

# Ardderroo Windfarm EIAR Co. Galway

## Birds Technical Appendix 7-4



Planning & Environmental Consultants

## Appendix 7-4 – Survey Data

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**Table 1: Whooper Swan Survey Data**

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
WS101	26/10/2016	6A	Whooper Swan	4	16:29:00	120	5	10	105		PB4, (Cutover bog) WD4, (Conifer plantation) HH3, (Wet heath) In flight		HH
WS102	11/11/2016	6A	Whooper Swan	2	08:42	78		78			PB, (Bogs) Flew west over bog, calling, then veered north out of view, behind buildings.		JOS
WS103	11/11/2016	6A	Whooper Swan	6	09:38:00	33	33				WD4, (Conifer plantation) Flew low over conifers and bog, SW, out of view behind conifers.		JOS

**Table 1: Whooper Swan Survey Data**

Vantage Point Surveys Non-Flight Data								
Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Notes on habitat and activity	Comments	Surveyor
19/03/2018	4	Whooper Swan	-					JC



**Table 1: Whooper Swan Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-Breeding	02/12/2016	Unnamed Lough (Letterfir bog)	13	16:24:00	Whooper Swan	4	Feeding	2 Adults, 2 Juveniles, feeding.	108645	228473	JOS
Non-Breeding	05/01/2017	Unnamed Lough (Letterfir bog)	13	12:35:00	Whooper Swan	2			108645	228473	JOS
Non-Breeding	02/12/2016	Lough Bealanambrack	14	15:46:00	Whooper Swan	2	Feeding	Feeding. Adults.	109140	231150	JOS
Non-Breeding	14/12/2016	Loughaunayella	15	15:40:00	Whooper Swan	1	Feeding	Feeding	110034	230814	JOS
Non-breeding	16/11/2017	Loughanillaunmore	17		Whooper Swan	1	Flying	Flies Sw over lake, band 1			JOS
Non-breeding	17/11/2017	Loughanillaunmore	17		Whooper Swan	2	Flying over	Fly west over lake. Band 2.			JOS
Non-Breeding	02/12/2016	Lough Natawneighter	18	14:36:00	Whooper Swan	1	Feeding	Feeding.	109789	227847	JOS
Non-Breeding	09/02/2017	Lough Natawneighter	18	13:47:00	Whooper Swan	2	Feeding	Feeding on lough.	109789	227847	JOS
Non-breeding	03/11/2017	Unnamed Lough	19		Whooper Swan	6	Feeding	On water			JOS
Non-Breeding	03/11/2016	Boliska Lough	23	13:15:00	Whooper Swan	2	Feeding	Two adults feeding on lough.	112365	226668	JOS
Non-Breeding	14/12/2016	Lough Poll	25	13:19:00	Whooper Swan	4	Feeding	Feeding.	113583	229078	JOS
Non-Breeding	05/01/2017	Lough Poll	25	14:31:00	Whooper Swan	4		2 Juvenile.	113583	229078	JOS
Non-Breeding	16/01/2017	Lough Poll	25	13:08:00	Whooper Swan	4	Feeding	Feeding	113583	229078	JOS
Non-breeding	07/03/2018	Lough Poll	25		Whooper Swan	2	Feeding	On Water			PM
Non-Breeding	14/12/2016	Lochain an Ghleanna Mhóir	26	13:43:00	Whooper Swan	2		Adults.	112885	227361	JOS
Non-Breeding	08/02/2017	Knocka Lough	29	12:37:00	Whooper Swan	2	Feeding	Feeding	116000	22800	JOS

**Table 1: Whooper Swan Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-breeding	16/11/2017	Knocka Lough	29		Whooper Swan	2	Roosting				JOS
Non-Breeding	14/12/2016	Lough Sliabh an Aonaigh	32	11:51:00	Whooper Swan	3	Feeding	Adult. Feeding.	115687	230404	JOS
Non-breeding	02/11/2017	Lough Sliabh an Aonaigh	32		Whooper Swan	1	Feeding	On water			JOS
Non-Breeding	03/11/2016	Lough Thulaigh na nUan	37	09:59:00	Whooper Swan	7		Two adults, five juveniles. (Eight noted on lough on 02/11)	113620	231670	JOS
Non-Breeding	16/11/2016	Lough Thulaigh na nUan	37	16:37:00	Whooper Swan	1	Feeding	Feeding.	113620	231670	JOS
Non-Breeding	16/01/2017	Lough Thulaigh na nUan	37	14:09:00	Whooper Swan	2	Feeding	Feeding	113620	231670	JOS
Non-Breeding	05/01/2017	Lough Atavamore	43	14:00:00	Whooper Swan	5	Feeding	Feeding on lake	118300	232424	JOS
Non-Breeding	08/02/2017	Lough Atavamore	43	15:19:00	Whooper Swan	3	Feeding	Feeding	118300	232424	JOS
Non-Breeding	08/02/2017	Lough Aderreen	45	15:00:00	Whooper Swan	3	Feeding	Feeding	117370	223220	JOS
Non-Breeding	17/01/2017	Lough Tawneybeg	46	09:31:00	Whooper Swan	4			1117140	232590	JOS
Non-breeding	16/11/2017	Lough Tawneybeg	46		Whooper Swan	2	Roosting				JOS
Non-Breeding	05/12/2016	Ross Lake	49	15:03:00	Whooper Swan	1	Feeding	Feeding	119430	236490	JOS
Non-Breeding	05/12/2016	Ross Lake	49	15:20:00	Whooper Swan	2	Feeding	Feeding	119430	236490	JOS
Non-Breeding	15/12/2016	Ross Lake	49	13:33:00	Whooper Swan	5	Feeding	Feeding	119430	236490	JOS
Non-Breeding	05/01/2017	Ross Lake	49	11:39:00	Whooper Swan	4	Feeding	Feeding on lake	119430	236490	JOS

**Table 1: Whooper Swan Survey Data**






Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-Breeding	17/01/2017	Ross Lake	49	12:34:00	Whooper Swan	4	Feeding	Feeding	119430	236490	JOS
Non-Breeding	09/02/2017	Ross Lake	49	10:38:00	Whooper Swan	2	Feeding	Feeding in reedbed.	119430	236490	JOS
Non-breeding	17/11/2017	Ross Lake	49		Whooper Swan	1	Feeding				JOS
Both	23/03/2017	Knockaffrin Lough	55	10:45:00	whooper swan	2	Feeding	feeding on lake			JOS
Non-Breeding	14/12/2016	Carowndulla Lough	56	11:30:00	Whooper Swan	2	Feeding	Adult, pair, feeding.	114514	238728	JOS
Non-Breeding	03/11/2016	Buffy Lough	57	16:25:00	Whooper Swan	8	Feeding	All adults feeding on lough.	113357	238832	JOS
Non-Breeding	05/12/2016	Buffy Lough	57	15:52:00	Whooper Swan	6	Feeding	1 Adult, 5 Juveniles, feeding.	113357	238832	JOS
Breeding	04/04/2017	Buffy Lough	57		Whooper Swan	1	Roosting	Lake			JOS
Non-Breeding	03/11/2016	Seecon Lough	71	15:48:00	Whooper Swan	3	Feeding	Three adults feeding on lough.	108740	235230	JOS
Non-Breeding	16/11/2016	Seecon Lough	71	10:20:00	Whooper Swan	5	Feeding	4 adults, 1 juvenile, feeding on lough.	108740	235230	JOS
Non-breeding	06/03/2018	Seecon Lough	71		Whooper Swan	5	Feeding	On Water			PM

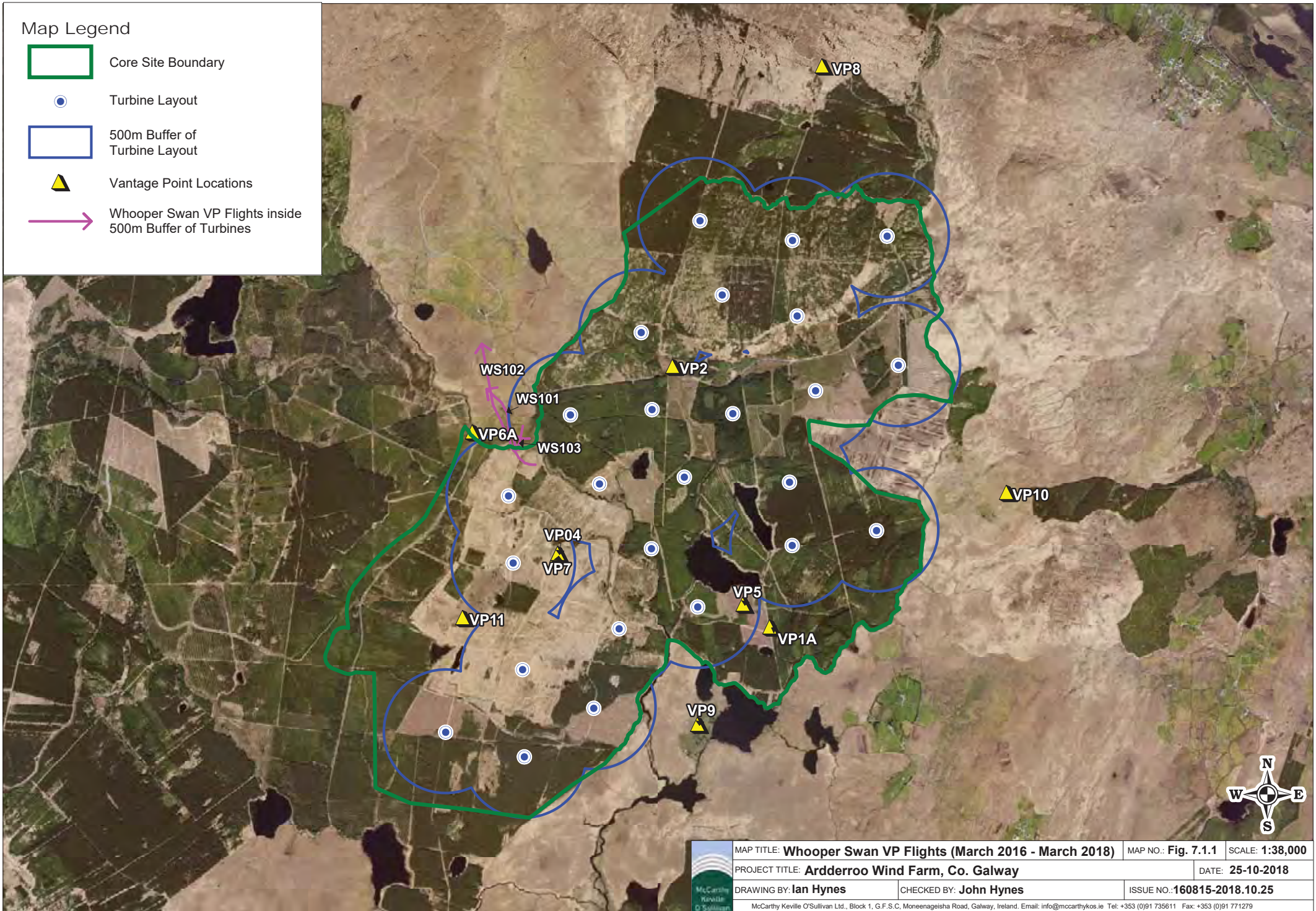
**Table 1: Whooper Swan Survey Data**


Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
03/01/2017	White Tailed Eagle Survey	WEVP5	Whooper swan	8	Roosting and on water did not fly	AOD
30/11/2017	Hen Harrier Roost Survey	HHVP6	Whooper Swan	2	Fly west over lake calling band 3.	JOS



Map Legend

-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Whooper Swan VP Flights inside 500m Buffer of Turbines








	MAP TITLE: <b>Whooper Swan VP Flights (March 2016 - March 2018)</b>	MAP NO.: <b>Fig. 7.1.1</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Arderroo Wind Farm, Co. Galway</b>		DATE: <b>25-10-2018</b>
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.25</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		

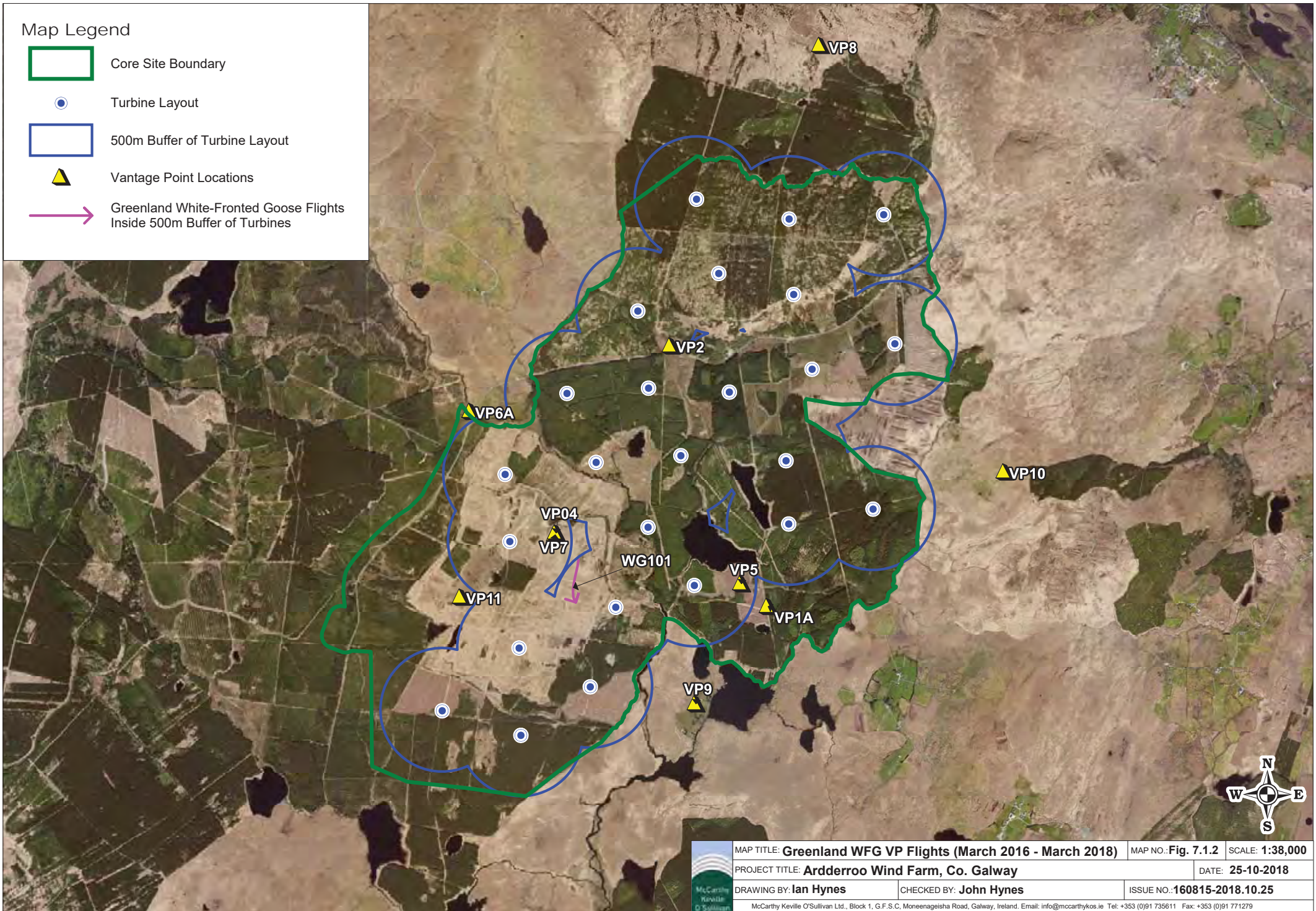
**Table 2: Greenland White Fronted Geese Survey Data**


Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
WG101	18/10/2016	7	Greenland White-fronted Goose	41	18:02:00	30				30	WD4, (Conifer plantation) PB4, (Cutover bog) HH3, (Wet heath) In flight		HH



Map Legend

-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Greenland White-Fronted Goose Flights Inside 500m Buffer of Turbines



	MAP TITLE: <b>Greenland WFG VP Flights (March 2016 - March 2018)</b>	MAP NO.: <b>Fig. 7.1.2</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Arderroo Wind Farm, Co. Galway</b>	DATE: <b>25-10-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.25</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		

**Table 3: Golden Plover Survey Data**

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
GP101	02/02/2017	10	Golden Plover	7	12:12:00	30			30		PB2, (Upland blanket bog) Travelling	Passing flock	AOD
GP102	06/10/2017	9	Golden Plover	2	07:15:00	21			21		GS4, (Wet grassland) FL1, (Dystrophic lakes) Travelling, calling		Sean Ronayne
GP103	06/01/2018	10	Golden Plover	20	13:17:00	15			15		PB2, (Upland blanket bog) Flock observed to the south of VP10		S. Meehan

**Table 3: Golden Plover Survey Data**

Vantage Point Surveys Non-flight Data							
Date	VP	Species	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
08/12/2016	7	Golden Plover	1		WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) In flight	Heard only	HH
21/01/2018	9	Golden Plover	-	16:55:00	PB3, (Lowland blanket bog)	Heard only Off site	CP



**Table 3: Golden Plover Survey Data**

Breeding Walkover									
Map Ref.	Survey Date	Section	VP/Trans /Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
GP001	20/05/2016	S section			Golden Plover	1	PB, (Bogs), Alarm calls	Agitated behaviour or anxiety calls ; Probable breeding	PC
GP002	27/04/2017	Section 3		14:13:00	Golden Plover	1	Bog	Agitated behaviour or anxiety calls. Probable breeder.	JOS

**Table 3: Golden Plover Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Both-Overlap	23/03/2016	Tullynasheoy	4		Golden Plover	1	Calling	Suitable breeding habitat on blanket bog.	105960	229830	PC
Both-Overlap	23/03/2016	Tullynasheoy	4		Golden Plover	1	Flushed	Suitable breeding habitat on blanket bog.	105960	229830	PC
Both-Overlap	23/03/2016	Tullynasheoy	4		Golden Plover	2		Pair together in suitable breeding habitat	105960	229830	PC
Breeding	21/04/2016	Tullynasheoy	4		Golden Plover	2	Display	Suitable breeding habitat	105960	229830	PC
Breeding	21/04/2016	Tullynasheoy	4		Golden Plover	3	Alarm calling	Suitable breeding habitat	105960	229830	PC
Breeding	04/08/2016	Lough More	6	08:30:00	Golden Plover	1		Calling. No visual.	105588	230447	JOS
Breeding	04/08/2016	Lough Bealacoan	7	09:27:00	Golden Plover	1	Calling	Heard. No Visual			JOS

**Table 3: Golden Plover Survey Data**






Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-breeding	30/01/2018	Unnamed Lough (Letterfir bog)	11		Golden Plover	9	Roosting	PB2, (Upland blanket bog)			PM
Non-breeding	07/02/2018	Unnamed Lough (Letterfir bog)	11		Golden Plover	1	Feeding	Terrestrial			PM
Non-breeding	21/03/2018	Unnamed Lough (Letterfir bog)	11		Golden Plover	3	Feeding	Terrestrial			PM
Non-breeding	30/01/2018	Unnamed Lough (Letterfir bog)	12		Golden Plover	15	Roosting	PB2, (Upland blanket bog)			PM
Non-breeding	07/02/2018	Unnamed Lough (Letterfir bog)	12		Golden Plover	5	Feeding	Terrestrial			PM
Non-Breeding	16/11/2016	Unnamed Lough (Letterfir bog)	13	11:15:00	Golden Plover	3		Flushed, fly west, calling, band 1.	108567	228784	JOS
Non-Breeding	09/02/2017	Unnamed Lough (Letterfir bog)	13	13:33:00	Golden Plover	4		Fly south over bog, band 2.	108567	228784	JOS
Both	08/03/2017	Unnamed Lough (Letterfir bog)	13	14:52:00	Golden Plover	2		M+ F, breeding pair, alarm calling.			JOS
Both	08/03/2017	Unnamed Lough (Letterfir bog)	13	16:04:00	Golden Plover	12		Fly east, band 3, over bog calling.			JOS
Both	22/03/2017	Unnamed Lough (Letterfir bog)	13	12:00:00	Golden Plover	1	Roosting	Calling, perched			JOS
Breeding	19/04/2017	Unnamed Lough (Letterfir bog)	13		Golden Plover	1		Alarm call; no visual			JOS
Breeding	19/04/2017	Unnamed Lough (Letterfir bog)	13		Golden Plover	1		Alarm call; no visual			JOS
Breeding	19/04/2017	Unnamed Lough (Letterfir bog)	13		Golden Plover	1		Alarm call; no visual			JOS

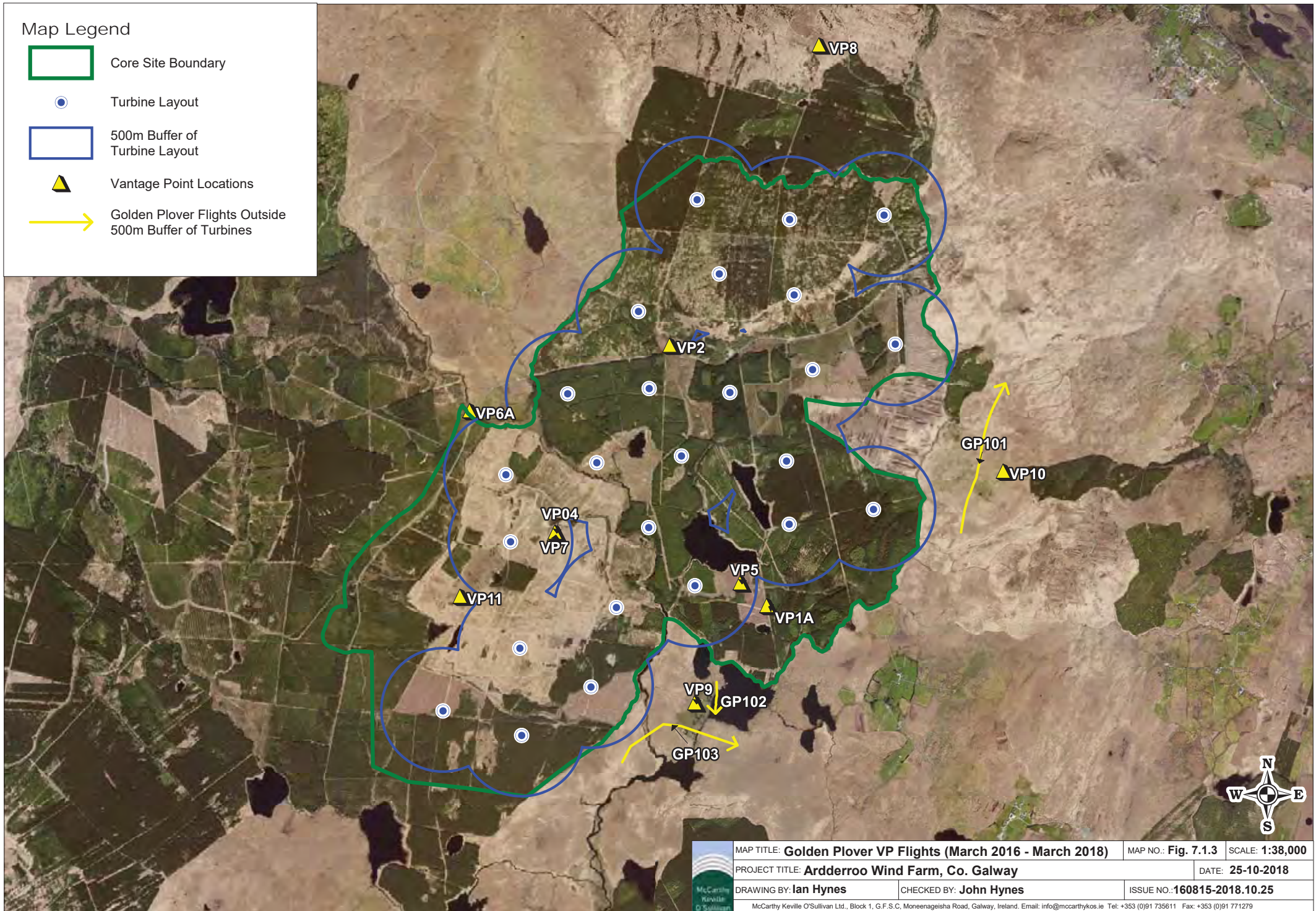
**Table 3: Golden Plover Survey Data**


Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
03/03/2017	White Tailed Eagle Survey	WTE Survey (VP2)	Golden plover	6	In flight low over bog.	JOS
03/03/2017	White Tailed Eagle Survey	WTE Survey (VP2)	Golden plover	15	Band 1 95s, fly over bog, then lift to band 2, 5s, over lake, descend to band 1, 71s, then land on bog by lake shore.	JOS
27/03/2017	White Tailed Eagle Survey	WTE Survey (VP2)	Golden plover	1	Calling, no visual.	JOS
27/03/2017	White Tailed Eagle Survey	WTE Survey (VP2)	Golden plover	1	Flies over bog pond. Calling. Lands.	JOS
27/03/2017	White Tailed Eagle Survey	WTE Survey (VP2)	Golden plover	1	Calling, no visual.	JOS
17/07/2017	Breeding Raptor Survey	Raptor section 1	Golden Plover	1	PB, (Bogs) Calling no visual.	JOS
17/07/2017	Breeding Raptor Survey	Raptor section 1	Golden Plover	2	PB, (Bogs) Calling east of vp. No visual .	JOS
17/07/2017	Breeding Raptor Survey	Raptor section 1	Golden Plover	1	PB, (Bogs) Calling from bog east of vp, no visual.	JOS
01/12/2017	Hen Harrier Roost/WTE Survey	HHVP1	Golden Plover	3	Fly north over vp. Band 1, 4s.	JOS



### Map Legend


-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Golden Plover Flights Outside 500m Buffer of Turbines




	MAP TITLE: <b>Golden Plover VP Flights (March 2016 - March 2018)</b>	MAP NO.: <b>Fig. 7.1.3</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Arderroo Wind Farm, Co. Galway</b>	DATE: <b>25-10-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.25</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthynos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		

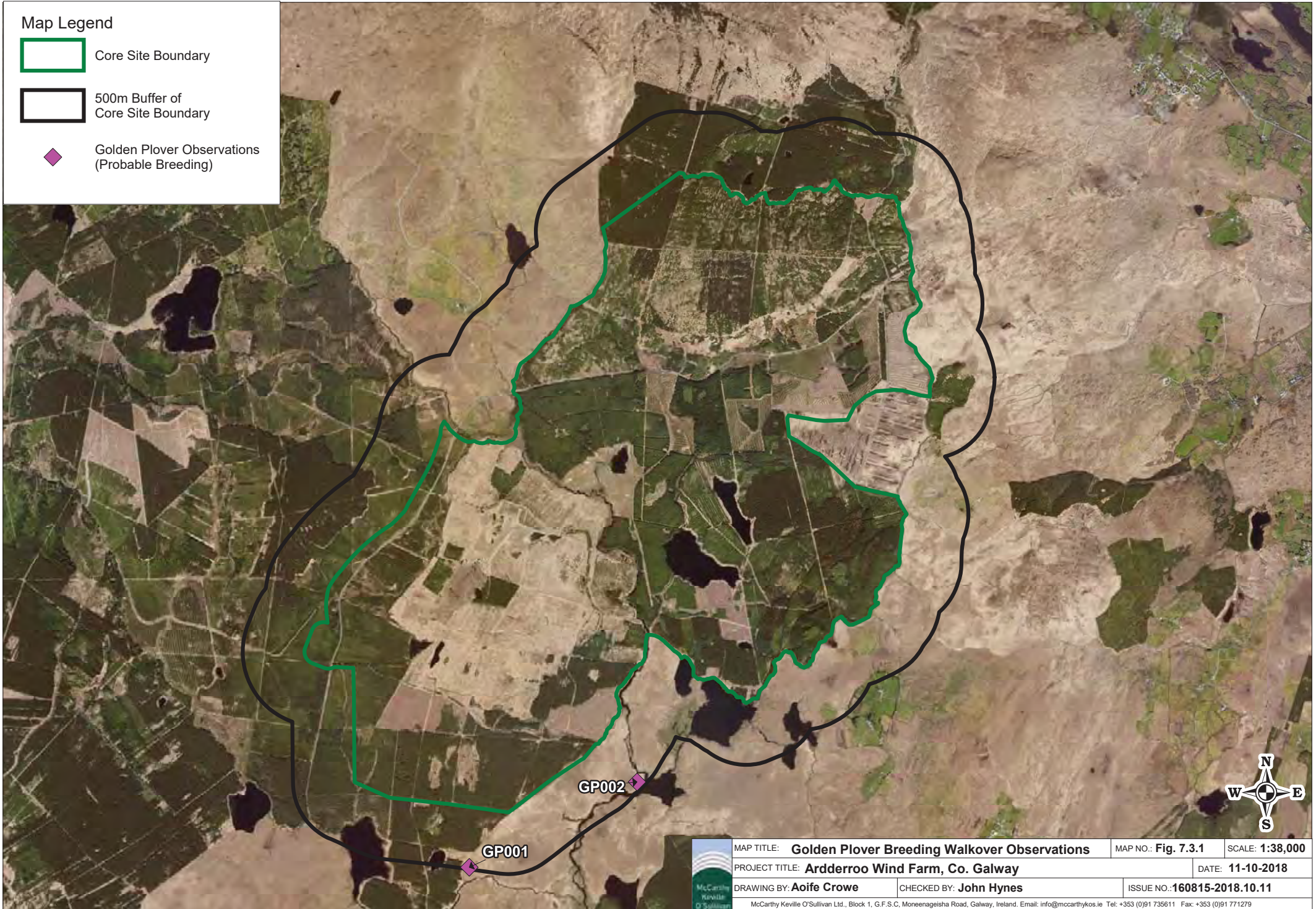


Map Legend

 Core Site Boundary

 500m Buffer of Core Site Boundary

 Golden Plover Observations (Probable Breeding)



**Table 4: White-tailed Eagle Survey Data**

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
WE101	21/04/2016	4	White-tailed Eagle	1	14:02:00	45			45		Conifer plantation Mobbed by rook. 40-50m high, commuting W to E over bog by conifers in easy flight. Continues east over plantation out of view.		SD
WE103	24/05/2016	5	White-tailed Eagle	1	16:49:00	140		20	100		Lakes and ponds/Conifer plantation Circling over Lough Naweelan. Mobbed by a heron. Flew off to the south east		SM
WE104	30/05/2016	6A	White-tailed Eagle	1	08:31:00	60			60		Conifer plantation/Freshwater Sea Eagle observed in far distance (approx 1.5km from vantage point). Towards the south east.		SM
WE105	27/01/2018	11	White-tailed Eagle	1	13:02:00	384		95	289		PB3, (Lowland blanket bog) WD4, (Conifer plantation) Immature, circling (mobbed by RN).	F/glide.	CP
WE106	26/03/2018	11	White-tailed Eagle	1	18:09:00	15		5	10		PB, (Bogs) WD4, (Conifer plantation) FW, (Watercourses) Flying, prob hunting	Flew over to lake. I went over to lake to find it but no signs.	JC

**Table 4: White-tailed Eagle Survey Data**

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
WE102	18/05/2016	8	White-tailed Eagle	1	17:19:00	300			200	100	Lowland blanket bog/Conifer plantation Bird observed soaring at approx 150 metres along northern edge of the site. Mobbed by numerous corvids. Flew off to the west.		SM

**Table 4: White-tailed Eagle Survey Data**

White-tailed Eagle Surveys								
Map Reference No.	Date	VP	Time of observation	Species	No. of birds	Habitat and Activity	Comments	Surveyor
WE001	31/05/2016	WEVP2	12:52:00	White-tailed Eagle	1	PB, (Bogs) Fly	Soaring over Bog and Lake complex along forestry edge	PC
WE005	08/03/2017	WEVP1	12:20:00	White-tailed Eagle	2	WD4, (Conifer plantation) PB2, (Upland blanket bog) Mixed broadleaved/conifer woodland Courtship display	Male and female adult plumage both tagged. Yellow on left white on right on both birds but difficult to confirm. Talon grasping, vocalising and flying low then high. Sheep below scared into flock suggesting not used to their presence	AOD
WE006	08/03/2017	WEVP1	13:33:00	White-tailed Eagle	1	WD4, (Conifer plantation) PB2, (Upland blanket bog) Soaring	Individual soaring alone being mobbed by lone raven. Possible juvenile with adult pair but no sighting of three birds at same time	AOD
WE007	08/03/2017	WEVP1	13:46:00	White-tailed Eagle	2	WD4, (Conifer plantation) PB2, (Upland blanket bog) Mixed broadleaved/conifer woodland Courtship display	Adult pair flying close together	AOD
WE008	08/03/2017	WEVP1	14:35:00	White-tailed Eagle	2		Soaring individuals towards turbines	AOD



White-tailed Eagle Surveys								
Map Reference No.	Date	VP	Time of observation	Species	No. of birds	Habitat and Activity	Comments	Surveyor
WE002	21/03/2017	WEVP1	14:28:00	White-tailed Eagle	1	Juvenile. Flies east over vp, calling. Band 2.		JOS
WE003	27/03/2017	WEVP2	00:00:00	White-tailed Eagle	1	Juvenile. West of vp, soaring over conifers and lake, band 3, flies east, perches on bog for 10s, lifts and flies NW out of view behind hill.		JOS
WE004	27/03/2017	WEVP2	00:00:00	White-tailed Eagle	1	Juvenile. Mobbed by raven. Band 2 15s, ascends to band 3 soaring over conifers E of vp, drops down into conifer canopy, 5s band 2.		JOS

Table 4: White-tailed Eagle Survey Data







Wetland and Waterbird Records											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-breeding	08/02/2018	Boliska Lough	23		White-tailed Eagle	1		Circling above lake			PM

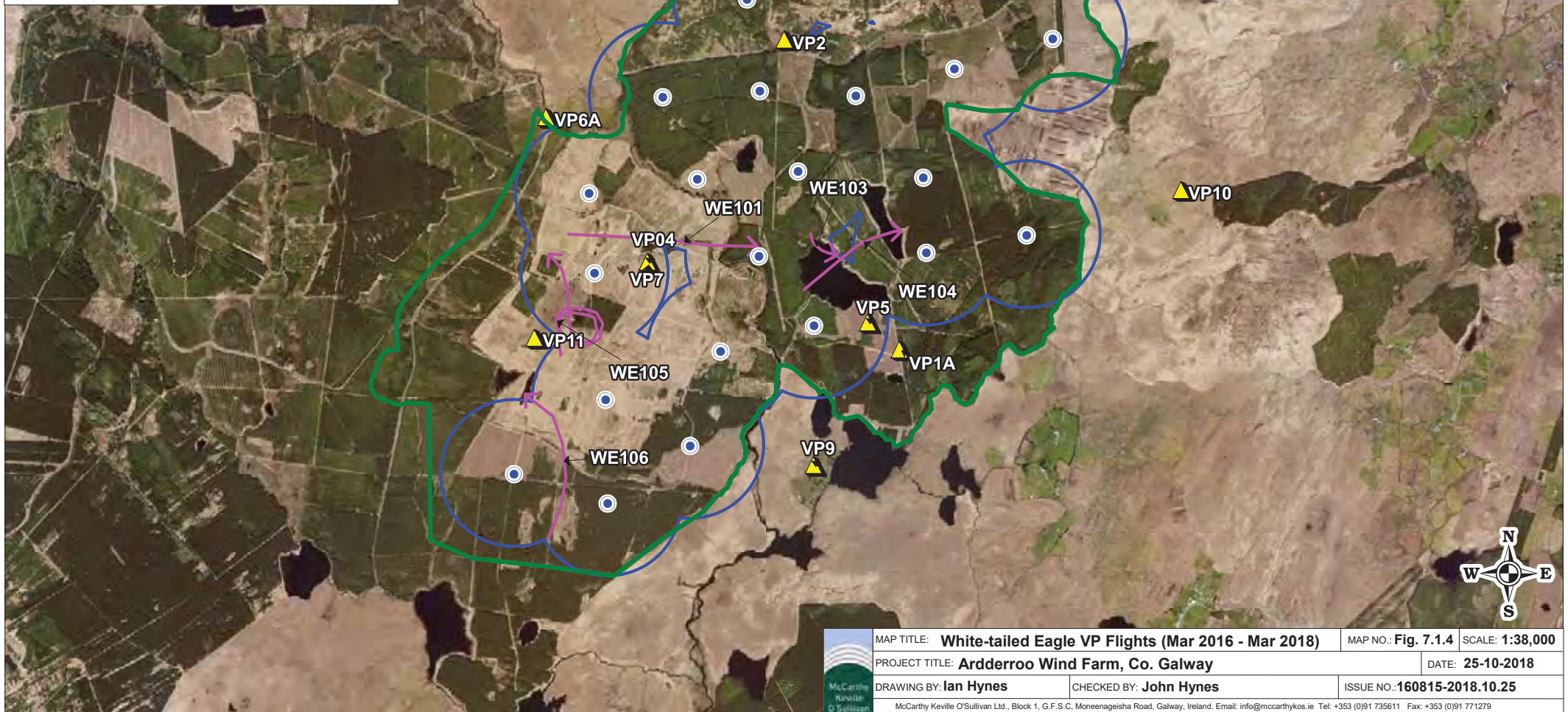
Table 4: White-tailed Eagle Survey Data


Incidental Records										
Map Reference No.	Date	Survey Type	Location	Time of observation	BTO Code	Species Name	No. of birds	Habitat and Activity	Comments	Surveyor
WE001	09/02/2018	Hen Harrier Roost	HHVP01	16:43	WE	White-tailed Eagle	1	PB2, (Upland blanket bog) WD4, (Conifer plantation), Travelling		PM



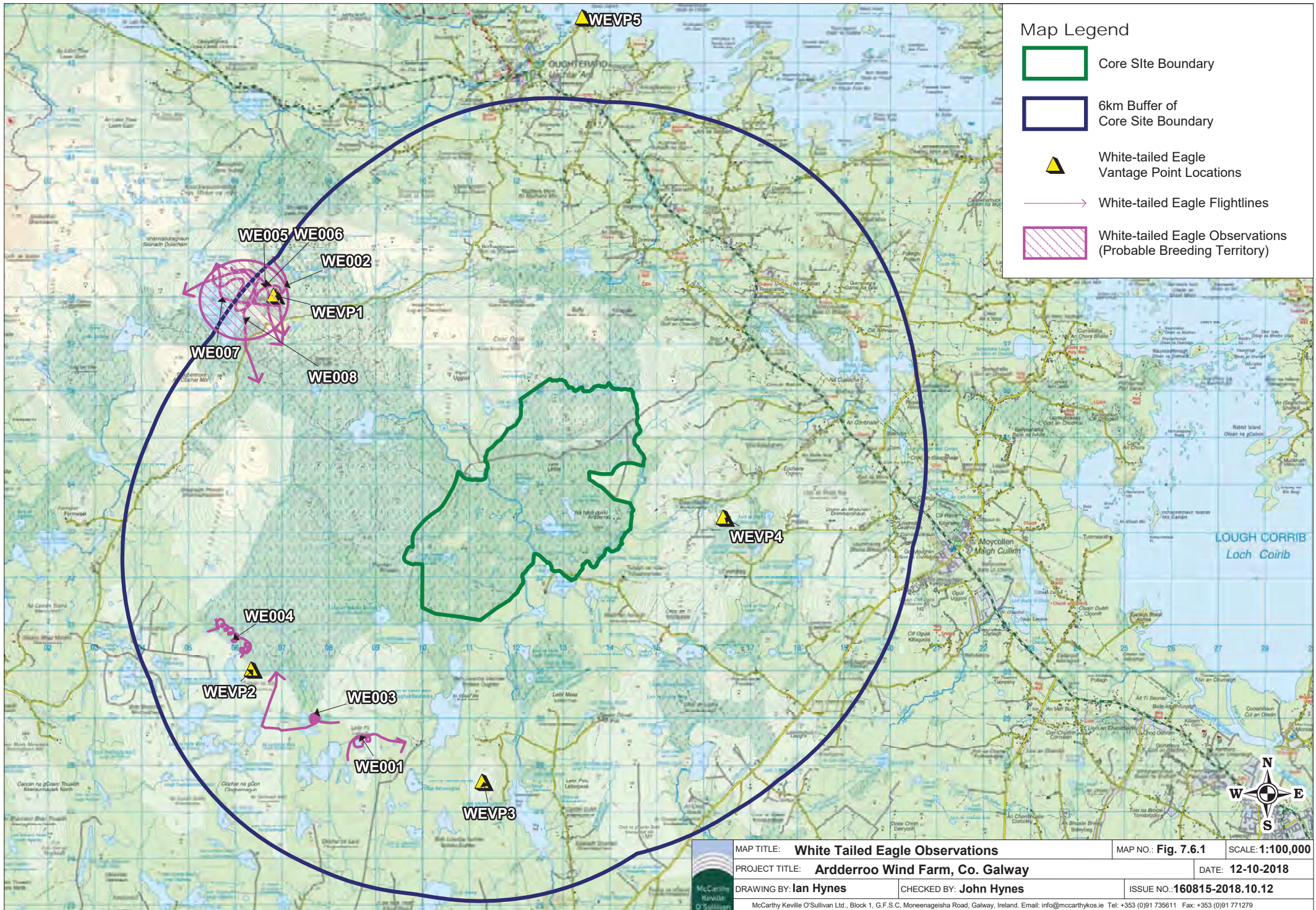
### Map Legend

-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  White-tailed Eagle Flights Inside 500m Buffer of Turbines
-  White-tailed Eagle Flights Outside 500m Buffer of Turbines



