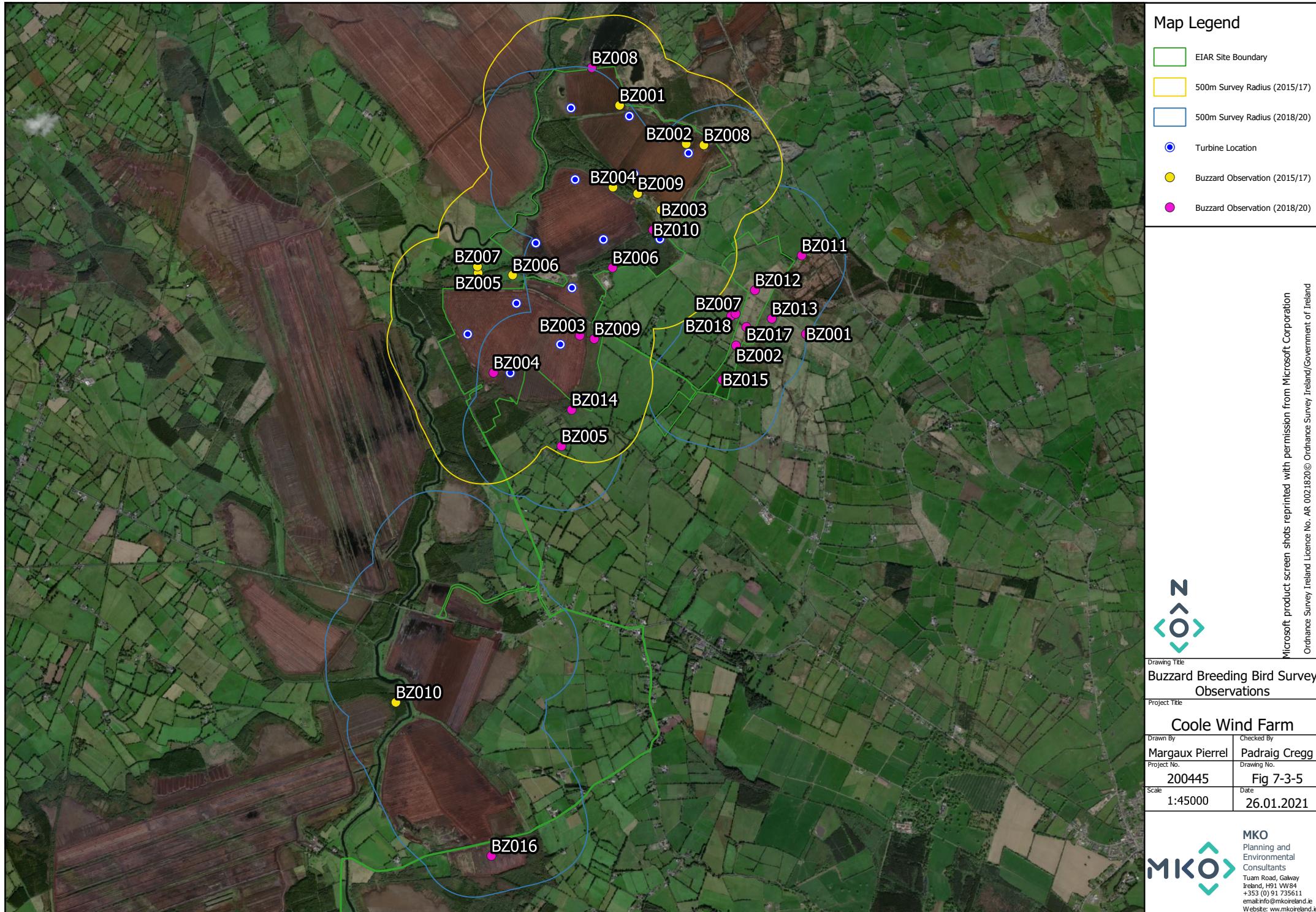
Buzzard VP Flights

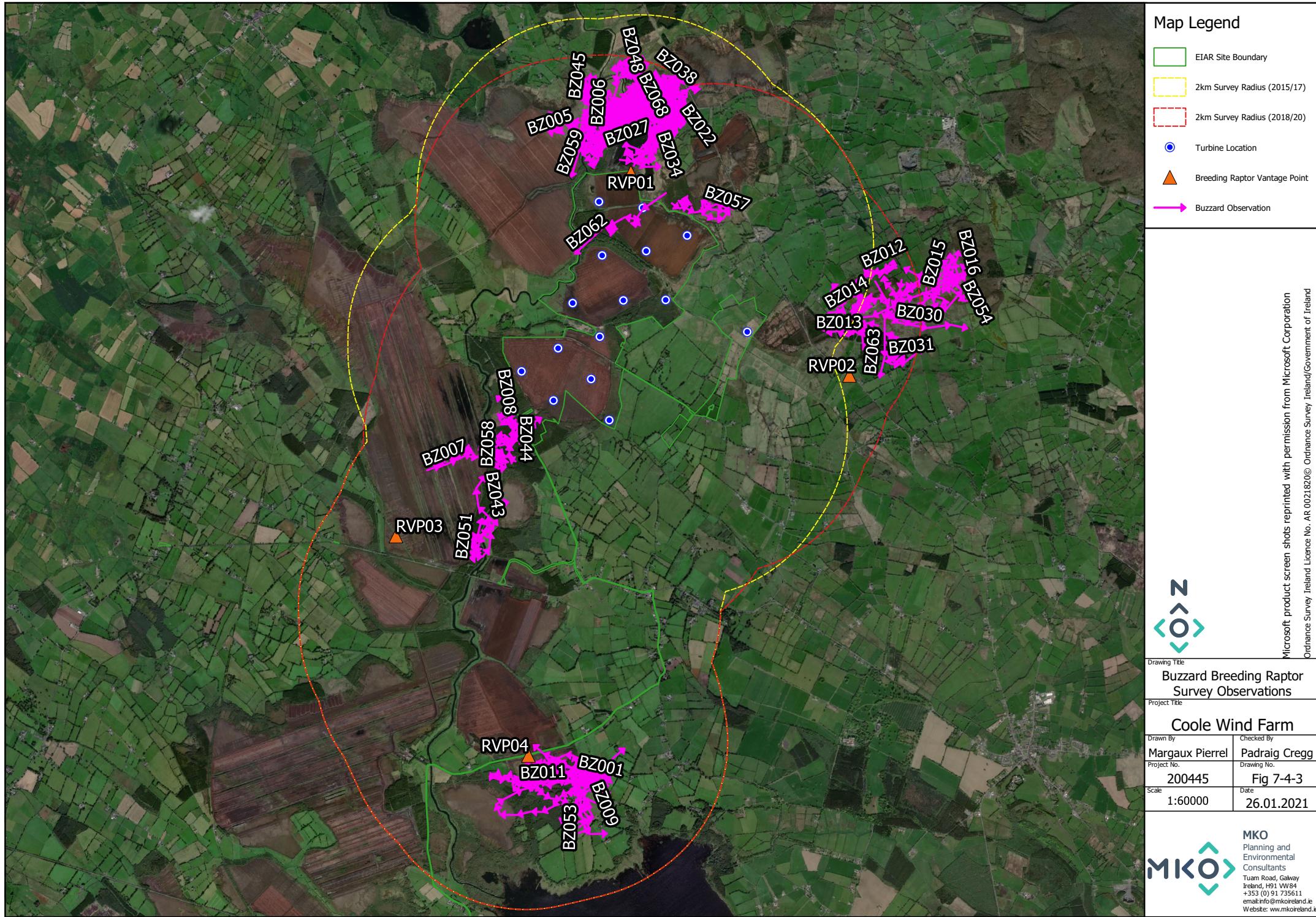
Project Title

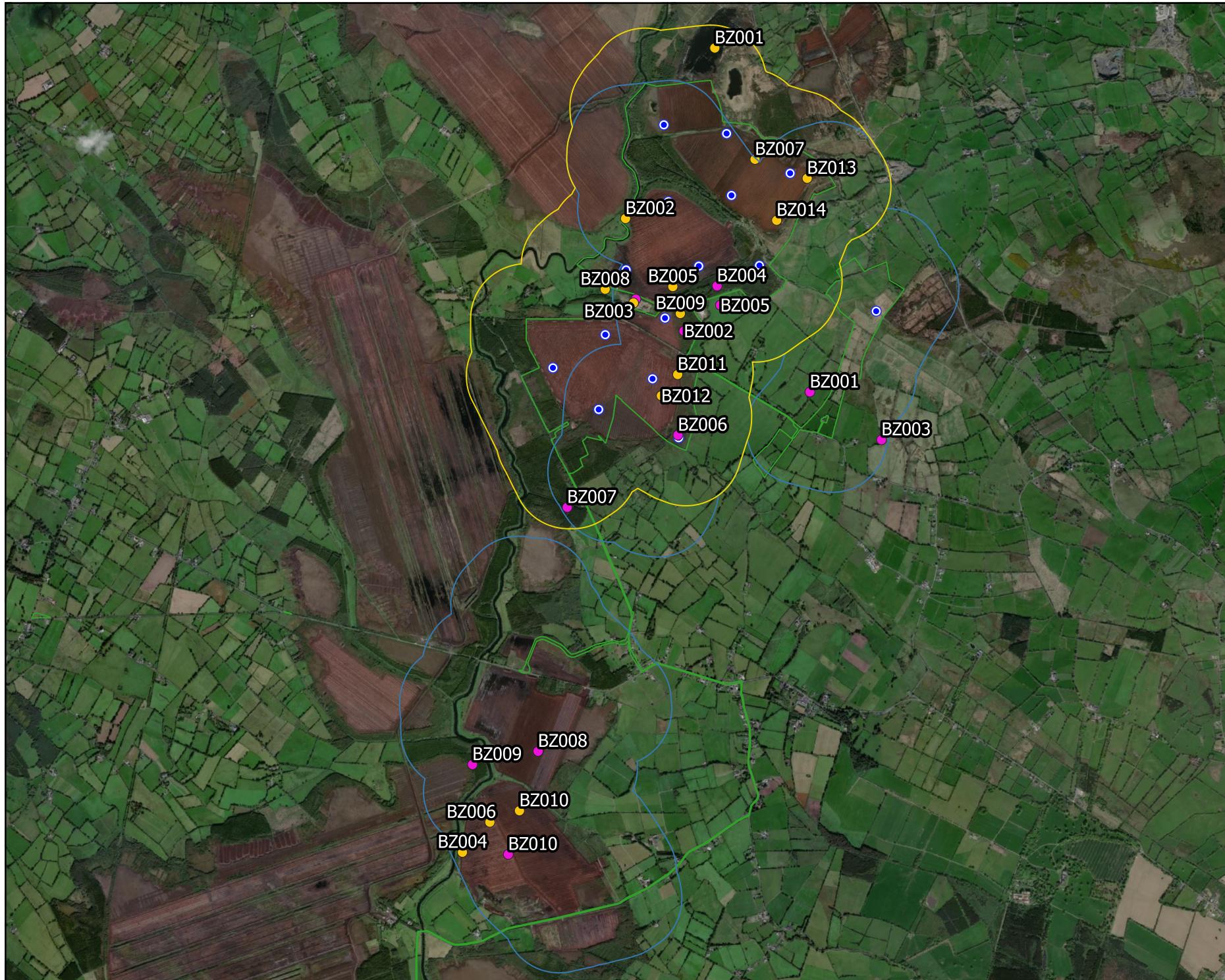
Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-1-15
Scale	Date
1:25000	25.01.2021

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Map Legend

- EIAR Site Boundary
- Turbine Location
- Winter Transect Survey Area (500m) (2015/17)
- Winter Transect Survey Area (500m) (2018/20)
- Buzzard Observation (2015/17)
- Buzzard Observation (2018/20)

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Drawing Title
Buzzard Winter Transect Survey Observations

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-5-12
Scale	Date
1:45000	26.01.2021

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Table 1-61 Sparrowhawk Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
	25/11/2015	4	Sparrowhawk	1	09:39:00	3	3						J.Cy
	25/11/2015	4	Sparrowhawk	2	10:00:00	8		8					J.Cy
	25/11/2015	4	Sparrowhawk	1	10:54:00	15		15					J.Cy
	25/11/2015	4	Sparrowhawk	1	12:04:00	20		20					J.Cy
	06/12/2015	3	Sparrowhawk	1	1027	15			15				PT
	06/12/2015	3	Sparrowhawk	2	1125	15		15					J.Cy
	22/12/2015	3	Sparrowhawk	1	0928			15					J.Cy
	15/02/2016	4	Sparrowhawk	2	16:30:00	10			10				J.Cy
	15/02/2016	4	Sparrowhawk	1	17:36:00	15		15					J.Cy
	06/03/2016	3	Sparrowhawk	1	0711	170			170				PT
	21/04/2016	3	Sparrowhawk	1	16:17:00	3	3						J.Cy
	09/05/2016	4	Sparrowhawk	1	07:10:00	5	5						J.Cy
	11/06/2016	3	Sparrowhawk	1	12:43:00	40			240				J.Cy
	12/07/2016	3	Sparrowhawk	1	1339	840			60	780			PT
	28/11/2016	4	Sparrowhawk	1	13:15:00	15		10			Mix of cutover bog, bog woodland and impoved grassland	Off-site	JC
	18/12/2016	3	Sparrowhawk	1	09:15	240			240		forestry	display flight/sky dancing	PT
	05/03/2017	4	Sparrowhawk	1		22	22				PB1, (Raised bog)	distant raptor, probably sparrowhawk	P.Troake