	MAP TITLE: <b>White-tailed Eagle VP Flights (Mar 2016 - Mar 2018)</b>	MAP NO.: <b>Fig. 7.1.4</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, Co. Galway</b>	DATE: <b>25-10-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.25</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		








### Map Legend

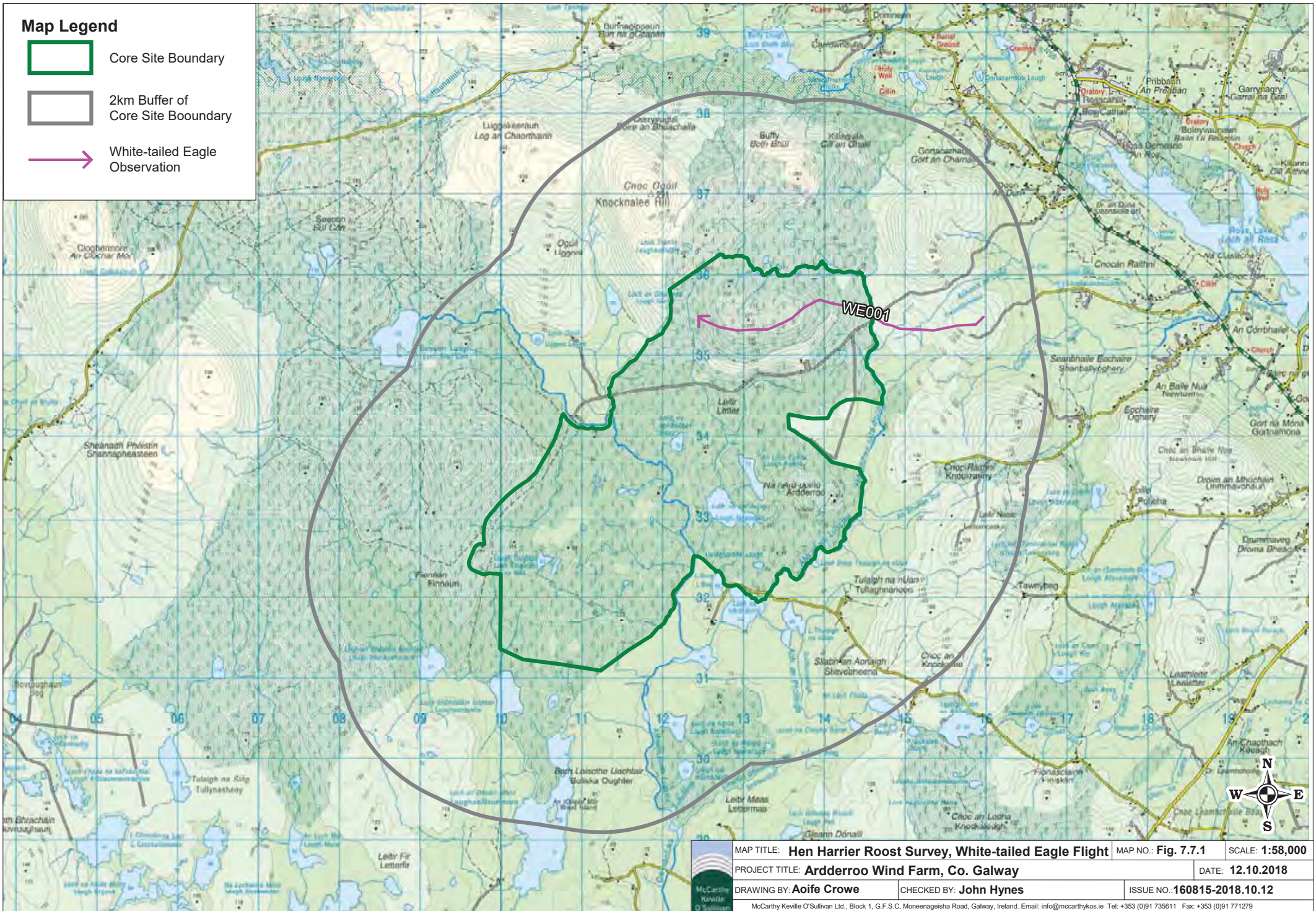
- Core Site Boundary
- 6km Buffer of Core Site Boundary
- ▲ White-tailed Eagle Vantage Point Locations
- White-tailed Eagle Flightlines
- White-tailed Eagle Observations (Probable Breeding Territory)

<b>MAP TITLE:</b> White Tailed Eagle Observations	<b>MAP NO.:</b> Fig. 7.6.1	<b>SCALE:</b> 1:100,000
<b>PROJECT TITLE:</b> Ardderroo Wind Farm, Co. Galway	<b>DATE:</b> 12-10-2018	
<b>DRAWING BY:</b> Ian Hynes	<b>CHECKED BY:</b> John Hynes	<b>ISSUE NO.:</b> 160815-2018.10.12



**Map Legend**

-  Core Site Boundary
-  2km Buffer of Core Site Boundary
-  White-tailed Eagle Observation



MAP TITLE: <b>Hen Harrier Roost Survey, White-tailed Eagle Flight</b>		MAP NO.: <b>Fig. 7.7.1</b>	SCALE: <b>1:58,000</b>
PROJECT TITLE: <b>Arderroo Wind Farm, Co. Galway</b>			DATE: <b>12.10.2018</b>
DRAWING BY: <b>Aoife Crowe</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.12</b>	
<small>McCarthy Keville O'Sullivan                  McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>			



**Table 5: Little Egret Survey Data**

Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
30/08/2016	WTE Survey	WEVP5	Little Egret			SM

**Table 6: Common Gull Survey Data**

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CM101	23/06/2016	1a	Common Gull	2	09:45:00	35	0	0	35	0	WD4, (Conifer plantation) FL (Lakes and Ponds) Common gulls occur on the lakes to the south of the VP, outside of the forest. Circling overhead.		SM
CM103	29/09/2016	5	Common Gull	2	14:09:00	15	5	5	5	0	Coniferous forest and lake 2 common gulls landed on the lake		SM
CM106	19/04/2017	10	Common Gull	2	07:29:00	68			68			Flew East. Disappeared over Conifers.	DMCG
CM105	16/08/2017	9	Common Gull	1	07:48:00	124			124		PB, (Bogs) WD4, (Conifer plantation) Flies SW, veers west over conifers, out of view.		JOS

**Table 6: Common Gull Survey Data**

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CM102	13/07/2016	10	Common Gull	2	11:16:48	60			60		Blanket bog		SM
CM104	06/08/2017	2	Common Gull	1	10:17:00	36			36		Flew East		DMcG

**Table 6: Common Gull Survey Data**

Breeding Walkover Surveys									
Map Ref.	Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
CM001	11/05/2016	Section 1			Common Gull		FL2, (Acid oligotrophic lakes) Foraging	Recently fledged young/downy young; Possible breeder	PC
CM003	20/05/2016	Section 3			Common Gull		PB, (Bogs) Foraging	;	PC
CM002	28/06/2016	Section 3	Q3	15:33:00	Common Gull		1 breeding pair estimated.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
CM004	24/07/2016	Section 1	Q1	13:59:00	Common Gull		Lough Naweelan	;	SM

**Table 6: Common Gull Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Breeding	21/04/2016	Lough Bealacoan	7		Common Gull	2	Foraging	Suitable breeding habitat	107855	227971	PC
Breeding	21/04/2016	Loughanillaunmore	17		Common Gull	4	Foraging	Pair in suitable breeding habitat.	110700	229420	PC
Breeding	27&28/04/2016	Loughanillaunmore	17		Common Gull	2			110700	229420	PC
Breeding	21/04/2016	Boliska Lough	23		Common Gull	1	Foraging	Suitable breeding habitat	112365	226668	PC
Breeding	27&28/04/2016	Boliska Lough	23		Common Gull	4			112365	226668	PC
Breeding	27&28/04/2016	Boliska Lough	23		Common Gull	6			110456	226780	PC
Breeding	21/04/2016	Knocka Lough	29		Common Gull	6	Foraging	Pair in suitable breeding habitat.	116000	22800	PC
Both-Overlap	29/03/2016	Lough Sliabh an Aonaigh	32		Common Gull	1					CP

**Table 6: Common Gull Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Breeding	12/04/2016	Lough Sliabh an Aonaigh	32		Common Gull	8	Roosting		115687	230404	PC
Breeding	19/04/2017	Lough Sliabh an Aonaigh	32		Common Gull	5					JOS
Breeding	16/05/2017	Lough Sliabh an Aonaigh	32		Common Gull	1	Above water, roosting	Lake			JOS
Breeding	27&28/04/2016	Lough Tawneybeg	46		Common Gull	3			1117140	232590	PC
Breeding	05/08/2016	Ross Lake	49	17:20:00	Common Gull	12	Roosting	Perched on rocks on lake shore, and amongst reeds.	119430	236490	JOS
Both	23/03/2017	Ross Lake	49	12:21:00	Common gull	25	Roosting	Roosting on grass along lake shore.			JOS
Breeding	04/04/2017	Ross Lake	49		Common Gull	27	Roosting	Perched on rocks and grassland along lake shore.			JOS
Breeding	19/04/2017	Ross Lake	49		Common Gull	2					JOS
Breeding	03/05/2017	Ross Lake	49		Common Gull	1	In flight	Lake			JOS
Breeding	27&28/04/2016	Ross Lake	49		Common Gull	10			119430	236490	PC
Breeding	17/05/2017	Seecon Lough	71		Common Gull	4	In flight, band 1.	Lake			JOS







**Table 6: Common Gull Survey Data**

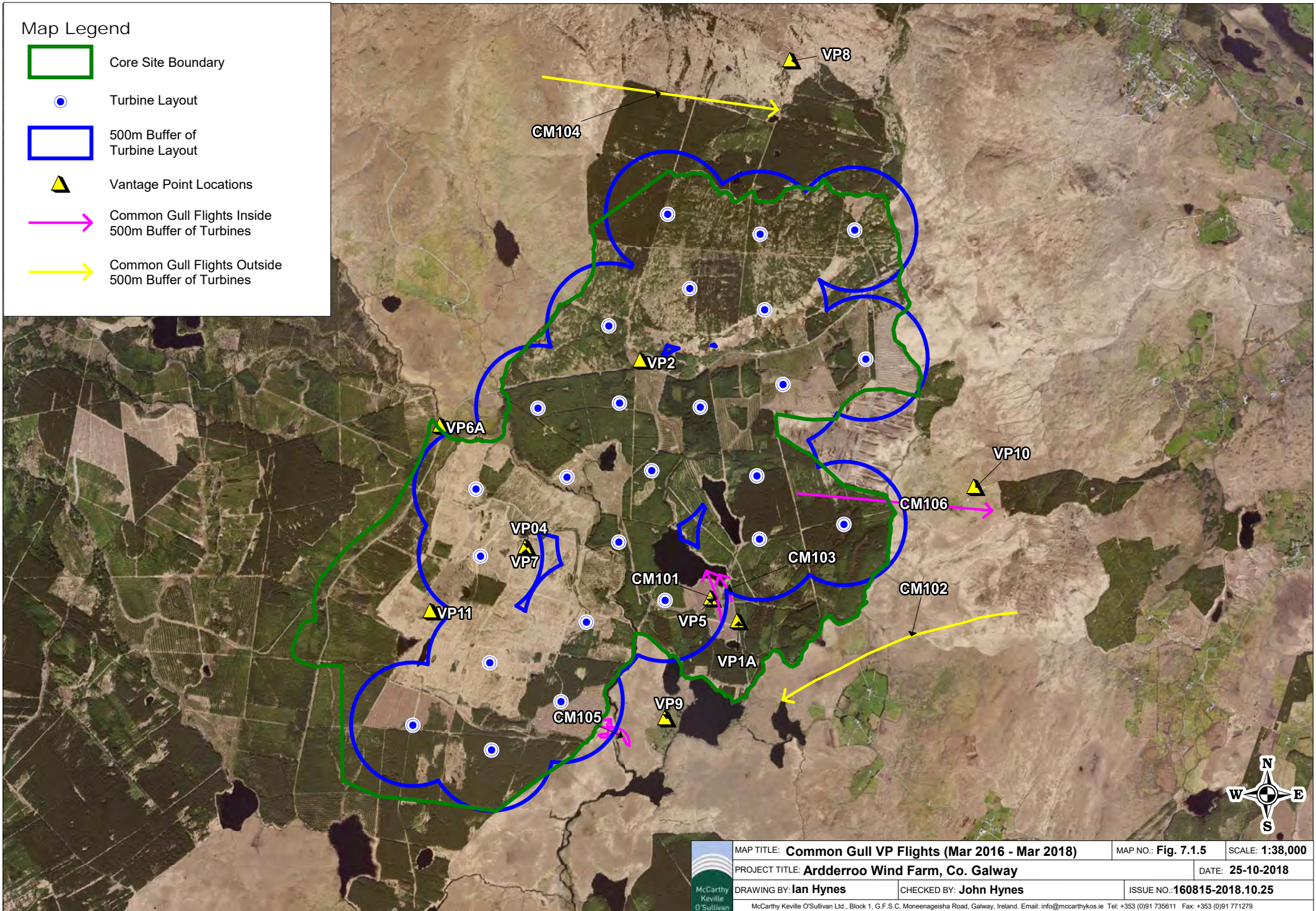
Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
24/08/2016	White Tailed Eagle Survey	3	Common Gull			SM


Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
30/08/2016	White Tailed Eagle Survey	WEVP5	Common Gull			SM
27/03/2017	White Tailed Eagle Survey	WTE Survey [VP2]	Common gull	1	Fly low over bog, band 1.	JOS
27/03/2017	White Tailed Eagle Survey	WTE Survey [VP2]	Common gull	1	Soaring, flies north over bog band 1 130s, soaring over lake, 49s band 2, soaring over lake band 3, flies W out of viewshed.	JOS
06/04/2017	White Tailed Eagle Survey	WEVP5	Common Gull	33	Lake In flight, over lake throughout survey.	JOS
14/06/2017	White Tailed Eagle Survey	WEVP1	Common Gull	1		JOS
03/08/2017	Breeding Raptor Survey	Section 3	Common Gull			DMcG



Map Legend






-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Common Gull Flights Inside 500m Buffer of Turbines
-  Common Gull Flights Outside 500m Buffer of Turbines

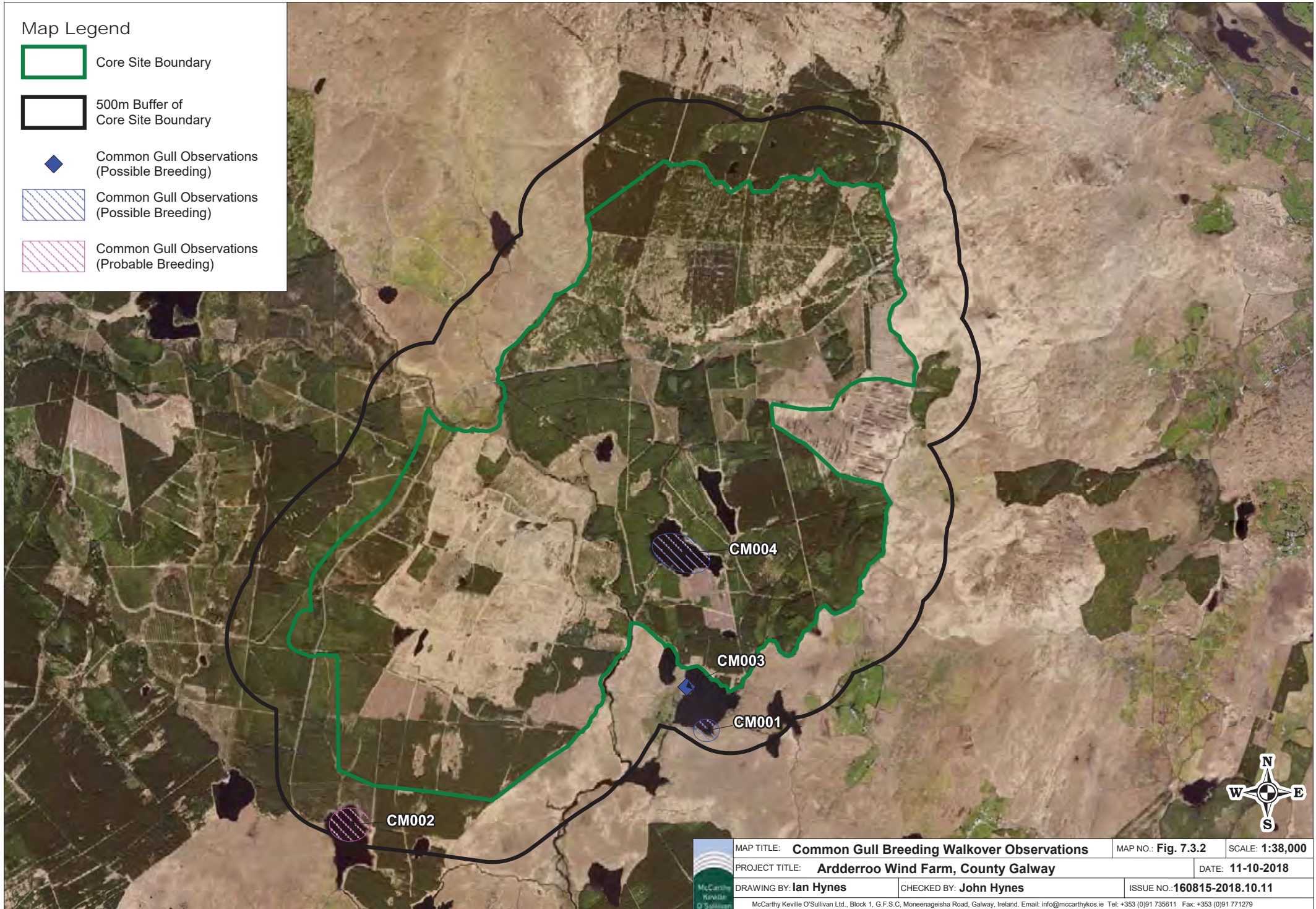


	MAP TITLE: <b>Common Gull VP Flights (Mar 2016 - Mar 2018)</b>	MAP NO.: <b>Fig. 7.1.5</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Arderroo Wind Farm, Co. Galway</b>	DATE: <b>25-10-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.25</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



Map Legend

-  Core Site Boundary
-  500m Buffer of Core Site Boundary
-  Common Gull Observations (Possible Breeding)
-  Common Gull Observations (Possible Breeding)
-  Common Gull Observations (Probable Breeding)



	MAP TITLE: <b>Common Gull Breeding Walkover Observations</b>	MAP NO.: <b>Fig. 7.3.2</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, County Galway</b>	DATE: <b>11-10-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.11</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		

**Table 7: Cormorant Survey Data**

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CA102	21/03/2016	5	Cormorant	1	17:40:00	40			40		Lakes and ponds 25-30m high, flies from north over conifers, crosses lake and lands on south bank.		SD
CA103	22/03/2016	5	Cormorant	1	16:24:00	45	30	15			Lakes and ponds Start in A, then ascend to 30m. Lifts from S bank of pond, flies around edge and then westwards to over mature conifers and then out of view.		SD
CA104	23/03/2016	4	Cormorant	1	16:11:00	35			35		Lakes and ponds (white rump patches visible) Flies out of east pond and heads SW. 40-50m ascent.		SD
CA105	07/04/2016	9	Cormorant	1	14:07:00	10			10		Lakes and ponds Flies from lake, in over conifers and heads N, 35m. Recorded for 40s in total, but 10 within site boundary. B = 10s/35m		SD
CA106	13/05/2016	1a	Cormorant	1	06:11:00	15			15		Conifer clearing		SM
CA107	13/05/2016	1a	Cormorant	1	07:02:00	10		10	0		Conifer clearing		SM
CA108	16/05/2016	7	Cormorant	1	05:11:00	50			50		Conifer plantation/Recently-felled woodland		SM
CA109	20/05/2016	9	Cormorant	1	05:14:00	25			25		Lowland blanket bog/Conifer plantation		SM
CA110	24/05/2016	5	Cormorant	1	19:13:00	15			15		Lakes and ponds/Conifer plantation		SM
CA111	25/05/2016	2	Cormorant	1	18:23:00	40			40		Conifer plantation		SM

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CA147	26/05/2016	10	Cormorant	1	16:09:00	10			10		Lowland blanket bog/Conifer plantation		SM
CA112	28/05/2016	4	Cormorant	1	18:19:00	10	5	5	0		Conifer plantation/Freshwater		SM
CA113	29/05/2016	11	Cormorant	1	16:09:00	25			25		Lowland blanket bog/Conifer plantation		SM
CA114	30/05/2016	6A	Cormorant	1	10:18:00	10	10		10		Improved grassland/Conifer plantation		SM
CA115	31/05/2016	10	Cormorant	1	12:07:00	60			60		Lowland blanket bog/Conifer plantation		SM
CA118	14/06/2016	9	Cormorant	1	08:12:00			55			Clearfell, Blanket bog and coniferous forest		SM
CA119	15/06/2016	5	Cormorant	1	08:47:00			35			Conifer forest and lakes		SM
CA120	16/06/2016	10	Cormorant	1	07:51:00			50			Coniferous forest and blanket bog		SM
CA121	22/06/2016	2	Cormorant	1	09:16:00			25					SM
CA122	23/06/2016	1a	Cormorant	1	09:00:00		20				Coniferous forest and lakes Probably landed in Lough Naweelan		SM
CA123	23/06/2016	1a	Cormorant	1	02:09:36		20				Coniferous forest and lakes Landed in Lough Naweelan		SM
CA126	28/06/2016	7	Cormorant	1	13:34:00			50			Clearfell Flying in an easterly direction, probably to Lough Naweelan		SM
CA127	29/06/2016	4	Cormorant	1	13:12:00			40			Coniferous forest and lakes Flying towards Lough Naweelan		SM
CA128	13/07/2016	10	Cormorant	1	09:50:24	35			35		Blanket bog and Coniferous forest		SM



Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CA129	13/07/2016	10	Cormorant	1	05:31:12	45			45		Blanket bog		SM
CA130	14/07/2016	9	Cormorant	1	09:50:24	90			90		Blanket bog and Coniferous forest		SM
CA132	21/07/2016	4	Cormorant	1	05:02:24	75			75		Clearfell / immature coniferous forest		SM
CA133	22/07/2016	5	Cormorant	1	03:36:00	25	5	10	10		Coniferous forest and lakes		SM
CA134	22/07/2016	5	Cormorant	1	00:43:12	20	5	5	10		Coniferous forest and lakes		SM
CA135	23/07/2016	1a	Cormorant	1	11:09:00	25			25		WD4, (Conifer plantation) FL (Lakes and Ponds)		SM
CA136	27/07/2016	7	Cormorant	1	12:14:24	60			60		Clearfell and forest		SM
CA137	29/07/2016	6A	Cormorant	1	02:09:36	40			40		Clearfell and forest		SM
CA138	30/07/2016	11	Cormorant	1	01:40:48	50			50		Coniferous forest		SM
CA139	20/09/2016	9	Cormorant	1	19:15:00	35			35		Coniferous forest, clearfell and blanket bog Flying towards lake to the north of VP9		SM
CA140	22/09/2016	8	Cormorant	1	12:01:00	35			35		Coniferous forest and clearfell Flying to the east of VP8		SM
CA141	22/09/2016	11	Cormorant	1	19:21:00	40			40		Coniferous forest and blanket bog Flying towards the north		SM
CA142	29/09/2016	5	Cormorant	1	16:31:00	20	5	5	10		Coniferous forest and lake Cormorant landed on rocks on Lough Naweelan		SM
CA143	17/10/2016	9	Cormorant	1	15:25:00	50		10	40		Conifer plantation, bog, Lake Flew over conifers, flies over lake out of view.		JOS

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CA144	17/10/2016	9	Cormorant	1	17:43:00	120	110	10			Bog, conifer plantation. In flight, flies SW from conifer plantation, over bog, lands by lake behind vp.		JOS
CA145	18/10/2016	5	Cormorant	1	14:15:00	60	5	25	30		WD4, (Conifer plantation) Flew south east over conifers, circled north west, out of view behind conifers.		JOS
CA146	26/10/2016	6A	Cormorant	1	15:21:00	30	6	8	15		PB4, (Cutover bog) WD4, (Conifer plantation) HH3, (Wet heath) In flight		HH
CA148	26/10/2016	6A	Cormorant	1	15:47:00	75	15	60			PB4, (Cutover bog) WD4, (Conifer plantation) HH3, (Wet heath) In flight		HH
CA149	26/10/2016	6A	Cormorant	1	17:35:00	15	15				PB4, (Cutover bog) WD4, (Conifer plantation) HH3, (Wet heath) In flight		HH
CA150	26/10/2016	1a	Cormorant	1	14:22:00	70		60	10		PB, (Bogs) WD4, (Conifer plantation) Flew SW (band2), over bog and young conifers, then out of view over conifers (up to band 3)		JOS
CA151	26/10/2016	1a	Cormorant	1	14:48:00	30		30			WD4, (Conifer plantation) Flew over conifers from east of vp towards Lough Naweelan, then out of view over conifer plantation.		JOS
CA152	10/11/2016	1a	Cormorant	2							WD4, (Conifer plantation) WS5, (Recently-felled woodland) FL1, (Dystrophic lakes) In flight		HH

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CA153	10/11/2016	1a	Cormorant	1							WD4, (Conifer plantation) WS5, (Recently-felled woodland) FL1, (Dystrophic lakes) In flight		HH
CA154	10/11/2016	9	Cormorant	4	08:55:00	66		10	56		PB2, (Upland blanket bog) Flying over		JH
CA155	10/11/2016	5	Cormorant	1	09:26:00	80	12	68			WD4, (Conifer plantation) Band 2, flew north over conifers, then veered NW over lake, circled NE, down to band 1, then landed on rock in lake.		JOS
CA156	10/11/2016	5	Cormorant	1	10:00:00	20	20				Individual recorded at 09:26 (ref: 4) lifts from rock, flies to southern shore of lough naweelan, lands out of view along shoreline.		JOS
CA157	10/11/2016	5	Cormorant	1	12:00:00	20	20				WD4, (Conifer plantation) Likely individual above (ref: 4 & 5), lifts from lake flies west into conifers, out of view.		JOS
CA158	10/11/2016	5	Cormorant	1	13:07:00	43	3	30	10		WD4, (Conifer plantation) Comes into view flying over conifers, band 3, circles SW, circles again, lowers to band 2, then circle SW and down onto lake, out of view.		JOS
CA159	11/11/2016	6A	Cormorant	1	09:35	62		59	3		PB, (Bogs) WD4, (Conifer plantation) Flew west then veered nw over bog, out of view behind conifers, band 3.		JOS

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CA160	18/11/2016	6A	Cormorant	1	08:39:00	33		20	13		PB, (Bogs) WD4, (Conifer plantation) Flew north, along conifer treeline, band 2, then ascended to band 3, out of view behind conifers.		JOS
CA161	06/12/2016	9	Cormorant	1	12:10:00	7					Conifer plantation, Flies over conifers to the north of vp, drops down out of view into canopy.		JOS
CA162	06/12/2016	9	Cormorant	1	13:03:00	50	40	10			Conifer plantation, bog, lowland river. In flight, band 1, 35 seconds, then flies along river up to band 2 for 10 seconds, drops down into band 1, 5 seconds, lands on water out of view.		JOS
CA163	06/12/2016	9	Cormorant	1	15:29:00	280			280		Bog, conifer, recently felled woodland Flies in band 3, 280s, NW to South, then veers SW over conifers, bog and clearfell out of view over bog to the south west.		JOS
CA164	06/12/2016	1a	Cormorant	1	11:54:00	18		18			WD4, (Conifer plantation) WS5, (Recently-felled woodland) FL1, (Dystrophic lakes) In flight		HH
CA165	03/02/2017	9	Cormorant	1	14:30:00	20			20		PB2, (Upland blanket bog) WD4, (Conifer plantation) WS5, (Recently-felled woodland) Travelling		AOD



Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CA166	06/02/2017	5	Cormorant	1	16:39:00	70		70			WD4, (Conifer plantation) PB2, (Upland blanket bog) Travelling		AOD
CA167	09/02/2017	6A	Cormorant	1	15:01:00	5	5				WD4, (Conifer plantation) PB2, (Upland blanket bog) Travelling	Landed in river	AOD
CA168	09/02/2017	6A	Cormorant	1	15:40:00	15	15				WD4, (Conifer plantation) PB2, (Upland blanket bog) Travelling		AOD
CA169	14/03/2017	4	Cormorant	1	17:32:00	176			176			Flies east, band 3, over conifers. From hill by ugoal over hill by vp10.	JOS
CA198	12/04/2017	1	Cormorant	1	16:02:00	78	4	74				Flew in a wide loop North East, finishing North	DmcG
CA186	02/06/2017	6A	Cormorant	1	10:36:00	47	13	34					JOS
CA187	09/06/2017	9	Cormorant	1	13:48:00	46		30	16				JOS
CA188	12/06/2017	10	Cormorant	1	11:48:00	67			67		Flew over conifers		DMCG
CA189	03/07/2017	1a	Cormorant	1	14:06:00	47		47					JOS
CA190	07/07/2017	9	Cormorant	1	13:07:00			10			PB, (Bogs) Commuting.		JOS
CA191	12/07/2017	8	Cormorant	1	15:21:00	49			49		Flew East		DMcG
CA197	18/08/2017	7	Cormorant	1		148				148	Flew North		DMcG
CA171	19/09/2017	6A	Cormorant	1	18:35:00	53	53				Flies along course of road, veers east over conifers.		JOS
CA172	19/09/2017	6A	Cormorant	1	19:32:00	32		32			Flies east over grassland and bog.		JOS

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CA174	06/10/2017	9	Cormorant	1	12:35:00	73		73			FW4, (Drainage ditches) Travelling, landed FW4		Sean Ronayne
CA176	17/11/2017	1A	Cormorant	1	16:03:00	28	28				WD4, (Conifer plantation)	F; U/W.	CP
CA177	23/11/2017	4	Cormorant	1	15:17:00	38	33	5			WD4, (Conifer plantation) FL1, (Dystrophic lakes)	F, D/W. Landed on lake.	CP
CA178	23/11/2017	4	Cormorant	1	16:05:00	17	17				FL1, (Dystrophic lakes) WD4, (Conifer plantation)	F. Flew from lake.	CP
CA179	30/11/2017	11	Cormorant	1	14:58:00	38		38			WD4, (Conifer plantation)	F; D/W.	CP
CA192	10/12/2017	9	Cormorant	1	10:05:00	30	5	20	10		PB2, (Upland blanket bog) WD4, (Conifer plantation)		S. Meehan
CA193	15/12/2017	5	Cormorant	1	08:24:00	30	5	5	20		WD4, (Conifer plantation) Lakes		S. Meehan
CA194	20/12/2017	7	Cormorant	1	12:05:00	30			30		WD4, (Conifer plantation)		S. Meehan
CA180	27/01/2018	11	Cormorant	1	16:30:00	42			42		PB3, (Lowland blanket bog) WD4, (Conifer plantation)	F, D/W.	CP
CA181	30/01/2018	4	Cormorant	1	14:40:00	78			78		WD4, (Conifer plantation) PB3, (Lowland blanket bog)	F	CP
CA182	13/02/2018	1A	Cormorant	1	08:08:00	13			13		WD4, (Conifer plantation)	F.	CP
CA183	16/02/2018	4	Cormorant	1	13:15:00	28	28				WD4, (Conifer plantation) FL1, (Dystrophic lakes) Landed in eastern lake close to VP.	F	CP
CA184	18/02/2018	5	Cormorant	1	10:28:00	17		17			FL2, (Acid oligotrophic lakes) WD4, (Conifer plantation) Apparently came from Lough Naweelen.	F	CP
CA185	23/02/2018	9	Cormorant	1	08:21:00	78			78		WD4, (Conifer plantation)	F.	CP

**Table 7: Cormorant Survey Data**

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CA116	13/06/2016	8	Cormorant	1	08:12:00			50			Coniferous forest and blanket bog		SM
CA117	13/06/2016	8	Cormorant	1	11:44:00			45			Coniferous forest and clearfell		SM
CA124	26/06/2016	11	Cormorant	1	16:05:00			70			Coniferous forest and blanket bog * 2 snipe flushed while walking to VP (Seperate flushings)		SM
CA125	26/06/2016	11	Cormorant	1	21:05:00			45			Coniferous forest and bog Flying in a northerly direction		SM
CA131	20/07/2016	8	Cormorant	1	04:04:48	55			55		Blanket bog and Coniferous forest		SM
CA101	07/01/2017	6A	Cormorant	1	11:36:00	25			25		WD4, (Conifer plantation) PB2, (Upland blanket bog)		S. Meehan
CA170	15/09/2017	11	Cormorant	1	19:24:00	42		42			Bog/conifer Flies west.		JOS
CA173	06/10/2017	9	Cormorant	1	07:44:00	15	15				FL1, (Dystrophic lakes) Travelling, landed FL1		Sean Ronayne
CA175	08/11/2017	9	Cormorant	1	12:24:00	18		18			FL1, (Dystrophic lakes) Travelling		Sean Ronayne



Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
CA196	16/12/2017	8	Cormorant	1	10:08:00	40			40		WD4, (Conifer plantation)		S. Meehan
CA195	21/12/2017	11	Cormorant	1	08:15:00	30			30		WD4, (Conifer plantation)		S. Meehan

**Table 7: Cormorant Survey Data**

Breeding Walkover Surveys									
Map Ref.	Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
	18/04/2016	Section 5			Cormorant		FL2, (Acid oligotrophic lakes) Roosting and foraging with no breeding evidence	Non-Breeder	PC
	23/06/2016	Section 5	Q1	15:37:00	Cormorant		WD4, (Conifer plantation)	;	SM
	24/06/2016	Section 5	Q3	14:42:00	Cormorant		WD4, (Conifer plantation) On Lough Fadda.	;	SM
	25/06/2016	Section 1	Q1	14:09:00	Cormorant		WD4, (Conifer plantation) On Lough Naweelan	;	SM
	27/06/2016	Section 3	Q2	13:09:00	Cormorant		PB2, (Upland blanket bog) Flying towards Lough Naweelan.	Flying over; Non-breeding	SM
	28/06/2016	Section 3	Q3	15:33:00	Cormorant		Lake at south of Q3. No evidence of nesting in trees.	;	SM
	30/06/2016	Section 2	Q1	15:41:00	Cormorant		PB4, (Cutover bog) Within the 500 metre buffer zone of Q1	;	SM
	15/07/2016	Section 3	Q2	16:24:00	Cormorant		On the western shore of Lough Naweelan	;	SM
	15/07/2016	Section 3	Q3	14:02:00	Cormorant		On large lake to the south of Q3, half of which is in the 500 metre buffer zone.	;	SM
	23/07/2016	Section 1	Q4	17:38:00	Cormorant		Lake in south western corner of Q4	;	SM
	24/07/2016	Section 1	Q3	12:32:00	Cormorant		PB2, (Upland blanket bog), Observed flying in a northerly direction.	;	SM

Breeding Walkover Surveys									
Map Ref.	Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
	25/07/2016	Section 2	Q1	15:35:00	Cormorant		PB2, (Upland blanket bog), Flying over blanket bog within the 500 metre buffer zone	;	SM

**Table 7: Cormorant Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-Breeding	05/01/2017	Bunnagippaun Lough	3	09:42:00	Cormorant	1		Flying south, low over lake, band 1.	112016	239572	JOS
Breeding	27&28/04/2016	Tullynasheoy	4		Cormorant	1			105924	229807	PC
Breeding	21/04/2016	Lough More	6		Cormorant	1	Foraging	Suitable breeding habitat	107454	228862	PC
Breeding	27&28/04/2016	Lough More	6		Cormorant	2			107454	228862	PC
Breeding	21/04/2016	Lough Bealacoan	7		Cormorant	1	Foraging	Suitable breeding habitat	107855	227971	PC
Non-breeding	07/02/2018	Lough Bealacoan	7		Cormorant	1	Roosting	Above Water			PM
Non-Breeding	05/01/2017	Unnamed Lough (Letterfir bog)	13	12:05:00	Cormorant	1	Roosting	Perched on rocks	108645	228473	JOS
Both-Overlap	30/03/2016	Loughanillaunmore	17		Cormorant	1					CP
Non-breeding	16/11/2017	Loughanillaunmore	17		Cormorant	1	Roosting				JOS
Non-breeding	16/11/2017	Loughanillaunmore	17		Cormorant	1	Roosting				JOS
Non-breeding	16/11/2017	Loughanillaunmore	17		Cormorant	1	Feeding				JOS
Non-breeding	17/11/2017	Loughanillaunmore	17		Cormorant	1	Roosting				JOS

**Table 7: Cormorant Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Breeding	27&28/04/2016	Loughanillaunmore	17		Cormorant	3			110700	229420	PC
Non-breeding	03/11/2017	Lough Natawneighter	18		Cormorant	1	Roosting	Above water			JOS
Both-Overlap	29/03/2016	Boliska Lough	23		Cormorant	1					CP
Non-Breeding	02/12/2016	Boliska Lough	23	13:31:00	Cormorant	1	Feeding	On lake, feeding	112365	226668	JOS
Non-Breeding	02/12/2016	Boliska Lough	23	13:44:00	Cormorant	1	Roosting	Perched on rock in lake.	112365	226668	JOS
Non-Breeding	16/01/2017	Boliska Lough	23	13:16:00	Cormorant	1		Flew overhead, band 1.	112365	226668	JOS
Both	07/03/2017	Boliska Lough	23	13:04:00	Cormorant	1	Roosting	Perched on rock.			JOS
Non-breeding	21/10/2017	Boliska Lough	23		Cormorant	1	Roosting	Above water			JOS
Non-breeding	15/01/2018	Boliska Lough	23		Cormorant	1	Feeding	On Water			PM
Non-breeding	21/02/2018	Boliska Lough	23		Cormorant	1	Roosting	Above Water			PM
Non-breeding	21/02/2018	Boliska Lough	23		Cormorant	2	Feeding	On Water			PM
Non-breeding	21/03/2018	Boliska Lough	23		Cormorant	1	Roosting	Above Water			PM
Breeding	27&28/04/2016	Boliska Lough	23		Cormorant	1			112365	226668	PC
Breeding	27&28/04/2016	Boliska Lough	23		Cormorant	3			110456	226780	PC
Both-Overlap	29/03/2016	Lough Poll	25		Cormorant	1					CP
Non-breeding	07/03/2018	Lough Poll	25		Cormorant	1	Roosting	Above Water			PM
Non-breeding	08/02/2018	Knocka Lough	29		Cormorant	1	Roosting	Above Water			PM
Non-breeding	21/02/2018	Knocka Lough	29		Cormorant	1	Roosting	Above Water			PM
Non-Breeding	03/11/2016	Lough Sliabh an Aonaigh	32	09:50:00	Cormorant	1	Roosting	Perched on rock	115687	230404	JOS