	06/03/2017	3	Sparrowhawk	1	07:10:00	130			130		PB4, (Cutover bog) WD4, (Conifer plantation)	height 40m	P.Troake
	06/03/2017	3	Sparrowhawk	1	15:11:00	10	10				PB, (Bogs)	flew from top of pine	P.Troake
	08/04/2017	4	Sparrowhawk	1	18:40:00	6	6				PB4, (Cutover bog) Travelling		PM
	04/04/2017	3	Sparrowhawk	1	15:54:00	10		10			Mixed broadleaved/conifer woodland Hunting		PM
	02/06/2017	3	Sparrowhawk	1	11:10:00	5	5				WD4, (Conifer plantation) Travelling		PM
SH001	16/04/2018	VP3	Sparrowhawk	1	11:25:00	20		20			PB4, (Cutover bog) WD4, (Conifer plantation) GA1, (Improved agricultural grassland) hunting female		DM

SH002	22/08/2018	VP5	Sparrowhawk	1	12:01:36	31		0	0		GS4, (Wet grassland) Travelling		PM
SH003	09/11/2018	VP5	Sparrowhawk	1	09:20:50	63		0	0		GA1, (Improved agricultural grassland)	Hunting	PM
SH004	04/12/2018	VP5	Sparrowhawk	1	12:16:44	21		0	0		GA1, (Improved agricultural grassland) GS4, (Wet grassland)	Travelling	PM
SH005	20/11/2019	vp5	sparrowhawk	1	08:55:00	35	35				GA1, (Improved agricultural grassland) Mixed broadleaved/conifer woodland female hunting		DM
SH006	04/02/2020	VP5	Sparrowhawk	1	14:06:21	56		0	56	0	GA1, (Improved agricultural grassland) Hunting; female		PM
SH007	04/02/2020	VP5	Sparrowhawk	1	14:48:11	35		35	0	0	GA1, (Improved agricultural grassland) Travelling; Female		PM
SH008	23/03/2020	3	Sparrowhawk	2	08:23:00	80		20	60		PB4, (Cutover bog) W, (Woodland and scrub) Lead bird sky dancing over forest at end of flight	Height 40m → 15m	PT
SH009	23/03/2020	3	Sparrowhawk	1	09:15:00	20		5			GA1, (Improved agricultural grassland) W, (Woodland and scrub) Display flight/sky dancing	Height 15m	PT
SH010	23/03/2020	3	Sparrowhawk	1	09:42:00	45		25	20		GA1, (Improved agricultural grassland) W, (Woodland and scrub) Display flight/sky dancing	Height 15-30m	PT
SH011	24/03/2020	5	Sparrowhawk	1	06:17:00	7	7				Hunting along hedgerow at VP		PT