**Table 7: Cormorant Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-Breeding	14/12/2016	Lough Sliabh an Aonaigh	32	11:51:00	Cormorant	1	Roosting	Perched on rock in lake.	115687	230404	JOS
Non-Breeding	16/01/2017	Lough Sliabh an Aonaigh	32	13:56:00	Cormorant	1	Roosting	Perched on rock.	115687	230404	JOS
Non-Breeding	08/02/2017	Lough Sliabh an Aonaigh	32	12:51:00	Cormorant	1	Roosting	Perched on rock	115687	230404	JOS
Both	07/03/2017	Lough Sliabh an Aonaigh	32	13:58:00	Cormorant	1	Roosting	Perched on rock, drying wings.			JOS
Breeding	19/04/2017	Lough Sliabh an Aonaigh	32		Cormorant	1					JOS
Non-breeding	04/10/2017	Lough Sliabh an Aonaigh	32		Cormorant	1	Roosting	Above water			JOS
Non-breeding	20/10/2017	Lough Sliabh an Aonaigh	32		Cormorant	1	Roosting	Above water			JOS
Non-breeding	08/02/2018	Lough Sliabh an Aonaigh	32		Cormorant	1	Roosting	Above Water			PM
Non-breeding	21/02/2018	Lough Sliabh an Aonaigh	32		Cormorant	3	Roosting	Above Water			PM
Non-breeding	06/03/2018	Lough Sliabh an Aonaigh	32		Cormorant	1	Roosting	Above Water			PM
Breeding	27&28/04/2016	Lough Thulaigh na nUan	37		Cormorant	3			113620	231670	PC
Breeding	12/04/2016	Loch na nArd Doiriú	38		Cormorant	1	Roosting		112962	231902	PC
Non-Breeding	19/10/2016	Loch na nArd Doiriú	38	13:45:00	Cormorant	2	Roosting	Perched on rocks in lake	113010	231830	JOS
Non-Breeding	03/11/2016	Unnamed Lough	40	10:30:00	Cormorant	1		Flies west to east, over lough, then out of view behind crest of hill. Band 1, 50 seconds.	112706	232119	JOS
Non-Breeding	08/02/2017	Lough Atavamore	43	15:19:00	Cormorant	1	Roosting	Perched on rock.	118300	232424	JOS

**Table 7: Cormorant Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Breeding	18/04/2017	Lough Atavamore	43		Cormorant	2		In flight			JOS
Non-breeding	03/10/2017	Lough Atavamore	43		Cormorant	1	Roosting	Above water			JOS
Non-breeding	09/02/2018	Lough Atavamore	43		Cormorant	1	Roosting	Above Water			PM
Non-breeding	06/03/2018	Lough Atavamore	43		Cormorant	1	Roosting	Above Water			PM
Non-Breeding	05/12/2016	Lough Atavabeg	44	11:31:00	Cormorant	1	Roosting	Perched on rock in lake.	118030	231930	JOS
Non-Breeding	19/10/2016	Lough Tawneybeg	46	15:01:00	Cormorant	1		Flew north over lake, band 1/2.	1117140	232590	JOS
Breeding	18/04/2017	Lough Tawneybeg	46		Cormorant	1	Roosting	Perched on rock in Lake			JOS
Breeding	05/08/2016	Ross Lake	49	17:10:00	Cormorant	1	Roosting	Perched on rock.	119430	236490	JOS
Non-Breeding	05/10/2016	Ross Lake	49	09:15:00	Cormorant	4		Perched on rocks along NE shoreline.	119430	236490	JOS
Non-Breeding	20/10/2016	Ross Lake	49	13:27:00	Cormorant	5	Roosting	Perched on rocks	119430	236490	JOS
Non-Breeding	16/11/2016	Ross Lake	49	13:37:00	Cormorant	1			119430	236490	JOS
Non-Breeding	05/12/2016	Ross Lake	49	15:03:00	Cormorant	6	Roosting	Perched on rocks on shore.	119430	236490	JOS
Non-Breeding	15/12/2016	Ross Lake	49	13:33:00	Cormorant	7	Roosting	Perched on rocks.	119430	236490	JOS
Non-Breeding	05/01/2017	Ross Lake	49	11:23:00	Cormorant	1	Roosting	Perched on rock	119430	236490	JOS
Non-Breeding	05/01/2017	Ross Lake	49	11:39:00	Cormorant	2	Roosting	Perched on rock	119430	236490	JOS
Non-Breeding	17/01/2017	Ross Lake	49	12:34:00	Cormorant	5	Roosting	Perched on rocks.	119430	236490	JOS
Non-Breeding	09/02/2017	Ross Lake	49	11:17:00	Cormorant	3	Roosting	perched on rocks.	119430	236490	JOS
Both	08/03/2017	Ross Lake	49	12:12:00	Cormorant	1					JOS

**Table 7: Cormorant Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Both	08/03/2017	Ross Lake	49	12:30:00	Cormorant	1		In flight			JOS
Both	08/03/2017	Ross Lake	49	12:30:00	Cormorant	2	Roosting	perch			JOS
Both	23/03/2017	Ross Lake	49	12:20:00	Cormorant	4		Perched on rock.			JOS
Breeding	04/04/2017	Ross Lake	49		Cormorant	1		Flies low over water, band 1, lands on lake.			JOS
Breeding	04/04/2017	Ross Lake	49		Cormorant	2	Roosting	Perched on rock.			JOS
Breeding	19/04/2017	Ross Lake	49		Cormorant	1					JOS
Breeding	03/05/2017	Ross Lake	49		Cormorant	5	Roosting	Lake			JOS
Breeding	17/05/2017	Ross Lake	49		Cormorant	1		Above water, flies low over lake			JOS
Non-breeding	21/10/2017	Ross Lake	49		Cormorant	2	Roosting	Above water			JOS
Non-breeding	02/11/2017	Ross Lake	49		Cormorant	3	Roosting	Above water			JOS
Non-breeding	17/11/2017	Ross Lake	49		Cormorant	1	Roosting				JOS
Non-breeding	17/11/2017	Ross Lake	49		Cormorant	1	Roosting				JOS
Non-breeding	17/11/2017	Ross Lake	49		Cormorant	1	Roosting				JOS
Non-breeding	05/12/2017	Ross Lake	49		Cormorant	1	Roosting	On Water			JOS
Non-breeding	05/12/2017	Ross Lake	49		Cormorant	1	Flying over	Flying over lake			JOS
Non-breeding	21/12/2017	Ross Lake	49		Cormorant	1	Feeding	On Water			JOS
Non-breeding	21/12/2017	Ross Lake	49		Cormorant	3	Roosting	Roost on rock in lake.			JOS
Non-breeding	12/01/2018	Ross Lake	49		Cormorant	4	Roosting	Above Water			PM

**Table 7: Cormorant Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-breeding	29/01/2018	Ross Lake	49		Cormorant	7	Roosting	Above Water			PM
Non-breeding	08/02/2018	Ross Lake	49		Cormorant	6	Roosting	Above Water			PM
Non-breeding	22/02/2018	Ross Lake	49		Cormorant	7	Roosting	Above Water			PM
Non-breeding	06/03/2018	Ross Lake	49		Cormorant	5	Roosting	Above Water			PM
Non-breeding	20/03/2018	Ross Lake	49		Cormorant	8	Roosting	Above Water			PM
Breeding	27&28/04/2016	Ross Lake	49		Cormorant	1			119430	236490	PC
Non-breeding	22/02/2018	Lough Parkyflaherty	52		Cormorant	1	Feeding	On Water			PM
Breeding	27&28/04/2016	Lough Naneevin	53		Cormorant	1			116230	238800	PC
Breeding	20/04/2016	Loch na bhFaoileán Beag	59		Cormorant	1	Foraging	Suitable breeding habitat	112210	233930	PC
Breeding	16/05/2017	Lough Naweelen	60		Cormorant	1	Above water, roosting	Lake			JOS
Non-Breeding	08/02/2017	Seecon Lough	71	16:31:00	Cormorant	4		Lift from lake, fly NW.	108740	235230	JOS
Both	22/03/2017	Seecon Lough	71	15:41:00	Cormorant	1		perched on rock			JOS
Non-breeding	04/10/2017	Seecon Lough	71		Cormorant	1	Roosting	Above water			JOS
Non-breeding	15/01/2018	Seecon Lough	71		Cormorant	1	Feeding	On Water			PM
Non-breeding	06/03/2018	Seecon Lough	71		Cormorant	1	Feeding	On Water			PM









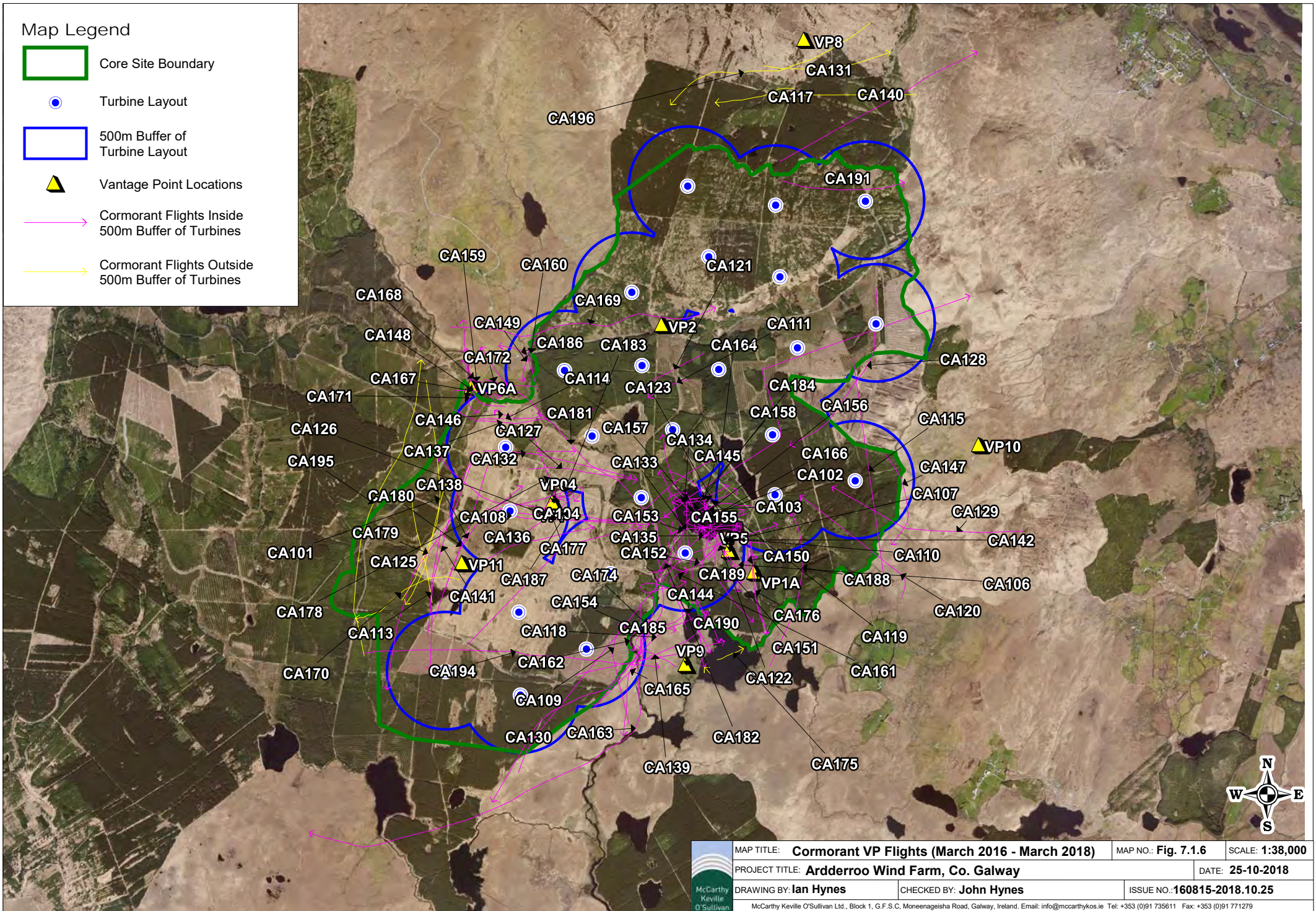
**Table 7: Cormorant Survey Data**


Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
24/08/2016	White Tailed Eagle Survey	WEVP3	Cormorant		PB2, (Upland blanket bog)	SM
30/08/2016	White Tailed Eagle Survey	WEVP5	Cormorant			SM
01/03/2017	White Tailed Eagle Survey	WTE Survey (VP3)	Cormorant	1	Perched on rock in lough Boliska.	JOS
28/03/2017	HH Roost Survey	HHVP5	Cormorant	1	Flies South	JOS
06/04/2017	White Tailed Eagle Survey	WEVP5	Cormorant	3	Lake Perched on rock	JOS
13/04/2017	White Tailed Eagle Survey	WEVP2	Cormorant	1	Bog Flies south east, band 1.	JOS
14/06/2017	White Tailed Eagle Survey	WEVP1	Cormorant	1		JOS
03/08/2017	White Tailed Eagle Survey	Section 3	Cormorant			DMcG
29/11/2017	Hen Harrier Roost Survey	HHVP4	Cormorant	2	Perched on rock in Loughanillaunmor.	JOS
20/02/2018	HH Roost Survey	HHVP4	Cormorant	1	PB, (Bogs) FW, (Watercourses) WN, (Semi-natural woodland) Into tree	JC
20/02/2018	HH Roost Survey	HHVP4	Cormorant	2	Pair in tree	JC
23/02/2018	White Tailed Eagle Survey	WEVP2	Cormorant	1	FW, (Watercourses) PB, (Bogs) Flying over lake	JC



### Map Legend

-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Cormorant Flights Inside 500m Buffer of Turbines
-  Cormorant Flights Outside 500m Buffer of Turbines



	MAP TITLE: <b>Cormorant VP Flights (March 2016 - March 2018)</b>	MAP NO.: <b>Fig. 7.1.6</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, Co. Galway</b>		DATE: <b>25-10-2018</b>
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.25</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



**Table 8: Common Tern Survey Data**

<b>Wetland and Waterbird Counts</b>											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Breeding	20/04/2016	Ross Lake	49		Common Tern	2	Foraging	Suitable breeding habitat	119430	236490	PC
Non-Breeding	05/01/2017	Loughanillaunmore	17	13:15:00	Common Tern	1		In flight low over lake.	110700	229420	JOS

**Table 8: Common Tern Data**

<b>Incidental Records</b>						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
06/04/2017	White-tailed Eagle Survey	WEVP5	Common Tern	21	Fly over lake and roost on island.	JOS

**Table 9: Hen Harrier Survey Data**

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
HH101	09/11/2016	10	Hen Harrier	1	15:45:00	25	25	0	0	0	WD4, (Conifer plantation) PB2, (Upland blanket bog) Passing Over. Possible Roost Site.		JH
HH102	10/11/2016	5	Hen Harrier	1	07:49:00	50		50			WD4, (Conifer plantation) Commuting - flew from NE west over conifers out of view - female.		JOS
HH103	10/11/2016	9	Hen Harrier	1	09:17:00	35	35	0	0	0	PB2, (Upland blanket bog) WS5, (Recently-felled woodland) HH[Male]flew from rank vegetation at edge of PB2 to WS5. Possible roost site.		JH
HH104	11/11/2016	6A	Hen Harrier	1	08:27:00	186	186				PB, (Bogs) WD4, (Conifer plantation) Flew ow over bog hunting then in amongst young conifers out of view. Adult female.		JOS
HH105	05/12/2016	5	Hen Harrier	1	14:40:00	36			36		WD4, (Conifer plantation) WS5, (Recently-felled woodland) FL2, (Acid oligotrophic lakes) In flight	Unaged ringtail	HH



Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
HH106	07/12/2016	4	Hen Harrier	1	12:40:00	14	14				HH3, (Wet heath) WS5, (Recently-felled woodland) FL1, (Dystrophic lakes) Hunting	Adult male	HH
HH110	10/03/2017	6A	Hen Harrier	1	07:20:00	15	15				PB2, (Upland blanket bog) Hunting	Female flying low over bog hunting	AOD
HH109	31/03/2017	9	Hen Harrier	1	08:15:00	2820	2820				PB2, (Upland blanket bog) hunting, perched	Female flew to suitable nesting habitat area in young forestry. Began hopping around in patch of clearfell between rows of new trees continued inspecting area for 45min before flying off low	AOD
HH111	14/11/2017	6A	Hen Harrier	1	15:05:00	51		51			PB4, (Cutover bog) Travelling	Adult Female	JK
HH112	14/11/2017	6A	Hen Harrier	1	15:41:00	43	12	31			PB4, (Cutover bog) WD4, (Conifer plantation) Foraging	Adult Female	JK
HH113	23/11/2017	4	Hen Harrier	1	14:35:00	19	19				WD4, (Conifer plantation)	F.	CP

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
HH114	15/12/2017	4	Hen Harrier	2	10:13:00	180	180				WD4, (Conifer plantation) Male and female interacting, also aggression between these and SH (below).	F/glide	CP
HH115	15/12/2017	4	Hen Harrier	1	11:18:00	23	23				WD4, (Conifer plantation) Female, hunting	F	CP
HH116	19/01/2018	6A	Hen Harrier	1	15:09:00	37	37				WD4, (Conifer plantation) Male, Hunting		PM
HH117	28/01/2018	7	Hen Harrier	1	14:11:00	20	5	15			WD4, (Conifer plantation) PB3, (Lowland blanket bog) Male. Hunting.	F/glide.	CP
HH118	30/01/2018	4	Hen Harrier	1	14:16:00	69	47	22			WD4, (Conifer plantation) Ringtail. Circling and commuting	F/glide, D/W. Some of primaries on left wing missing.	CP
HH119	16/02/2018	4	Hen Harrier	1	13:06:00	12	12				WD4, (Conifer plantation) Hunting. Small dark ringtail (poss Imm. Male)	F	CP
HH120	21/02/2018	11	Hen Harrier	1	11:05:00	163	163				PB3, (Lowland blanket bog) WS5, (Recently-felled woodland) WD4, (Conifer plantation) Hunting, full-winged adult female.	F	CP

**Table 9: Hen Harrier Survey Data**

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
HH107	09/12/2016	10	Hen Harrier	1	08:40:00	160	160				PB, (Bogs) WS5, (Recently-felled woodland) WD4, (Conifer plantation) Male, flew low over bog and stream heading west followed by corvid, then out of view behind brow of hill.		JOS
HH108	02/02/2017	10	Hen Harrier	1	09:09:00	12	12				PB2, (Upland blanket bog) Hunting	Female hunting low behind old ruins	AOD

**Table 9: Hen Harrier Survey Data**







Winter Walkover Surveys									
Survey Date	VP/Trans/Quad No.	Time of observation	BTO code	Species	No. of Birds	Target Spp. (Y/N)	Sex/age	Habitat and Activity	Surveyor
31/01/2018	1		HH	Hen Harrier	1	Y		Ringtail; no missing primaries.	CP

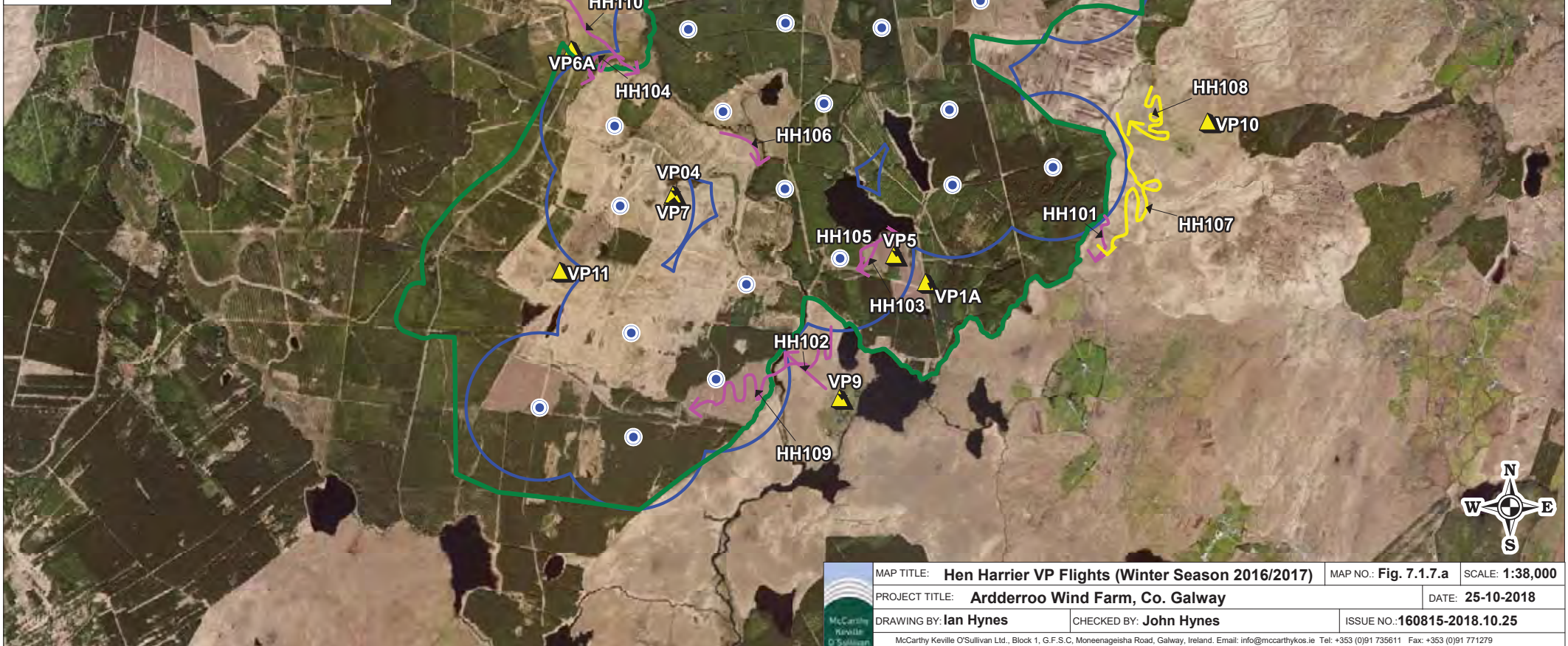
**Table 9: Hen Harrier Survey Data**

Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
21/02/2018	White Tailed Eagle Survey	WEVP4	Hen Harrier	1	WD4, (Conifer plantation) PB, (Bogs) Male, traveling	JC
21/02/2018	White Tailed Eagle Survey	WEVP4	Hen Harrier	1	WD4, (Conifer plantation) PB, (Bogs) Male	JC
23/02/2018	White Tailed Eagle Survey	WEVP2	Hen Harrier	1	PB, (Bogs) FW, (Watercourses) Flying over bog and edge of lakes hunting	JC
06/03/2018	Waterbird Survey	M 11540 33338	Hen Harrier	1	Female hunting near lakes	PM



Map Legend






-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Hen Harrier Flights Inside 500m Buffer of Turbines (Winter 2016/2017)
-  Hen Harrier Flights Outside 500m Buffer of Turbines (Winter 2016/2017)

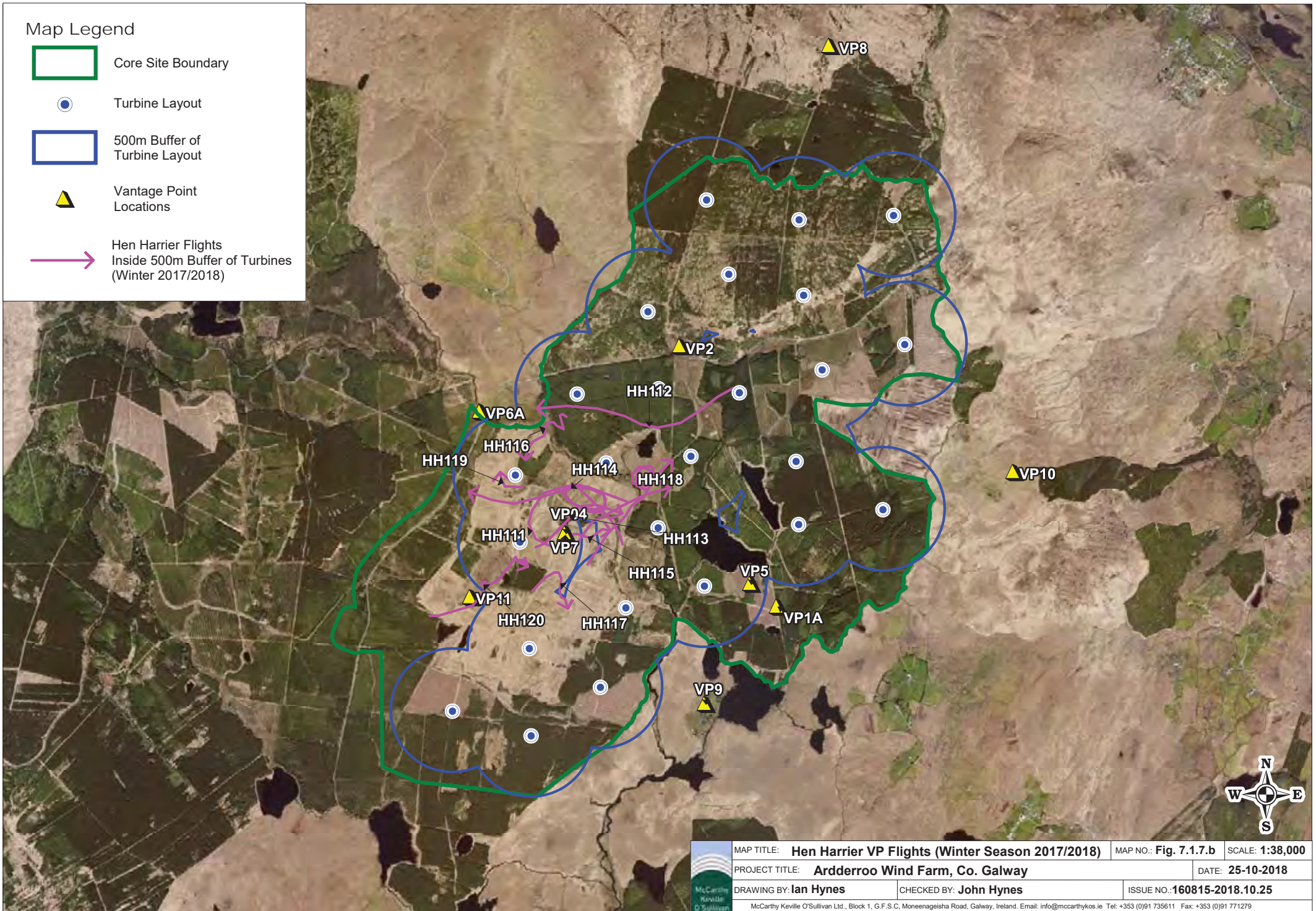


	MAP TITLE: <b>Hen Harrier VP Flights (Winter Season 2016/2017)</b>	MAP NO.: <b>Fig. 7.1.7.a</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, Co. Galway</b>	DATE: <b>25-10-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.25</b>
<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthys.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>			



Map Legend

-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Hen Harrier Flights Inside 500m Buffer of Turbines (Winter 2017/2018)



**Table 10: Merlin Survey Data**






Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
ML101	23/02/2018	9	Merlin	1	08:24:00	28	0	10	0	0	WD4, (Conifer plantation) PB3, (Lowland blanket bog) Female. Total flight time 28 secs, including 10 sec at Band 2 in site and 18 sec at Band 1 out of site area.	F, D/W.	CP

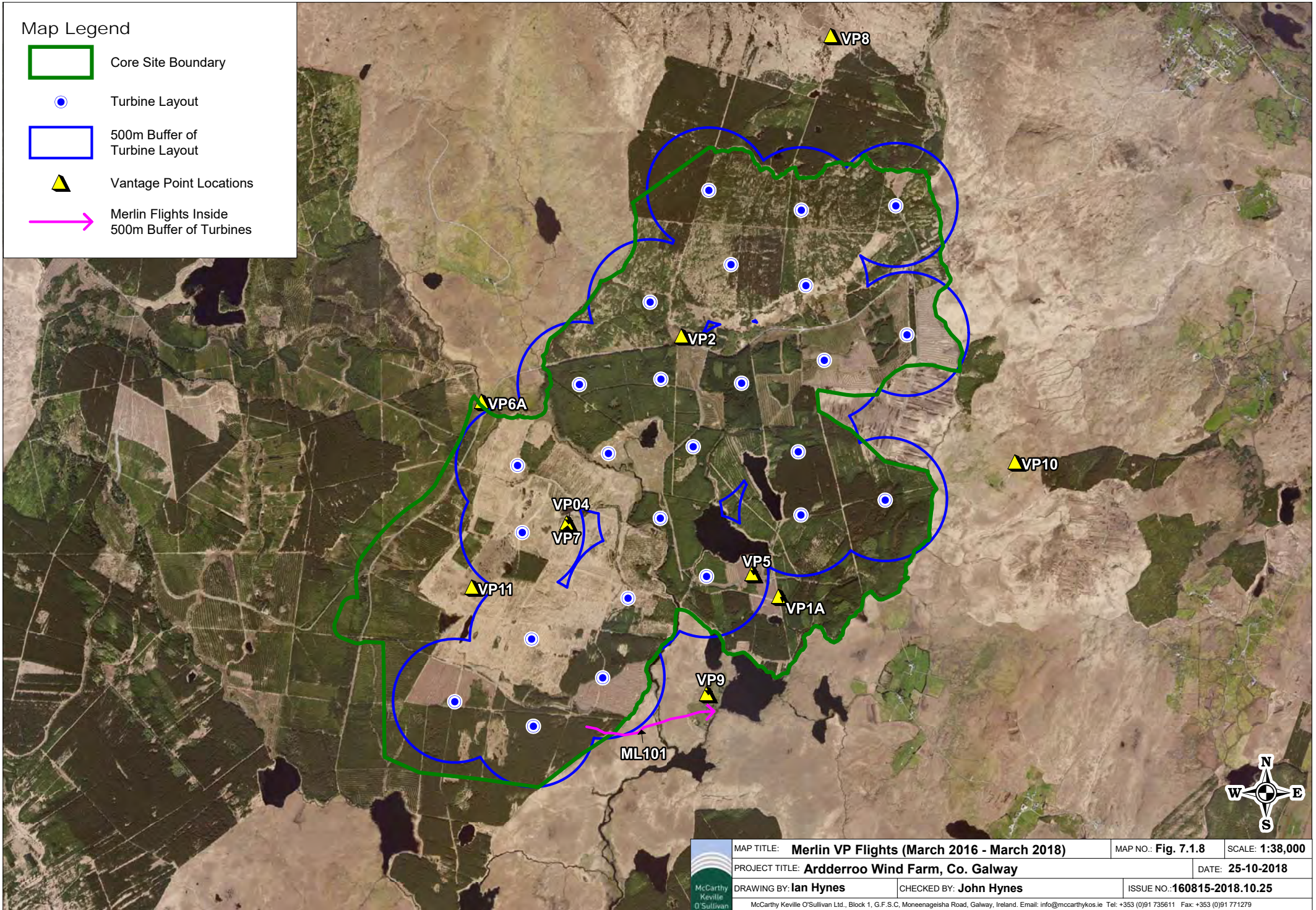
**Table 10: Merlin Survey Data**


Breeding Raptor Surveys										
Map Reference No.	Date	VP	Time of observation	Species Name	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor	
ML2001	22/04/2016	Section 4	-	Merlin	1		Fly	In prolonged pursuit of prey North to South	PC	



Map Legend




-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Merlin Flights Inside 500m Buffer of Turbines

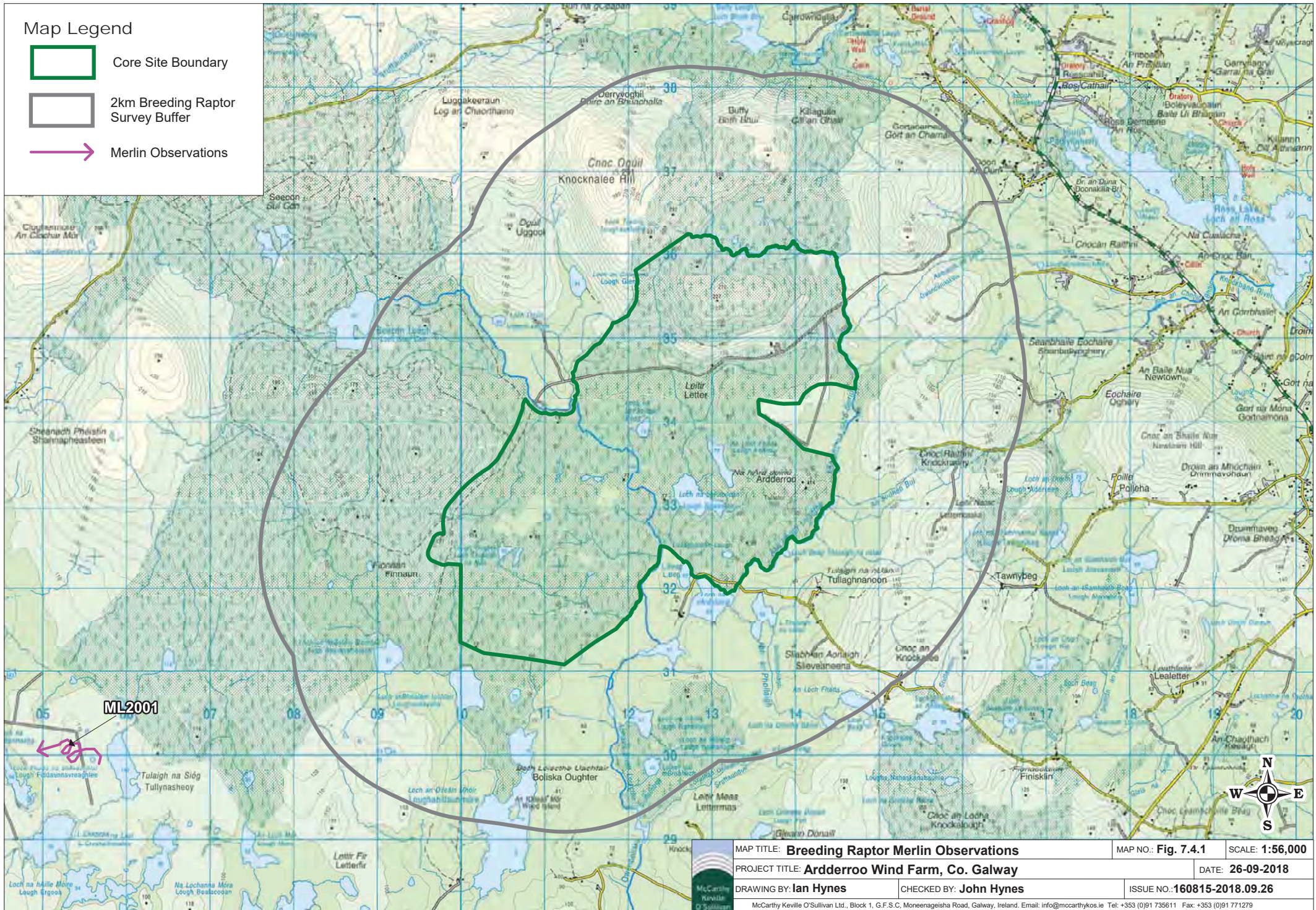



	MAP TITLE: <b>Merlin VP Flights (March 2016 - March 2018)</b>	MAP NO.: <b>Fig. 7.1.8</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, Co. Galway</b>	DATE: <b>25-10-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.25</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



Map Legend

-  Core Site Boundary
-  2km Breeding Raptor Survey Buffer
-  Merlin Observations



	MAP TITLE: <b>Breeding Raptor Merlin Observations</b>	MAP NO.: <b>Fig. 7.4.1</b>	SCALE: <b>1:56,000</b>
	PROJECT TITLE: <b>Arderroo Wind Farm, Co. Galway</b>	DATE: <b>26-09-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.09.26</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



**Table 11: Red Grouse Survey Data**

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
RG101	30/03/2017	5	Red Grouse	1	07:00:00	5	5				WD4, (Conifer plantation) PB2, (Upland blanket bog) Displaying	Calling male	AOD

**Table 11: Red Grouse Survey Data**

Vantage Point Surveys (Non-flight Data)									
Date	VP	BTO	Species	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor	
26/10/2016	1a	RG	Red Grouse	1	18:48:00	Heard calling towards south of vp - no visual.		JOS	
10/11/2016	9	RG	Red Grouse	1	07:11:00	PB2, (Upland blanket bog)	RG calling from PB2	JH	
20/04/2017	8	RG	Red Grouse		05:47:00		Heard calling. No visual	DMCG	
26/05/2017	1a	RG	Red grouse	1	04:30:00			JOS	

**Table 11: Red Grouse Survey Data**

Breeding Walkover Surveys									
Map Ref.	Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
	27/04/2016	Section 5			Red Grouse		PB, (Bogs)	;	PC
RG001	27/05/2016	Section 2			Red Grouse		PB, (Bogs), Commuitng	Suitable nesting habitat; Possible breeder	PC

Breeding Walkover Surveys									
Map Ref.	Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
	19/06/2017	Section 2		15:19:00	Red Grouse	1	Bog		JOS

**Table 11: Red Grouse Survey Data**

Red Grouse Surveys							
Map Reference No.	Date	Transect	Species Name	No. of birds	Easting	Northing	Surveyor
RG101	05/03/2016	1	Red Grouse	1	13725	32154	CP
RG102	05/03/2016	1	Red Grouse	1	13885	32263	CP
	05/03/2016	2	No sightings				CP
	05/03/2016	3	No sightings				CP
	05/03/2016	4	No sightings				CP
	05/03/2016	5	No sightings				CP
	05/03/2016	6	No sightings				CP
	05/03/2016	7	No sightings				CP
	05/03/2016	8	No sightings				CP
	05/03/2016	9	No sightings				CP
	05/03/2016	10	No sightings				CP
	11/03/2016	11	No sightings				CP
	11/03/2016	12	No sightings				CP
	11/03/2016	13	No sightings				CP
	11/03/2016	14	No sightings				CP
	31/03/2017	1	No sightings		14839	35635	
	31/03/2017	2	No sightings		14848	35629	
	31/03/2017	3	No sightings		14764	33583	
	31/03/2017	4	No sightings		14788	33473	
	31/03/2017	5	No sightings		13929	31918	

**Table 11: Red Grouse Survey Data**

Incidental Records during Wetland & Waterbird Counts											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Breeding	21/04/2016	Knocka Lough	29		Red Grouse	2	Flushed	Pair in suitable breeding habitat.	116000	22800	PC
Breeding	21/04/2016	Tullynasheoy	4		Red Grouse	2	Flushed	Suitable breeding habitat	105960	229830	PC
Breeding	04/08/2016	Tullynasheoy	4	12:20:00	Red Grouse	1		Flushed, calling. Flew W over patch of reeds, landed out of view. Flight band 1.	106506	229483	JOS
Breeding	24/08/2016	Lough Canagun	5	12:00:00	Red Grouse	1		Calling. Flew S, band 1, Landed in bog, in vegetation out of view.	105554	229341	JOS
Breeding	24/08/2016	Lough More	6	11:50:00	Red Grouse	2		Flight band 1. Flew north, landed in bog calling.	107090	229098	JOS
Non-Breeding	16/11/2016	Lough Bealanambrack	14	11:48:00	Red Grouse	1		Flushed from bog on walk to lake	109579	230482	JOS
Non-Breeding	05/01/2017	Lough Bealanambrack	14	12:50:00	Red Grouse	2		Flushed from bog, lift, calling, fly east low, band 1. Land on bog out of view.	109579	230482	JOS
Both	22/03/2017	Unnamed Lough (Letterfir bog)	10	11:45:00	Red grouse	2		Call, fly over bog, band 1, land out of view on bog.			JOS








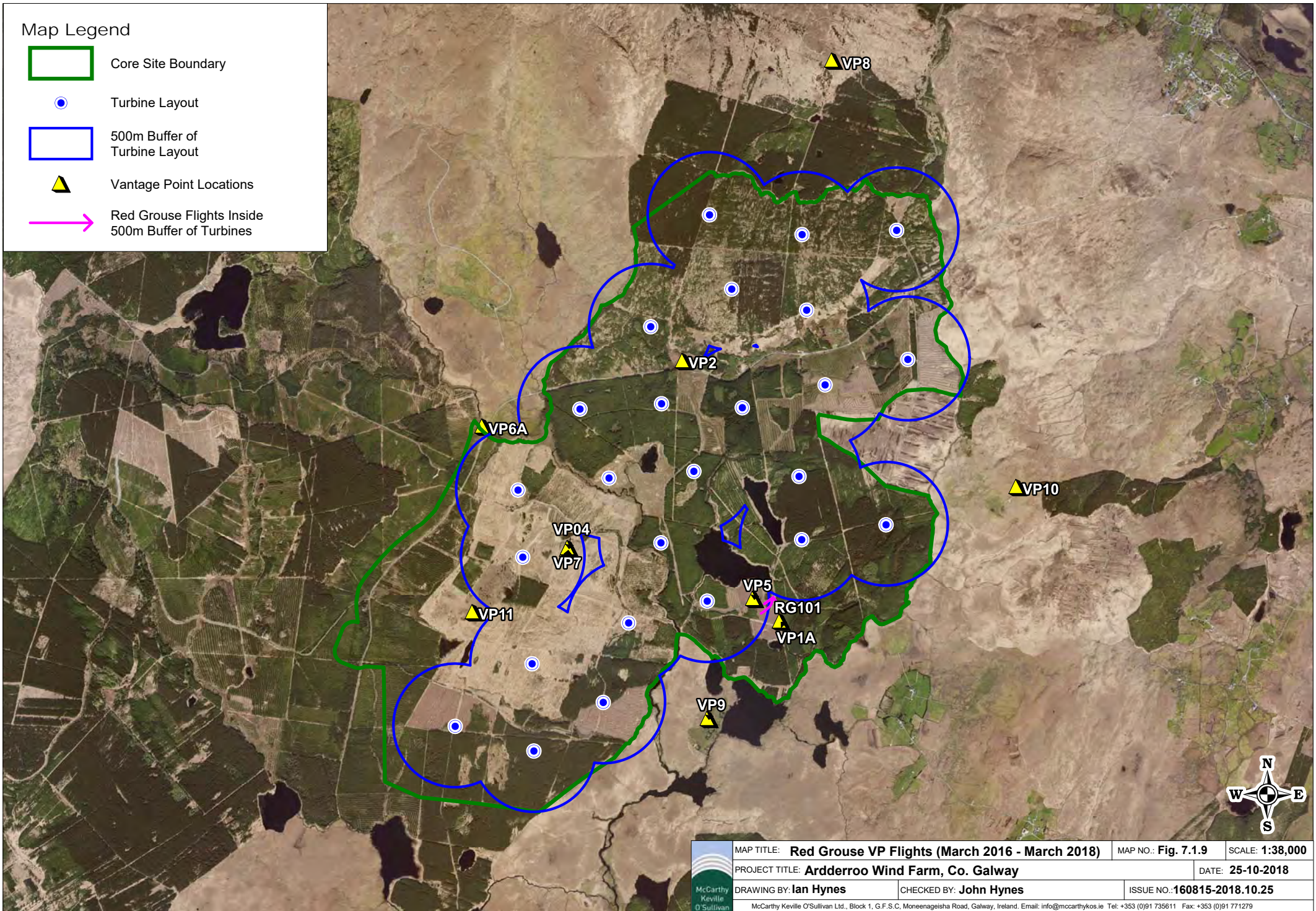
**Table 11: Red Grouse Survey Data**

Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
12/07/2017	Breeding Raptor Survey	Raptor section 3	Red Grouse	1	PB, (Bogs) Flies north low over bog.	JOS
17/07/2017	Breeding Raptor Survey	Raptor section 1	Red Grouse	1	PB, (Bogs) Calling east of vp. No visual.	JOS
20/02/2018	HH Roost Survey	HHVP4	Red Grouse	1	Calling	JC
23/02/2018	White Tailed Eagle Survey	WEVP2	Red Grouse	2	PB, (Bogs) Flushed on way out	JC




Map Legend


-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Red Grouse Flights Inside 500m Buffer of Turbines



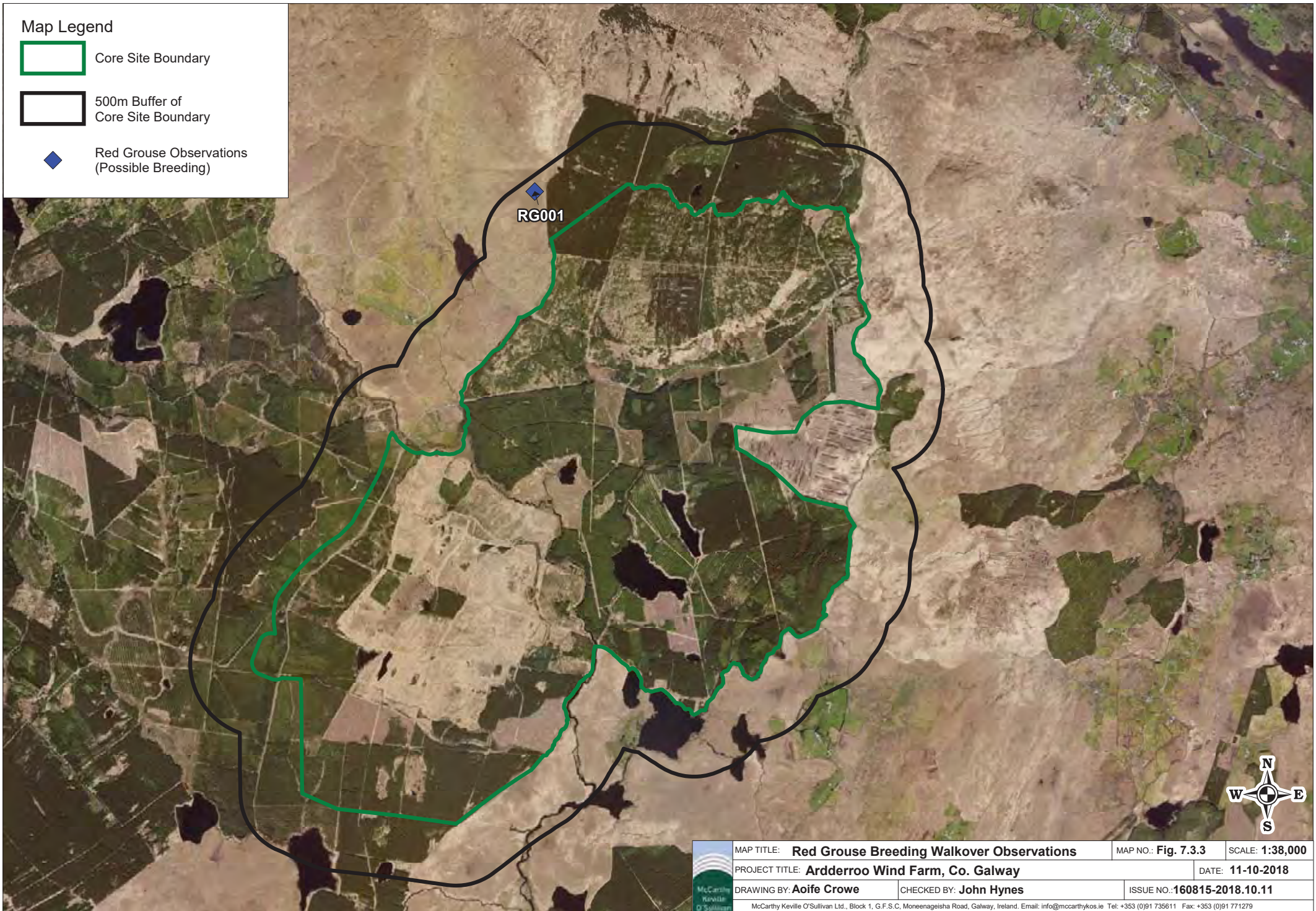


Map Legend

 Core Site Boundary

 500m Buffer of Core Site Boundary





 Red Grouse Observations (Possible Breeding)

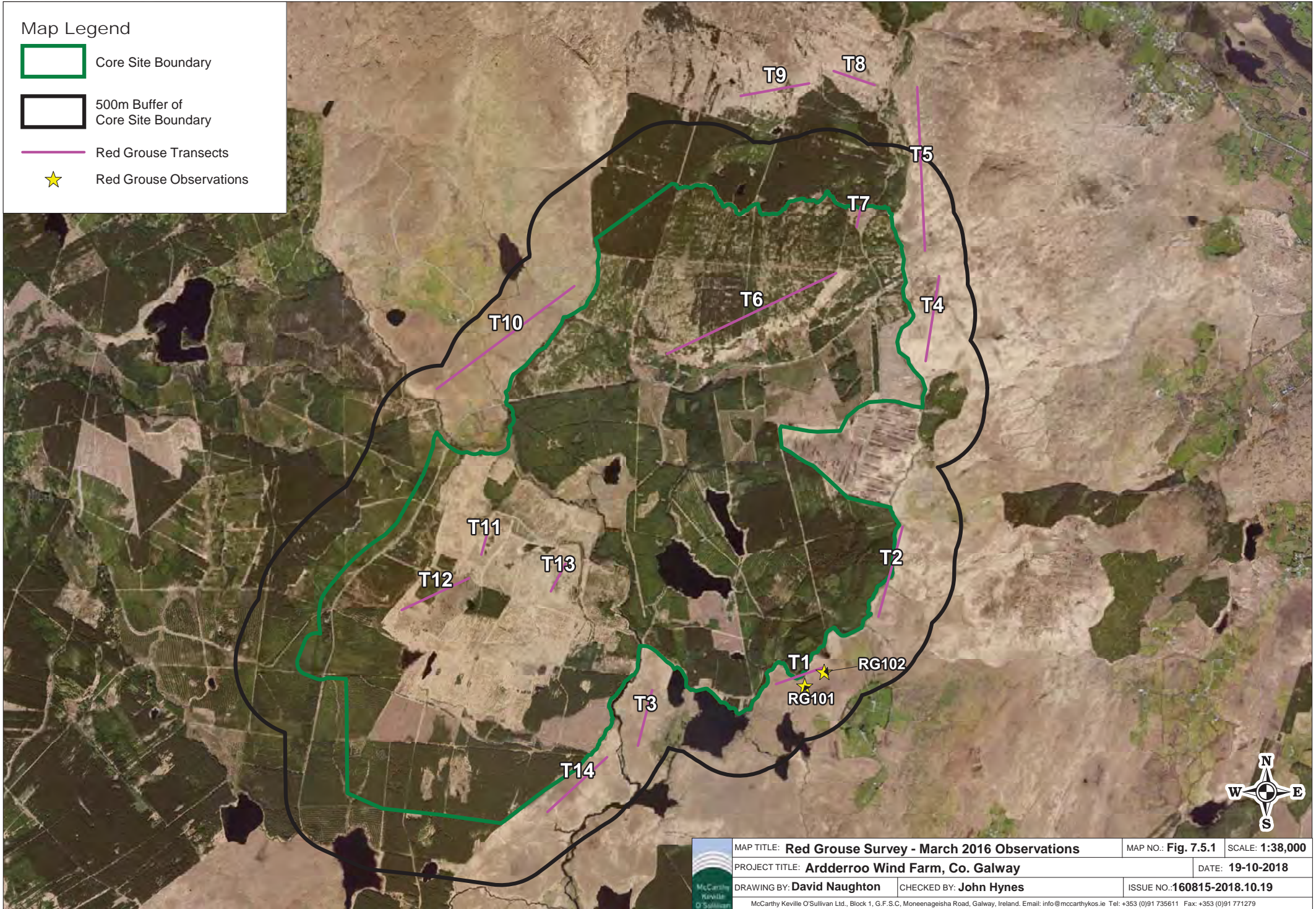



	MAP TITLE: <b>Red Grouse Breeding Walkover Observations</b>	MAP NO.: <b>Fig. 7.3.3</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, Co. Galway</b>	DATE: <b>11-10-2018</b>	
	DRAWING BY: <b>Aoife Crowe</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.11</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



Map Legend

-  Core Site Boundary
-  500m Buffer of Core Site Boundary
-  Red Grouse Transects
-  Red Grouse Observations



	MAP TITLE: <b>Red Grouse Survey - March 2016 Observations</b>	MAP NO.: <b>Fig. 7.5.1</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, Co. Galway</b>	DATE: <b>19-10-2018</b>	
	DRAWING BY: <b>David Naughton</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.19</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenagelsha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



**Table 12: Woodcock Survey Data**

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
WK103	28/10/2016	4	Woodcock	1	08:01:00	15	15				WD4, (Conifer plantation) HH3, (Wet heath) In flight		HH
WK106	16/11/2017	5	Woodcock	2	17:25:00	13	13				WD4, (Conifer plantation)	F. Up from ground.	CP

**Table 12: Woodcock Survey Data**

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
WK104	10/03/2017	6A	Woodcock	1	06:20:00	5	5				Mixed broadleaved/conifer woodland WD4, (Conifer plantation) PB2, (Upland blanket bog) Displaying	Roding	AOD
WK105	10/03/2017	6A	Woodcock	1	06:25:00	5	5				Mixed broadleaved/conifer woodland WD4, (Conifer plantation) PB2, (Upland blanket bog) Displaying	Roding	AOD

**Table 12: Woodcock Survey Data**

Winter Walkover Surveys									
Survey Date	VP/Trans/Quad No.	Time of observation	BTO code	Species	No. of Birds	Target Sp. (Y/N)	Sex/age	Habitat and Activity	Surveyor
01/11/2016	3		WC	Woodcock	1	Y	1-5M	WS5, (Recently-felled woodland) Calling	JOS
01/12/2017	15		WK	Woodcock	1	Y		Flushed.	CP

**Table 12: Woodcock Survey Data**







Incidental Records during Wetland and Waterbird Counts											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-breeding	20/03/2018	Unnamed Lough	40		Woodcock	1	Feeding	Terrestrial			PM

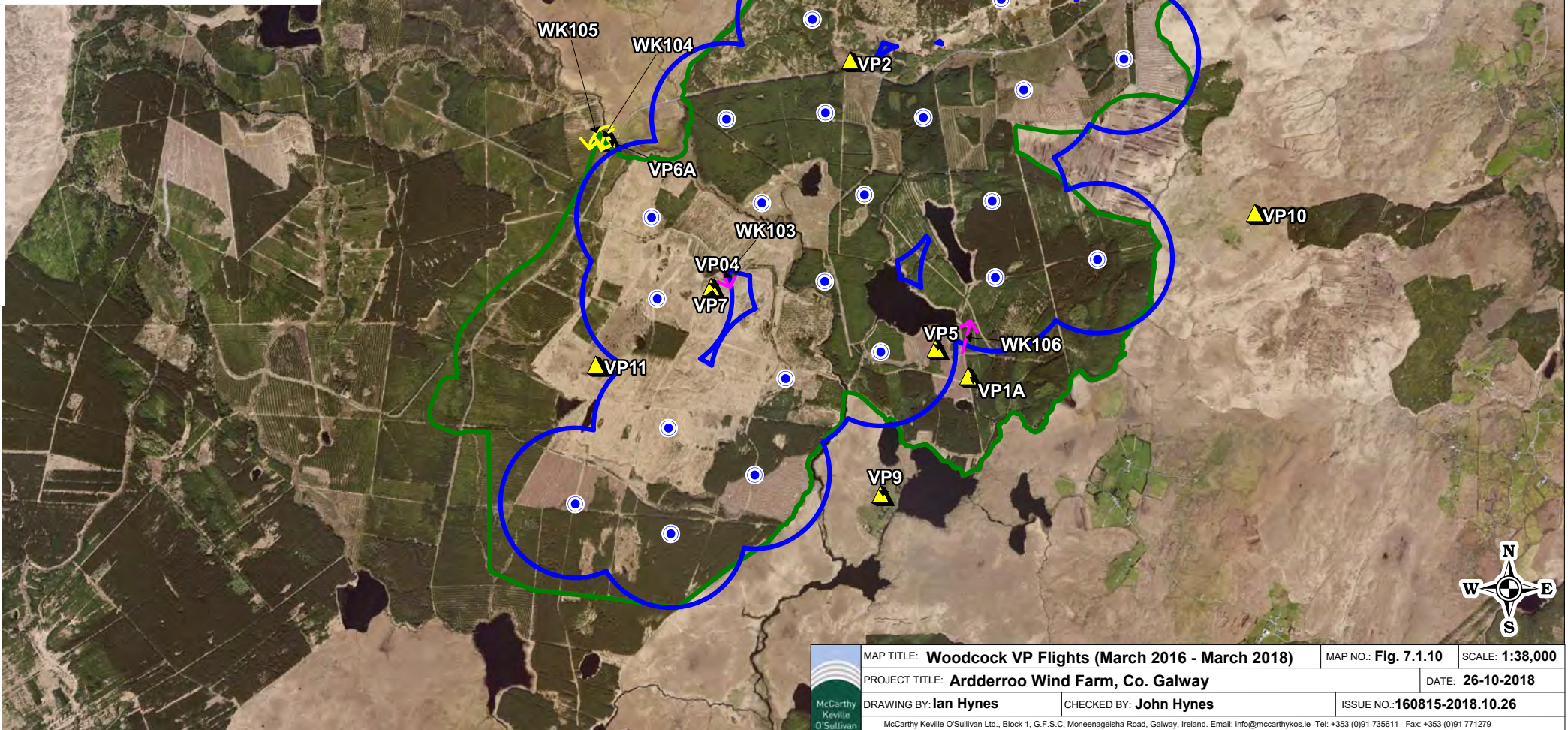
**Table 12: Woodcock Survey Data**


Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
19/02/2018	Vantage Point Survey	VP7	Woodcock	3	Seen on way into VP	CP



### Map Legend

-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Woodcock Flights Inside 500m Buffer of Turbines
-  Woodcock Flights Outside 500m Buffer of Turbines



	MAP TITLE: <b>Woodcock VP Flights (March 2016 - March 2018)</b>	MAP NO.: <b>Fig. 7.1.10</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, Co. Galway</b>	DATE: <b>26-10-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.26</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



**Table 13: Black-headed Gull Survey Data**

Breeding Walkover Surveys										
Map Ref.	Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity		Breeding Status	Surveyor
	12/05/2016	N section			Black-headed Gull		PB, (Bogs)	Commuting	Flying over; Non-breeding	PC

**Table 13: Black-headed Gull Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Breeding	27&28/04/2016	Loughanillaunmore	17		Black-headed Gull	2			110700	229420	PC
Non-breeding	21/03/2018	Knocka Lough	29		Black-headed Gull	3	Roosting	Above Water			PM
Non-breeding	21/02/2018	Lough Sliabh an Aonaigh	32		Black-headed Gull	2	Roosting	Above Water			PM
Breeding	20/04/2016	Ross Lake	49		Black-headed Gull	9	Foraging	Suitable breeding habitat	119430	236490	PC
Breeding	08/09/2016	Ross Lake	49	12:18:00	Black-headed Gull	3		Perched on rocks.	119430	236490	JOS
Non-Breeding	05/10/2016	Ross Lake	49	09:43:00	Black-headed Gull	1		Perched on rock on shore.	119430	236490	JOS
Non-Breeding	09/02/2017	Ross Lake	49	11:17:00	Black-headed Gull	21	Roosting	Perched on grass and rocks.	119430	236490	JOS
Both	08/03/2017	Ross Lake	49	12:12:00	Black-headed Gull	5	Feeding	in flight, land on rocks			JOS
Breeding	03/05/2017	Ross Lake	49		Black-headed Gull	2	In flight	Lake			JOS
Breeding	03/05/2017	Ross Lake	49		Black-headed Gull	5	Roosting	Lake			JOS

**Table 13: Black-headed Gull Survey Data**

Wetland & Waterbird Survey Data											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-breeding	12/01/2018	Ross Lake	49		Black-headed Gull	5	Roosting	Above Water			PM
Non-breeding	08/02/2018	Ross Lake	49		Black-headed Gull	7	Roosting	Terrestrial			PM
Non-breeding	22/02/2018	Ross Lake	49		Black-headed Gull	40	Roosting	Above Water			PM
Non-breeding	20/03/2018	Ross Lake	49		Black-headed Gull	13	Roosting	On Water			PM
Breeding	27&28/04/2016	Ross Lake	49		Black-headed Gull	7			119430	236490	PC
Non-breeding	20/03/2018	Knockaffrin Lough	55		Black-headed Gull	14	Roosting	Terrestrial			PM

**Table 13: Black-headed Gull**

Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
12/04/2016	Vantage Point Survey	5	Black-headed Gull	5	Unidentifiable - fly over VP site high - 150m+ - obscured by clouds and mist. Lileky BH.	SD
06/04/2017	White-tailed Eagle Survey	WEVP5	Black-headed Gull	45	Lake In flight, over lake throughout survey.	JOS
14/02/2018	White-tailed Eagle Survey	WEVP5	Black-headed Gull	9	FW, (Watercourses) On lake	JC

**Table 14: Herring Gull Survey Data**

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
HG102	09/02/2017	11	Herring Gull	1	12:30:00	140		140			WD4, (Conifer plantation) PB2, (Upland blanket bog) Travelling		AOD

**Table 14: Herring Gull Survey Data**

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
HG101	18/03/2016	9	Herring Gull	1	10:17:00	65			65		Lakes and ponds (Offsite) Likely herring gull, mobbing and calling at SH from lake N of VP. Chases SH behind VP 50m.		SD

**Table 14: Herring Gull Survey Data**

Breeding Walkover Surveys									
Map Ref.	Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
HG001	18/04/2016	Section 1			Herring Gull		PB, (Bogs) Commuting	Recently fledged young/downy young; Confirmed breeding	PC



**Table 14: Herring Gull Survey Data**







Wetland and Waterbird Counts											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Breeding	18/04/2017	Boliska Lough	23		Herring Gull	2		Lake			JOS
Breeding	27&28/04/2016	Boliska Lough	23		Herring Gull	2			110456	226780	PC
Non-breeding	02/11/2017	Ross Lake	49		Herring Gull	7	Roosting	Above water			JOS

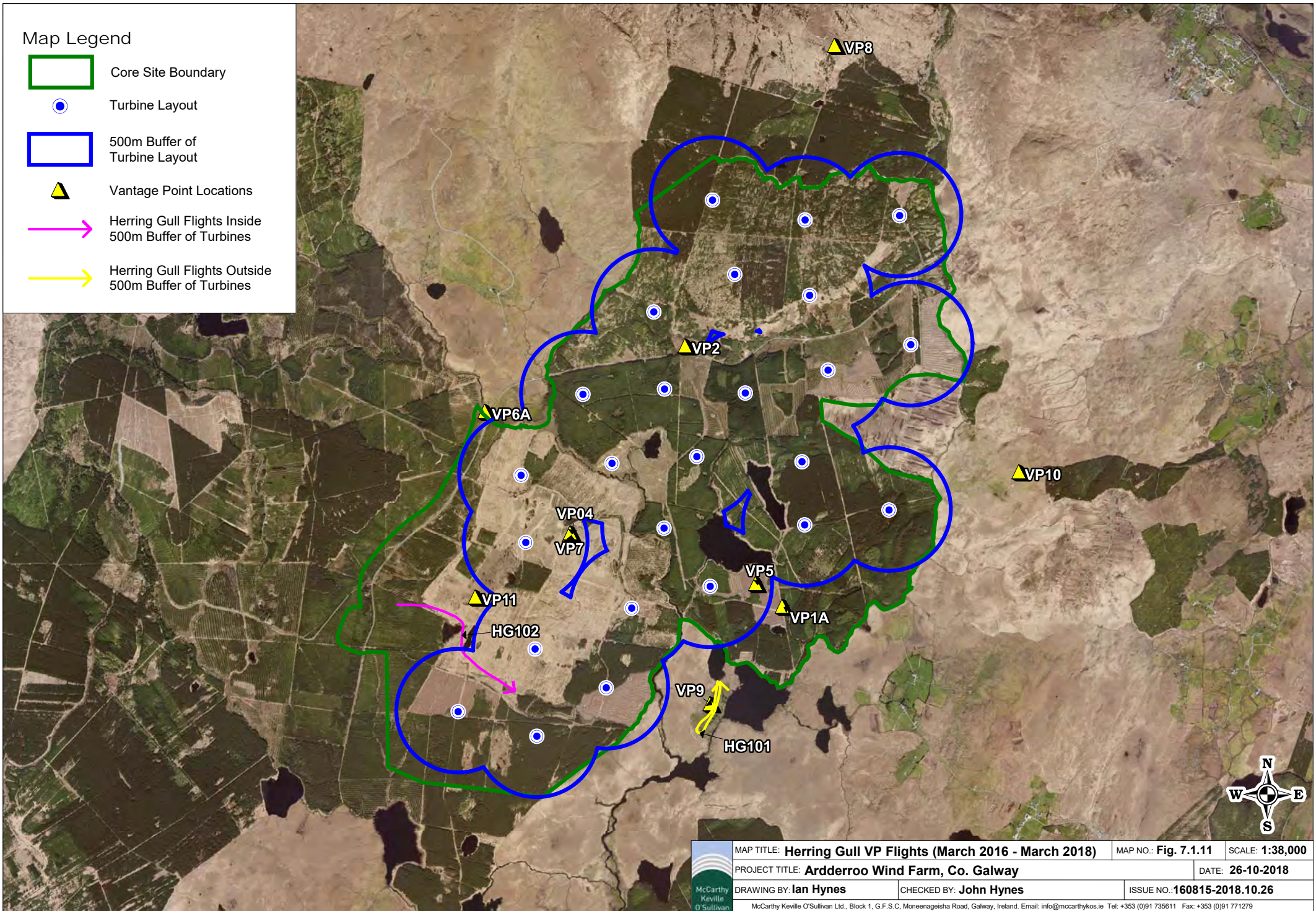
**Table 14: Herring Gull Survey Data**


Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
30/08/2016	White-tailed Eagle Survey	WEVP5	Herring Gull			SM
01/03/2017	White-tailed Eagle Survey	WEVP3	Herring Gull	1	Perched on rock in lough Boliska.	JOS



Map Legend

-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Herring Gull Flights Inside 500m Buffer of Turbines
-  Herring Gull Flights Outside 500m Buffer of Turbines



	MAP TITLE: <b>Herring Gull VP Flights (March 2016 - March 2018)</b>	MAP NO.: <b>Fig. 7.1.11</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Arderroo Wind Farm, Co. Galway</b>		DATE: <b>26-10-2018</b>
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.26</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



**Table 15: Lapwing Survey Data**

Wetland and Waterbird Counts											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-Breeding	17/01/2017	Ross Lake	49	12:34:00	Lapwing	34	Roosting	Fly. Perch on grassland and rocks.	119430	236490	JOS
Non-Breeding	09/02/2017	Ross Lake	49	11:17:00	Lapwing	7	Roosting	Roosting on grass.	119430	236490	JOS
Non-breeding	05/12/2017	Ross Lake	49		Lapwing	3	Roosting	Roosting on lakeshore wet grassland			JOS

**Table 15: Lapwing Survey Data**

Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
06/04/2017	White Tailed Eagle Survey	WEVP5	Lapwing	2	Wet grassland Roosting in grassland	JOS
14/02/2018	White Tailed Eagle Survey	WEVP5	Lapwing	64	GS4, (Wet grassland) PB, (Bogs) Circling	JC



**Table 16: Goldeneye Survey Data**

Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
03/01/2017	White Tailed Eagle Survey	WEVP5	Goldeneye	30	On water	AOD

**Table 17: Wigeon Survey Data**

Wetland and Waterbird Counts											
Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-Breeding	14/12/2016	Lough Poll	25	13:19:00	Wigeon	1	Feeding	Male, feeding.	113583	229078	JOS
Non-breeding	30/01/2018	Boliska Lough	23		Wigeon	25	Feeding	On Water			PM
Non-breeding	20/03/2018	Seecon Lough	71		Wigeon	4	Feeding	On Water			PM
Non-breeding	21/03/2018	Unnamed Lough	19		Wigeon	3	Feeding	On Water			PM

**Table 17: Wigeon Survey Data**

Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
06/04/2017	White Tailed Eagle Survey	WEVP5	Wigeon	2	Lake on lake, feeding	JOS

**Table 18: Common Scoter Survey Data**

Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
06/04/2017	White Tailed Eagle Survey	WEVP5	Common Scoter	4	Lake on lake, feeding	JOS




**Table 19: Tufted Duck Survey Results**


Breeding Walkover Surveys									
Map Ref.	Survey Date	Section	VP/Trans/ Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
TU001	20/04/2017	Section 2			Tufted Duck	2	Lake		JOS


**Table 19: Tufted Duck Survey Results**

Incidental Records						
Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
03/01/2017	White Tailed Eagle Survey	WEVP5	Tufted duck	18	On water	AOD
06/04/2017	White Tailed Eagle Survey	WEVP5	Tufted Duck	5	Lake on lake, feeding	JOS

Map Legend

 Core Site Boundary

 500m Buffer of Core Site Boundary

 Tufted Duck Observations (Probable Breeding)



	MAP TITLE: <b>Tufted Duck Breeding Walkover Observations</b>	MAP NO.: <b>Fig. 7.3.4</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, Co. Galway</b>	DATE: <b>11-10-2018</b>	
	DRAWING BY: <b>Aoife Crowe</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.11</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		

**Table 20: Kestrel Survey Data**

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K105	15/03/2016	10	Kestrel	1	12:04:00	120	60	15	30	15	Lowland blanket bog Hovering over bog (15-20m), then drops down , flies low over bog (less than 2m) and hovers again at 20-30m before dropping out of view into blind spot.		SD
K106	22/03/2016	1a	Kestrel	1	10:34:00	60			60		Conifer plantation 60m for 45s then descends to 40m (60s overall). Comes over conifers from East. Hunting over newly planted forest hovering then behind trees out of view.		SD
K107	22/03/2016	1a	Kestrel	1	11:44:00	20			20		Immature woodland/Conifer plantation Commuting, not hunting 30-40m. Flies West to East over newly planted forest and over mature conifers to the East, out of view.		SD
K108	07/04/2016	9	Kestrel	1	14:31:00	20		20			Lowland blanket bog Flies over bog in from of VP, heading N to S. outside study area. Recorded 20s in total at 10-15m commuting.		SD
K112	21/04/2016	4	Kestrel	1	08:58:00	15	10	5			Lowland blanket bog/Treelines Flies past VP from S, low approx 7-8m, and skims treeslands		SD



Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
											on bog next to pond, out of view.		
K114	17/05/2016	10	Kestrel	1	19:07:00	100	10	30	60		Lowland blanket bog/Conifer plantation Kestrel was observed hunting and caught prey		SM
K116	19/05/2016	9	Kestrel	1	13:04:00	100	15	30	55		Lowland blanket bog/Conifer plantation Hunting over bogland. Caught prey.		SM
K117	20/05/2016	9	Kestrel	1	06:43:00	120		30	90		Lowland blanket bog/Conifer plantation Hunting over bogland in general area		SM
K118	26/05/2016	10	Kestrel	1	18:14:00	180	15	40	125		Lowland blanket bog/Conifer plantation Kestrel observed hunting from VP10 on previous occasions.		SM
K119	31/05/2016	10	Kestrel	1	09:27:00	50			50		Lowland blanket bog/Conifer plantation Frequently observed kestrel hunting to the north of VP10		SM
K120	31/05/2016	10	Kestrel	1	14:01:00	120	30	50	40		Lowland blanket bog/Conifer plantation Frequently observed kestrel hunting to the north of VP10. Caught prey		SM
K121	15/06/2016	5	Kestrel	1	10:25:00	60			60		WS5, (Recently-felled woodland) Hovering over clearfell area to the NW of the VP		SM

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K122	16/06/2016	10	Kestrel	1	07:57:00	200	20	100	80		PB2, (Upland blanket bog) Hunting. Likley the same bird that was observed during May VPs.		SM
K123	16/06/2016	10	Kestrel	1	08:16:00	180	30	40	110		PB2, (Upland blanket bog) Hunting. Likley the same bird as observation 2		SM
K124	16/06/2016	10	Kestrel	1	10:05:00	300	60	240	200		PB2, (Upland blanket bog) Likely to be same bird as observations 2 & 3		SM
K125	24/06/2016	6A	Kestrel	1	10:01:00	100	15	85			GS1, (Dry calcareous grassland and neutral grassland) WS1, (Scrub/transitional woodland) Observed hunting over scrub/clearfell to the south of the VP		SM
K126	26/06/2016	11	Kestrel	1	16:49:00	120	20	80	20		WD4, (Conifer plantation) PB2, (Upland blanket bog) *Skylark and Meadow pipit abundant around the bog at VP11		SM
K127	26/06/2016	11	Kestrel	1	19:45:00	180		90	90		WD4, (Conifer plantation) PB2, (Upland blanket bog) Likely to be same bird as observation 2. Hunting along conifer edge		SM
K128	28/06/2016	7	Kestrel	1	12:39:00	300	60	200	40		WS4, (Short rotation coppice) Hovering and swooping to the ground.		SM
K129	28/06/2016	7	Kestrel	1	18:25:00	120		100	20		WS4, (Short rotation coppice) Likely the same bird as observation 1		SM

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K130	29/06/2016	4	Kestrel	1	15:25:00	180	40	100	40		WD4, (Conifer plantation) FL (Lakes and Ponds)		SM
K131	29/06/2016	4	Kestrel	1	15:41:00	60	10	50			WS4, (Short rotation coppice) Likely the same bird as observation 4		SM
K132	13/07/2016	10	Kestrel	1	07:21:00	180	20	140	40		PB2, (Upland blanket bog)		SM
K133	13/07/2016	10	Kestrel	1	07:36:00	140		100	40		PB2, (Upland blanket bog)		SM
K134	13/07/2016	10	Kestrel	1	07:59:00	240	40	150	50		PB2, (Upland blanket bog)		SM
K135	13/07/2016	10	Kestrel	1	10:59:00	200	30	100	30		WD4, (Conifer plantation)		SM
K136	13/07/2016	10	Kestrel	1	11:31:00	150		40	110		PB2, (Upland blanket bog)		SM
K137	14/07/2016	9	Kestrel	1	08:13:00	120		120			WS5, (Recently-felled woodland) WD4, (Conifer plantation)		SM
K138	14/07/2016	9	Kestrel	1	10:01:00	210		100	110		WD4, (Conifer plantation) PB2, (Upland blanket bog)		SM
K139	14/07/2016	9	Kestrel	1	10:08:00	60			60		WD4, (Conifer plantation) PB2, (Upland blanket bog)		SM
K143	21/07/2016	4	Kestrel	1	12:21:00	65		65			WS5, (Recently-felled woodland), WS2, (Immature woodland)		SM
K144	21/07/2016	4	Kestrel	1	12:43:00	110	15	50	45		WS5, (Recently-felled woodland), WS2, (Immature woodland)		SM
K145	21/07/2016	4	Kestrel	1	13:53:00	90		60	30		WS5, (Recently-felled woodland), WS2, (Immature woodland)		SM
K146	21/07/2016	4	Kestrel	1	16:01:00	115	20	60	35		WS5, (Recently-felled woodland), WS2, (Immature woodland)		SM
K147	21/07/2016	4	Kestrel	1	17:32:00	90		60	30		WS5, (Recently-felled woodland), WS2, (Immature woodland)		SM
K148	27/07/2016	7	Kestrel	1	12:23:00	100		100			WS5, (Recently-felled woodland)		SM



Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K149	27/07/2016	7	Kestrel	1	12:40:00	130	30	90	10		WS5, (Recently-felled woodland)		SM
K150	27/07/2016	7	Kestrel	1	13:16:00	200	40	100	60		WS5, (Recently-felled woodland)		SM
K151	27/07/2016	7	Kestrel	1	14:53:00	90		40	50		WS5, (Recently-felled woodland)		SM
K152	27/07/2016	7	Kestrel	1	16:27:00	80		15	65		WS5, (Recently-felled woodland)		SM
K153	27/07/2016	7	Kestrel	1	17:42:00	300	50	200	50		WS5, (Recently-felled woodland)		SM
K154	29/07/2016	6A	Kestrel	1	11:08:00	100	20	60	20				SM
K155	29/07/2016	6A	Kestrel	1	13:53:00	220	60	100	60				SM
K156	29/07/2016	6A	Kestrel	1	14:17:00	60		0	60				SM
K157	30/07/2016	11	Kestrel	1	13:28:00	90		30	60		WD4, (Conifer plantation)		SM
K158	30/07/2016	11	Kestrel	1	15:31:00	160	20	90	50		WD4, (Conifer plantation)		SM
K161	19/08/2016	9	Kestrel	1	08:11:00	50		50			WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K162	19/08/2016	9	Kestrel	1	08:30:00	90		20	70		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K163	19/08/2016	9	Kestrel	1	09:12:00	150	20	100	30		WD4, (Conifer plantation) WS5, (Recently-felled woodland) PB2, (Upland blanket bog)		SM
K164	19/08/2016	9	Kestrel	1	11:54:00	45		10	35		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K165	19/08/2016	9	Kestrel	1	13:21:00	60		60			WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K166	20/08/2016	11	Kestrel	1	12:19:00	150	20	100	30		WD4, (Conifer plantation) PB2, (Upland blanket bog)		SM
K167	20/08/2016	11	Kestrel	1	16:22:00	100		50	50		WD4, (Conifer plantation) PB2, (Upland blanket bog)		SM

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K168	23/08/2016	10	Kestrel	1	14:35:00	50		30	20		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K169	23/08/2016	10	Kestrel	1	14:41:00	100	10	60	30		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K170	23/08/2016	10	Kestrel	2	14:55:00	90			90		WD4, (Conifer plantation) WS5, (Recently-felled woodland) PB2, (Upland blanket bog)	Kestrel in observations 2 & 3 was joined by a second kestrel	SM
K171	23/08/2016	10	Kestrel	1	15:10:00	110		50	60		WD4, (Conifer plantation) PB2, (Upland blanket bog)		SM
K172	23/08/2016	10	Kestrel	1	16:26:00	90		40	50		PB2, (Upland blanket bog)		SM
K173	26/08/2016	1a	Kestrel	1	07:27:00	25		5	20		WD4, (Conifer plantation)		SM
K174	26/08/2016	1a	Kestrel	1	08:11:00	45		20	25		WD4, (Conifer plantation)		SM
K175	26/08/2016	1a	Kestrel	1	12:07:00	40		10	30		WD4, (Conifer plantation)		SM
K176	27/08/2016	4	Kestrel	1	08:11:00	60		30	30		WS5, (Recently-felled woodland)		SM
K177	27/08/2016	4	Kestrel	1	14:07:00	100			100		WD4, (Conifer plantation)		SM
K178	31/08/2016	6A	Kestrel	1	10:51:00	40		10	30		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K179	31/08/2016	6A	Kestrel	1	12:27:00	55			55		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K180	31/08/2016	6A	Kestrel	1	15:50:00	45			45		WD4, (Conifer plantation)		SM
K181	01/09/2016	7	Kestrel	1	07:18:00	30			30		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K182	01/09/2016	7	Kestrel	1	07:49:00	90		20	70		WS5, (Recently-felled woodland)		SM
K183	01/09/2016	7	Kestrel	1	09:43:00	130		30	100		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K184	01/09/2016	7	Kestrel	1	11:51:00	30	10	20			WS5, (Recently-felled woodland) PB2, (Upland blanket bog)		SM
K185	01/09/2016	7	Kestrel	1	12:43:00	45		20	25		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K186	18/09/2016	2	Kestrel	1	12:05:00	45			45		Coniferous woodland and scrub Hovering over immature forest to the south of VP2		SM
K187	20/09/2016	9	Kestrel	1	13:41:00	60		30	30		Coniferous forest and clearfell		SM
K188	20/09/2016	9	Kestrel	1	16:03:00	70		20	50		Coniferous forest, clearfell and blanket bog		SM
K189	20/09/2016	9	Kestrel	1	19:41:00	45		25	20		Coniferous forest, clearfell and blanket bog		SM
K190	21/09/2016	10	Kestrel	1	10:19:00	70	10	30	30		Coniferous forest, clearfell and blanket bog Hovering and stooped to ground to catch prey		SM
K192	01/10/2016	1a	Kestrel	1	15:03:00	60		30	30		Coniferous forest and clearfell Hunting over forest and clearfell		SM
K193	18/10/2016	5	Kestrel	1	14:38:00			120			WD4, (Conifer plantation) Hovering over conifers, drops down, lands on conifer then out of view into plantation.		JOS
K194	18/10/2016	5	Kestrel	1	14:44:00	30		30			WD4, (Conifer plantation) Flew briefly, perched on larch tree, then out of view into conifers		JOS



Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K195	18/10/2016	5	Kestrel	1	15:00:00	50	10	40			WD4, (Conifer plantation) Perched in conifer, lifts, flies W over bog and conifers into conifer plantation out of view.		JOS
K196	18/10/2016	5	Kestrel	1	15:08:00	240	240				WD4, (Conifer plantation) PB, (Bogs) Hovers over bog, band 1, briefly out of view behind conifers then lands on conifer tree for 4 minutes, lifts, hovers 20s, lands on nearby conifer, then into conifer canopy out of view.		JOS
K197	18/10/2016	5	Kestrel	1	15:20:00	360	10	350			WD4, (Conifer plantation) PB, (Bogs) WS5, (Recently-felled woodland) hovering over conifers, moving south west, then swoops down into clearfell/ young regenerating conifers, out of view.		JOS
K198	18/10/2016	5	Kestrel	1	15:34:00	280	90	210			WD4, (Conifer plantation) PB, (Bogs) Flew NE over VP, with another kestrel (ref. 8) band 1, then flew west over conifers, circled SE, flew low over young conifers north of vp, then into conifers out of view.		JOS
K199	18/10/2016	5	Kestrel	1	15:34:00	180	30	150			WD4, (Conifer plantation) With individual above (ref. 7), commuting over conifers, circled back		JOS