Table 1-62 Sparrowhawk Breeding Bird Survey Data

Breeding Bird Surveys								
Map Ref.	Survey Date	Time of observation		Species	Number of birds	Habitat and Activity	Comments	Surveyor
SH001	29/05/2016			Sparrowhawk	2			PT
SH001	26/04/2018			Sparrowhawk	1			PT
SH002	25/07/2019			sparrowhawk	3		Calling/circling	PM
SH003	30/07/2019			sparrowhawk	1		Flying along drain, landed in tree	PM

Table 1-63 Sparrowhawk Breeding Raptor Survey Data

Breeding Raptor Surveys								
Map Ref.	Date	RVP	Species Name	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
SH001	27/05/2016	G	Sparrowhawk	1	1733	Direct flight		PT
SH002	10/06/2016	R7	Sparrowhawk	1	1045	Hunting	Perching on fence posts/bushes, site boundary	PT
SH003	29/06/2016	C/R2	Sparrowhawk	1	1849	Hunting	With prey, losing height	PT
SH004	21/04/2017	RVP4	Sparrowhawk	1	1436	Hunting over forestry		PM
SH005	01/05/2017	RVP2	Sparrowhawk	1	1103	Travelling	Flying across bog and into forestry	PM
SH001	09/04/2018	RVP4	Sparrowhawk	1	17:18	Mixed broadleaved/conifer woodland Hunting	Hunting along edge of woodland	PM
SH002	05/07/2018	RVP4	Sparrowhawk	1	11:21	PB4, (Cutover bog) Mixed broadleaved/conifer woodland Travelling with food		PM
SH003	11/04/2019	BRVP1	Sparrowhawk	1	14:35	PB4, (Cutover bog) Flew across flood and landed in scrub		PM
SH004	11/04/2019	BRVP1	Sparrowhawk	1	14:39	Flew to catch passerine; carried it off into scrub		PM

Table 1-64 Sparrowhawk Winter Transect Survey Data

Winter Transect Surveys								
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity		Comments	Surveyor
SH001	15/12/2015		Eurasian Sparrowhawk	2				PT
SH002	15/12/2015		Eurasian Sparrowhawk	1				PT
SH003	29/12/2015		Eurasian Sparrowhawk	1				PT
SH004	15/01/2016		Eurasian Sparrowhawk	2				PT
SH005	11/02/2016		Eurasian Sparrowhawk	1				PT
SH006	14/03/2016		Eurasian Sparrowhawk	1				JCY
SH007	27/03/2017	12:40	Eurasian Sparrowhawk	1	WS, (Scrub/transitional woodland)	PB4, (Cutover bog)	circling	PT
SH001	10/10/2019	13:19:58	sparrowhawk	1		PB4, (Cutover bog)	Hunting	PM

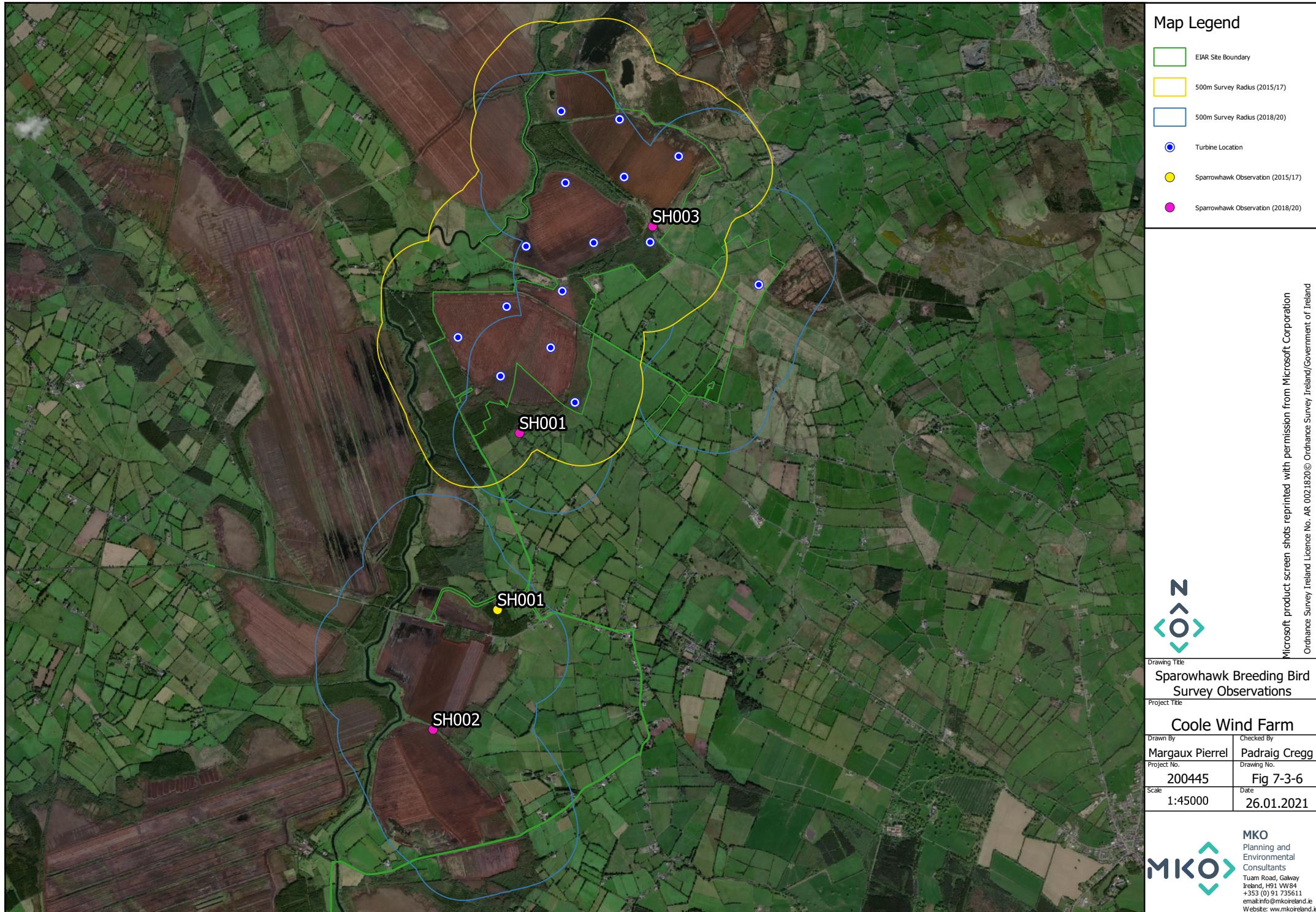
Table 1-65 Sparrowhawk Incidental Observation Data

Incidental Observations							
Date	Survey Type	Location	Species	Number of Individuals	Notes		Surveyor
15/09/2016	Wildfowl	Derravaragh	Sparrowhawk	1			PT



23/10/2018	Lough iron survey		Sparrowhawk	1	flew onto lake	DM
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Map Legend

- EIA Site Boundary
- Turbine Location
- Winter Transect Survey Area (500m) (2015/16)
- Winter Transect Survey Area (500m) (2018/19)
- Sparrowhawk Observation (2015/17)
- Sparrowhawk Observation (2018/20)

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Drawing Title
Sparrowhawk Winter Transect Survey Observations

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-5-13
Scale	Date
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Table 1-66 Kestrel Vantage Point Survey Data

Map Ref	Date	VP	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Vantage Point Surveys				Notes on habitat and activity	Comments	Surveyor
							Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175 m)			
	25/11/2015	4	Kestrel	1	09:17:00	20			20				J.Cy
	25/11/2015	4	Kestrel	1	13:31:00	10		10					J.Cy
	10/12/2015	4	Kestrel	1	1131	130		130					J.Cy
	10/12/2015	4	Kestrel	1	1241	30		30					PT
	10/12/2015	4	Kestrel	1	1355	70		70					J.Cy
	10/12/2015	4	Kestrel	2	0929	20	20						J.Cy
	10/01/2016	4	Kestrel	1	09:09:00	15		25					J.Cy
	10/01/2016	4	Kestrel	1	11:02:00	5		10					J.Cy
	10/01/2016	4	Kestrel	1	12:08:00	25			25				J.Cy
	10/01/2016	4	Kestrel	1	13:15:00	8		8					J.Cy
	14/01/2016	3	Kestrel	1	1255	50		50					PT
	14/01/2016	3	Kestrel	1	1347	40	15	25					PT
	15/02/2016	4	Kestrel	1	15:43:00	5		5					J.Cy
	15/02/2016	4	Kestrel	1	16:27:00	5		5					J.Cy
	06/03/2016	3	Kestrel	1	0841	25	25						J.Cy
	10/04/2016	3	Kestrel	1	1148	215			215				J.Cy
	10/04/2016	3	Kestrel	1	1311	420		90	330				J.Cy
	20/04/2016	4	Kestrel	1	1916	360	150	30	180				J.Cy
	12/07/2016	3	Kestrel	1	1759	200		5	195				PT
	12/07/2016	3	Kestrel	1	1845	100	10	5	85				PT
	20/07/2016	4	Kestrel	1	14:49:00	50			30				J.Cy
	13/08/2016	3	Kestrel	1	01:38:00	180		180					J.Cy
	13/08/2016	3	Kestrel	1	11:50:00	25		25					J.Cy
	13/08/2016	3	Kestrel	1	12:18:00	40		40					J.Cy
	30/09/2016	4	Kestrel	1	09:18:00	400	60	110	230				
	30/09/2016	4	Kestrel	1	10:35:00	5	5						
	30/09/2016	4	Kestrel	1	10:35:00	10	10						
	18/10/2016	3	Kestrel	1	09:22:00	45			45				J.C
	18/10/2016	3	Kestrel	1	12:19:00	140			140				J.C
	18/10/2016	3	Kestrel	1	13:20:00	20		20					J.C
	28/11/2016	4	Kestrel	1	13:31:00	25			30		Cut-over bog, bog woodland, improved grassland		J.C
	28/11/2016	4	Kestrel	1	13:42:00	35	20				Cut-over bog, bog woodland, improved grassland		J.C

	18/12/2016	4	Kestrel	1	14:29	130		15	115		open forestry	descended, hunting, landed on tree	PT
	18/12/2016	4	Kestrel	1	14:34	15		15			forestry		PT
	19/12/2016	4	Kestrel	1	11:31	10		10			trees/pasture	landed on tree briefly	PT
	28/01/2017	4	Kestrel	1	13:36:00	190		20	170		PB4, (Cutover bog) WD4, (Conifer plantation) hunting; dropped to conifer		P.Troake
	28/01/2017	4	Kestrel	1	13:46:00	12	3	9			PB4, (Cutover bog) hunting	height 25m; dropped	P.Troake
	28/01/2017	4	Kestrel	1	14:00:00	25		25			WD4, (Conifer plantation) hunting	dropped	P.Troake
	28/01/2017	4	Kestrel	1	14:28:00	50		50			WD4, (Conifer plantation) PB4, (Cutover bog) hunting	height 25m, dropped to conifer at 12m	P.Troake
	28/01/2017	4	Kestrel	1	14:33:00	90	5	85			PB4, (Cutover bog) hunting	dropped	P.Troake
	05/03/2017	4	Kestrel	1	15:40:00	6	6				WD4, (Conifer plantation) PB4, (Cutover bog)	male; landed on peat pile; height c.8m	P.Troake
	05/03/2017	4	Kestrel	1	15:43:00	15	15				PB4, (Cutover bog) WN7, (Bog woodland)	male; height 8-10m	P.Troake
	27/03/2017	4	Kestrel	1	07:29:00	12		12				height 15m	P.Troake
	27/03/2017	4	Kestrel	1	15:07:00	120		15	105		PB4, (Cutover bog) GA1, (Improved agricultural grassland) initially circling	height 15-50m, descended	P.Troake
	27/03/2017	4	Kestrel	1	15:46:00	27			27		hunting	height 45m	P.Troake
	03/04/2017	4	Kestrel	1	17:03:00	35		35			PB4, (Cutover bog) Mixed broadleaved/conifer woodland Hunting		PM
	03/04/2017	4	Kestrel	1	17:19:00	85			85		PB4, (Cutover bog) Mixed broadleaved/conifer woodland Preening in conifer for 205 seconds before flying off to hunt		PM
	03/04/2017	4	Kestrel	1	18:39:00	25		25			Mixed broadleaved/conifer woodland Perched for 557 seconds		PM
	03/04/2017	4	Kestrel	1	18:49:00	47			47		Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) Travelling		PM
	04/04/2017	3	Kestrel	1	15:21:00	4		4			Mixed broadleaved/conifer woodland Perched for 75 seconds before swooping down into woodland		PM
	02/06/2017	3	Kestrel	1	13:15:00	20		20			WD4, (Conifer plantation) Hunting		PM
	11/07/2017	4	Kestrel	1	13:14:00	75		75			Mixed broadleaved/conifer woodland PB4, (Cutover bog) Hunting		PM

	11/07/2017	4	Kestrel	2	13:40:00	46		46		Mixed broadleaved/conifer woodland PB4, (Cutover bog) Travelling		PM
	11/07/2017	4	Kestrel	1	15:42:00	106		106		Mixed broadleaved/conifer woodland Hunting		PM
K009	24/05/2018	VP3	Kestrel	1	16:15:00	80		60		PB4, (Cutover bog) Mixed broadleaved/conifer woodland travelling		DM
K010	24/05/2018	VP3	Kestrel	1	20:00:00	90		90		PB4, (Cutover bog) Mixed broadleaved/conifer woodland travelling		DM
K013	06/08/2018	VP3	Kestrel	1	10:19:24	383		0	383	PB4, (Cutover bog) GA1, (Improved agricultural grassland) Hunting		PM
K014	22/08/2018	VP5	Kestrel	1	16:38:26	46		0	46	GA1, (Improved agricultural grassland) Travelling		PM
K015	27/09/2018	VP3	Kestrel	1	09:10:08	244		0	124	PB4, (Cutover bog) (Mixed) broadleaved woodland Travelling		PM
K018	03/10/2018	VP3	Kestrel	1	15:05:00	133		0	133	(Mixed) broadleaved woodland GS1, (Dry calcareous grassland and neutral grassland) Hunting before landing on met mast		PM
K019	03/10/2018	VP3	Kestrel	1	18:00:02	52		0	27	Mixed broadleaved/conifer woodland WD4, (Conifer plantation) Travelling		PM
K020	04/12/2018	VP5	Kestrel	1	11:53:50	395		0	395	GS4, (Wet grassland)	Hunting	PM
K028	20/02/2019	VP3	Kestrel	1	13:57:56	70		0	70	GA1, (Improved agricultural grassland)	Hunting	PM
K029	20/02/2019	VP3	Kestrel	1	14:38:11	20		0	20	PB1, (Raised bog)	Hunting	PM
K030	20/02/2019	VP3	Kestrel	1	14:56:31	52		0	0	PB4, (Cutover bog)	Travelling low	PM
K043	04/09/2019	VP3	Kestrel	1	10:57:34	134		0	134	PB1, (Raised bog) WD4, (Conifer plantation) Hunting/Travelling		PM
K044	04/09/2019	VP3	Kestrel	1	11:08:59	15		0	15	GS4, (Wet grassland) Seen hovering briefly before dropping down behind trees		PM
K045	01/10/2019	VP5	Kestrel	1	14:34:07	82	0	82		Travelling	PM	
K046	15/11/2019	3	Kestrel	1	13:50:20	230	180	0		Mixed broadleaved/conifer woodland GA1, (Improved agricultural grassland) PB4, (Cutover bog)	MALE HOVERING NEAR VP	AOD
K055	09/01/2020	VP3	Kestrel	1	13:43:53	45		0	45	WD4, (Conifer plantation)	Travelling	PM
K060	04/02/2020	VP5	Kestrel	1	13:01:36	378		0	78	GS4, (Wet grassland) Hunting		PM
K063	23/03/2020	5	Kestrel	1	14:07:00	30		30		GA1, (Improved agricultural grassland) Hovering	Height c.40m	PT