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
											south west into conifers out of view.		
K200	18/10/2016	7	Kestrel	1	13:50:00	60			60		PB4, (Cutover bog) WD4, (Conifer plantation) HH3, (Wet heath) In flight		HH
K201	18/10/2016	7	Kestrel	1	14:20:00	45		30	15		PB4, (Cutover bog) WD4, (Conifer plantation) HH3, (Wet heath) In flight		HH
K202	18/10/2016	7	Kestrel	1	14:37:00	45			45		PB4, (Cutover bog) WD4, (Conifer plantation) HH3, (Wet heath) In flight		HH
K203	18/10/2016	7	Kestrel	1	15:22:00	120	15	105			WD4, (Conifer plantation) PB4, (Cutover bog) HH3, (Wet heath) In flight		HH
K204	18/10/2016	7	Kestrel	1	16:03:00	15			15		WD4, (Conifer plantation) PB4, (Cutover bog) HH3, (Wet heath) In flight		HH
K205	18/10/2016	7	Kestrel	1	17:31:00	15			15		WD4, (Conifer plantation) PB4, (Cutover bog) HH3, (Wet heath) Perched and in flight		HH
K206	26/10/2016	6A	Kestrel	1	17:40:00	15					PB4, (Cutover bog) WD4, (Conifer plantation) HH3, (Wet heath) Perched and in flight	Adult male	HH
K207	26/10/2016	1a	Kestrel	1	18:49:00	20	20				WD4, (Conifer plantation) Flew along conifer treeline south - commuting then turned east and into conifers out of view.		JOS
K208	09/11/2016	2	Kestrel	1	15:34:00	30		5	25		WD4, (Conifer plantation) Commuting over conifers, then drops into canopy out of view.		JOS

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K209	09/11/2016	2	Kestrel	1	17:36:00	10	10				WD4, (Conifer plantation) HD1, (Dense bracken) Flew north over vp, into conifers.		JOS
K210	09/11/2016	10	Kestrel	1	11:52:00	109	20	10	79		WD4, (Conifer plantation) WS5, (Recently-felled woodland) PB2, (Upland blanket bog) K hunting along WD4 and WS5.		JH
K214	11/11/2016	6A	Kestrel	1	08:26:00	30	10	20			PB, (Bogs) WD4, (Conifer plantation) Hunting over conifers swoops down to band 1, 5s, then up to band 2 20s, then drops into conifers out of view.		JOS
K215	11/11/2016	6A	Kestrel	1	09:32:00	213	3	20	190		WD4, (Conifer plantation) Hovering, hunting over conifers then dropped down out of view.		JOS
K216	11/11/2016	6A	Kestrel	1	09:41:00	110	5	5	100		WD4, (Conifer plantation) PB, (Bogs) Band 3, hunting. Hovering over bog/conifers drops out of view, likely same individual as reference 6.		JOS
K217	11/11/2016	7	Kestrel	1	08:42:00	240	10	230			WD4, (Conifer plantation) PB2, (Upland blanket bog) K actively hunting over WD4 and PB2		JH
K218	11/11/2016	7	Kestrel	1	08:54:00	38	38				WD4, (Conifer plantation) PB2, (Upland blanket bog) K hunting.		JH
K219	11/11/2016	7	Kestrel	1	9:25	77	77				WD4, (Conifer plantation) K hunting.		JH



Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K220	11/11/2016	7	Kestrel	1	09:33:00	58		58			WD4, (Conifer plantation) PB2, (Upland blanket bog) K hunting		JH
K221	11/11/2016	7	Kestrel	1	12:20:00	187	27	160			PB2, (Upland blanket bog) WD4, (Conifer plantation) K passing over PB2 and hunting along WD4.		JH
K222	15/11/2016	4	Kestrel	1	11:53:00	40		3	37		WD4, (Conifer plantation) Hovering, band 3, drops into conifers, out of view.		JOS
K223	15/11/2016	4	Kestrel	1	12:44:00	27	3	4	20		PB, (Bogs) Hunting. Hovers band 3, then flies SW, then rapidly descends onto bog.		JOS
K224	15/11/2016	4	Kestrel	1	12:56:00	138			138		PB, (Bogs) WD4, (Conifer plantation) Hunting over bog. Flies NW hovers 30s, circles NE, hovers 20s, then flies NE out of view beyond conifer trees.		JOS
K225	15/11/2016	4	Kestrel	1	13:21:00	131	47	15	69		PB, (Bogs) WD4, (Conifer plantation) Flies SE low over bog, in between conifers, ands briefly on spruce tree, circles NW, up to band 3, hovers then drops down out of view.		JOS
K226	15/11/2016	4	Kestrel	1	13:52:00	37	32	5			PB, (Bogs) WD4, (Conifer plantation) Flew east to west in front of vp, in between spruce trees, low ~ 1m from ground, lands briefly on a spruce, then lifts, flies sw, swoops up to band 2, sits atop a spruce tree preening for		JOS

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
											955 seconds then flies sw out of view. Juvenile first winter male.		
K227	02/12/2016	11	Kestrel	1	13:43:00	5			5		WD4, (Conifer plantation) WS5, (Recently-felled woodland) FL1, (Dystrophic lakes) In flight	Juvenile male	HH
K228	02/12/2016	11	Kestrel	1	13:45:00	10			10		WD4, (Conifer plantation) WS5, (Recently-felled woodland) FL1, (Dystrophic lakes) In flight	Juvenile male	HH
K239	06/12/2016	1a	Kestrel	1	15:39:00	44			44		WD4, (Conifer plantation) WS5, (Recently-felled woodland) FL1, (Dystrophic lakes) Hunting	Unaged/unsexed	HH
K230	08/12/2016	6A	Kestrel	1	13:31:00	21	11	10			WD4, (Conifer plantation) Perched on conifer tree, flies along treeline (band 2, 5s), perches on conifer treetop for 470 seconds, lifts, flies S along treeline, band 2 10 seconds, perches on conifer top for 10 seconds then drops down out of view into conifer plantation.		JOS
K231	08/12/2016	7	Kestrel	1	11:22:00	158			158		WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) Hunting	Unaged/unsexed	HH
K232	08/12/2016	7	Kestrel	1	12:53:00	446		36	410		WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) In flight	Unaged/unsexed	HH

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K233	08/12/2016	7	Kestrel	1	13:27:00	105	15	90			WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) Travelling	Juvenile male	HH
K234	08/12/2016	7	Kestrel	1	13:32:00	5	5				WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) Hunting	Juvenile male	HH
K235	08/12/2016	7	Kestrel	1	13:44:00	13	3	10			WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) Travelling	Juvenile male	HH
K238	06/03/2017	10	Kestrel	1	14:47:00	20			20		PB2, (Upland blanket bog) Hunitng	Female	AOD
K239	06/03/2017	10	Kestrel	1	15:00:00	30	15	15			PB2, (Upland blanket bog) WD4, (Conifer plantation) Hunitng	Female	AOD
K237	06/03/2017	10	Kestrel	1	14:40:00	90			60	30	PB2, (Upland blanket bog) WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Hunitng	Female	AOD
K240	14/03/2017	4	Kestrel	1	13:47:00	299			299		Bog, conifers	In flight over bog and conifers, from turbines on ugoal to lake. Band 3, hovering, goes out of view.	JOS
K241	14/03/2017	4	Kestrel	1	14:25:00	15		2	13		Bog, conifers	Hunting over track, band 3, drops down out of view, 2s band 2.	JOS
K242	14/03/2017	4	Kestrel	1	14:36:00	5			5		Conifers	Soaring, band 3, 5 sec, out of view over conifers.	JOS



Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K243	10/04/2017	5	Kestrel	1	17:10:00	106		16	90		Conifers Commuting NW, band 3 over lake, veers south west over conifers, descends to band 2, 16s out of view into canopy.		JOS
K244	11/04/2017	1a	Kestrel	1	19:57:00	28			28		WD4, (Conifer plantation) PB2, (Upland blanket bog) Flew W along conifer / bog margin. Turned North along conifer / bog margin. Disappeared behind conifers		DMCG
K245	11/04/2017	1a	Kestrel	1	20:06:00	113			12	101	WD4, (Conifer plantation) PB2, (Upland blanket bog) PB4, (Cutover bog) K. Hunting. Hovered at first. Flew a short distance, hovered. Repeated approximately 3 times. Finally dove out of site.		DMCG
K246	11/04/2017	1a	Kestrel	1	20:19:00	46			46		PB4, (Cutover bog) WD4, (Conifer plantation) K. Hunting. Hovered North of VP1a, then flew off North, over conifers.		DMCG
K247	11/04/2017	9	Kestrel	1	17:54:00	162		111	51		Conifers Commuting NW over conifers, band 2, ascends to band 3, hovers, swoops down into canopy.		JOS
K248	26/04/2017	4	Kestrel	1	17:32:00	8			8		PB2, (Upland blanket bog) WD4, (Conifer plantation) flew south. Disappeared behind conifers		DMCG

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K251	15/05/2017	4	Kestrel	1	16:58:00	49	3	46			PB3, (Lowland blanket bog) WD4, (Conifer plantation) Hunting. Dove out of sight.		DMCG
K252	07/06/2017	7	Kestrel	1	11:40:00	9	9						JOS
K254	14/06/2017	6A	Kestrel	1	11:51:00	21			21		Travelling. Flew North West.		DMCG
K255	03/07/2017	1a	Kestrel	1	15:35:00	12	612						JOS
K256	04/07/2017	2	Kestrel	1	10:53:00	33			33		Flew East		DMcG
K258	07/07/2017	9	Kestrel	1	12:33:00	51		51			WD4, (Conifer plantation) PB4, (Cutover bog) Flies N over bog, veers NE, hovers over bog, 40s, flies NE out of view.		JOS
K259	07/07/2017	9	Kestrel	1	13:00:00	29	1	1	27		PB, (Bogs) Hunting over bog, drops down.		JOS
K260	07/07/2017	9	Kestrel	1	13:01:00	35	33	2			PB, (Bogs) WD4, (Conifer plantation) Individual above, lifts from bog, flies SW out of view into conifer canopy, (band 3, 2s)		JOS
K261	10/07/2017	10	Kestrel	1	11:26:00	46		12	34		PB, (Bogs) WD4, (Conifer plantation) Commuting north, band 3, veers east, drops to band 2, out of view into conifer canopy.		JOS
K263	10/08/2017	10	Kestrel	1	06:29:00	23			23		Flew North/West		DMcG
K264	10/08/2017	10	Kestrel	1	07:11:00	17			17		Flew South		DMcG
K265	16/08/2017	9	Kestrel	1	10:42:00	93	2	21	70		PB, (Bogs) Hunting. Hovering over bog.		JOS
K266	16/08/2017	9	Kestrel	1	10:48:00	111	9	102			PB, (Bogs) WD4, (Conifer plantation) Commuting over bog. Hunts, hovering then drops into conifer canopy out of view.		JOS

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K267	18/08/2017	6A	Kestrel	1	06:47:00	7	7				Conifer Commuting. Goes out of view into canopy.		JOS
K268	18/08/2017	6A	Kestrel	1	06:48:00	33	3	6	24		Bog Hunting, hovers, flies north over buildings, drops down.		JOS
K269	13/09/2017	9	Kestrel	1	15:11:00	32	32				Bog/conifer Commuting. Flies into conifer canopy out of view.		JOS
K270	14/09/2017	7	Kestrel	1	16:03:00	70	10	63	7		Bog/conifer Commuting over bog NW, band 2 drops down to band 1, then up to band 3, flies west into conifer canopy out of view (band 2).		JOS
K272	30/09/2017	1a	Kestrel	1	12:21:00	6	6						JOS
K275	11/10/2017	10	Kestrel	1	15:23:00	23		23			Bog/conifer Flies out of view into conifers, hunting.		JOS
K278	08/11/2017	9	Kestrel	1	12:00:00	80			80		FL1, (Dystrophic lakes) Travelling, Hunting		Sean Ronayne
K279	22/12/2017	10	Kestrel	1	10:01:00	50			50			Individual hunting and hovering over conifer forest edge	S. Meehan
K280	07/01/2018	6A	Kestrel	1	09:48:00	60		60				Hunting and hovering	S. Meehan
K281	11/01/2018	2	Kestrel	1	11:15:00	11		11			WD4, (Conifer plantation) Travelling		PM
K282	11/01/2018	2	Kestrel	1	11:21:00	20		20			WD4, (Conifer plantation) Travelling		PM
K283	11/01/2018	2	Kestrel	1	11:51:00	12		12			WD4, (Conifer plantation) Travelling		PM
K284	11/01/2018	2	Kestrel	1	11:54:00	24		24			WD4, (Conifer plantation) Travelling		PM
K285	11/01/2018	2	Kestrel	1	12:15:00	43			43		WD4, (Conifer plantation) Travelling		PM

Vantage Point Surveys (Flight Data Inside 500 Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K286	14/01/2018	1A	Kestrel	1	16:29:00	20		20			WD4, (Conifer plantation) Female	F; D/W.	CP
K287	19/01/2018	10	Kestrel	1	13:15:00	27	27				WD4, (Conifer plantation) PB4, (Cutover bog) Female, hovering, hunting.	F/hover.	CP
K288	19/01/2018	6A	Kestrel	1	11:42:00	145			145		PB2, (Upland blanket bog) WD4, (Conifer plantation) Hunting		PM

**Table 20: Kestrel Survey Data**

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K101	14/03/2016	8	Kestrel	1	13:09:00	90	30	60			Not specified Hunting around hill, initially below 10m then flies over, drops to approx. 50m.		SD
K102	14/03/2016	8	Kestrel	1	13:11:00	40	15	15	10		Not specified Same individual returns to east of hill, hovering up to 100m.		SD
K103	14/03/2016	8	Kestrel	1	13:11:00	30		15	15		Lowland blanket bog Second K. rises from S of hill and glides from 10- 50m high (2 Birds).		SD



Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K104	14/03/2016	8	Kestrel	1	14:24:00	180	45	30	90		Lowland blanket bog Hunting over bog around SE of hill. Initially over 100m, then reaches foothill. And only 40-50m high. Dives twice.		SD
K110	19/04/2016	8	Kestrel	1	11:03:00	30		10	20		Not specified A=10s, B=20s. Flying E to W and out of view. Height of 35m, descending to 10m.		SD
K111	19/04/2016	8	Kestrel	1	12:40:00	10			10		Not specified 70-100m. Hunting, hovering, moving W to E, SW of VP.		SD
K109	19/04/2016	8	Kestrel	1	12:42:00	60			60		Not specified Approx 40m, male - hunting and hovering on south slope of hill until out of view.		SD
K113	27/04/2016	1a	Kestrel	1	20:07:00	5			5		Conifer plantation 30-35m commuting (not hunting) W to E over conifers.		SD
K115	18/05/2016	8	Kestrel	1	10:14:00	45		10	35		Lowland blanket bog/Conifer plantation Hunting		SM
K140	20/07/2016	8	Kestrel	1	10:18:00	60			60		WD4, (Conifer plantation) PB2, (Upland blanket bog)		SM
K141	20/07/2016	8	Kestrel	1	10:27:00	130		40	90		WD4, (Conifer plantation) PB2, (Upland blanket bog)		SM

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K142	20/07/2016	8	Kestrel	1	12:07:00	120		60	60		WD4, (Conifer plantation) PB2, (Upland blanket bog)		SM
K159	18/08/2016	8	Kestrel	1	10:16:00	30			30		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K160	18/08/2016	8	Kestrel	1	10:41:00	100		50	50		WD4, (Conifer plantation) WS5, (Recently-felled woodland)		SM
K191	22/09/2016	8	Kestrel	1	07:13:00	45		30	15		Coniferous forest and clearfell Hunting over immature forest and clearfell		SM
K212	09/11/2016	10	Kestrel	1	14:14:00	30		30			PB2, (Upland blanket bog) Passing through		JH
K211	09/11/2016	10	Kestrel	1	12:11:00	41	10	10	21		WD4, (Conifer plantation) PB2, (Upland blanket bog) K hunting over PB2		JH
K213	10/11/2016	9	Kestrel	1	12:21:00	80	30	50			PB2, (Upland blanket bog) K flew along PB2 in hunting flight.		JH
K236	02/02/2017	10	Kestrel	1	12:10:00	90	60	30			PB2, (Upland blanket bog) Hunting	Female hanging on wind, hovering and scanning ground below	AOD

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K249	02/05/2017	8	Kestrel	1	20:56:00	47			47		PB3, (Lowland blanket bog) Flew with K. Observational Number 3 and calling around pine tree, and then off over bog. Disappeared behind hill	April Surveys	DMCG
K250	02/05/2017	8	Kestrel	1	20:56:00	6			6		PB3, (Lowland blanket bog) Flew with K. Observational Number 2 and calling around pine tree. Flew North	April Surveys	DMCG
K253	12/06/2017	10	Kestrel	1	16:02:00	103			103		Hunting. Hovering then travelled. Repeated 3x, then flew out of sight.		DMCG
K257	07/07/2017	9	Kestrel	1	12:17:00	27		27			WD4, (Conifer plantation) PB4, (Cutover bog) Hunting, flies west, 3s, hovers circles east out of view.		JOS
K262	12/07/2017	8	Kestrel	2	12:18:00	18		7	11		Couple of kestrels on phone wire. Took off in different directions.		DMcG
K271	30/09/2017	1a	Kestrel	1	11:10:00	5	5						JOS
K273	02/10/2017	6A	Kestrel	1	12:19:00	11	11				Commuting	Not Mapped	JOS
K274	11/10/2017	10	Kestrel	1	14:31:00	34	1	13	20		Bog. Hunting over bog.	Not Mapped	JOS
K276	11/10/2017	10	Kestrel	1	15:47:00	20	2	20			Bog Hovering band 2, 20s, drops down to band 1, 2 seconds.	Not Mapped	JOS
K277	16/12/2017	8	Kestrel	1	08:15:00	70		10	60		Hunting individual. Hovering for 30 seconds at approx 40 metres		S. Meehan

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
K289	08/03/2018	10	Kestrel	1	14:55:00	58	15	43			PB3, (Lowland blanket bog) WD4, (Conifer plantation) Female. Hovering/hunting. Total flight time 58 seconds, 15 at Band 1 and 43 at Band 2, but OUT OF SITE area.	F, U/W.	CP

**Table 20: Kestrel Survey Data**

Vantage Point Surveys (Non-flight Data)								
Date	VP	BTO	Species	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
26/10/2016	6A	K	Kestrel	1		WD4, (Conifer plantation) PB4, (Cutover bog) HH3, (Wet heath) Perched		HH
02/12/2016	11	K	Kestrel	1	13:43:00	WD4, (Conifer plantation) WS5, (Recently-felled woodland) FL1, (Dystrophic lakes) Perched	Juvenile male	HH
08/12/2016	7	K	Kestrel	1	13:26	WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) Perched	Juvenile male	HH
08/12/2016	7	K	Kestrel	1	13:29:00	WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) Perched	Juvenile male	HH
08/12/2016	7	K	Kestrel	1	13:43:00	WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) Perched	Juvenile male	HH



**Table 20: Kestrel Survey Data**

Breeding Walkover Surveys									
Map Ref.	Survey Date	Section	VP/Trans/ Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
K001	27/04/2016	Section 5			Kestrel		PB, (Bogs) Hunting	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
K002	28/04/2016	Section 4			Kestrel		PB, (Bogs) (Mixed) Conifer woodland Hunting	Suitable nesting habitat; Possible breeder	PC
K003	09/05/2016	Section 1			Kestrel		PB, (Bogs) Hunting	Suitable nesting habitat; Possible breeder	PC
K004	12/05/2016	Section 4			Kestrel		PB, (Bogs) Hunting/Display flight	Courtship and display ; Probable breeding	PC
K005	20/05/2016	Section 3			Kestrel		PB, (Bogs)	Suitable nesting habitat; Possible breeder	PC
	15/06/2016	Section 4	Q2	16:54:00	Kestrel		PB2, (Upland blanket bog) Hunting over blanket bog within the 500 metre buffer	;	SM
	16/06/2016	Section 4	Q4	17:49:00	Kestrel		PB2, (Upland blanket bog) Hunting over bog in the 500 metre buffer zone in Q4	;	SM
	23/06/2016	Section 5	Q2	15:56:00	Kestrel		PB2, (Upland blanket bog) WD4, (Conifer plantation) Along forest edge	;	SM
	24/06/2016	Section 5	Q4	14:40:00	Kestrel		WS5, (Recently-felled woodland)	;	SM
	25/06/2016	Section 1	Q3	15:24:00	Kestrel		PB2, (Upland blanket bog) Within the 500 metre buffer in Q3	;	SM
	26/06/2016	Section 1	Q2	11:05:00	Kestrel		PB2, (Upland blanket bog) Hunting over open bog	;	SM
	27/06/2016	Section 3	Q2	12:48:00	Kestrel		PB2, (Upland blanket bog) Hunting near block of conifer trees in Q2	;	SM
	27/06/2016	Section 3	Q4	14:01:00	Kestrel		PB2, (Upland blanket bog) Hunting over area of bog in the south east of Q4	;	SM

Breeding Walkover Surveys									
Map Ref.	Survey Date	Section	VP/Trans/ Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
	30/06/2016	Section 2	Q1	16:34:00	Kestrel		PB5, (Eroding blanket bog) ; Within the 500 metre buffer zone of Q1. Hunting over blanket bog		SM
	30/06/2016	Section 2	Q3	12:40:00	Kestrel		WS5, (Recently-felled woodland) Hunting over clearfell south of the lake in Q3 ;		SM
	30/06/2016	Section 2	Q4	12:09:00	Kestrel		WD4, (Conifer plantation) ; WS5, (Recently-felled woodland) Hunting over clearfell		SM
	15/07/2016	Section 3	Q1	12:30:00	Kestrel		WS5, (Recently-felled woodland) Hunting over clearfell ;		SM
	15/07/2016	Section 3	Q4	16:39:00	Kestrel		WS5, (Recently-felled woodland) Hunting over clearfell ;		SM
	15/07/2016	Section 3	Q4	17:39:00	Kestrel		WS5, (Recently-felled woodland) Hunting over clearfell in the northwest section of Q4, likely the same kestrel at observed at 16.39 ;		SM
	20/07/2016	Section 4	Q2	16:24:00	Kestrel		PB2, (Upland blanket bog) ; Hunting over blanket bog within the 500 metre buffer zone		SM
	20/07/2016	Section 4	Q2	17:26:00	Kestrel		PB2, (Upland blanket bog) ; Likely to be same kestrel as sighted at 16.24		SM
K006	24/07/2016	Section 1	Q3	12:15:00	Kestrel		BL3, (Buildings and artificial surfaces) Pair seen flying around old farmhouse ;		SM

Breeding Walkover Surveys									
Map Ref.	Survey Date	Section	VP/Trans/ Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
	25/07/2016	Section 2	Q3	14:24:00	Kestrel		PB2, (Upland blanket bog) Hunting over blanket bog to the west of the site compound	;	SM
	26/07/2016	Section 5	Q2	07:05:00	Kestrel		PB2, (Upland blanket bog) Kestrel regularly seen in this area	;	SM
	26/07/2016	Section 5	Q3	09:42:00	Kestrel		WS5, (Recently-felled woodland) Clearfell in the east of Q3, within the 500 metre buffer zone	;	SM
	26/07/2016	Section 5	Q4	10:40:00	Kestrel		PB2, (Upland blanket bog) Hunting over blanket bog, near to location of Vp10	;	SM

**Table 20: Kestrel Survey Data**

Breeding Raptor Surveys									
Map Reference No.	Date	Area/VP	Time of observation	Species Name	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
K2001	13/05/2016	Section 2	12:18:00	Kestrel	1				PC
K2002	13/05/2016	Section 2	12:42:00	Kestrel	2		Pair soaring together over site		PC
K2003	13/05/2016	Section 2	14:27:00	Kestrel	1		Soaring		PC
K2004	18/05/2016	Section 1	09:36:00	Kestrel	1				PC
K2005	19/05/2016	Section 3	18:07:00	Kestrel					PC
K2006	14/06/2016	Section 3	12:04:00	Kestrel			Soaring, hunting and hovering along route.		PC
K2007	14/06/2016	Section 3	12:23:00	Kestrel			Hunting along ridge.		PC
K2008	14/06/2016	Section 3	13:51:00	Kestrel			Hunting along ridge.		PC
K2009	15/06/2016	Section 4	10:11:00	Kestrel			Commuting		PC
K2010	15/06/2016	Section 4	10:14:00	Kestrel			Joined 1st Kestrel and flew into forestry.		PC

Breeding Raptor Surveys									
Map Reference No.	Date	Area/VP	Time of observation	Species Name	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
K2011	15/06/2016	Section 4	-	Kestrel			Hunting over moorland and then flew North.		PC
K2012	15/06/2016	Section 4	-	Kestrel			Hunting over moorland.		PC
K2013	15/06/2016	Section 4	-	Kestrel			Hunting over moorland.		PC
K2014	15/07/2016	Section 3	14:27:00	Kestrel	1		Hovering and hunting over bog.		PC
K2015	15/07/2016	Section 3	14:27:00	Kestrel	1		Hovering and hunting over bog.		PC
K2016	15/07/2016	Section 3	14:31:00	Kestrel	2		Both hunting together within 20 feet of each other.		PC
K2017	15/07/2016	Section 3	14:38:00	Kestrel	1		Commuting over bog.		PC
K2018	19/07/2016	Section 2	09:52:00	Kestrel	1		Glided down to perch hunt from pylons.		PC
K2019	19/07/2016	Section 2	09:56:00	Kestrel	1		Same Kestrel dropped down from pylon and flew E.		PC
K2020	19/07/2016	Section 2	10:03:00	Kestrel	1		Kestrel repeatedly dropping from perch.		PC
K2021	19/07/2016	Section 2	10:05:00	Kestrel	1				PC
K2022	19/07/2016	Section 2	11:36:00	Kestrel	1		Hovered over bog before landing on stones to sunbathe.		PC
K2023	19/07/2016	Section 2	11:49:00	Kestrel	1		Hovering over heath and young forestry.		PC
K2024	19/07/2016	Section 2	12:03:00	Kestrel	2		Possible prey delivery.		PC
K2025	19/07/2016	Section 2	12:19:00	Kestrel	1		Soaring gaining height over heath and young forestry.		PC
K2026	19/07/2016	Section 2	12:21:00	Kestrel	2		Pair soaring over tower, land behind rock, lift and gain height flying into conifers.		PC
K2027	19/07/2016	Section 2	12:21:00	Kestrel	2		Two kestrels fighting in area with boulders. Could potentially be a nest site.		PC
K2028	19/07/2016	Section 2	12:58:00	Kestrel	1		Hooded crow flew in and chased Kestrel off perch on boulder.		PC
K2029	19/07/2016	Section 2	13:53:00	Kestrel	1				PC
K2030	19/07/2016	Section 2	14:14:00	Kestrel	1		Hunting over bog.		PC
K2031	20/07/2016	Section 4	11:42:00	Kestrel	1		Soaring over bog		PC
K2032	20/07/2016	Section 4	12:22:00	Kestrel	1		Hunting over bog switching height consistently		PC
K2033	20/07/2016	Section 4	13:19:00	Kestrel	1		Hunting and dropped down into bog.		PC
K2034	20/07/2016	Section 4	13:44:00	Kestrel	1		Hunting over bog.		PC
K2035	20/07/2016	Section 4	13:44:00	Kestrel	1		Seen hunting over forest and bog before dropping down into forest out of view.		PC



Breeding Raptor Surveys									
Map Reference No.	Date	Area/VP	Time of observation	Species Name	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
K2036	20/07/2016	Section 4	14:17:00	Kestrel	1		Seen hunting over site.		PC
K2037	20/07/2016	Section 4	-	Kestrel	1		Hunting in front of VP at 10-25m then drops out of view		PC
K2038	20/07/2016	Section 4	-	Kestrel	2		Hunting and then drops down to bog. The kestrel is joined by another individual and they fly into forestry together.		PC
K2039	27/07/2016	Section 4	07:21:00	Kestrel	1		Perched and then flushed once surveyor was noticed.		PC
K2040	27/07/2016	Section 4	10:17:00	Kestrel	1		Soaring over bog and conifers.		PC
K2041	27/07/2016	Section 4	11:03:00	Kestrel	3		Hunting over bog, soaring then flying south out of view.		PC
K2042	27/07/2016	Section 4	12:11:00	Kestrel	2		Soaring together over bog.		PC
K2043	27/07/2016	Section 4	12:22:00	Kestrel	3		Hunting over bog and then drops down out of view.		PC
K2044	27/07/2016	Section 4	12:38:00	Kestrel	1		Hunting over bog.		PC
K2045	27/07/2016	Section 4	13:08:00	Kestrel	1		Hunting over bog.		PC
K2046	27/07/2016	Section 4	13:18:00	Kestrel	1		Hunting and soaring over bog.		PC
K2047	27/07/2016	Section 4	13:44:00	Kestrel	2		Hunting and soaring over bog.		PC
K2048	27/07/2016	Section 4	13:50:00	Kestrel	1		Fly	Hunting.	PC
K2049	06/07/2017	Raptor section 4	16:10:00	Kestrel	1		PB, (Bogs) WD4, (Conifer plantation) Hunting over bog, then flies into conifer canopy out of view, band 2.		JOS
K2050	06/07/2017	Raptor section 4	12:07:00	Kestrel	1		WD4, (Conifer plantation) PB4, (Cutover bog) Hunting over conifers and cutover bog, band 3.		JOS
K2051	06/07/2017	Raptor section 4	12:47:00	Kestrel	1		PB4, (Cutover bog) Band 2, hunting over bog, flies west, circles east, drops down to band 1, flies low over bog SW, out of view behind crest of hill.		JOS
K2052	11/07/2017	Raptor section 5	11:45:00	Kestrel	1		PB, (Bogs) Kestrel in flight, band 3, flies SW, hovers briefly, and lands on rock next to two other kestrels. Aggressive interaction.		JOS
K2053	11/07/2017	Raptor section 5	11:46:00	Kestrel	1		PB, (Bogs) Flies NE, band 1, low over bog, drops down out of view.		JOS
K2054	11/07/2017	Raptor section 5	12:00:00	Kestrel	1		PB, (Bogs) Lifts from rock, flies low over bog, band 1, lands on bog. Followed		JOS

Breeding Raptor Surveys									
Map Reference No.	Date	Area/VP	Time of observation	Species Name	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
							by another kestrel (individual recorded at 12:00; ref 5).		
K2055	11/07/2017	Raptor section 5	12:00:00	Kestrel	1		PB, (Bogs) Follows individual above, lands on rock, band 1, 7 seconds.		JOS
K2056	11/07/2017	Raptor section 5	12:00:00	Kestrel	1		PB, (Bogs) Individual recorded at 12:00 (ref. 5), lifts from rock flies west band 2 (8s), up to band 3, hunting over bog, hovers 83s, circles NE, drops down to band 2, hovers (32s), descends to band 1, flies north low over bog, out of view, 8s.		JOS
K2058	11/07/2017	Raptor section 5	12:01:00	Kestrel	1		PB, (Bogs) Individual recorded at reference 4 (12:00), flies low over bog, band 1, 11 seconds, aggressive interaction with pair of hooded crows, drops out of view.		JOS
K2059	11/07/2017	Raptor section 5	13:57:00	Kestrel	1		PB, (Bogs) Hunting, hovers over bog, band 3 (40s) mobbed by passerines, soars higher to band 4 (60s), circles NE, descends to band 3 (37s), hovers, drops down out of view (16s, band 2).		JOS
K2060	17/07/2017	Raptor section 1	11:47:00	Kestrel	1		PB, (Bogs) Flies east band 1, low to the ground. Perches on sphagnum hummock for 4 minutes. Flies SE, hunting band 3, 67 seconds, hovering briefly, heads SE, hovers, drops down onto bog out of view.		JOS
K2061	17/07/2017	Raptor section 1	12:20:00	Kestrel	1		WD4, (Conifer plantation) PB, (Bogs) Flies over lake north, band 1 (4s), over conifers. Ascends to band 2, 12s, Soaring over conifers, soars to band 3 (67 s).		JOS
K2062	17/07/2017	Raptor section 1	12:22:00	Kestrel	1		WD4, (Conifer plantation) PB, (Bogs) Kestrel flies over bog, lands on conifers tree. Band 1 (4s).		JOS

**Table 20: Kestrel Survey Data**

Winter Walkover Surveys									
Survey Date	VP/Trans/ Quad No.	Time of observation	BTO code	Species	No. of Birds	Target Spp. (Y/N)	Sex/age	Habitat and Activity	Surveyor
01/11/2016	5		K	Kestrel	1	Y	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	5		K	Kestrel	1	Y	1-5M	PB, (Bogs) Calling	JOS
21/11/2016	5	12:50:00	K	Kestrel	1	Y	1-5m	Calling in conifers.	JOS
12/12/2016	20	14:15:00	K	Kestrel	1	Y		Calling	JOS
12/12/2016		12:13:00	K	Kestrel	1	Y		Flies west, band 1, out of view.	JOS







**Table 20: Kestrel Survey Records**

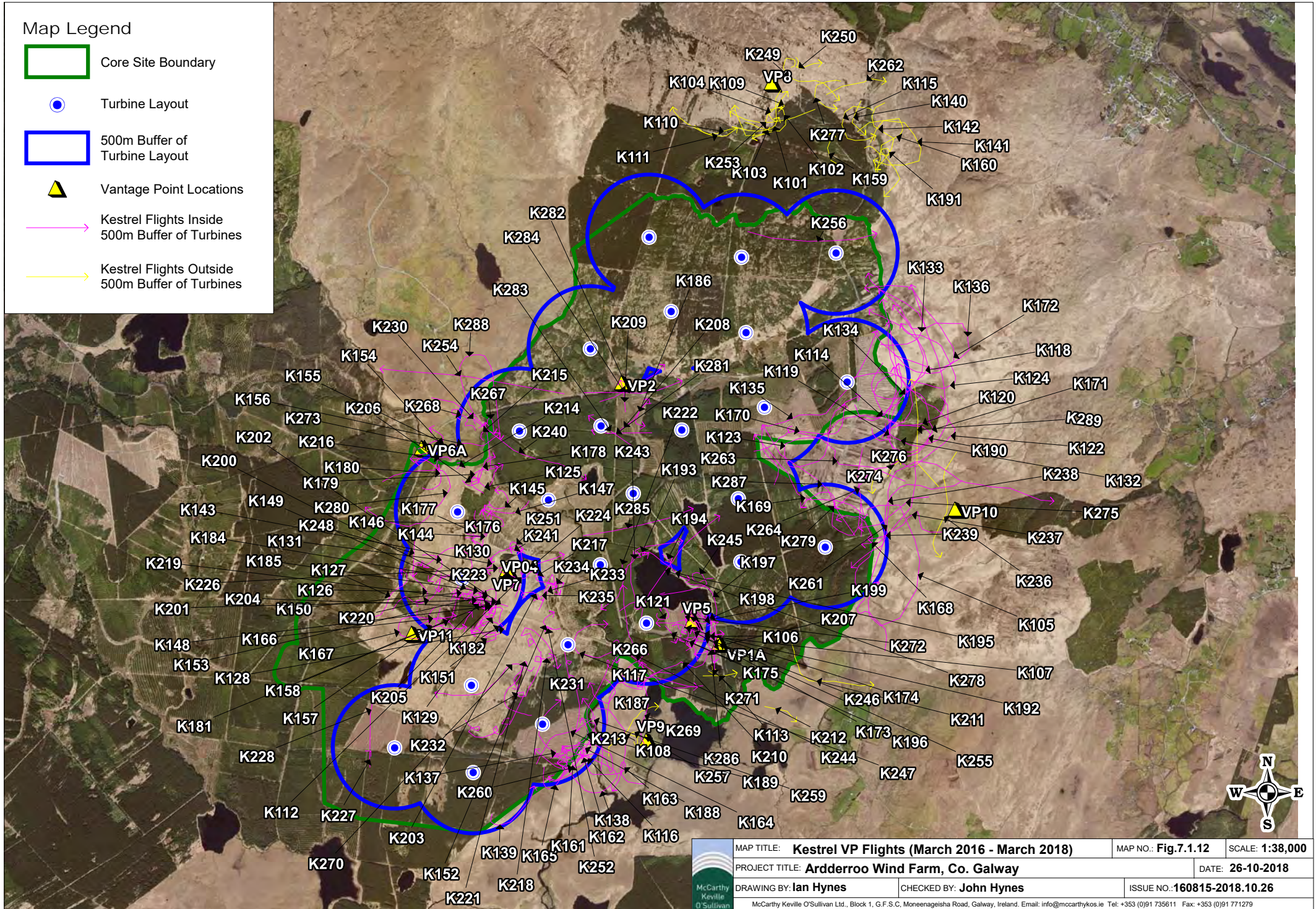
Incidental Records						
Date	Survey Type	Location	Species	No. of Birds	Notes	Surveyor
04/08/2016	Wetland & Waterbird Count	Lough More	Kestrel	1	Flew low over Lough Mor and over crest of hill out of view	JOS
04/08/2016	Wetland & Waterbird Count	Tullynasheoy	Kestrel	1	Hovering - dropped down. Band 1.	JOS
05/08/2016	Wetland & Waterbird Count	Lough Fadda	Kestrel	1	Flew NE over lake, then behind conifers out of view.	JOS
22/08/2016	White Tailed Eagle Survey	WEVP2	Kestrel			SM
22/08/2016	White Tailed Eagle Survey	WEVP2	Kestrel		PB2, (Upland blanket bog)	SM
22/08/2016	White Tailed Eagle Survey	WEVP2	Kestrel			SM
23/08/2016	Wetland & Waterbird Count	Lough Atavamore	Kestrel	1	Commuting. Flew SE across road to Lough Atavamore.	JOS
23/08/2016	Wetland & Waterbird Count	Lough Natawneighter	Kestrel	1	Perched on rock for approx 2 minutes. Flies S, hunting. Hovered approx 2 minutes, then out of view. Flight band 1.	JOS
24/08/2016	White Tailed Eagle Survey	WEVP3	Kestrel			SM
29/08/2016	White Tailed Eagle Survey	WEVP4	Kestrel			SM
29/08/2016	White Tailed Eagle Survey	WEVP4	Kestrel			SM
01/03/2017	White Tailed Eagle Survey	WEVP3	Kestrel	1	Hunting over bog, 131s (band 3), drops down out of view into bog, 7s (band 2).	JOS
01/03/2017	White Tailed Eagle Survey	WEVP3	Kestrel	1	Soaring, hovering, band 3, bog. 140s band 3. Drops out of view.	JOS
01/03/2017	White Tailed Eagle Survey	WEVP3	Kestrel	1	Hunting, hovering over bog. 111s, band 3, 9s band 2. Drops down into bog out of view.	JOS