Table 1-67 Kestrel Breeding Bird Survey Data

Breeding Bird Surveys							
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Comments	Surveyor
K001	30/05/2016		Common Kestrel	1			PT
K001	18/06/2018		Kestrel	1			

Table 1-68 Kestrel Breeding Raptor Survey Data

Breeding Raptor Surveys								
Map Ref.	Date	RVP	Species	Number of birds	Time	Activity	Notes	Surveyor
K001	06/05/2016	R3	Kestrel	1	1209	hunting	Dropped	PT
K002	06/05/2016	G	Kestrel	1	1305	Hunting	25-30m; suitable breeding habitat nearby (isolated spruce stand)	PT
K003	06/05/2016	R3	Kestrel	1	1415	Flying	Hunting, mainly from perches	PT
K004	06/05/2016	R3	Kestrel	1	1552	Flying	Hunting from perches, to end of watch	PT
K005	25/05/2016	R5	Kestrel	1	1628	Hunting		PT
K006	27/05/2016	R4B	Kestrel	1	1321	Flying		PT
K007	27/05/2016	R3	Kestrel	1	1605	Circling then Drifted		PT
K008	27/05/2016	R3	Kestrel	1	1658	Circling		PT
K009	17/06/2016	R3	Kestrel	1	1746	Hunting	Mainly on perches, to 1800 hrs	PT
K010	17/06/2016	R3	Kestrel	1	1855	Hunting	Mainly perched; F/imm; to 1930 hrs	PT
K011	21/04/2017	RVP4	Kestrel	1	13:22:00	Circling over forestry		PM
K012	01/05/2017	RVP3	Kestrel	1	13:45:00	Calling behind woodland	Not seen	PM
K013	02/05/2017	RVP4	Kestrel	1	14:08:00	Hunting	Hunting over birch woodland	PM
K001	09/04/2018	RVP4	Kestrel	1	14:49	Mixed broadleaved/conifer woodland	Hunting	PM
K002	09/04/2018	RVP4	Kestrel	1	15:10	Mixed broadleaved/conifer woodland	Travelling	Flying low over woodland
K003	09/04/2018	RVP4	Kestrel	1	15:13	Mixed broadleaved/conifer woodland	Hunting	PM
K004	09/04/2018	RVP4	Kestrel	1	16:22	Mixed broadleaved/conifer woodland	Hunting	PM
K005	09/04/2018	RVP4	Kestrel	1	16:26	PB4, (Cutover bog)	Mixed broadleaved/conifer woodland	PM
K006	09/04/2018	RVP4	Kestrel	1	16:44	Mixed broadleaved/conifer woodland	Hunting	PM
K007	10/04/2018	RVP1	Kestrel	1	18:40	PB4, (Cutover bog)	Travelling	Travelling high over bog
K008	10/04/2018	RVP1	Kestrel	1	14:58	Mixed broadleaved/conifer woodland	Hunting	PM
K009	10/04/2018	RVP1	Kestrel	1	15:13	Mixed broadleaved/conifer woodland	Hunting	PM
K010	02/05/2018	RVP4	Kestrel	1	16:46	Mixed broadleaved/conifer woodland	Hunting	PM
K011	04/05/2018	RVP1	Kestrel	1	14:51	Mixed broadleaved/conifer woodland	Hunting	PM
K012	20/06/2018	RVP4	Kestrel	1	09:28	PB4, (Cutover bog)	(Mixed) broadleaved woodland	PM
						Hunting		

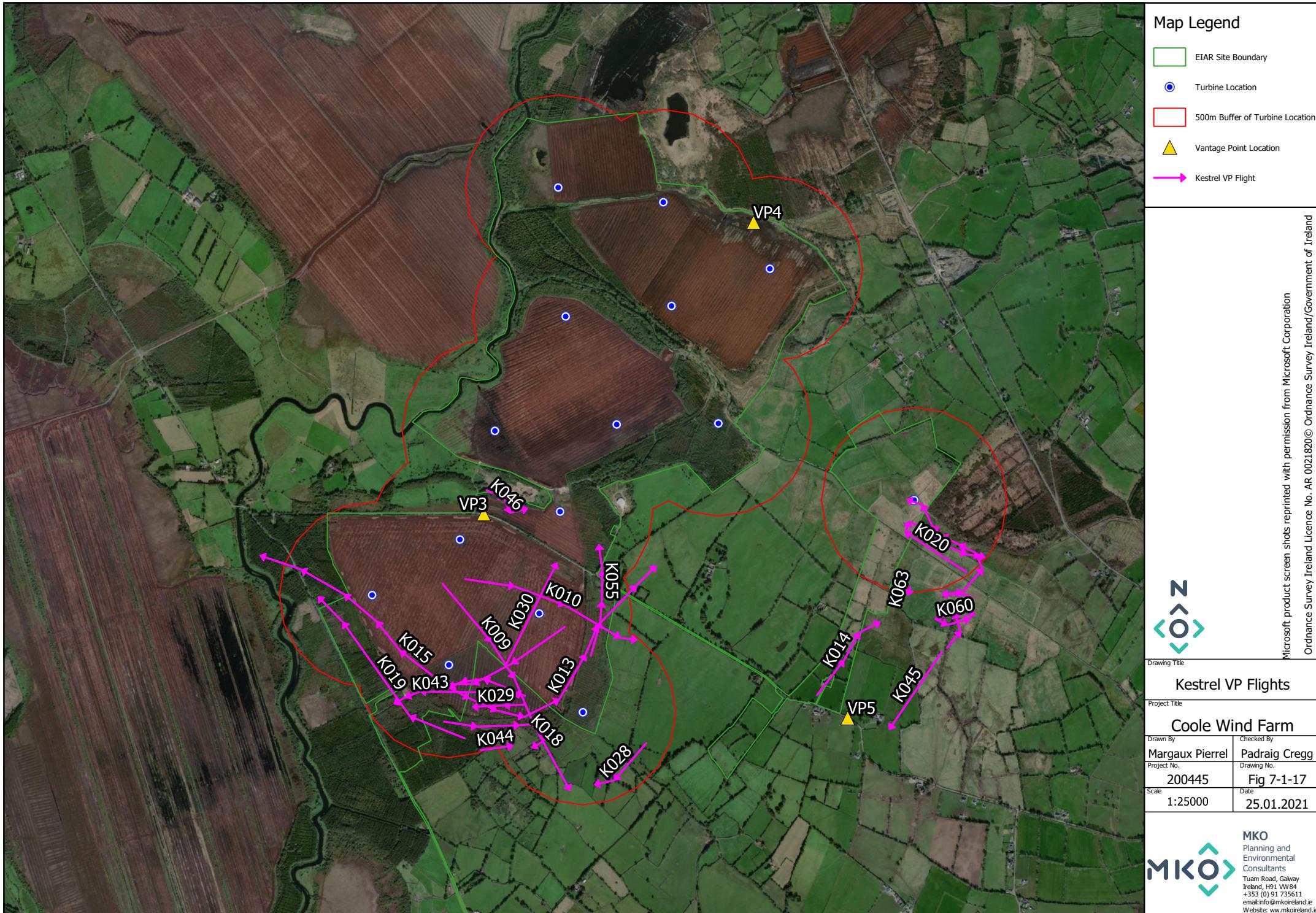
K013	20/06/2018	RVP4	Kestrel	1	10:43	PB4, (Cutover bog) (Mixed) broadleaved woodland Travelling		PM
K014	11/04/2019	BRVP2	Kestrel	1	11:50	Hunting		PM
K015	08/05/2019	RVP1	Kestrel	1	12:16	WD4, (Conifer plantation) Travelling		PM
K016	04/06/2019	RVP4	Kestrel	1	12:24	PB4, (Cutover bog) Mixed broadleaved/conifer woodland		PM
K017	13/06/2019	RVP2	Kestrel	1	11:44	Hunting		PM

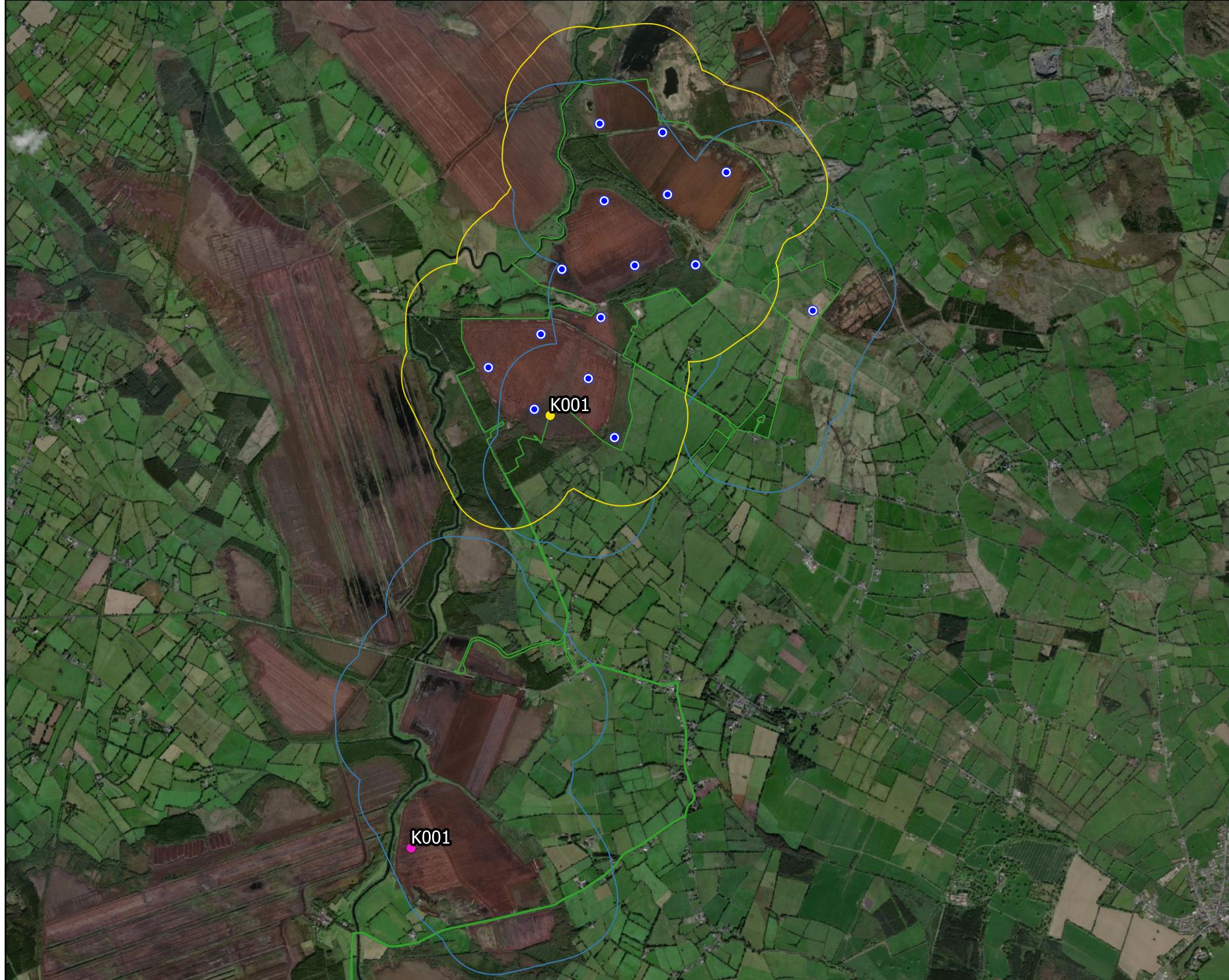
Table 1-69 Kestrel Winter Transect Survey Data

Winter Transect Surveys							
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Comments	Surveyor
K001	15/12/2015		Common Kestrel	1			PT
K002	24/12/2015		Common Kestrel	1			PT
K003	29/12/2015		Common Kestrel	1			PT
K004	15/01/2016		Common Kestrel	1			PT
K005	11/02/2016		Common Kestrel	1			PT
K006	19/01/2016		Common Kestrel	1			JCY
K001	03/10/2019	09:59:40	Kestrel	1	GA1, (Improved agricultural grassland)	Hunting	PM
K002	27/12/2019	11:28:00	Kestrel	1	PB4, (Cutover bog) WD4, (Conifer plantation)	hunting	ED
K003	27/12/2019	14:50:00	Kestrel	1	PB4, (Cutover bog) WD4, (Conifer plantation)	perched	ED

Table 1-70 Kestrel Incidental Observation Data

Incidental Observations							
Date	Survey Type	Location	Species	Number of Individuals	Notes		Surveyor
13/08/2016	Wildfowl	Kinale	Common Kestrel	1			PT





Map Legend

- EIAR Site Boundary
- 500m Survey Radius (2015/17)
- 500m Survey Radius (2018/20)
- Turbine Location
- Kestrel Observation (2015/17)
- Kestrel Observation (2018/20)

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Drawing Title
Kestrel Breeding Bird Survey Observations

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-3-7
Scale	Date
1:45000	26.01.2021

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Map Legend

- [Green Box] EIAR Site Boundary
- [Blue Circle] Turbine Location
- [Yellow Line] Winter Transect Survey Area (500m) (2015/17)
- [Blue Line] Winter Transect Survey Area (500m) (2018/20)
- [Yellow Arrow] Kestrel Observation (2015/17)
- [Pink Arrow] Kestrel Observation (2018/20)

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Drawing Title
Kestrel Winter Transect Survey Observations

Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-5-14
Scale	Date
1:45000	26.01.2021

Table 1-71 Common Snipe Vantage Point Survey Data

Vantage Point Surveys													
Map Ref.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 PCH (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
SN001	04/12/2018	VP5	Common Snipe	3	09:11:48	52		2	50		GA1, (Improved agricultural grassland)	Travelling; landed in field	PM
SN002	19/02/2019	VP5	Common Snipe	1	14:34:22	17		17	0		GA1, (Improved agricultural grassland)	Travelling	PM
SN003	05/06/2019	VP5	Common Snipe	2	09:04:38	274		0	274		GA1, (Improved agricultural grassland) (Mixed) broadleaved woodland Travelling		PM
SN004	05/06/2019	VP5	Common Snipe	2	09:16:56	263		0	263		GA1, (Improved agricultural grassland) (Mixed) broadleaved woodland Travelling		PM
SN005	05/06/2019	VP5	Common Snipe	2	09:50:44	187		87	100		GA1, (Improved agricultural grassland) (Mixed) broadleaved woodland Travelling		PM

Table 1-72 Common Snipe Breeding Bird Survey Data

Breeding Bird Surveys							
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Comments	Surveyor
SN001	28/04/2016		Common Snipe	1		Flushed from area of sparse Juncus	J.Cy
SN002	10/06/2016		Common Snipe	1		2 flushed together from river (outside quadrat); breeding calls just west of quadrat	J.Cy
SN003	29/05/2016		Common Snipe	1			PT
SN001	23/04/2018		Common Snipe	1			
SN002	23/04/2018		Common Snipe	1			
SN003	24/04/2018		Common Snipe	1			
SN004	25/04/2018		Common Snipe				
SN005	25/05/2018		Common Snipe	1			
SN006	09/05/2018		Common Snipe	1			
SN007	25/05/2018		Common Snipe	1			
SN008	25/05/2018		Common Snipe	1			
SN009	19/06/2018		Common Snipe	1			
SN010	19/06/2018		Common Snipe	1			
SN011	19/06/2018		Common Snipe	1			
SN012	05/04/2019	12:05:47	Common Snipe	3		Flushed	PM

SN013	05/04/2019	12:30:07	Common Snipe	5		Flushed	PM
SN014	29/05/2019	06:23:58	Common Snipe	1		Flushed	PM
SN015	29/05/2019	08:15:04	Common Snipe	1		Drumming	PM
SN016	25/07/2019		snipe	1		Flushed	PM