Incidental Records						
Date	Survey Type	Location	Species	No. of Birds	Notes	Surveyor
08/03/2017	Wetland & Waterbird Count	Lough Bealacoan	Kestrel	1	Hunting over bog, band 3	JOS
16/03/2017	White Tailed Eagle Survey	WEVP4	kestrel	1	Hunting over bog, hovers, travels south, hovers, circles NE, hovers, and drops down on to bog out of view.	JOS
16/03/2017	White Tailed Eagle Survey	WEVP4	kestrel	1	Commuting east over bog, likely individual above.	JOS
16/03/2017	White Tailed Eagle Survey	WEVP4	Kestrel	1	Band 3, hovering 55s, drops down out of view.	JOS
16/03/2017	White Tailed Eagle Survey	WEVP4	Kestrel	1	Hunting, travelling S, band 2, flies out of view beyond crest of hill.	JOS
16/03/2017	White Tailed Eagle Survey	WEVP4	kestrel	1	Hovers, flies s, band 2, ascends to band 3, descends to band 2 flies south, out of view, over bog.	JOS
16/03/2017	White Tailed Eagle Survey	WEVP4	kestrel	1	Flies south 20s, band 3, circles back north 42s band 2, hovers over bog 7s band 3, heads W, 70s band 3, 65s band 2, then drops down out of view.	JOS
16/03/2017	White Tailed Eagle Survey	WEVP4	kestrel	1	Hunting west of vp, band 3 35s, drops down to band 2, 2s, then out of view.	JOS
16/03/2017	White Tailed Eagle Survey	WEVP4	kestrel	1	Hunting in front of vp, band 3, flies east, hovers, flies west, hovers flies south east over vp, hovers, swoops down, 171s band 3, 3s band 2, out of view into bog.	JOS
21/03/2017	White Tailed Eagle Survey	WEVP1	kestrel	1	Flies from conifers north of vp south, 94s band 3, hovers over vp 13s, heads south hovers 10s continues south over conifers, descends to band 2 9s, flies out of view into conifer canopy.	JOS
21/03/2017	White Tailed Eagle Survey	WEVP1	kestrel	1	Soaring, flies west over conifers, band 3.	JOS
05/04/2017	White Tailed Eagle Survey	WEVP4	Kestrel	1	Bog Hunting over bog in front of vp, soars, heads south band 3, hovers. Off site 95s. drops out of view into bog.	JOS
03/08/2017	White Tailed Eagle Survey	WEVP1	Kestrel	1		AOD
04/08/2017	White Tailed Eagle Survey	WEVP4	Kestrel	1	PB, (Bogs) 178s total. Band 2, (20s), flies west ascends to band 3, hunts over bog heading west, veers sw, descends to band 2 (17s), then up to band 3, out of view beyond crest of hill.	JOS
04/08/2017	White Tailed Eagle Survey	WEVP4	Kestrel	1	Hunting over bog, drops down out of view.	JOS
04/08/2017	White Tailed Eagle Survey	WEVP4	Kestrel	1	PB, (Bogs) WD4, (Conifer plantation) Flies west over bog, band 2 (13s) descends, lands on conifer 2s.	JOS
04/08/2017	White Tailed Eagle Survey	WEVP4	Kestrel	1	WD4, (Conifer plantation) Flies north, hovers drops down into conifers out of view (10s, band 1).	JOS
04/08/2017	White Tailed Eagle Survey	WEVP4	Kestrel	1	Band 1, soars, flies south over bog drops down out of view.	JOS
17/12/2017	Hen Harrier Roost Survey	HHVP4	Kestrel	1	Female Kestrel hunting/hovering near VP/ OOS/	CP
14/02/2018	White Tailed Eagle Survey	WEVP5	Kestrel	1	GS4, (Wet grassland) PB, (Bogs) Flying	JC
20/02/2018	HH Roost Survey	HHVP4	Kestrel	1	PB, (Bogs) perched since 16:48, moved on by mobbing HC	JC



### Map Legend






-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Kestrel Flights Inside 500m Buffer of Turbines
-  Kestrel Flights Outside 500m Buffer of Turbines

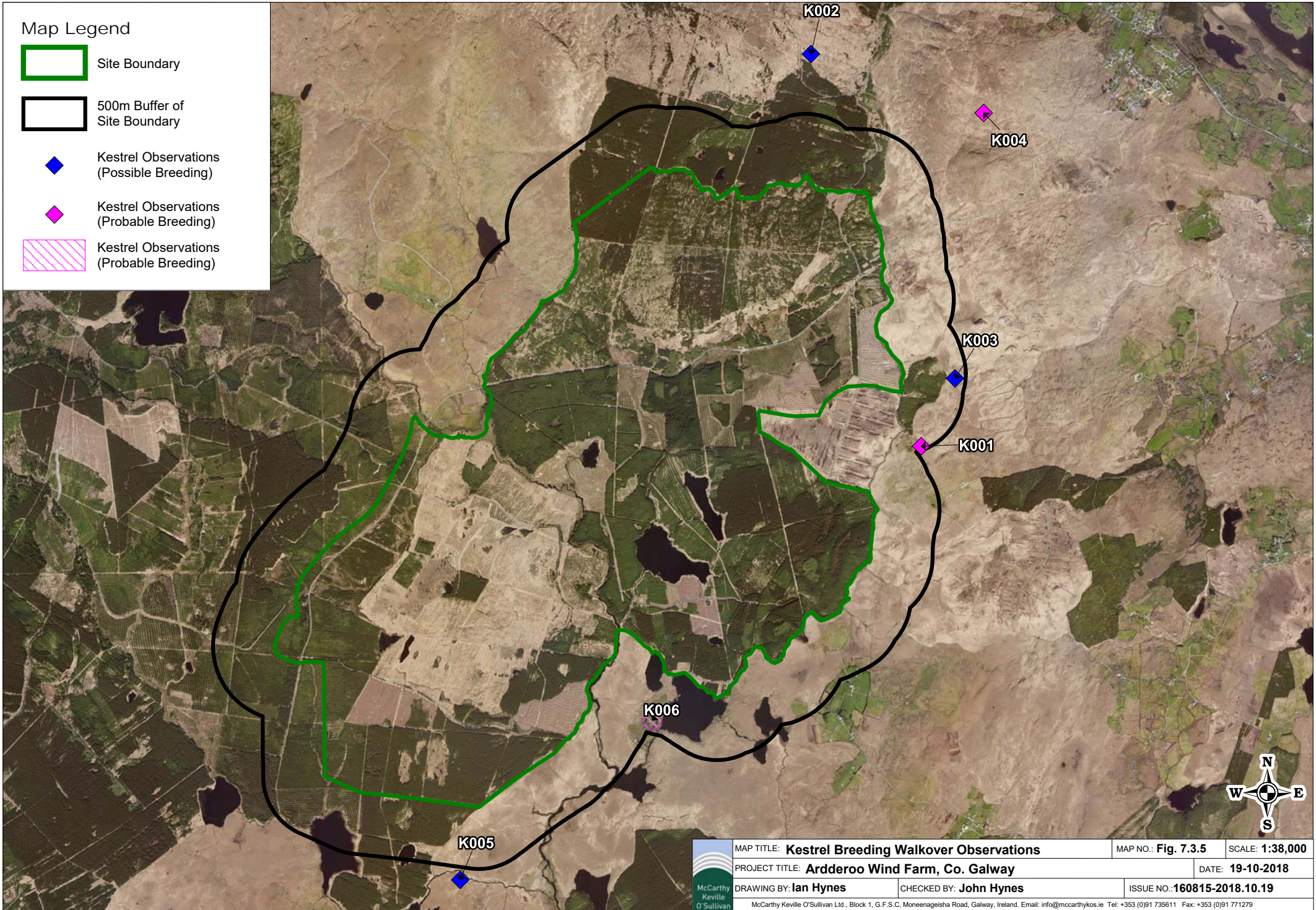



	MAP TITLE: <b>Kestrel VP Flights (March 2016 - March 2018)</b>	MAP NO.: <b>Fig.7.1.12</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Arderroo Wind Farm, Co. Galway</b>		DATE: <b>26-10-2018</b>
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.26</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



Map Legend






-  Site Boundary
-  500m Buffer of Site Boundary
-  Kestrel Observations (Possible Breeding)
-  Kestrel Observations (Probable Breeding)
-  Kestrel Observations (Probable Breeding)

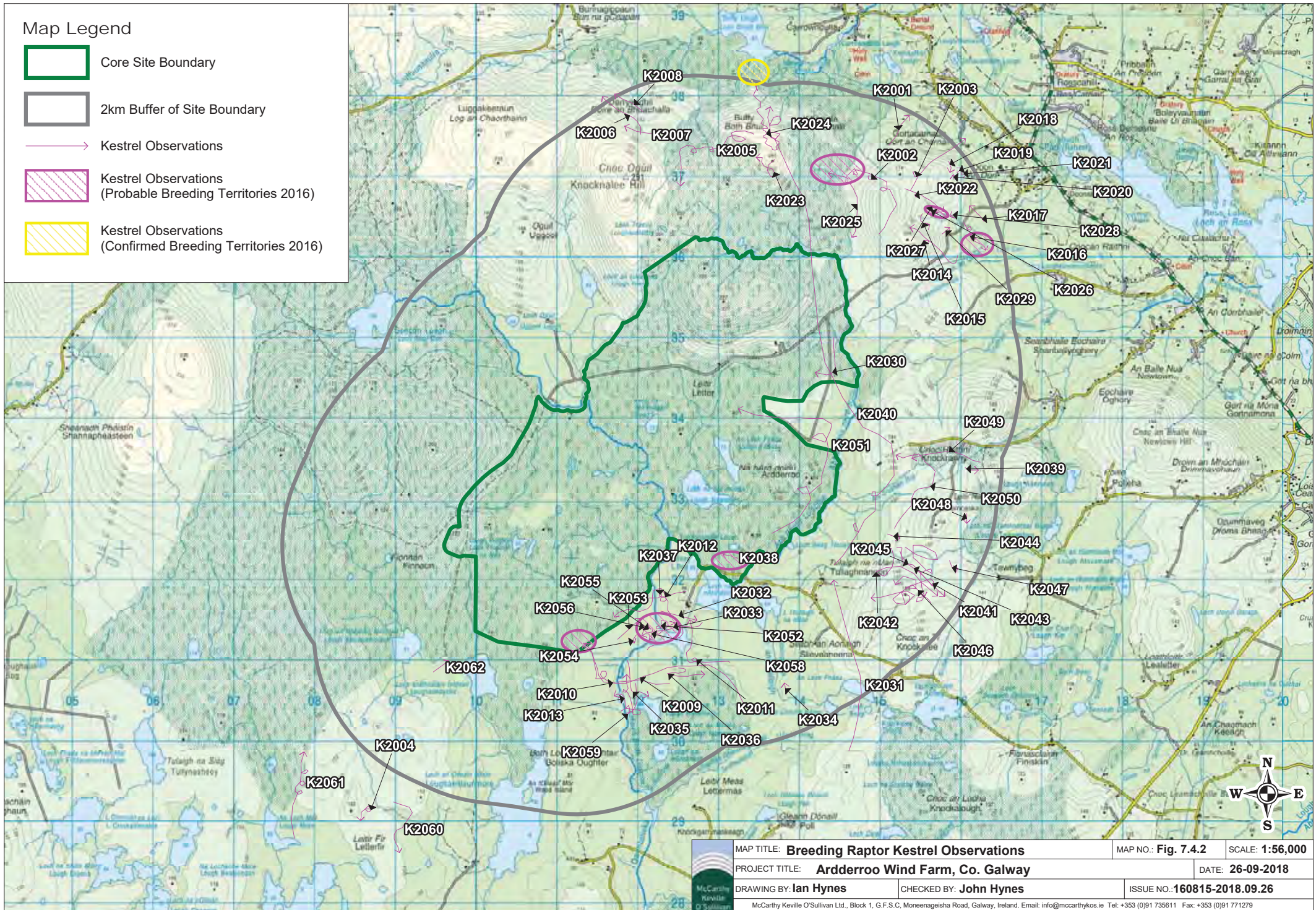



	MAP TITLE: <b>Kestrel Breeding Walkover Observations</b>	MAP NO.: <b>Fig. 7.3.5</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderoo Wind Farm, Co. Galway</b>	DATE: <b>19-10-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.19</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



### Map Legend

-  Core Site Boundary
-  2km Buffer of Site Boundary
-  Kestrel Observations
-  Kestrel Observations (Probable Breeding Territories 2016)
-  Kestrel Observations (Confirmed Breeding Territories 2016)



	MAP TITLE: <b>Breeding Raptor Kestrel Observations</b>	MAP NO.: <b>Fig. 7.4.2</b>	SCALE: <b>1:56,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, Co. Galway</b>	DATE: <b>26-09-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.09.26</b>
<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>			



**Table 21: Sparrowhawk Survey Data**

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
SH101	16/03/2016	2	Sparrowhawk	1	13:58:00	20		20			Conifer plantation/Immature woodland 20 - 25m. Flies over top of conifers, over immature plantation and back to mature plantation.		SD
SH102	16/03/2016	2	Sparrowhawk	1	14:05:00	40		40			Conifer plantation 20 - 25m. Same individual circles over forestry and road.		SD
SH104	13/04/2016	6	Sparrowhawk	1	15:46:00	80			30	50	Lowland blanket bog 30 = b, 50 = c. Flies in over bog carrying dead prey (70m). Ascends to 200m, circling high and flies S out of view.		SD
SH105	21/04/2016	4	Sparrowhawk	1	12:11:00	5			5		Conifer plantation 20-25m - flies up over conifer plantation momentarily and drops back down, heading W.		SD
SH106	13/05/2016	1a	Sparrowhawk	1	06:00:00	10	0		10		Short rotation coppice Observed carrying prey, assumed to be male as female likely to be incubating. Suspected nest in adjacent conifers.		SM
SH107	13/05/2016	1a	Sparrowhawk	1	10:46:00	10	0		10		Conifer clearing		SM
SH109	24/05/2016	5	Sparrowhawk	1	21:17:00	5	0	5			Lakes and ponds/Conifer plantation Suspected nest in the conifers to the south east of VP5		SM
SH110	25/05/2016	2	Sparrowhawk	1	16:08:00	30	25	5			Immature woodland Observed hunting		SM



Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
											amongst young trees to the south of VP2		
SH111	28/05/2016	4	Sparrowhawk	1	19:03:00	10	10				Immature woodland Hunting amongst trees close to VP4		SM
SH112	15/06/2016	5	Sparrowhawk	1	09:11:00	10	0	10			WD4, (Conifer plantation) FL (Lakes and Ponds) A fleeting glimpse of the bird as it flew into the conifers in the area where a nest is suspected to the east of VP1a		SM
SH113	15/06/2016	5	Sparrowhawk	1	12:08:00	15	0	15			WD4, (Conifer plantation) FL (Lakes and Ponds) Likely to be same bird as observation 3		SM
SH114	16/06/2016	10	Sparrowhawk	1	09:29:00	25	25				PB2, (Upland blanket bog) Sparrowhawk seen flying low over cutaway bog		SM
SH115	23/06/2016	1a	Sparrowhawk	1	08:21:00	25	0	25			WD4, (Conifer plantation) FL (Lakes and Ponds) Suspected to be nesting in the area		SM
SH116	23/06/2016	1a	Sparrowhawk	1	10:16:00	25	0		30		WD4, (Conifer plantation) FL (Lakes and Ponds) Likely to be same bird as observation 1		SM
SH117	23/06/2016	1a	Sparrowhawk	1	11:45:00	25	0		30		WD4, (Conifer plantation) FL (Lakes and Ponds) Likely to be same bird as observations 1 & 2		SM
SH118	29/06/2016	4	Sparrowhawk	1	16:49:00	10	10				WD4, (Conifer plantation) Flew very low amongst young trees		SM

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
SH120	22/07/2016	5	Sparrowhawk	1	13:01:00	10	10				WD4, (Conifer plantation)		SM
SH121	23/07/2016	1a	Sparrowhawk	1	07:17:00	20	0	20			WS5, (Recently-felled woodland), WS2, (Immature woodland)		SM
SH122	23/07/2016	1a	Sparrowhawk	1	12:02:00	15	0	15			WD4, (Conifer plantation)		SM
SH123	28/07/2016	2	Sparrowhawk	1	17:01:00	25	10	15			WD4, (Conifer plantation)		SM
SH124	18/09/2016	2	Sparrowhawk	1	07:18:00	15	15				Coniferous woodland and scrub Flying low at 5 metres		SM
SH125	17/10/2016	11	Sparrowhawk	1	17:54:00	30	30				PB4, (Cutover bog) WD4, (Conifer plantation) In flight		HH
SH127	26/10/2016	6A	Sparrowhawk	1	18:08:00	15	15				WD4, (Conifer plantation) PB4, (Cutover bog) HH3, (Wet heath) In flight	Juvenile, seemingly male on perceived size	HH
SH129	10/11/2016	5	Sparrowhawk	1	08:43:00	70	5	65			WS5, (Recently-felled woodland) WD4, (Conifer plantation) PB, (Bogs) Flies W/NW in band 2, display behaviour - swooping down to ~15m then rising up to ~25m, repeats this three time, then swoops down into clearfell north of Lough Fada out of view.		JOS
SH130	10/11/2016	1a	Sparrowhawk	1							WD4, (Conifer plantation) WS5, (Recently-felled woodland) FL1, (Dystrophic lakes) In flight	Unaged/unsexed	HH

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
SH131	11/11/2016	6A	Sparrowhawk	1	09:47:00	40		3	37		WD4, (Conifer plantation) Soaring, in flight, over woodland, drops down into tree canopy out of view.		JOS
SH132	08/12/2016	7	Sparrowhawk	1	13:15:00	6	6				WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) Hunting	Adult male	HH
SH133	26/01/2017	7	Sparrowhawk	N	11:20:00	148		4	144		Bog, conifer Commuting west over conifers. Band 3, 144s, dropped down into conifer canopy out of view (band 2, 4s).		JOS
SH134	26/01/2017	7	Sparrowhawk	N	11:31:00	32		32			Bog, conifer Commuting over conifer/bog heading SW, 32s, band 2, then into canopy out of view.		JOS
SH170	07/02/2017	4	Sparrowhawk	1	09:13:00	21	6	8	7		PB, (Bogs) WD4, (Conifer plantation) Commuting		JOS
SH171	07/02/2017	4	Sparrowhawk	1	12:25:00	57		3	54		PB, (Bogs) WD4, (Conifer plantation) Commuting over conifers, then drops into canopy out of view.		JOS
SH135	08/02/2017	2	Sparrowhawk	1	08:45:00	30	25	5			WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Hunting	Individual hunting swooped from tree onto bush in which blue tits were foraging	AOD

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
SH136	08/02/2017	2	Sparrowhawk	2	10:00:00	10	10				WD4, (Conifer plantation) Displaying	Pair following each other over tree tops Male and Female	AOD
SH139	30/03/2017	11	Sparrowhawk	1	10:49	27	27					Commuting west over bog.	JOS
SH140	11/04/2017	1a	Sparrowhawk	1	18:44:00	16			16		WD4, (Conifer plantation) Flew East over conifers, out of site		DMCG
SH173	21/04/2017	2	Sparrowhawk	1	11:37:00	3		3			WD4 (Conifer Plantation), Commuting NE)		JOS
SH141	26/04/2017	4	Sparrowhawk	1	15:05:00	109	5		104		PB2, (Upland blanket bog) WD4, (Conifer plantation) Hunting. Flew up from scrub and circled before disappearing over conifers.		DMCG
SH143	15/05/2017	2	Sparrowhawk	1	20:16:00	11							JOS
SH144	15/05/2017	2	Sparrowhawk	1	20:21:00	12	9	3					JOS
SH145	15/05/2017	2	Sparrowhawk	1	20:39:00	7	7						JOS
SH172	31/05/2017	7	Sparrowhawk	1	10:57:00	37			37				DMCG
SH146	06/06/2017	2	Sparrowhawk	1	10:38:00	7	27						JOS
SH147	06/06/2017	2	Sparrowhawk	1	10:39:00	3	3						JOS
SH148	07/06/2017	7	Sparrowhawk	1	14:27:00	21		21					JOS
SH150	03/07/2017	1a	Sparrowhawk	1	14:39:00	31		31					JOS
SH151	03/07/2017	1a	Sparrowhawk	1	15:30:00	6		6					JOS



Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
SH152	03/07/2017	1a	Sparrowhawk	1	11:31:00	67		67			PB, (Bogs) WD4, (Conifer plantation) Male, carrying prey. Flies NW over lough Naweelan out of view.		JOS
SH153	03/07/2017	1a	Sparrowhawk	1	12:19:00	12		12			WD4, (Conifer plantation) Circles over conifers out of view.		JOS
SH154	04/07/2017	6A	Sparrowhawk	1	10:57:00	5	5				PB, (Bogs) WD4, (Conifer plantation) Commuting. On site 5s.		JOS
SH155	05/07/2017	11	Sparrowhawk	1	13:57:00	37					PB, (Bogs) Male, carrying prey, flies east low over bog, out of view into scrub. On site 37s.		JOS
SH156	05/07/2017	11	Sparrowhawk	1	14:24:00	22					PB, (Bogs) Male, carrying prey. On site 22 secs		JOS
SH157	05/07/2017	11	Sparrowhawk	1	14:59:00	35					PB, (Bogs) Male, carrying prey flies east, low over bog, drops down into scrub. On site 35s		JOS
SH159	13/09/2017	9	Sparrowhawk	1	15:58:00	10	10				Bog/conifer Commuting over bog.		JOS
SH160	05/10/2017	2	Sparrowhawk	1	12:32:00	9	9				Conifers 1s, lands on tree, sits for 5s, circles SE 8s, band 1 into canopy.		JOS
SH161	10/10/2017	11	Sparrowhawk	1	10:32:00	23	23				Commuting		JOS
SH162	15/12/2017	4	Sparrowhawk	1	10:13:00	150	150				WD4, (Conifer plantation) Male aggressive interactions with HHs (above).	F/glide	CP
SH163	08/02/2018	2	Sparrowhawk	1	10:52:00	21	21				WD4, (Conifer plantation)	F/glide, D/W.	CP

Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
SH164	16/02/2018	4	Sparrowhawk	1	09:40:00	55	30	25			WD4, (Conifer plantation) Landed in a tree.	F/glide, D/W.	CP
SH166	10/03/2018	2	Sparrowhawk	1	15:54:00	95		35	60		WD4, (Conifer plantation) F/glide, circling. Displaying female.	F/glide.	CP
SH168	12/03/2018	6A	Sparrowhawk	1	14:56:00	15	15				GS4, (Wet grassland) ED3, (Recolonising bare ground) WD4, (Conifer plantation) Hunting	Male	JC

**Table 21: Sparrowhawk Survey Data**

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
SH103	18/03/2016	9	Sparrowhawk	1	10:17:00	100			100		Not specified (Offsite) likely sparrowhawk, mobbed by HC and HG, flies behind VP at 50m, gaining height.		SD
SH108	18/05/2016	8	Sparrowhawk	1	17:49:00	15	15				Immature woodland Observed hunting amongst young conifer trees		SM
SH119	20/07/2016	8	Sparrowhawk	1	13:45:00	15	15				WD4, (Conifer plantation)		SM
SH126	17/10/2016	9	Sparrowhawk	1	16:48:00	60	15	45			Wet grassland, bog Lifts from rushes in front of vp, flies SW over bog and out of view, behind conifers.		JOS
SH128	09/11/2016	10	Sparrowhawk	1	15:28:00	46		46			PB2, (Upland blanket bog) WD4, (Conifer plantation) Travelling through		JH
SH137	10/03/2017	6A	Sparrowhawk	1	06:56:00	70	70				Mixed broadleaved/conifer woodland Hunting	Female	AOD

Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
SH138	10/03/2017	6A	Sparrowhawk	1	10:40:00	85		40	45		Mixed broadleaved/conifer woodland WD4, (Conifer plantation) PB2, (Upland blanket bog) Soaring	Female began low then soaring then mobbed by HC	AOD
SH142	02/05/2017	8	Sparrowhawk	1	17:32:00	63				63	PB3, (Lowland blanket bog) Hunting above Peatland. Flew South. Lost sight against coniferous background.		DMCG
SH149	13/06/2017	1a	Sparrowhawk	1	11:58:00	8							JOS
SH158	08/08/2017	8	Sparrowhawk	1	09:17:00	41			41		Hovering. Flew West		DMcG
SH167	06/01/2018	10	Sparrowhawk	1	12:39:00	10	10				Hunting along conifer edge		S. Meehan
SH165	21/02/2018	11	Sparrowhawk	1	08:55:00	13	13				PB3, (Lowland blanket bog) Landed in dead tree.	F	CP
SH169	12/03/2018	6A	Sparrowhawk	1	15:34:00	7		7			PB, (Bogs) flying	Male	JC

**Table 21: Sparrowhawk Survey Data**

Vantage Point Surveys (Non-flight Data)								
Date	VP	BTO	Species	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
08/12/2016	7	SH	Sparrowhawk	1	13:12:00	WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) Perched	Adult male	HH
31/05/2017	11	SH	Sparrowhawk	1	06:41:00			JOS
31/05/2017	11	SH	Sparrowhawk	1	06:50:00			JOS

**Table 21: Sparrowhawk Survey Data**

Breeding Walkover Survey									
Map Ref.	Survey Date	Section	Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
SH001	19/04/2016	Section 3			Sparrowhawk		Mixed broadleaved/conifer woodland Soaring over woodland	Suitable nesting habitat; Possible breeder	PC
	24/06/2016	Section 5	Q3	14:35:00	Sparrowhawk		WD4, (Conifer plantation)	;	SM
	24/07/2016	Section 1	Q1	13:48:00	Sparrowhawk		WS5, (Recently-felled woodland) Near location of VP1a	;	SM
	25/07/2016	Section 4	Q3	08:19:00	Sparrowhawk		WD4, (Conifer plantation) Hunting along edge of forest in very north of Q3	;	SM
SH002	24/05/2017	Section 3		16:40:00	Sparrowhawk	1	Conifers.	Agitated behaviour or anxiety calls. Probable breeder.	JOS
	14/07/2017	B&S section 3			Sparrowhawk	1	In flight, band 1, 38s, flies low over bog towards house, band 1. Commuting male. Mobbed by SL and CT		JOS

**Table 21: Sparrowhawk Survey Data**

Breeding Raptor Surveys									
Map Reference No.	Date	Area	Time of observation	Species Name	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
SH2001	17/05/2016	Section 4	08:08:00	Sparrowhawk			Carrying prey into plantation		PC
SH2002	20/07/2016	Section 4	12:12:00	Sparrowhawk	1		Commuting		PC
SH2003	20/07/2016	Section 4	14:11:00	Sparrowhawk	1		Seen carrying prey on-site		PC
SH2004	25/05/2017	Section 3	16:49:00	Sparrowhawk	1		Flies south in conifer canopy, 15s, band 1, then out of view into conifer canopy.		JOS



**Table 21: Sparrowhawk Survey Data**







Winter Walkover Surveys									
Survey Date	VP/Trans/Quad No.	Time of observation	BTO code	Species	No. of Birds	Target Spp. (Y/N)	Sex/age	Habitat and Activity	Surveyor
21/11/2016	9	15:19:00	SH	Sparrowhawk	1	Y	1-5m	Perched on conifer tree branch, low, lifts, flies into conifers out of view (band 1, 10 seconds).	JOS
13/12/2016	5	12:15:00	SH	Sparrowhawk	1	Y	1-5m	WD4, (Conifer plantation) Hunting. Flies NW, band 1, low over conifers.	JOS

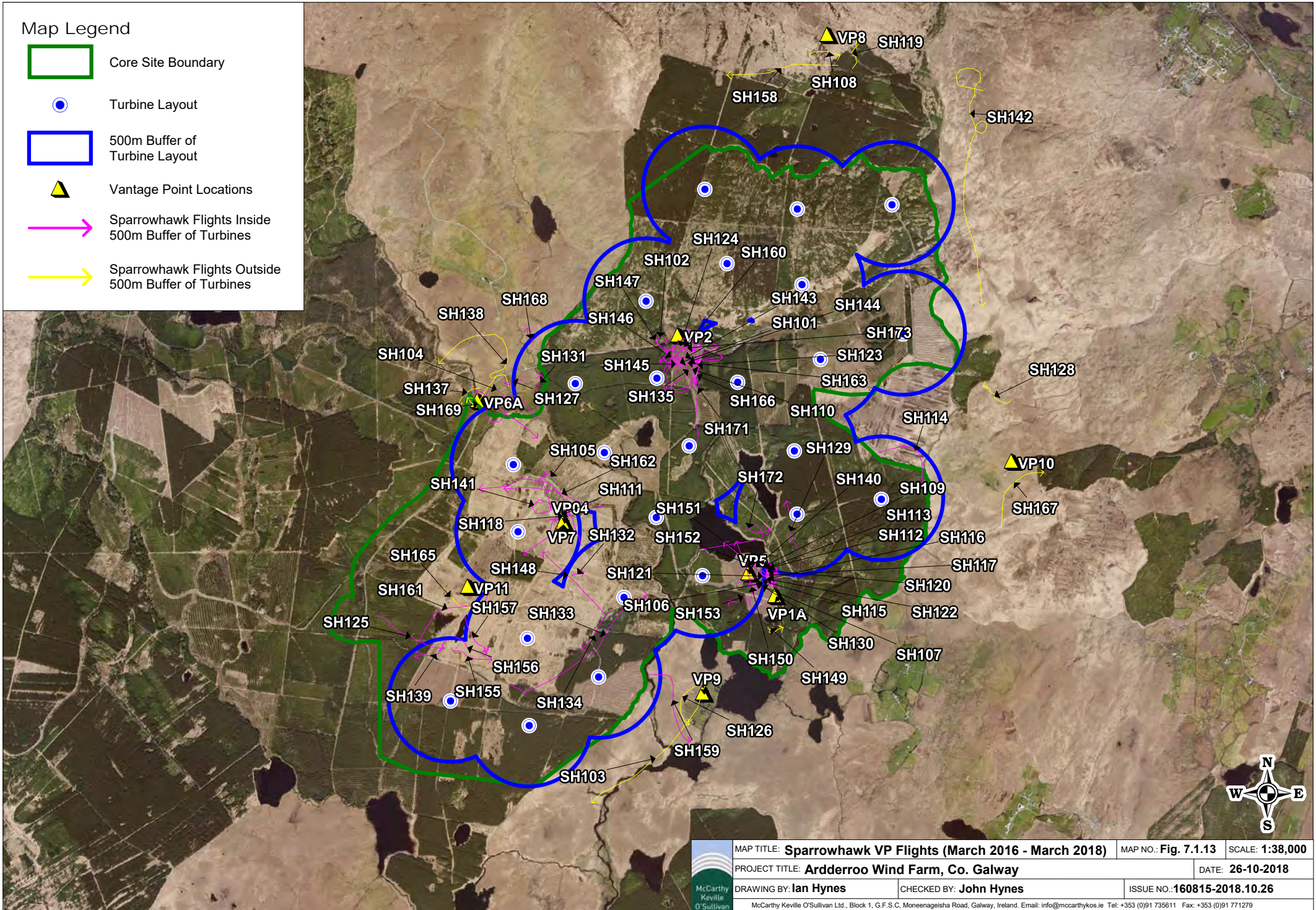
**Table 21: Sparrowhawk Survey Data**


Incidental Records						
Date	Survey Type	Location	Species	No. of Birds	Notes	Surveyor
17/08/2016	White Tailed Eagle Survey	WEVP1	Sparrowhawk		PB2, (Upland blanket bog)	SM
01/03/2017	White Tailed Eagle Survey	WTE Survey (VP3)	Sparrowhawk	1	Band 1, flies low over bog, perches 5s, lifts and flies south out of view.	JOS
21/03/2017	White Tailed Eagle Survey	WTE Survey (VP1)	Sparrowhawk	1	Flies over lake, band 1, then out of view into conifers.	JOS
23/08/2016	Wetland & Waterbird Count	Lough Tawneybeg	Sparrowhawk	1	Perched on tree. Disturbed by surveyor. Flew NW, into vegetation out of view. Band 1.	JOS
08/09/2016	Wetland & Waterbird Count	Lough Atavabeg	Sparrowhawk	1	Commuting along willows by drain, over wet grassland/bog.	JOS
19/04/2017	Wetland & Waterbird Count	Unnamed Lough (Letterfir bog)	Sparrowhawk	1	Hunting meadow pipit over bog.	JOS



### Map Legend





-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Sparrowhawk Flights Inside 500m Buffer of Turbines
-  Sparrowhawk Flights Outside 500m Buffer of Turbines

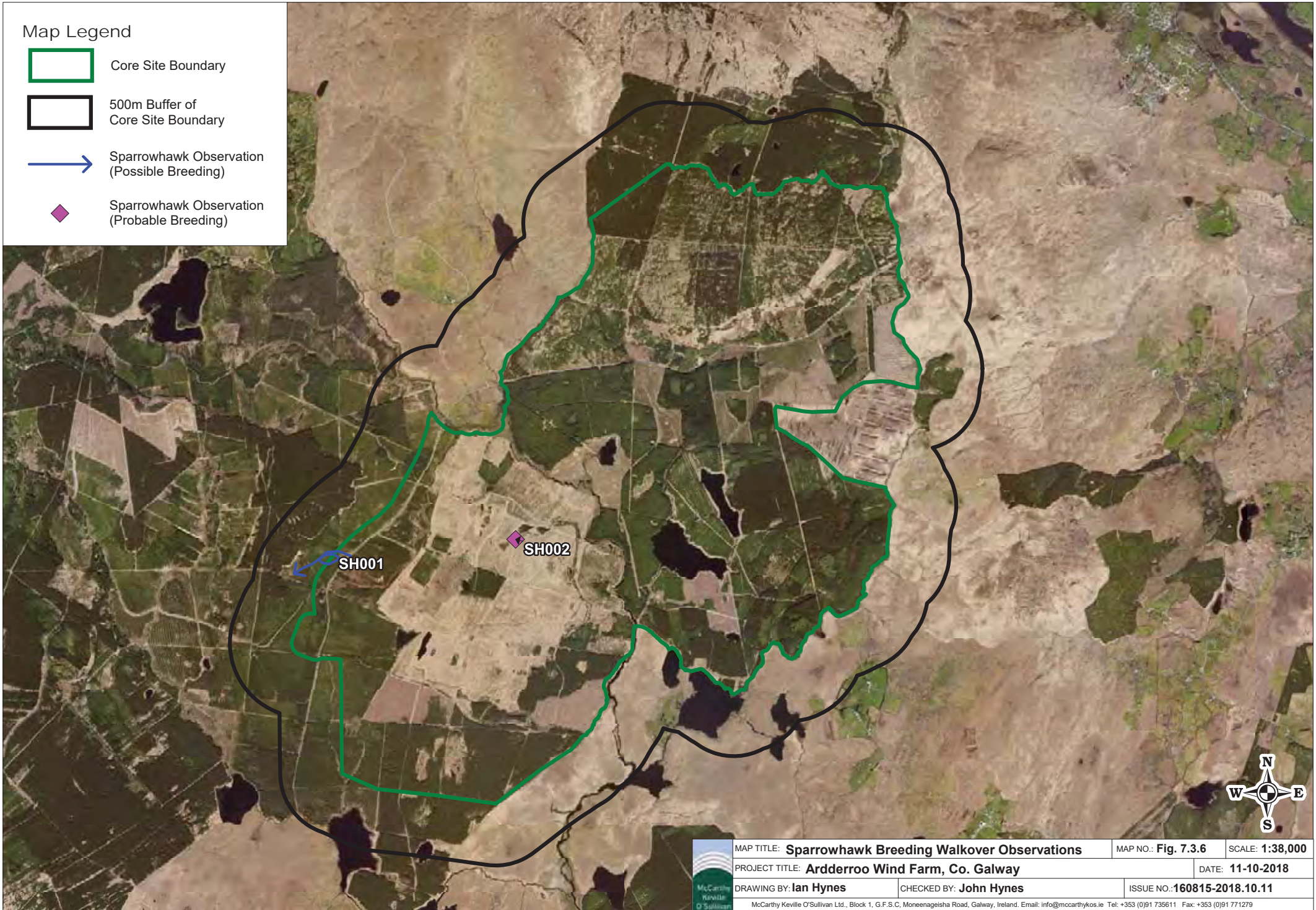


	MAP TITLE: Sparrowhawk VP Flights (March 2016 - March 2018)	MAP NO.: Fig. 7.1.13	SCALE: 1:38,000
	PROJECT TITLE: Arderroo Wind Farm, Co. Galway		DATE: 26-10-2018
	DRAWING BY: Ian Hynes	CHECKED BY: John Hynes	ISSUE NO.: 160815-2018.10.26
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



Map Legend

-  Core Site Boundary
-  500m Buffer of Core Site Boundary
-  Sparrowhawk Observation (Possible Breeding)
-  Sparrowhawk Observation (Probable Breeding)

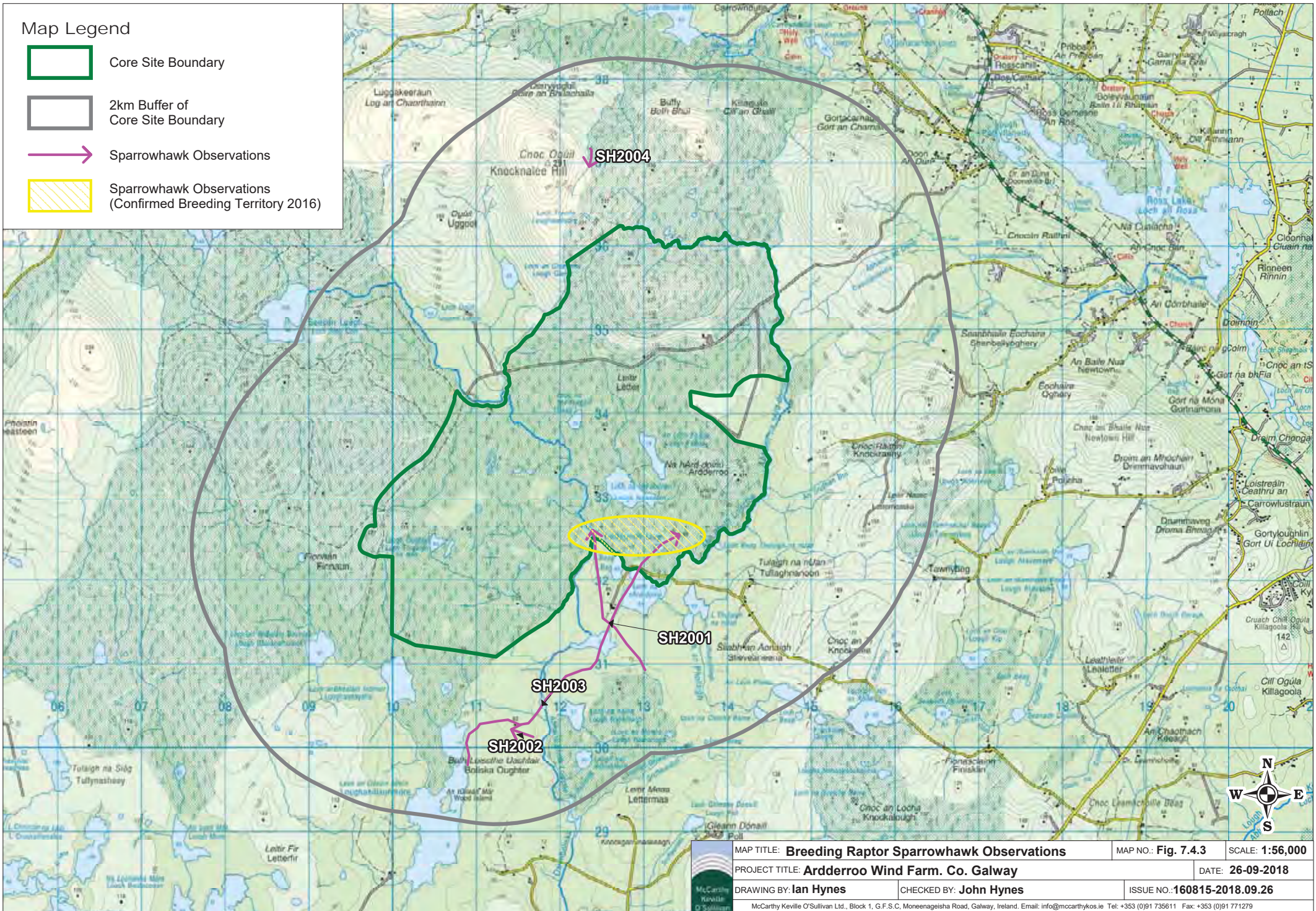





	MAP TITLE: <b>Sparrowhawk Breeding Walkover Observations</b>	MAP NO.: <b>Fig. 7.3.6</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Ardderroo Wind Farm, Co. Galway</b>		DATE: <b>11-10-2018</b>
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.11</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



Map Legend

-  Core Site Boundary
-  2km Buffer of Core Site Boundary
-  Sparrowhawk Observations
-  Sparrowhawk Observations (Confirmed Breeding Territory 2016)



	MAP TITLE: <b>Breeding Raptor Sparrowhawk Observations</b>	MAP NO.: <b>Fig. 7.4.3</b>	SCALE: <b>1:56,000</b>
	PROJECT TITLE: <b>Arderroo Wind Farm. Co. Galway</b>	DATE: <b>26-09-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.09.26</b>



**Table 22: Buzzard Survey Data**






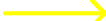
Vantage Point Surveys (Flight Data Inside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
BZ101	10/11/2016	9	Buzzard	1	10:23:00	48	14	34	0	0	WD4, (Conifer plantation) PB2, (Upland blanket bog) BZ flew from WD4 at edge of site boundary and across PB2		JH
BZ102	07/01/2017	6A	Buzzard	1	13:44:00	100	0	0	100	0	Hovering at approx 50 metres to the south of VP6a		S. Meehan
BZ103	06/06/2017	2	Buzzard	1	11:10:00	71		71					JOS
BZ105	07/01/2018	6A	Buzzard	1	08:40:00	100	0	0	100	0	Soaring at approx 70 metres over conifer woodland to the the east of VP6a		S. Meehan