Table 1-73 Common Snipe Winter Transect Survey Data

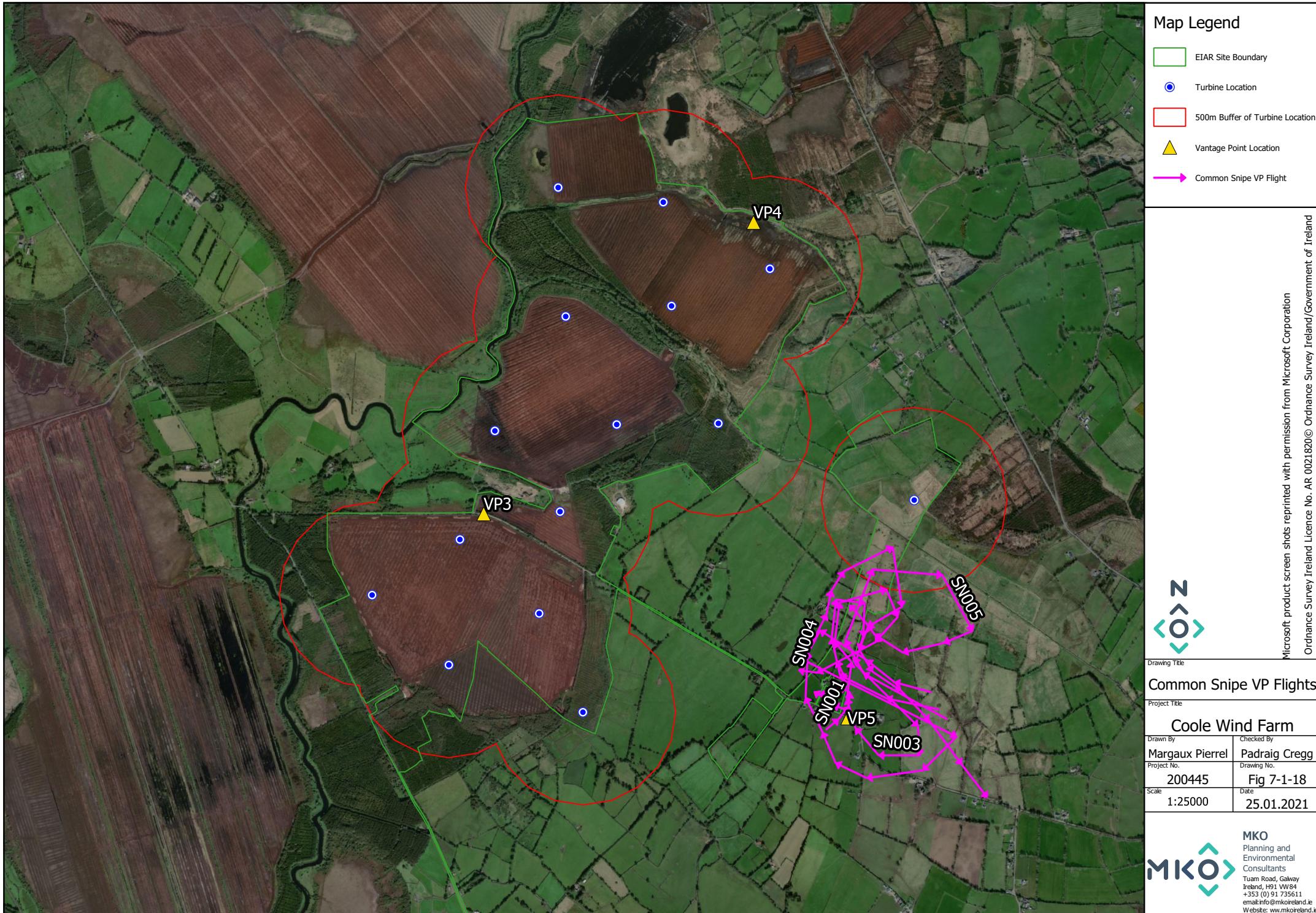
Winter Transect Surveys							
Map Ref.	Survey Date	Time of observation	Species	Number of birds	Habitat and Activity	Comments	Surveyor
SN001	29/12/2015		Common Snipe	4			PT
SN002	15/01/2016		Common Snipe	2			PT
SN003	12/02/2016		Common Snipe	1			PT
SN004	19/01/2016		Common Snipe	1			JCY
SN005	24/02/2016		Common Snipe	1			JCY
SN006	12/03/2016		Common Snipe	2	Cutover bog/ wet grassland/ conifer plantation		SD
SN007	17/12/2016		Common Snipe	7			JCY
SN001	12/12/2018	10:47:51	Common Snipe	2	PB4, (Cutover bog)	Flushed	PM
SN002	12/12/2018	10:48:46	Common Snipe	2	PB4, (Cutover bog)	Flushed	PM
SN003	12/12/2018	11:16:11	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN004	12/12/2018	12:24:25	Common Snipe	2	PB4, (Cutover bog)	Flushed	PM
SN005	12/12/2018	12:46:34	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN006	12/12/2018	12:47:17	Common Snipe	3	PB4, (Cutover bog)	Flushed	PM
SN007	12/12/2018	12:48:04	Common Snipe	4	PB4, (Cutover bog)	Flushed	PM
SN008	12/12/2018	13:26:28	Common Snipe	1	PB4, (Cutover bog)	Call	PM
SN009	15/01/2019	11:59:25	Common Snipe	1	PB4, (Cutover bog)	flushed	PM
SN010	15/01/2019	12:01:06	Common Snipe	6	PB4, (Cutover bog)	flushed	PM
SN011	15/01/2019	12:01:27	Common Snipe	3	PB4, (Cutover bog)	flushed	PM
SN012	15/01/2019	12:27:25	Common Snipe	1	PB4, (Cutover bog)	flushed	PM
SN013	15/01/2019	14:20:01	Common Snipe	1	PB4, (Cutover bog)	flushed	PM
SN014	15/01/2019	14:20:24	Common Snipe	4	PB4, (Cutover bog)	flushed	PM
SN015	15/01/2019	14:20:57	Common Snipe	3	PB4, (Cutover bog)	flushed	PM
SN016	15/01/2019	14:42:03	Common Snipe	1	PB4, (Cutover bog)	flushed	PM
SN017	15/01/2019	14:43:52	Common Snipe	1	PB4, (Cutover bog)	flushed	PM
SN018	21/03/2019	10:41:01	Common Snipe	1	GS4, (Wet grassland)	Flushed	PM
SN019	21/03/2019	10:41:21	Common Snipe	1	GS4, (Wet grassland)	Flushed	PM
SN020	21/03/2019	10:41:38	Common Snipe	1	GS4, (Wet grassland)	Flushed	PM
SN021	21/03/2019	14:17:17	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN022	22/03/2019	10:11:41	Common Snipe	3	PB4, (Cutover bog)	Flushed	PM
SN023	22/03/2019	10:15:05	Common Snipe	12	PB4, (Cutover bog)	Flushed	PM
SN024	22/03/2019	10:28:32	Common Snipe	2	PB4, (Cutover bog)	Flushed	PM
SN025	22/03/2019	10:43:27	Common Snipe	2	PB4, (Cutover bog)	Flushed	PM