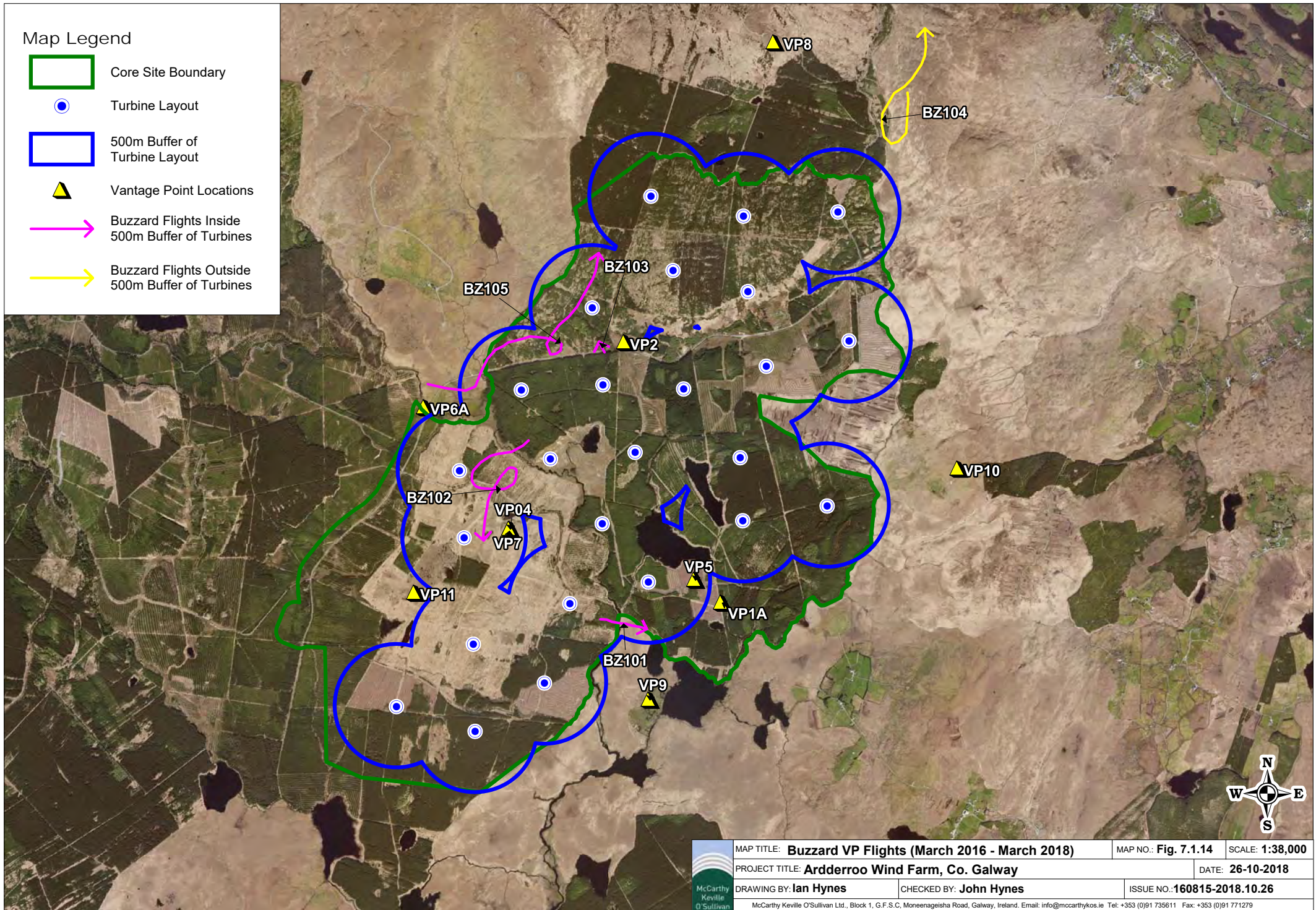
**Table 22: Buzzard Survey Data**


Vantage Point Surveys (Flight Data Outside 500m Turbine Buffer)													
Map Reference No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 PCH (25-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Surveyor
BZ104	16/12/2017	8	Buzzard	1	09:25:00	100		20	80		WD4, (Conifer plantation) PB2, (Upland blanket bog)	Soaring at approx 80 metres	S. Meehan



Map Legend

-  Core Site Boundary
-  Turbine Layout
-  500m Buffer of Turbine Layout
-  Vantage Point Locations
-  Buzzard Flights Inside 500m Buffer of Turbines
-  Buzzard Flights Outside 500m Buffer of Turbines



	MAP TITLE: <b>Buzzard VP Flights (March 2016 - March 2018)</b>	MAP NO.: <b>Fig. 7.1.14</b>	SCALE: <b>1:38,000</b>
	PROJECT TITLE: <b>Arderroo Wind Farm, Co. Galway</b>	DATE: <b>26-10-2018</b>	
	DRAWING BY: <b>Ian Hynes</b>	CHECKED BY: <b>John Hynes</b>	ISSUE NO.: <b>160815-2018.10.26</b>
	<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
09/08/2017	2	Barn Swallow	5		In flight, Calling	JOS
10/04/2017	5	Barn Swallow	1		In flight	JOS
14/04/2016	7	Barn Swallow	1		Activity: fly. Height: below. On site. Flies over VP heading S to N.	SD
11/04/2017	9	Barn Swallow	2		In flight	JOS
11/04/2017	9	Barn Swallow	1		Calling, in flight	JOS
05/07/2017	11	Barn Swallow	3		In flight, Calling	JOS
27/04/2016	1a	Barn Swallow	1		Activity: fly. Height: below. On site. Fly S to N over newly planted conifer.	SD
04/07/2017	6A	Barn Swallow	5			JOS
19/09/2017	6A	Barn Swallow	1		Calling	JOS
19/09/2017	6A	Barn Swallow	4		Calling	JOS
14/11/2017	6A	Barnacle Goose	12		PB4, (Cutover bog) WD4, (Conifer plantation) Travelling	JK
16/03/2016	2	Blackbird	1		Activity: flying Height: below. On site. Flies East to west in front of VP. Male.	SD
27/10/2016	2	Blackbird	3		Calling.	JOS
09/11/2016	2	Blackbird	4		Calling.	JOS
22/12/2016	2	Blackbird	2		Calling	JOS
08/02/2017	2	Blackbird	1		na	AOD
20/04/2017	2	Blackbird	1		perched, calling	JOS
20/04/2017	2	Blackbird	1		Calling	JOS
15/05/2017	2	Blackbird	1		Calling	JOS
05/10/2017	2	Blackbird	1		calling	JOS
11/01/2018	2	Blackbird				PM
23/03/2016	4	Blackbird	1		Activity: Calling. Height: below. On site. Alarm call from within young conifers.	SD
21/04/2016	4	Blackbird	1		Activity: fly. Height: below. On site. Flying over bog S to N.	SD
28/10/2016	4	Blackbird	1		Perched	HH

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
21/03/2016	5	Blackbird	1		Activity: Calling. Height: below. On site. Starts singing.	SD
22/03/2016	5	Blackbird	1		Activity: Calling Height: below. On site. Starts singing in vegetation.	SD
18/10/2016	5	Blackbird	1		Calling, on site	JOS
10/11/2016	5	Blackbird	2		Calling, conifers behind vp.	JOS
05/12/2016	5	Blackbird	4		In flight	HH
06/02/2017	5	Blackbird	1		na	AOD
08/02/2017	5	Blackbird	1		na	AOD
14/04/2016	7	Blackbird	1		Activity: calling. Height: below. On site. Singing on conifer edge.	SD
07/02/2017	7	Blackbird	1		na	AOD
07/04/2016	9	Blackbird	1		Activity: fly. Height: below. Off site. Flies over lake , behind conifers and out of view, 30m high and descending.	SD
10/11/2016	9	Blackbird	1		Perched, Calling.	JH
03/02/2017	9	Blackbird	1		na	AOD
02/02/2017	10	Blackbird	1		na	AOD
09/02/2017	11	Blackbird	1		na	AOD
26/03/2018	11	Blackbird	1			JC
27/04/2016	1a	Blackbird	1		Activity: calling. Height: below. On site. Short burst of song from conifer plantation edge.	SD
26/10/2016	1a	Blackbird	2		Calling	JOS
30/09/2017	1a	Blackbird	2		Calling, perch	JOS
14/11/2017	6A	Blackbird				JK
21/11/2017	6A	Blackbird				JK
20/04/2017	2	Blackcap	1		Calling.	JOS
27/10/2016	2	Blue Tit	3		Calling.	JOS
09/11/2016	2	Blue Tit	7		Calling.	JOS
22/12/2016	2	Blue Tit	2		Calling	JOS
01/02/2017	2	Blue Tit	1		na	AOD



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
08/02/2017	2	Blue Tit	2		na	AOD
20/04/2017	2	Blue tit	1		Calling	JOS
05/10/2017	2	Blue tit	2		calling	JOS
18/10/2016	5	Blue Tit	2		Calling, on site	JOS
06/02/2017	5	Blue Tit	1		na	AOD
07/02/2017	7	Blue Tit	1		na	AOD
25/10/2017	7	Blue Tit	1		Calling	JOS
10/11/2016	9	Blue Tit	1		Perched.	JH
22/11/2016	11	Blue Tit	5		Calling	JOS
09/02/2017	11	Blue Tit	2		NA	AOD
26/10/2016	1a	Blue Tit	5		Calling.	JOS
08/08/2017	1a	Blue Tit	1		Calling	JOS
19/09/2017	6A	Blue Tit	1		Calling	JOS
19/09/2017	6A	Blue Tit	1		Calling	JOS
14/11/2017	6A	Blue Tit				JK
19/01/2018	6A	Blue tit				PM
26/04/2016	2	Bullfinch	1		Activity: Perch. Height: Below. On site. Perches on conifer on roadside edge.	SD
09/11/2016	2	Bullfinch	2		Calling.	JOS
22/12/2016	2	Bullfinch	2		Calling	JOS
21/04/2017	2	Bullfinch	1		Calling	JOS
08/02/2018	2	Bullfinch	2		Band 1, 6 secs, F, Obs 04 (11:08).	CP
10/11/2016	9	Bullfinch	1		Perched.	JH
31/05/2017	11	Bullfinch	1		Calling, in flight, perched.	JOS
27/04/2016	1a	Bullfinch	2		Activity: Calling. Height: below. On site. Calling and flying between stands of mature conifer.	SD
16/03/2016	2	Chaffinch	1		Activity: Fly, perch. Height: Below. On site. Same individual, guarding territory in short flights...	SD

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
26/04/2016	2	Chaffinch	2+		Activity: Calling. Height: Below. On site. Calls and song audible from willow scrub and mature conifers for survey duration.	SD
27/10/2016	2	Chaffinch	11		Calling.	JOS
09/11/2016	2	Chaffinch	22		Calling.	JOS
22/12/2016	2	Chaffinch	3		Calling	JOS
08/02/2017	2	Chaffinch	6		na	AOD
20/04/2017	2	Chaffinch	1		perched, calling	JOS
20/04/2017	2	Chaffinch	2		perched, calling	JOS
20/04/2017	2	Chaffinch	1		In flight, perched.	JOS
21/04/2017	2	Chaffinch	3		Calling	JOS
21/04/2017	2	Chaffinch	1		Calling	JOS
15/05/2017	2	Chaffinch	5		Calling	JOS
06/06/2017	2	Chaffinch	1		Calling	JOS
09/08/2017	2	Chaffinch	1		Calling	JOS
09/08/2017	2	Chaffinch	1		Calling	JOS
13/11/2017	2	Chaffinch	2		Band 1, 9 secs, F, U/W, Obs 02.	CP
11/01/2018	2	Chaffinch				PM
21/03/2016	3	Chaffinch	1		Activity: Fly, perch. Height: PCH. On site. Lands on top of mature conifer. Likely patrolling territory.	SD
23/03/2016	4	Chaffinch	3		Activity: Calling. Height: below. On site. Calling around VP for duration.	SD
21/04/2016	4	Chaffinch	2		Activity: Calling. Height: below. On site. Singing and flying around young conifers for survey duration.	SD
28/10/2016	4	Chaffinch	3		In flight	HH
15/11/2016	4	Chaffinch	4		Calling west of vp in bog conifer.	JOS
14/03/2017	4	Chaffinch	1	17:27:00	Calling/singing	JOS
10/08/2017	4	Chaffinch	3		Calling	JOS
23/11/2017	4	Chaffinch	10		Band 1, 13 secs, F, Obs 03.	CP
23/11/2017	4	Chaffinch	9		Band 1, 28 secs, F, U/W, Obs 04.	CP

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
15/12/2017	4	Chaffinch	2		Band 1, 9 secs, F, Obs 09.	CP
30/01/2018	4	Chaffinch	2		Band 1, 12 secs, F, D/W, Obs 09 (16:28).	CP
16/02/2018	4	Chaffinch	3		Band 1, 16 secs, F, U/W, Obs 03 (08:12).	CP
19/03/2018	4	Chaffinch	1			JC
21/03/2016	5	Chaffinch	2		Activity: calling. Height: below. On site. Singing in conifers around lake.	SD
22/03/2016	5	Chaffinch	2		Activity: Calling Height: below. On site. One calling and one singing behind VP.	SD
12/04/2016	5	Chaffinch	3		Activity: Calling. Height: below. Off site. 3 males singing within the conifers beside the lake, also calling for duration.	SD
18/10/2016	5	Chaffinch	9		Calling, on site	JOS
10/11/2016	5	Chaffinch	11		Calling W of vp in conifers	JOS
08/02/2017	5	Chaffinch	3		na	AOD
10/04/2017	5	Chaffinch	2		Calling	JOS
23/03/2016	6	Chaffinch	1		Activity: calling. Height: below. On site. Audible singing in mature conifers.	SD
13/04/2016	6	Chaffinch	3+		Activity: Fly, perch. Height: below. On site. 3 males perched and foraging in hawthorn. One flies into sheep barn.	SD
24/03/2016	7	Chaffinch	1		Activity: Calling. Height: below. On site. Begins singing.	SD
14/04/2016	7	Chaffinch	1		Activity: perch. Height: below. On site. Foraging on young conifers (female).	SD
18/10/2016	7	Chaffinch	3		Perched	HH
11/11/2016	7	Chaffinch	2			JH
07/02/2017	7	Chaffinch	12		na	AOD
07/06/2017	7	Chaffinch	2		Calling	JOS
28/01/2018	7	Chaffinch	3		Band 1, 7 secs, F, U/W, Obs 06 (15:30).	CP
19/02/2018	7	Chaffinch			Band 2, 26 secs, F, U/W, Obs 05 (09:10).	CP
19/02/2018	7	Chaffinch			Band 1, 9 secs, F, D/W, Obs 07 (09:38).	CP
19/02/2018	7	Chaffinch			Band 1, 6 secs, F, U/W, Obs 12 (12:54).	CP

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
27/03/2018	7	Chaffinch	8			JC
14/03/2016	8	Chaffinch	1		Activity: calling. Height: below. On site. Audible singing.	SD
19/04/2016	8	Chaffinch	2+		Activity: calling. Height: below. On site. Song audible from conifers around VP.	SD
02/11/2016	8	Chaffinch	1		Calling	JOS
18/03/2016	9	Chaffinch	1		Activity: calling, Height: below. Off site. Singing around vegetation at VP.	SD
11/04/2017	9	Chaffinch	1		Calling	JOS
11/04/2017	9	Chaffinch	1		calling	JOS
15/03/2016	10	Chaffinch	1		Activity: calling. Height: below. Off site. Singing from linear stretch of conifers.	SD
02/02/2017	10	Chaffinch	3		NA	AOD
22/11/2016	11	Chaffinch	7		Calling	JOS
09/02/2017	11	Chaffinch	1		NA	AOD
30/03/2017	11	Chaffinch	1	08:05:00	call	JOS
26/04/2017	11	Chaffinch	1		Calling. Bog, conifers	JOS
31/05/2017	11	Chaffinch	3		Calling	JOS
05/07/2017	11	Chaffinch	1		Calling	JOS
26/03/2018	11	Chaffinch	4			JC
22/03/2016	1a	Chaffinch	2		Activity: Calling. Height: below. On site. Singing from mature conifer stands.	SD
27/04/2016	1a	Chaffinch	3+		Activity: Fly, perch, calling. Height: below. On site. Singing calling and foraging in mature conifer and newly planted conifers in front of VP.	SD
26/10/2016	1a	Chaffinch	13		Calling.	JOS
26/05/2017	1a	Chaffinch	1		Calling	JOS
13/06/2017	1a	Chaffinch	3		In flight	JOS
03/07/2017	1a	Chaffinch	1		In flight, calling.	JOS
08/08/2017	1a	Chaffinch	1		Calling	JOS



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
08/08/2017	1a	Chaffinch	1		Perched, Calling	JOS
17/11/2017	1A	Chaffinch	2		Band 1, 13 secs, F, Obs 01.	CP
17/11/2017	1A	Chaffinch			Band 1, 31 secs, F, Obs 02.	CP
17/11/2017	1A	Chaffinch			Band 1, 8 secs, F, Obs 03.	CP
26/10/2016	6A	Chaffinch	3		Perched and in flight	HH
08/12/2016	6A	Chaffinch	1		Calling	JOS
12/04/2017	6A	Chaffinch	1		Perched, calling	JOS
12/04/2017	6A	Chaffinch	1		Calling	JOS
12/04/2017	6A	Chaffinch	1		Calling	JOS
30/05/2017	6A	Chaffinch	3		Calling, in flight.	JOS
02/06/2017	6A	Chaffinch	1		In flight, calling.	JOS
04/07/2017	6A	Chaffinch	1		Calling	JOS
02/10/2017	6A	Chaffinch	1		Calling	JOS
02/10/2017	6A	Chaffinch	2		Calling	JOS
14/11/2017	6A	Chaffinch				JK
16/11/2017	6A	Chaffinch				JK
21/11/2017	6A	Chaffinch				JK
12/03/2018	6a	Chaffinch	3			JC
12/03/2018	6a	Chaffinch	1			JC
12/03/2018	6a	Chaffinch	3			JC
12/03/2018	6a	Chaffinch	1			JC
21/04/2017	2	Chiffchaff	1		Calling	JOS
15/05/2017	2	Chiffchaff	1		Calling	JOS
08/12/2016	7	Chiffchaff	1		Perched and in flight	HH
16/03/2016	2	Coal Tit	1		Activity: Flying, calling. Height: Below. On site. Flies, calling in front of VP. East to west and lands on conifer.	SD
22/12/2016	2	Coal Tit	3		Calling	JOS
08/02/2017	2	Coal Tit	2		na	AOD
15/05/2017	2	Coal Tit	2		Calling	JOS
09/08/2017	2	Coal Tit	2		Calling	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
09/08/2017	2	Coal Tit	4		Calling	JOS
05/12/2017	2	Coal Tit			Band 1, 7 secs, F, Obs 10.	CP
21/03/2016	3	Coal Tit	1		Activity: Fly. Height:below. On site. Flies over forestry track.	SD
28/10/2016	4	Coal Tit	1		Perched	HH
07/02/2017	4	Coal Tit	1	07:20:00		JOS
07/02/2017	4	Coal Tit	3	08:41:00		JOS
07/02/2017	4	Coal Tit	3	13:30:00		JOS
06/10/2017	4	coal tit	4		In flight, calling	JOS
22/03/2016	5	Coal Tit	1		Activity: Calling Height: below. On site. Singing W of VP.	SD
06/02/2017	5	Coal Tit	3		na	AOD
08/02/2017	5	Coal Tit	1		na	AOD
10/04/2017	5	Coal Tit	1		Calling	JOS
16/11/2017	5	Coal Tit			Band 1, 11 secs, F, D/W, Obs 02.	CP
13/04/2016	6	Coal Tit	1		Singing at plantation edge.	SD
18/10/2016	7	Coal Tit	1		Perched	HH
08/12/2016	7	Coal Tit	2			HH
07/02/2017	7	Coal Tit	2		na	AOD
14/09/2017	7	Coal Tit	1		In flight, Calling	JOS
14/09/2017	7	Coal Tit	4		Calling	JOS
25/10/2017	7	Coal Tit	3		Calling	JOS
25/10/2017	7	Coal Tit	3		Calling	JOS
19/04/2016	8	Coal Tit	1		Activity: perch. Height: Below. Off site. Perched on conifers.	SD
18/01/2018	8	Coal Tit			Band 1, 6 secs, F, Obs 10 (16:00).	CP
07/04/2016	9	Coal Tit	1		Activity: calling. Height: below. Off site. Singing in conifers behind VP.	SD
17/10/2016	11	Coal Tit	1		In flight	HH
09/02/2017	11	Coal Tit	2		NA	AOD

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
26/04/2017	11	Coal Tit	1		Calling. Bog, conifers	JOS
26/04/2017	11	Coal Tit	1		Calling	JOS
05/07/2017	11	Coal Tit	1		Calling	JOS
17/08/2017	11	Coal Tit	1		Calling	JOS
17/08/2017	11	Coal Tit	4		Calling	JOS
15/09/2017	11	Coal Tit	4		Calling	JOS
10/10/2017	11	coal tit	4		In flight, calling	JOS
22/03/2016	1a	Coal Tit	1		Activity: Calling. Height: below. On site. Singing in mature conifer stands E of VP.	SD
08/08/2017	1a	Coal Tit	1		Calling	JOS
20/12/2017	7	Common Snipe	1	09:00:00	WD4, (Conifer plantation)	S. Meehan
15/02/2018	8	Common Snipe	1	12:18:00	WD4, (Conifer plantation) HH3, (Wet heath)	CP
10/12/2017	9	Common Snipe	1	12:09:00		S. Meehan
21/12/2017	11	Common Snipe	1	09:28:00	WD4, (Conifer plantation) PB2, (Upland blanket bog)	S. Meehan
21/02/2018	11	Common Snipe	1	11:05:00	WS5, (Recently-felled woodland) WD4, (Conifer plantation) Flushed by Hen Harrier from previous obs (10).	CP
22/12/2016	2	Crossbill	3		Calling	JOS
20/04/2017	2	Crossbill	2		In flight, calling.	JOS
21/04/2017	2	Crossbill	1		Calling	JOS
15/05/2017	2	Crossbill	2		Calling	JOS
09/08/2017	2	Crossbill	2		Calling	JOS
09/08/2017	2	Crossbill	3		Calling	JOS
05/10/2017	2	Crossbill	5		Fly, calling.	JOS
05/12/2017	2	Crossbill	7		Band 1, 19 secs, F, Obs 03.	CP
05/12/2017	2	Crossbill	7		Band 2, 45 secs, F, Obs 05.	CP
05/12/2017	2	Crossbill	2		Band 2, 12 secs, F, Obs 09.	CP
11/01/2018	2	Crossbill				PM
08/02/2018	2	Crossbill	4		Band 2, 14 secs, F, U/W, Obs 01 (08:20).	CP
08/02/2018	2	Crossbill			Band 2, 17 secs, F, U/W, Obs 03 (10:44).	CP

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
10/03/2018	2	Crossbill			Band 2, 16 secs, F, Obs 01 (14:29).	CP
10/03/2018	2	Crossbill	2		Band 2, 9 secs, F, Obs 06 (17:36).	CP
21/04/2016	4	Crossbill	2+		Activity: Perch. Height: below. On site. Male and female perching on conifers around VP.	SD
28/10/2016	4	Crossbill	5		In flight	HH
15/11/2016	4	Crossbill	13		Calling	JOS
07/02/2017	4	Crossbill	1	09:01:00		JOS
07/02/2017	4	Crossbill	1	11:37:00		JOS
07/02/2017	4	Crossbill		13:14:00		JOS
14/03/2017	4	Crossbill	2	15:56:00	Calling, in flight over bog.	JOS
10/08/2017	4	Crossbill	4		Calling	JOS
06/10/2017	4	Crossbill	5		In flight, calling	JOS
15/12/2017	4	Crossbill	5		Band 2, 23 secs, F, U/W, Obs 06.	CP
30/01/2018	4	Crossbill	2		Band 3, 12 secs, F, D/W, Obs 02 (13:16).	CP
16/02/2018	4	Crossbill			Band 1, 18 secs, F, U/W, Obs 02 (08:05).	CP
10/11/2016	5	Crossbill	3		Calling from conifers behind vp.	JOS
05/12/2016	5	Crossbill	1		In flight	HH
16/11/2017	5	Crossbill			Band 1, 15 secs, F, U/W, Obs 03.	CP
17/01/2018	5	Crossbill			Band 1, 16 secs, F, U/W, Obs 04 (13:55).	CP
17/01/2018	5	Crossbill	2		Band 2, 19 secs, F, Obs 07 (15:49).	CP
18/02/2018	5	Crossbill	2		Band 1, 10 secs, F, D/W, Obs 04 (08:41).	CP
24/03/2016	7	Crossbill	2		Activity: perch. Height: below. On site. Male and female perched on conifers beside VP.	SD
18/10/2016	7	Crossbill	3		In flight	HH
08/12/2016	7	Crossbill	8		In flight	HH
26/01/2017	7	Crossbill	1		In flight, calling.	JOS
07/06/2017	7	Crossbill	1		Calling	JOS
14/09/2017	7	Crossbill	3		Calling	JOS
19/02/2018	7	Crossbill			Band 2, 16 secs, F, U/W, Obs 04 (08:37).	CP



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
14/03/2016	8	Crossbill	3		Activity: fly, perch. Height: below. On site. 1 male and 2 female. Antagonistic interaction and feeding, in conifers below 10m.	SD
19/04/2016	8	Crossbill	1		Activity: fly. Height: Below. On site. Flies, calling and lands on top of conifer to S of VP. Male.	SD
02/11/2016	8	Crossbill	4		In conifers, 2 female, 1 male.	JOS
18/01/2018	8	Crossbill			Band 1, 16 secs, F, Obs 09 (15:23).	CP
18/03/2016	9	Crossbill	2		Activity: Fly, perch, calling. Height: below. Off site. Flying, singing, perching at conifers at VP.	SD
07/04/2016	9	Crossbill	1		Activity: perch, calling. Height: below. Off site. Males perched and calling in conifers behind VP.	SD
11/04/2017	9	Crossbill	1		Calling	JOS
09/03/2018	9	Crossbill	2		Band 1, 12 secs, F, Obs 01 (12:57).	CP
09/03/2018	9	Crossbill	2		Band 1, 24 secs, F, U/W, Obs 02 (15:46).	CP
27/10/2016	10	Crossbill	1		Heard only	HH
22/11/2016	11	Crossbill	9		Calling	JOS
02/12/2016	11	Crossbill	12		In flight	HH
09/02/2017	11	Crossbill	2		NA	AOD
30/03/2017	11	Crossbill	1	08:05:00	call	JOS
26/04/2017	11	Crossbill	1		In flight, Calling. Bog, conifers	JOS
26/04/2017	11	Crossbill	3		In flight, Calling. Bog, conifers	JOS
31/05/2017	11	Crossbill	5		In flight, calling	JOS
05/07/2017	11	Crossbill	1		In flight, Calling	JOS
10/10/2017	11	Crossbill	3		In flight, calling	JOS
24/11/2017	11	Crossbill			Band 2, 17 secs, F, Obs 02.	CP
26/10/2016	1a	Crossbill	10		Calling.	JOS
06/12/2016	1A	Crossbill	1		In flight	HH
03/07/2017	1a	Crossbill	2		calling	JOS
08/08/2017	1a	Crossbill	2		In flight, Calling	JOS
30/09/2017	1a	Crossbill	1		Calling	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
03/12/2017	1A	Crossbill	2		Band 3, 43 secs, F, Obs 01.	CP
14/01/2018	1A	Crossbill	3		Band 2, 17 secs, FU/W, Obs 04.	CP
26/10/2016	6A	Crossbill	5		In flight	HH
08/12/2016	6A	Crossbill	2		In flight, calling.	JOS
12/04/2017	6A	Crossbill	2		in flight, calling	JOS
12/04/2017	6A	Crossbill	1			JOS
19/09/2017	6A	Crossbill	1		Calling	JOS
19/09/2017	6A	Crossbill	1		Calling	JOS
26/04/2017	4	Cuckoo		15:02:00	Heard calling. No visual	DMCG
26/04/2017	4	Cuckoo		15:47:00	Heard calling. No visual	DMCG
26/04/2017	4	Cuckoo		16:28:00	Calling and perched on apical tip of Pine tree	DMCG
26/04/2017	4	Cuckoo	1	17:38:00	flew east. Landed on top of pine. Started calling. Followed closely by MP.	DMCG
26/04/2017	4	Cuckoo	1	17:57:00	perched momentarily on dead standing pine. Called. Flew south.	DMCG
26/04/2017	4	Cuckoo		19:02:00	Heard calling. Perched on Pine.	DMCG
15/05/2017	4	Cuckoo	1	20:26:00	Calling and flying. Landed and perched on top of Pine tree.	DMCG
26/05/2017	5	Cuckoo	1	04:27:00	Heard calling. No visual	DMCG
26/05/2017	5	Cuckoo	2	08:31:00	Flew and calling east. Perched on Young Pine.	DMCG
31/05/2017	7	Cuckoo	1	06:32:00	Flew west calling	DMcG
19/04/2016	8	Cuckoo	1		Activity: calling. Height: Below. On site. Song audible from conifers to SE of VP.	SD
20/04/2017	8	Cuckoo		06:02:00	Heard calling. No visual. Frequently until 06:48	DMCG
21/04/2017	8	Cuckoo		09:06:00	Heard calling. No visual	DMCG
21/04/2017	8	Cuckoo		09:52:00	Heard calling. No visual	DMCG
21/04/2017	8	Cuckoo		10:00:00	Heard calling. No visual	DMCG
02/05/2017	8	Cuckoo		15:34:00	Heard calling. No visual	DMCG
02/05/2017	8	Cuckoo	1	19:21:00	Flew west and landed on pine. Started calling. Followed closely by MP	DMCG

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
06/06/2017	8	Cuckoo	1	10:23:00	Flew west along conifer / PB boundry	DMCG
03/05/2017	10	Cuckoo	1	15:56:00	Heard Calling. No Visual	DMCG
03/05/2017	10	Cuckoo	1	18:24:00	Flew low over bog from near coniferes where other Ck was calling. Returned Call after Flight Stopped	DMCG
03/05/2017	10	Cuckoo	2	20:20:00	hear calling, no visual	DMCG
03/05/2017	10	Cuckoo	1	20:29:00	calling from pine tree	DMCG
26/04/2017	11	Cuckoo	1		Calling. Bog, conifers	JOS
31/05/2017	11	Cuckoo	1		Calling	JOS
26/05/2017	1a	Cuckoo	2		Calling, in flight.	JOS
27/10/2016	2	Dunnock	1		Calling.	JOS
09/11/2016	2	Dunnock	2		Calling.	JOS
22/12/2016	2	Dunnock	4		Calling	JOS
08/02/2017	2	Dunnock	2		na	AOD
21/03/2016	3	Dunnock	1		Activity: Calling. Height:below. On site. Perched on top of young conifer calling.	SD
15/11/2016	4	Dunnock	1		Calling conifers west of vp.	JOS
19/03/2018	4	Dunnock	1			JC
18/10/2016	5	Dunnock	5		In flight, below pch, Calling, on site	JOS
10/11/2016	5	Dunnock	4		Calling conifers N of VP	JOS
22/11/2016	11	Dunnock	3		Calling. In flight.	JOS
22/03/2016	1a	Dunnock	1		Activity: calling. Height: Below. On site. Starts singing in stand of conifers to East of VP.	SD
26/10/2016	1a	Dunnock	3		Calling.	JOS
11/11/2016	6A	Dunnock	1		Calling, bog.	JOS
08/12/2016	6A	Dunnock	1		Calling	JOS
12/03/2018	6a	Dunnock	1			JC
09/11/2016	2	Fieldfare	54		Calling. In flight along conifer treeline.	JOS
28/10/2016	4	Fieldfare	102		In flight	HH
18/10/2016	5	Fieldfare	2		Perch, Calling, on site	JOS
10/11/2016	5	Fieldfare	2		Calling behind vp.	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
11/11/2016	7	Fieldfare	18			JH
09/11/2016	8	Fieldfare	200		In flight and perched	HH
10/11/2016	9	Fieldfare	19			JH
27/10/2016	10	Fieldfare	241		In flight	HH
09/11/2016	10	Fieldfare	16			JH
22/11/2016	11	Fieldfare	42		Calling	JOS
26/10/2016	1a	Fieldfare	11		Calling.	JOS
26/10/2016	6A	Fieldfare	77		In flight	HH
11/11/2016	6A	Fieldfare	424		On site. Calling.	JOS
16/03/2016	2	Goldcrest	1		Activity: Calling Height: below. On site. Singing in conifer line behind VP.	SD
09/11/2016	2	Goldcrest	1		Calling.	JOS
20/04/2017	2	Goldcrest	1		perched, calling	JOS
21/04/2017	2	Goldcrest	1		Calling	JOS
15/05/2017	2	Goldcrest	1		Calling	JOS
21/03/2016	3	Goldcrest	1		Activity: Fly. Height: below. On site. Flying low in thicket between trees.	SD
28/06/2017	4	Goldcrest	1			JOS
10/04/2017	5	Goldcrest	1		Calling	JOS
14/04/2016	7	Goldcrest	1		Activity: calling. Height: below. On site. Singing in older conifers.	SD
18/10/2016	7	Goldcrest	1		Perched	HH
14/03/2016	8	Goldcrest	1		Activity: fly. Height: below. On site. Flying west to east in front of VP.	SD
18/03/2016	9	Goldcrest	1		Activity: calling. Height: below. Off site. Singing in vegetation behind VP.	SD
07/04/2016	9	Goldcrest	1		Activity: calling. Height: below. Off site. Singing in conifers behind VP.	SD
17/10/2016	11	Goldcrest	1		In flight	HH



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
22/03/2016	1a	Goldcrest	1		Activity: Calling. Height: Below. On site. Starts singing in mature conifer stand south of VP.	SD
26/05/2017	1a	Goldcrest	1		Calling	JOS
12/04/2017	6A	Goldcrest	1			JOS
21/11/2017	6A	Goldcrest				JK
11/11/2016	6A	Golden Pheasant	1		Calling/ singing by vp.	JOS
13/11/2017	2	Goldfinch	4		Band 1, 15 secs, F, U/W. Obs 03.	CP
07/02/2017	7	Goldfinch	5		na	AOD
28/01/2018	7	Goldfinch			Band 1, 17 secs, F, Obs 03 (12:45).	CP
02/02/2017	10	Goldfinch	3		NA	AOD
02/10/2017	6A	Goldfinch	3		Calling	JOS
14/02/2018	6A	Goldfinch			Band 1, 8 secs, F, U/W, Obs 03 (09:10).	CP
14/02/2018	6A	Goldfinch	2		Band 1, 16 secs, F, Obs 07 (10:06).	CP
04/07/2017	6A	Grasshopper Warbler	1			JOS
07/07/2017	9	Great Black-backed Gull	1	11:16:00	WD4, (Conifer plantation) PB4, (Cutover bog) Flies NW over conifers, veers SW, drops to band 1, flies west over clearfell, ascends to band 2, out of view into conifer canopy.	JOS
13/06/2017	1a	Great Black-backed Gull	1	10:42:00		JOS
03/12/2017	1A	Great Black-backed Gull	4	11:29:00	WD4, (Conifer plantation)	CP
16/03/2016	2	Great Tit	2		Activity: Calling Height: below.GT invades territory of another and both call.	SD
01/02/2017	2	Great Tit	1		na	AOD
20/04/2017	2	Great Tit	1		Perched	JOS
15/05/2017	2	Great Tit	1		Calling	JOS
11/01/2018	2	Great Tit				PM
21/03/2016	3	Great Tit	1		Activity: calling. Height: below. On site. Singing in tree conifer next to VP.	SD
21/03/2016	5	Great Tit	1		Activity: calling. Height: Below. On site. Singing in mature conifers to W of VP.	SD

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
22/03/2016	5	Great Tit	1		Activity: Calling Height: below. On site. Singing east of VP.	SD
12/04/2016	5	Great Tit	1		Activity: Calling. Height: below. On site. Calling and singing in conifers.	SD
06/02/2017	5	Great Tit	1		na	AOD
10/04/2017	5	Great Tit	1		Calling	JOS
24/03/2016	7	Great Tit	1		Activity: Calling, Height: Below. On site.Singing.	SD
19/04/2016	8	Great Tit	1		Activity: calling. Height: Below. On site. Audible singing in conifers to E of VP.	SD
18/03/2016	9	Great Tit	1		Activity: calling. Height: below. Off site. Singing in vegetation behind VP.	SD
03/02/2017	9	Great Tit	1		na	AOD
17/10/2016	11	Great Tit	1		In flight	HH
22/03/2016	1a	Great Tit	1		Activity: Calling. Height: Below. On site. Singing in mature conifers.	SD
26/10/2016	1a	Great Tit	1		Calling.	JOS
03/07/2017	1a	Great Tit	1		perched, calling.	JOS
11/11/2016	6A	Great Tit	1		calling in conifers	JOS
19/01/2018	6A	Great Tit				PM
26/04/2016	2	Greenfinch	1		Activity: Fly. Height: Below. On site. Flies across in front of VP over dead bracken.	SD
03/02/2017	9	Greenfinch	1		na	AOD
10/11/2016	9	Grey Heron	1	10:52:00	WD4, (Conifer plantation) PB2, (Upland blanket bog) FL1, (Dystrophic lakes) H flew along WD4 and landed on FL1 within PB2	JH
09/08/2017	2	Grey Heron	1	08:38:00	Call; no visual.	JOS
11/04/2017	9	Grey Heron	1	20:17:00	Flies NW over bog, lands on stream.	JOS
07/07/2017	9	Grey Heron	1	13:11:00	Lake In reedbed, along lake shore, fishing.	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
07/08/2017	10	Grey Heron	1	06:40:00	Flew North	DMcG
09/11/2017	10	Grey Heron	1	17:40:00	PB2, (Upland blanket bog) Calling, Flying	Sean Ronayne
14/06/2017	6A	Grey Heron	1	15:06:00	H. travelling east	DMCG
08/12/2016	6A	Grey Heron	1	11:51:00	PB, (Bogs) Perched on hawthorn tree in bog.	JOS
08/12/2016	6A	Grey Heron	1	16:06:00	Perched on Hawthorn tree.	JOS
26/10/2016	6A	Grey Wagtail	1		In flight	HH
26/04/2016	2	Hooded Crow	2		Activity: Fly. Height: PCH. On site. Flying N from conifers at 50m high.	SD
27/10/2016	2	Hooded Crow	6		in flight, calling.	JOS
05/10/2017	2	Hooded crow	1		Fly, calling.	JOS
05/12/2017	2	Hooded Crow	2		Band 2, 14 secs, F, Obs 06.	CP
05/12/2017	2	Hooded Crow			Band 2, 18 secs, F, Obs 07.	CP
05/12/2017	2	Hooded Crow			Band 2, 13 secs, F, Obs 11.	CP
08/02/2018	2	Hooded crow			Band 2, 23 secs, F, D/W, Obs 02 (08:28).	CP
10/03/2018	2	Hooded Crow			Band 3, 21 secs, F, Obs 05 (17:25).	CP
21/03/2016	3	Hooded Crow	1		Activity: calling. Height: below. On site. Audible calling. Likely in flight (moving) but not visible.	SD
21/04/2016	4	Hooded Crow	1		Activity: fly. Height: below. On site. Flying to NW of VP.	SD
15/11/2016	4	Hooded Crow	5		Calling	JOS
07/02/2017	4	Hooded Crow	1	10:01:00		JOS
15/12/2017	4	Hooded Crow			Band 2, 33 secs, F, Obs 11.	CP
15/12/2017	4	Hooded Crow	2		Band 3, 42 secs, F, Obs 13.	CP
30/01/2018	4	Hooded crow			Band 3, 28 secs, F, Obs 11 (17:01).	CP
16/02/2018	4	Hooded crow			Band 1, 31 secs, F, U/W, Obs 06 (10:27).	CP
21/03/2016	5	Hooded Crow	1		Activity: Calling. On site. Audible to west of VP.	SD
22/03/2016	5	Hooded Crow	1		Activity: Calling Height: below. On site. Audible to west of VP.	SD
18/10/2016	5	Hooded Crow	3		In flight, below pch, Calling, on site	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
10/11/2016	5	Hooded Crow	3		In flight, band 1/2, perch on conifer.	JOS
17/01/2018	5	Hooded crow			Band 3, 23 secs, F, U/W, Obs 05 (14:58).	CP
18/02/2018	5	Hooded crow			Band 2, 17 secs, F, DW, Obs 03 (08:29).	CP
18/02/2018	5	Hooded crow			Band 3, 21 secs, F, D/W, Obs 11 (12:26).	CP
23/03/2016	6	Hooded Crow	1		Activity: perch, calling. Height: PCH. On site. Audible calling then perches on shed.	SD
13/04/2016	6	Hooded Crow	1		Activity:Fly . Height: below. On site. Flies over newly planted forest and lands on tree.	SD
24/03/2016	7	Hooded Crow	1		Activity: perch. Height: below. On site. Perched on top of conifer tree to west of VP.	SD
18/10/2016	7	Hooded Crow	2		In flight	HH
08/12/2016	7	Hooded Crow	7			HH
14/09/2017	7	Hooded Crow	1		Calling	JOS
28/01/2018	7	Hooded crow			Band 2, 19 secs, F, Obs 05 (15:12).	CP
18/01/2018	8	Hooded crow			Band 3, 20 secs, F, Obs 04 (12:46).	CP
18/01/2018	8	Hooded crow	2		Band 2, 15 secs, F, U/W, Obs 11 (16:15).	CP
15/02/2018	8	Hooded crow	2		Band 3, 29 secs, F, Obs 03 (08:20).	CP
18/03/2016	9	Hooded Crow	3		Activity: Fly, height: PCH. Location: On site. Fly through bog and into site over brash.	SD
10/11/2016	9	Hooded Crow	4			JH
11/04/2017	9	Hooded Crow	1		Calling	JOS
21/01/2018	9	Hooded crow	2		Band 2, 19 secs, F, D/W, Obs 03 (12:33).	CP
21/01/2018	9	Hooded crow			Band 3, 39 secs, F, U/W, Obs 04 (15:44).	CP
09/03/2018	9	Hooded Crow			Band 3, 27 secs, F, D/W, Obs 05 (17:28).	CP
15/03/2016	10	Hooded Crow	4		Activity: fly Height: below. On site. Antagonistic interaction between 4 next to VP.	SD
27/10/2016	10	Hooded Crow	1		Heard only	HH
19/01/2018	10	Hooded crow	2		Band 2, 28 secs, F, Obs 01 (11:41).	CP
19/01/2018	10	Hooded crow			Band 1, 26 secs, F, U/W, Obs 06 (16:50).	CP
20/02/2018	10	Hooded crow			Band 2, 38 secs, F, Obs 03 (10:16).	CP