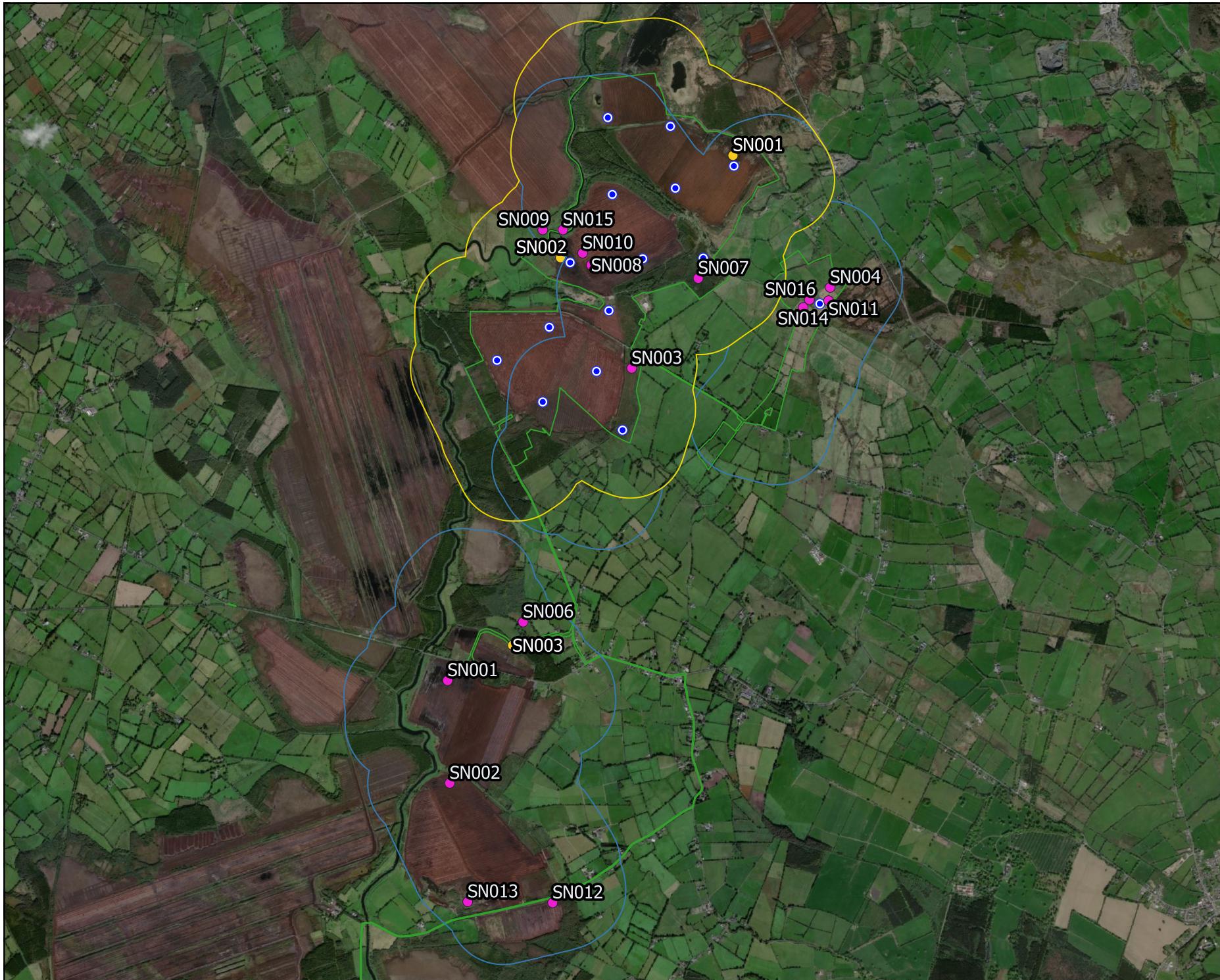
SN026	22/03/2019	10:45:53	Common Snipe	3	PB4, (Cutover bog)	Flushed	PM
SN027	22/03/2019	11:57:38	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN028	22/03/2019	12:34:10	Common Snipe	18	PB4, (Cutover bog)	Flushed	PM
SN029	04/10/2019	13:26:23	snipe	6	PB4, (Cutover bog)	Flushed	PM
SN030	10/10/2019	13:17:31	snipe	3	PB4, (Cutover bog)	Flushed	PM
SN031	10/10/2019	13:38:29	snipe	1	PB4, (Cutover bog)	Flushed	PM
SN032	15/12/2019	10:20:00	Common Snipe	1	PB4, (Cutover bog) WD4, (Conifer plantation) seen in flight		ED
SN033	06/01/2020	09:41:21	Common Snipe	1	GS4, (Wet grassland)	Flushed	PM
SN034	06/01/2020	09:54:48	Common Snipe	1	GS4, (Wet grassland)	Flushed	PM
SN035	06/01/2020	09:57:24	Common Snipe	2	GS4, (Wet grassland)	Flushed	PM
SN036	06/01/2020	11:42:05	Common Snipe	5	PB4, (Cutover bog)	Flushed	PM
SN037	06/01/2020	11:46:39	Common Snipe	2	PB4, (Cutover bog)	Flushed	PM
SN038	06/01/2020	12:16:06	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN039	06/01/2020	13:57:46	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN040	07/01/2020	10:51:38	Common Snipe	3	PB4, (Cutover bog)	Flushed	PM
SN041	07/01/2020	10:54:02	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN042	07/01/2020	10:56:29	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN043	07/01/2020	11:44:43	Common Snipe	4	PB4, (Cutover bog)	Flushed	PM
SN044	07/01/2020	12:11:15	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN045	07/01/2020	12:38:49	Common Snipe	2	PB4, (Cutover bog) WD4, (Conifer plantation)	Flushed	PM
SN046	07/01/2020	13:06:28	Common Snipe	1	WD4, (Conifer plantation)	Flushed	PM
SN047	07/01/2020	13:28:56	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN048	07/01/2020	13:35:22	Common Snipe	18	PB4, (Cutover bog)	Flushed	PM
SN049	07/01/2020	13:47:48	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN050	07/01/2020	13:50:22	Common Snipe	1	PB4, (Cutover bog)	Flushed	PM
SN051	07/01/2020	13:52:45	Common Snipe	2	PB4, (Cutover bog)	Flushed	PM
	19/03/2020		Snipe	2	PB4, (Cutover bog) Flushed from wet area		DM
	20/03/2020		Snipe	26	PB4, (Cutover bog) Flushed from wet area		DM

Table 1-74 Common Snipe Incidental Observation Data

Incidental Observations						Surveyor
Date	Location Ref.	Species	Number of birds	Notes on habitat and activity		
16/01/2016	Derravaragh	Common Snipe	5			PT JCY
05/03/2016	Derravaragh	Common Snipe	1			PT JCY
15/09/2016	Derravaragh	Common Snipe	1			PT JCY
17/10/2016	Garriskil	Common Snipe	1			PT JC
15/11/2016	Garriskil	Common Snipe	3			PT JC
17/12/2016	Derravaragh	Common Snipe	1			PT
16/01/2017	Lough Bane	Common Snipe	1			JCY
16/02/2017	Lough Bane	Common Snipe	2			JCY
12/03/2017	Lough Bane	Common Snipe	1			JCY

05/10/2018	Lough Sheelin	Common Snipe	1	PB1, (Raised bog)	PM
06/11/2018	Lough Sheelin	Common Snipe	3	PB1, (Raised bog)	PM
20/11/2018	Lough Sheelin	Common Snipe	4	PB1, (Raised bog)	PM
06/12/2018	Lough Sheelin	Common Snipe	2	PB1, (Raised bog)	PM
20/12/2018	Lough Bane	Common Snipe	1		PM
10/01/2019	Lough Sheelin	Common Snipe	1		PM
26/02/2019	Lough Bane	snipe	3		PM
24/04/2019	Lough Sheelin	Common Snipe	1		PM
23/10/2019	Lough Bane	Common Snipe	1		PM
07/11/2019	Lough Bane	Common Snipe	1		PM
03/01/2020	Lough Sheelin	Common Snipe	3		PM
21/02/2020	Lough Bane	Common Snipe	1		PM
25/03/2020	Lough Bane	Snipe	2	PB4, (Cutover bog) FL , (Lakes and ponds) Flushed	DM





Map Legend

- EIAR Site Boundary
- 500m Survey Radius (2015/17)
- 500m Survey Radius (2018/20)
- Turbine Location
- Common Snipe Observation (2015/17)
- Common Snipe Observation (2018/20)

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Drawing Title
Common Snipe Breeding Bird Survey Observations
Project Title

Coole Wind Farm

Drawn By	Checked By
Margaux Pierrel	Padraig Cregg
Project No.	Drawing No.
200445	Fig 7-3-8
Scale	Date
1:45000	26.01.2021

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