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
20/02/2018	10	Hooded crow			Band 3, 68 secs, F, Obs 04 (12:37).	CP
22/11/2016	11	Hooded Crow	1		In flight, over conifers.	JOS
02/12/2016	11	Hooded Crow	1		Unknown	HH
09/02/2017	11	Hooded Crow	3		na	AOD
31/05/2017	11	Hooded Crow	2		In flight, calling.	JOS
27/01/2018	11	Hooded crow	2		Band 3, 18 secs, F, D/W, Obs 01 (12:14).	CP
27/01/2018	11	Hooded crow	3		Band 1, 10 secs, Band 2, 16 secs, F, D/W, Obs 02 (12:33).	CP
22/03/2016	1a	Hooded Crow	1		Activity: Calling. Height: Below. On site. Calls flying behind trees to SW of VP.	SD
10/11/2016	1A	Hooded Crow	2		In flight	HH
26/05/2017	1a	Hooded Crow	1		Calling	JOS
17/11/2017	1A	Hooded Crow			Band 3, 24 secs, F, D/W, Obs 10.	CP
03/12/2017	1A	Hooded Crow			Band 2, 17 secs, F, U/W, Obs 08.	CP
14/01/2018	1A	Hooded crow			Band 3, 29 secs, F, D/W, Obs 01.	CP
14/01/2018	1A	Hooded crow			Band 2, 25 secs, F, D/W, Obs 05.	CP
14/01/2018	1A	Hooded crow	3		Band 1, 16 secs, F, Obs 07.	CP
13/02/2018	1A	Hooded crow			Band 2, 18 secs, F, D/W, Obs 03 (09:41).	CP
26/10/2016	6A	Hooded Crow	22		Perched	HH
11/11/2016	6A	Hooded Crow	2		call. In flight.	JOS
18/11/2016	6A	Hooded Crow	2		Perched on tree	JOS
08/12/2016	6A	Hooded Crow	17		In flight, band 1, perched on rock.	JOS
12/04/2017	6A	Hooded Crow	3		In flight	JOS
12/04/2017	6A	Hooded Crow	2			JOS
02/06/2017	6A	Hooded Crow	1		In flight, calling.	JOS
04/07/2017	6A	Hooded Crow	3			JOS
02/10/2017	6A	Hooded crow	2		Fly	JOS
02/10/2017	6A	Hooded crow	2		Calling	JOS
14/11/2017	6A	Hooded Crow				JK
16/11/2017	6A	Hooded Crow				JK

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
21/11/2017	6A	Hooded Crow				JK
19/01/2018	6A	Hooded Crow				PM
14/02/2018	6A	Hooded crow	2		Band 1, 18 secs, F, U/W, Obs 02 (08:37).	CP
14/02/2018	6A	Hooded crow			Band 2, 19 secs, F, Obs 05 (09:47).	CP
14/02/2018	6A	Hooded crow	4		Band 2, 27 secs, F, Obs 06 (10:05).	CP
14/02/2018	6A	Hooded crow			Band 2, 14 secs, F, Obs 11 (12:39).	CP
19/01/2018	6A	House Sparrow				PM
21/11/2017	6A	Jackdaw				JK
22/12/2016	2	Jay	1		Calling	JOS
13/06/2017	1a	Jay	1		In flight	JOS
30/09/2017	1a	Jay	1		In flight, calling	JOS
30/09/2017	1a	Jay	1		Fly, perch	JOS
30/09/2017	1a	Jay	2		Fly, perch	JOS
18/11/2016	6A	Jay	1		Flies across bog, band 1, lands on tree, then flies NW.	JOS
04/07/2017	2	Lesser Black-backed Gull	1	16:01:00	Flew North, Turned West	DMcG
29/03/2017	7	Lesser Black-backed Gull	3	08:58:00	Flies over bog.	JOS
12/04/2017	7	Lesser Black-backed Gull	1	19:57:00	Flew west before turning North. Disappeared over conifers.	DMCG
11/04/2017	9	Lesser Black-backed Gull	2	15:37:00	Conifers Soaring over conifers, fly north, circle SE, drop down out of view.	JOS
03/05/2017	10	Lesser Black-backed Gull	1	19:10:00	PB3, (Lowland blanket bog) WD4, (Conifer plantation) Flew West and began circling over conifers. Disappeared against glare of sunlight	DMCG
30/05/2017	6A	Lesser Black-backed Gull	1	09:14:00	Flies over compound, then west out of view, 47s, band 3.	JOS
26/04/2016	2	Lesser Redpoll	1		Activity: Calling. Height: Below. On site. Calls audible in willow scrub.	SD
20/04/2017	2	Lesser Redpoll	1		Calling	JOS
21/04/2017	2	Lesser Redpoll	3		Calling	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
21/03/2016	3	Lesser Redpoll	1		Activity: calling. Height: below. On site. Audible from within mature conifers around VP.	SD
23/03/2016	4	Lesser Redpoll	1		Activity: Calling. Height: below. On site. Flies over VP calling	SD
21/04/2016	4	Lesser Redpoll	2		Activity: fly, calling. Height: below. On site. Flying in front of VP.	SD
28/10/2016	4	Lesser Redpoll	1		In flight	HH
23/11/2017	4	Lesser Redpoll	3		Band 1, 12 secs, F, D/W, Obs 01.	CP
23/11/2017	4	Lesser Redpoll	5		Band 1, 8 secs, F, Obs 02.	CP
15/12/2017	4	Lesser Redpoll	2		Band 1, 19 secs, F, Obs 01.	CP
16/02/2018	4	Lesser Redpoll	15		Band 1, 29 secs, F, U/W, Obs 01 (07:50).	CP
22/03/2016	5	Lesser Redpoll	2		Activity: Fly. Height: below. On site. Fly over newly planted conifers.	SD
12/04/2016	5	Lesser Redpoll	1		Activity: Fly, Calling. Height: below. On site. Flies over VP calling.	SD
18/10/2016	5	Lesser Redpoll	5		Calling, on site	JOS
10/11/2016	5	Lesser Redpoll	5		In flight, band 2, calling.	JOS
10/04/2017	5	Lesser Redpoll	1		Calling	JOS
10/04/2017	5	Lesser Redpoll	3		Perched. Calling	JOS
16/11/2017	5	Lesser Redpoll			Band 1, 9 secs, F, Obs 05.	CP
16/11/2017	5	Lesser Redpoll			Band 1, 14 secs, F, D/W, Obs 06.	CP
16/11/2017	5	Lesser Redpoll			Band 1, 5 secs, F, Obs 07.	CP
17/01/2018	5	Lesser Redpoll	2		Band 1, 12 secs, F, U/W, Obs 03 (12:28).	CP
17/01/2018	5	Lesser Redpoll			Band 1, 9 secs, F, U/W, Obs 08 (16:15).	CP
24/03/2016	7	Lesser Redpoll	1		Activity: Fly. Height: below. On site. Flies over bog, young conifers, calling.	SD
14/04/2016	7	Lesser Redpoll	3		Activity: fly. Height: below. On site. Fly over VP calling.	SD
08/12/2016	7	Lesser Redpoll	1		In flight	HH
25/10/2017	7	Lesser Redpoll	20		In flight, calling, perches.	JOS
25/10/2017	7	Lesser Redpoll	25		In flight, calling, perches.	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
19/02/2018	7	Lesser Redpoll			Band 1, 12 secs, F, U/W, Obs 01 (07:40).	CP
19/02/2018	7	Lesser Redpoll	2		Band 1, 10 secs, F, U/W, Obs 02 (08:00).	CP
19/02/2018	7	Lesser Redpoll			Band 1, 18 secs, F, U/W, Obs 03 (08:15).	CP
19/04/2016	8	Lesser Redpoll	1		Activity: perch. Height: Below. Off site. Perched on rock near VP.	SD
02/11/2016	8	Lesser Redpoll	2		In conifers south of vp, calling.	JOS
18/03/2016	9	Lesser Redpoll	1		Activity: calling, Height: below. Off site. Calls audible from bog.	SD
07/04/2016	9	Lesser Redpoll	2		Activity: calling. Height: below. Off site. Calls and foraging in vegetation around VP.	SD
11/04/2017	9	Lesser Redpoll			Fly	JOS
26/04/2017	11	Lesser Redpoll	5		In flight, Calling. Bog, conifers	JOS
26/03/2018	11	Lesser Redpoll	1			JC
22/03/2016	1a	Lesser Redpoll	1		Activity: Fly. Height: Below. On site. Flies over newly planted forest, calling.	SD
27/04/2016	1a	Lesser Redpoll	3+		Activity: Calling. Height: below. On site. Several audible, calling over newly planted conifers.	SD
26/10/2016	1a	Lesser Redpoll	1		Calling	JOS
17/11/2017	1A	Lesser Redpoll			Band 1, 14 secs, F, U/W, Obs 06.	CP
17/11/2017	1A	Lesser Redpoll			Band 1, 17 secs, F, U/W, Obs 07.	CP
03/12/2017	1A	Lesser Redpoll	2		Band 1, 19 secs, F, D/W, Obs 05.	CP
14/01/2018	1A	Lesser Redpoll	2		Band 1, 12 secs, F, U/W, Obs 03.	CP
18/11/2016	6A	Lesser Redpoll	1		In flight, band 2, over bog, conifers, wet grassland. Calling.	JOS
08/12/2016	6A	Lesser Redpoll	1		Calling	JOS
12/04/2017	6A	Lesser Redpoll	6		Fly, perch, call	JOS
12/04/2017	6A	Lesser Redpoll	1			JOS
02/06/2017	6A	Lesser Redpoll	2		In flight, calling.	JOS
05/10/2017	2	Linnet	17		fly, perch, call.	JOS
11/01/2018	2	Linnet				PM



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
06/10/2017	4	Linnet	38		In flight, calling	JOS
18/10/2016	5	Linnet	20		In flight, below pch, Calling, on site	JOS
06/02/2017	5	Linnet	6		na	AOD
11/11/2016	7	Linnet	1			JH
22/11/2016	11	Linnet	5		Calling, in flight.	JOS
26/10/2016	1a	Linnet	15		Calling	JOS
02/06/2017	6A	Linnet	3		In flight, calling.	JOS
14/11/2017	6A	Linnet				JK
19/01/2018	6A	Linnet				PM
05/07/2017	11	Little Grebe	1	10:18:00	Lake Calling from lake; no visual.	JOS
21/02/2018	11	Little Grebe	1	10:22:00	PB3, (Lowland blanket bog) FL1, (Dystrophic lakes) Flew across bog into lake.	CP
26/03/2018	11	Little Grebe	1	14:41:00	FW, (Watercourses) Calling	JC
27/10/2016	2	Long-tailed Tit	31		In flight, Calling. Perched.	JOS
09/11/2016	2	Long-tailed Tit	60		Calling.	JOS
20/04/2017	2	Long-tailed Tit	2		Calling	JOS
21/04/2017	2	Long-tailed Tit	1		Calling	JOS
05/10/2017	2	Long-tailed Tit	5		Fly, calling.	JOS
21/03/2016	3	Long-tailed Tit	2+		Activity: Fly. Height:below. On site. Small flock (at least 20) moving through conifers.	SD
27/03/2018	7	Long-tailed Tit	2			JC
17/10/2016	11	Long-tailed Tit	9		In flight	HH
22/11/2016	11	Long-tailed Tit	5		Fly, perch, call. Fly amongst willows by vp, calling.	JOS
11/11/2016	6A	Long-tailed Tit	2		perched in tree.	JOS
12/03/2018	6a	Long-tailed Tit	5			JC
09/11/2016	2	Magpie	1		Calling.	JOS
18/02/2018	5	Magpie			Band 1, 8 secs, F, D/W, Obs 05 (08:54).	CP
15/03/2016	10	Magpie	1		Activity: fly Height:pch and below. On site. Flying along conifer/bog boundary, gaining height into trees.	SD
09/11/2016	10	Magpie	1			JH

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
02/02/2017	10	Magpie	3		NA	AOD
16/11/2017	6A	Magpie				JK
21/11/2017	6A	Magpie				JK
21/11/2017	6A	Magpie				JK
16/03/2016	2	Mallard	1	13:14:00	Female flies over scrub and mature forestry at 25m high.	SD
22/06/2016	2	Mallard	1	11:48		SM
27/10/2016	2	Mallard	2	12:47:00	Fly over conifers, W, out of view.	JOS
27/10/2016	2	Mallard	2	12:47:00	Fly over conifers, W, out of view.	JOS
21/04/2017	2	Mallard	2	10:17:00	Male and female, fly north, band 1, land in scrub.	JOS
21/04/2017	2	Mallard	2	11:49:00	Fly NE, circle SW.	JOS
10/03/2018	2	Mallard	2	16:40:00	WD4, (Conifer plantation) Pair, up and down from a stream in young forestry.	CP
23/03/2016	4	Mallard	2	15:40:00	2 males fly up from pond, loop and continue SW. Rising 25-30m	SD
23/03/2016	4	Mallard	1	16:10:00	(Likely one of earlier individuals) up to 30m - male flies up from W pond in wide loop to W of pond and back.	SD
21/04/2016	4	Mallard	2	07:33:00	Commuting - pair flying at 30m, over lake, past VP and continue Sw over bog.	SD
28/05/2016	4	Mallard	2	16:01:00		SM
28/05/2016	4	Mallard	2	16:01		SM
28/05/2016	4	Mallard	1	17:22:00		SM
28/05/2016	4	Mallard	1	17:22		SM
29/06/2016	4	Mallard	3	11:35	*Moorhen on small lake in front of VP4	SM
24/09/2016	4	Mallard	1	07:16:00	Landed in lake to the north of VP4	SM
07/12/2016	4	Mallard	1	09:33:00	In flight	HH
07/12/2016	4	Mallard	1	09:34:00	In flight	HH
14/03/2017	4	Mallard	3	17:22:00		JOS
26/04/2017	4	Mallard	1	16:11:00	Flew West Disappeared over conifers	DMCG
26/04/2017	4	Mallard		21:25:00	Heard calling. No visual	DMCG

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
05/07/2017	4	Mallard	1	13:58:00	Flew North. Turned East. Calling	DMcG
05/07/2017	4	Mallard	1	12:07:00	Flew east, then south.	DMcG
18/09/2017	4	Mallard	1	18:32:00	Bog/conifer flies east band 2	JOS
06/10/2017	4	Mallard	1	07:05:00	bog/pond Flies west lands on lake	JOS
06/10/2017	4	Mallard	2	08:31:00	Bog/pond fly west, circle east. Land on pond.	JOS
06/10/2017	4	Mallard	4	08:38:00	Bog/comifer fly east over bog, calling.	JOS
06/10/2017	4	Mallard		08:40:00	Pond calling from pond, no visual.	JOS
06/10/2017	4	Mallard	1	10:55:00		JOS
06/10/2017	4	Mallard	2	11:52:00	Fly east, circle S, band 1.	JOS
19/03/2018	4	Mallard	1	17:10:00	WD4, (Conifer plantation) Flying	JC
21/03/2016	5	Mallard	1	17:07:00	30-40m, Males flies into field of view from south (recently planted) and descends to lake at S bank	SD
21/03/2016	5	Mallard	1	17:24:00	approx. 40-50m high, flying S to NE, calling and OOV.	SD
22/03/2016	5	Mallard	2	16:10:00	Activity: Height: site. Male and female, below 10m, short Activity: Height: site. Flight along pond back to roost, then east on bank of lake.	SD
22/03/2016	5	Mallard	1	17:16:00	Female - 1m - flies east to west, skims over surface of lake and lands on bank.	SD
22/03/2016	5	Mallard	1	17:36:00	Activity: Height: site. Male -40m - flying N, then veers east. Likely from pond S of VP, calling.	SD
12/04/2016	5	Mallard	3	07:19:00	Ascending, 35-40m, 3 fly out of pond and NE over conifers.	SD
12/04/2016	5	Mallard	1	08:22:00	Ascending to 30m, Male lifts from lake and flies east over conifers.	SD
12/04/2016	5	Mallard	1	08:23:00	Descending from 30m, second males follows first east over conifers.	SD
12/04/2016	5	Mallard	1	08:25:00	30m down to lake, one individual returns and lands on lake.	SD
12/04/2016	5	Mallard	1	08:26:00	Ascends to 30m moments later, same individual leaves lake again.	SD

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
12/04/2016	5	Mallard	3	10:32:00	High - 50-60m down to 40m. 2 male and 1 female fly in from E, circle lake and head east again, likely to other lake.	SD
12/04/2016	5	Mallard	1	10:34:00	Short flight over lake surface at 1m and lands again in water, calling. Has bath and preens.	SD
12/04/2016	5	Mallard	1	16:15:00	15m, males flies in from south, swims w and lands in lake.	SD
24/05/2016	5	Mallard	2	15:32:00	Both males observed flying a short distance amongst lake vegetation	SM
24/05/2016	5	Mallard	1	20:53:00		SM
24/05/2016	5	Mallard	1	20:53		SM
24/05/2016	5	Mallard	2	07:40:48	Both males observed flying a short distance amongst lake vegetation	SM
15/06/2016	5	Mallard	2	08:14	Two birds flew into the lake from the west.	SM
22/07/2016	5	Mallard	2	01:40:48		SM
29/09/2016	5	Mallard	1	19:11:00		SM
10/11/2016	5	Mallard	1	08:27:00	Lifted from lake, calling, then flew SW over conifer and bog, out of view over conifer woodland.	JOS
10/04/2017	5	Mallard	1	16:24:00	Male, flew W, veered south east, out of view over conifers.	JOS
10/04/2017	5	Mallard	1	16:39:00	Male, flew west over lake, band 1, 8s, ascends to band 2, 7s, flies out of view into canopy.	JOS
10/04/2017	5	Mallard	2	16:52:00	Male, flies west along treeline, band 1, out of view into canopy.	JOS
10/04/2017	5	Mallard	1	17:17:00	Flew south, band 2 calling, out of view behind conifers.	JOS
10/04/2017	5	Mallard	1	18:00:00	Flew north over lake, band 1, landed on lake near shore, 7s, band 1.	JOS
10/04/2017	5	Mallard	1	20:55:00	Calling, flies SW, band 1, out of view over canopy.	JOS
26/05/2017	5	Mallard	1	05:11:00	Heard calling. No visual	DMCG
26/05/2017	5	Mallard	1	07:08:00	Flew from lake shore to water's surface	DMCG



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
03/10/2017	5	Mallard	1	S	WD4, (Conifer plantation) FL1, (Dystrophic lakes) Travelling, calling	Sean Ronayne
03/10/2017	5	Mallard	1	09:37:00	FL1, (Dystrophic lakes) Travelling, calling	Sean Ronayne
15/12/2017	5	Mallard	3	10:20:00	Three males flying over Conifer plantation and lakes	S. Meehan
15/12/2017	5	Mallard	2	13:09:00	Male and female flying over Conifer plantation and lakes	S. Meehan
17/01/2018	5	Mallard	2	11:43:00	WD4, (Conifer plantation) FL2, (Acid oligotrophic lakes) Pair	CP
29/03/2018	5	Mallard	2	14:33:00	FW, (Watercourses) In lake	JC
29/03/2018	5	Mallard	1	15:42:00	Circled around, back into lake	JC
23/03/2016	6	Mallard	1	12:45:00	Male. Flies east to west along river. Rises up to 8m then descends again.	SD
13/04/2016	6	Mallard	2	15:39:00	Two birds fly east over river - 4m high.	SD
13/04/2016	6	Mallard	1	16:15:00	Low and fast - 8m. Males flies from river NE, past VP and toward compound.	SD
13/04/2016	6	Mallard	1	17:17:00	5m - males flies along river N to E. Short and low.	SD
13/04/2016	6	Mallard	2	19:35:00	2-3m - Male and female fly along river and land to E of VP.	SD
16/05/2016	7	Mallard	2	08:17:00	Both males. Short flight from scrub into lake to the immediate north of VP7	SM
16/05/2016	7	Mallard	2	08:17	Both males. Short flight from scrub into lake to the immediate north of VP7	SM
11/11/2016	7	Mallard	1	07:12:00	MA calling from PB2	JH
29/03/2017	7	Mallard	2	08:40:00		JOS
29/03/2017	7	Mallard	2	08:51:00		JOS
12/04/2017	7	Mallard	1	19:43:00	Heard calling. No visual	DMCG
12/04/2017	7	Mallard	1	21:05:00	Heard calling. No visual	DMCG
11/07/2017	7	Mallard	1	10:04:00	Flew in large, wide circle	DMcG
20/12/2017	7	Mallard	3	08:36:00	Three males flying over Conifer plantation	S. Meehan
27/03/2018	7	Mallard	1	16:43:00	WD4, (Conifer plantation) PB, (Bogs) Flying	JC

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
27/03/2018	7	Mallard	1	17:21:00	WD4, (Conifer plantation) Traveling	JC
14/03/2016	8	Mallard	1	12:00:00	Female flies out of heath and out of view of observer - 2-3m.	SD
14/03/2016	8	Mallard	2	16:47:00	Approx. 70m, 2 fly out from near lake, continue E gain in height and swing north.	SD
14/03/2016	8	Mallard	2	17:42:00	Male and female, approx. 40-50m. Fly from NE and around hill to west gaining in height as they go over flat area.	SD
19/04/2016	8	Mallard	1	07:43:00	Male, calling, flying west from area around lake 25-40m high.	SD
19/04/2016	8	Mallard	1	09:17:00	15 seconds in total, 10 seconds on site. Male. 60-70m. Flying NE from area around lake, behind hill and VP.	SD
18/05/2016	8	Mallard	1	16:21:00		SM
18/05/2016	8	Mallard	1	16:21		SM
13/06/2016	8	Mallard	1	07:16		SM
20/07/2016	8	Mallard	1	09:50:24		SM
22/09/2016	8	Mallard	1	09:22:00	Flying to the east of VP8	SM
20/04/2017	8	Mallard		05:51:00	Heard calling. No visual	DMCG
20/04/2017	8	Mallard		07:52:00	Heard calling. No visual	DMCG
16/12/2017	8	Mallard	2	13:47:00	Two males flying over Conifer plantation	S. Meehan
18/03/2016	9	Mallard	1	08:50:00	Off site. Ma flies over bog from E and lands in river - 25m.	SD
18/03/2016	9	Mallard	3	08:51:00	(2 female and 1 male). 3 more fly in from E, over river, circle bog and out of view over conifers.	SD
18/03/2016	9	Mallard	1	08:51:00	Male flushed by other 3, circles and out of view and flies over brash.	SD
07/04/2016	9	Mallard	2	16:32:00	Observed for 255s, 10 of which were in the study area. Male and female fly W (likely from lake), circle and head N over conifers. 30m.	SD
20/05/2016	9	Mallard	4	05:21:00	3 males and 1 female flew short distance between two lakes.	SM

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
20/05/2016	9	Mallard	4	05:21	3 males and 1 female flew short distance between two lakes.	SM
14/07/2016	9	Mallard	1	09:50:24		SM
14/07/2016	9	Mallard	2	05:16:48		SM
17/10/2016	9	Mallard	2	16:29:00	Fly low over bog, land in stream out of view.	JOS
17/10/2016	9	Mallard	2	16:34:00	Pair (likely pair from ref. 2 above), lift from stream, fly over bog, behind conifers out of view.	JOS
03/02/2017	9	Mallard	4	15:42:00	Travelling	AOD
31/03/2017	9	Mallard	2	08:06:00	Travelling	AOD
31/03/2017	9	Mallard	2	10:24:00	Travelling	AOD
11/04/2017	9	Mallard	1	15:20:00	Flies south, band 1, ascends to band 2, 2 seconds, descends, goes out of view behind conifers.	JOS
11/04/2017	9	Mallard	1	17:11:00	Flies low over bog SE, circles back N, lands in stream.	JOS
11/04/2017	9	Mallard	1	19:45:00	On lake	JOS
11/04/2017	9	Mallard	1	20:00:00	Flies NE, low over lake, lands on lake behind vp.	JOS
11/04/2017	9	Mallard	1	20:04:00	Flies east from lake to lake behind vp (lough na Ard Dioriu)	JOS
13/09/2017	9	Mallard	1	17:59:00	bog Flies low, south along course of river.	JOS
08/11/2017	9	Mallard	2	13:18:00	FL1, (Dystrophic lakes) GA1, (Improved agricultural grassland) Travelling	Sean Ronayne
10/12/2017	9	Mallard	2	08:19:00	WD4, (Conifer plantation) PB2, (Upland blanket bog)	S. Meehan
09/03/2018	9	Mallard	2	16:55:00	WD4, (Conifer plantation) Pair	CP
17/05/2016	10	Mallard	1	20:04:00		SM
17/05/2016	10	Mallard	1	20:04		SM
29/05/2016	11	Mallard	1	19:09:00		SM
29/05/2016	11	Mallard	1	19:09		SM
02/12/2016	11	Mallard	1		Unknown	HH
30/03/2017	11	Mallard	2	06:48:00		JOS
30/03/2017	11	Mallard	3	07:38:00		JOS
30/03/2017	11	Mallard	2	07:59:00		JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
30/03/2017	11	Mallard	1	08:01:00		JOS
30/03/2017	11	Mallard	3	09:15:00		JOS
30/03/2017	11	Mallard	2	10:13:00		JOS
30/03/2017	11	Mallard	3	10:21:00		JOS
30/03/2017	11	Mallard	3	11:26:00		JOS
30/03/2017	11	Mallard	1	11:28:00		JOS
31/05/2017	11	Mallard	1	10:28:00	Flies south over bog and conifers, out of view behind conifers.	JOS
11/08/2017	11	Mallard	1	06:17:00	Mallard calling from lake, no visual.	JOS
11/08/2017	11	Mallard	3	07:30:00	WD4, (Conifer plantation) Fly NE, over conifers, band 2, drop to band 1, land out of view.	JOS
17/08/2017	11	Mallard	6	07:23:00	WD4, (Conifer plantation) Commuting over conifers.	JOS
21/12/2017	11	Mallard	1	09:47:00	WD4, (Conifer plantation) PB2, (Upland blanket bog)	S. Meehan
26/03/2018	11	Mallard		19:51:00	WD4, (Conifer plantation) Flying	JC
26/03/2018	11	Mallard	1	15:39:00	FW, (Watercourses) PB, (Bogs) WD4, (Conifer plantation) Flew NE	JC
22/03/2016	1a	Mallard	2	09:35:00	Likely from pond - 20- 25m - fly over newly felled forest between mature stands, SE past lough Naweelen, and north out of site	SD
22/03/2016	1a	Mallard	1	09:47:00	40m + descend, males arrives from north calling. Flies over Lough Naweela + over planted forestry + south, likely to pond.	SD
27/04/2016	1a	Mallard	1	15:13:00	Commuting - flying est to west at 35m over lake/conifer plantation.	SD
27/04/2016	1a	Mallard	2	20:46:00	Male and female - 8-10m - fly across newly planted conifers and land in drain next to road, (there is some water here).	SD
23/06/2016	1a	Mallard	2	12:49	Landed in Lough Naweelan	SM
23/07/2016	1a	Mallard	1	06:14:24		SM
06/12/2016	1A	Mallard	1	11:33:00	In flight	HH
31/03/2017	1a	Mallard	1	06:25:00		JOS



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
31/03/2017	1a	Mallard	2	06:53:00		JOS
31/03/2017	1a	Mallard	1	09:49:00		JOS
31/03/2017	1a	Mallard	1	12:39:00		JOS
11/04/2017	1a	Mallard	1	15:30:00	Male Ma Preening on top of light green, spongy, wet vegetation. Far side of Lake	DMCG
11/04/2017	1a	Mallard	1	17:14:00	Male Ma flew from Tullaghroone Lough, N, out of site over conifers	DMCG
11/04/2017	1a	Mallard	1	20:52:00	Heard calling. No visual	DMCG
11/04/2017	1a	Mallard	1	20:55:00	Flew with 4 T. (Observ. No. 6) over Vp 1a. Calling.	DMCG
13/06/2017	1a	Mallard		13:50:00	Calling from lake, no visual.	JOS
13/06/2017	1a	Mallard	1	15:44:00	Flew south over bog and conifers, band 2.	JOS
08/08/2017	1a	Mallard	1	05:10:00	Calling near Lough Naweelan, no visual .	JOS
08/08/2017	1a	Mallard	1	05:21:00	Calling; no visual.	JOS
08/08/2017	1a	Mallard	1	09:56:00	Calling (to NW of vp); no visual.	JOS
30/09/2017	1a	Mallard	1	08:01:00	In flight west	JOS
28/03/2018	1a	Mallard	1	16:35:00	Flew NW over Lough Naweelan	JOS
28/03/2018	1a	Mallard	2	17:00:00	Pair flew SE, circle NW over Lough Naweelan	JOS
28/03/2018	1a	Mallard	3	17:00:00	Flew with pair above SE over Lough Naweelan	JOS
28/03/2018	1a	Mallard	2	18:40:00	Flew SE over Lough Naweelan	JOS
30/05/2016	6A	Mallard	1	10:07:00	Pair of wheatear and grey wagtail observed along the road at VP6	SM
30/05/2016	6A	Mallard	1	10:07	Pair of wheatear and grey wagtail observed along the road at VP6	SM
24/06/2016	6A	Mallard	1	06:19	Landed in a ditch in the agri fields	SM
18/11/2016	6A	Mallard	4	09:30:00	Flight band 1, briefly come into view, then descend onto wetland ponds.	JOS
18/11/2016	6A	Mallard	2	09:31:00	Flew east, circled SW ,ascended to band 2, then up to band 3 over bog and conifers.	JOS
18/11/2016	6A	Mallard	2	09:40:00	Fly north, band 2, over conifers, ascend to band 3, then circle NW over bog, go out of view behind crest of hill (band 1).	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
08/12/2016	6A	Mallard	1	17:15:00	Flight band 1, flies from pond, NW, circles NE over compound, lands on bog out of view.	JOS
10/03/2017	6A	Mallard	1	06:50:00	Travelling	AOD
10/03/2017	6A	Mallard	2	12:30:00	Travelling	AOD
30/05/2017	6A	Mallard	1	09:17:00	Mallard circles over barn, lands on pond, band 1, 10s.	JOS
04/07/2017	6A	Mallard	1	11:14:00	In flight NW, low over bog. On site 11s.	JOS
04/07/2017	6A	Mallard	1	14:10:00	Female, flies low over bog, out of view behind crest of hill.	JOS
04/07/2017	6A	Mallard	1	15:01:00	Female, flies west over bog.	JOS
02/10/2017	6A	Mallard	2	09:28:00	Bog	JOS
02/10/2017	6A	Mallard	2	12:17:00	Bog	JOS
14/02/2018	6A	Mallard	2	11:58:00	GS3, (Dry-humid acid grassland) GS4, (Wet grassland) WD4, (Conifer plantation)	CP
27/10/2016	2	Meadow Pipit	1		In flight, Calling.	JOS
09/11/2016	2	Meadow Pipit	1		Calling, on site.	JOS
01/02/2017	2	Meadow Pipit	1		na	AOD
23/03/2016	4	Meadow Pipit	3		Activity: fly. Height: below. On site. Fly over VP for duration of survey.	SD
21/04/2016	4	Meadow Pipit	10+		Activity: Fly. Height: below. On site. Small flock foraging/ flying over bog within viewshed.	SD
28/10/2016	4	Meadow Pipit	3		In flight	HH
15/11/2016	4	Meadow Pipit	15		In flight NW, band 1	JOS
14/03/2017	4	Meadow Pipit	2	13:20:00		JOS
28/06/2017	4	Meadow Pipit	3			JOS
10/08/2017	4	Meadow Pipit	2		Calling	JOS
19/03/2018	4	Meadow Pipit	2			JC
19/03/2018	4	Meadow Pipit	3			JC
21/03/2016	5	Meadow Pipit	3		Activity: Flying. Height: PCH and Below. On site. Flying over recently planted forest. Some display flights.	SD

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
22/03/2016	5	Meadow Pipit	2		Activity: Fly Height: PCH. On site. Display song and flights over newly planted forest, 15-20m high.	SD
12/04/2016	5	Meadow Pipit	1		Activity: fly. Height: below. On site. Display flight over newly planted conifers - 15m>.	SD
18/10/2016	5	Meadow Pipit	8		In flight, below pch, Calling, on site	JOS
10/11/2016	5	Meadow Pipit	11		In flight band 2.	JOS
16/11/2017	5	Meadow Pipit			Band 1, 8 secs, F, U/W, Obs 04.	CP
29/03/2018	5	Meadow Pipit				JC
23/03/2016	6	Meadow Pipit	6		Activity: Fly. Height: PCH and below. On site. Flock singing and displaying over bog.	SD
13/04/2016	6	Meadow Pipit	9		Activity: Fly. Height: below. On site. Small flock flying over bog on average 20m high.	SD
24/03/2016	7	Meadow Pipit	5		Activity: Flying. Height: PCH and below. On site. Display songs and flight throughout survey.	SD
14/04/2016	7	Meadow Pipit	2+		Activity:fly, calling. Height: below. On site. Display flights and singing over bog for survey duration.	SD
08/12/2016	7	Meadow Pipit	2		In flight	HH
26/01/2017	7	Meadow Pipit	1		In flight, calling	JOS
14/09/2017	7	Meadow Pipit	3		In flight, Calling	JOS
14/09/2017	7	Meadow Pipit	3		Calling	JOS
25/10/2017	7	Meadow pipit	2		Calling	JOS
25/10/2017	7	Meadow Pipit	3		Calling	JOS
14/03/2016	8	Meadow Pipit	5		Activity: fly, calling. Height: below. On site. Small flock flying around heath, calling, some singing for survey duration.	SD
19/04/2016	8	Meadow Pipit	4		Activity: Fly. Height: Below. Off site. Flying around VP perching, foraging for survey duration.	SD
02/11/2016	8	Meadow Pipit	10		Flight band 1, calling, flies east over bog.	JOS
09/12/2016	8	Meadow Pipit	1		In flight	HH
22/09/2017	8	Meadow Pipit	5		In flight, calling	JOS
22/09/2017	8	Meadow Pipit	5		In flight, calling	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
18/01/2018	8	Meadow pipit			Band 1, 11 secs, F, Obs 01 (11:21).	CP
18/03/2016	9	Meadow Pipit	3		Activity: Fly Height: below. Off site. 3 fly over bog adjacent to site.	SD
07/04/2016	9	Meadow Pipit	2		Activity: Fly. Height: below. Off site. Flying around bog in front of VP, for duration of survey.	SD
03/02/2017	9	Meadow Pipit	7		na	AOD
11/04/2017	9	Meadow Pipit	5		Perched, calling	JOS
11/04/2017	9	Meadow Pipit	2		In flight, perched, call	JOS
15/03/2016	10	Meadow Pipit	1		Activity: fly. Height: below. Off site. Flying along over heath	SD
27/10/2016	10	Meadow Pipit	8		In flight	HH
09/11/2016	10	Meadow Pipit	1			JH
02/02/2017	10	Meadow Pipit	1		NA	AOD
17/10/2016	11	Meadow Pipit	4		In flight	HH
22/11/2016	11	Meadow Pipit	6		In flight.	JOS
02/12/2016	11	Meadow Pipit	22		In flight and perched	HH
15/09/2017	11	Meadow Pipit	1		Calling	JOS
21/02/2018	11	Meadow pipit			Band 1, 12 secs, F, D/W, Obs 01 (08:09).	CP
21/02/2018	11	Meadow pipit	3		Band 1, 15 secs, Band 2, 24 secs, F/glide, SF, Obs 02 (08:13).	CP
21/02/2018	11	Meadow pipit	3		Band 1, 21 secs, F, Obs 03 (08:19).	CP
21/02/2018	11	Meadow pipit			Band 1, 13 secs, F, Obs 12 (11:20).	CP
22/03/2016	1a	Meadow Pipit	2		Activity: Fly. Height: Below. On site. Flies in front of VP over forestry track and new forest.	SD
26/10/2016	1a	Meadow Pipit	6		Calling	JOS
26/10/2016	6A	Meadow Pipit	6		In flight	HH
11/11/2016	6A	Meadow Pipit	9		In flight, calling.	JOS
18/11/2016	6A	Meadow Pipit	6		In flight, calling, over bog.	JOS
08/12/2016	6A	Meadow Pipit	2		In flight, band 1, calling.	JOS
30/05/2017	6A	Meadow Pipit	4		Calling in flight.	JOS



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
02/06/2017	6A	Meadow Pipit	3		In flight, calling.	JOS
04/07/2017	6A	Meadow Pipit	4			JOS
04/07/2017	6A	Meadow Pipit	4		Calling	JOS
19/09/2017	6A	Meadow Pipit	1		Calling	JOS
19/09/2017	6A	Meadow Pipit	5		Calling	JOS
02/10/2017	6A	Meadow pipit	3		Calling	JOS
19/01/2018	6A	Meadow pipit				PM
14/02/2018	6A	Meadow pipit	6		Band 1, 13 secs, F, U/W, Obs 04 (09:21).	CP
14/02/2018	6A	Meadow pipit			Band 1, 8 secs, F, U/W, Obs 10 (12:18).	CP
12/03/2018	6a	Meadow Pipit	1			JC
27/10/2016	2	Mistle Thrush	1		In flight, band 2. Calling.	JOS
09/11/2016	2	Mistle Thrush	3		Calling, on site. In flight, band 3.	JOS
23/03/2016	6	Mistle Thrush	2		Activity: Flying. Height: PCH. On site. Flying south to west over conifers.	SD
18/10/2016	7	Mistle Thrush	20		Perched and in flight	HH
19/04/2016	8	Mistle Thrush	1		Activity: fly. Height: Below. Off site. Flies past VP and behind hill over bog.	SD
22/09/2017	8	Mistle Thrush	2		In flight, calling	JOS
07/04/2016	9	Mistle Thrush	2		Activity: fly. Height: pch and below. Off site. Flying over bog south of VP.	SD
27/10/2016	10	Mistle Thrush	1		In flight	HH
09/11/2016	10	Mistle Thrush	28			JH
02/02/2017	10	Mistle Thrush	1		NA	AOD
09/02/2017	11	Mistle Thrush	1		na	AOD
22/03/2016	1a	Mistle Thrush	1		Activity: Calling. Height: below. On site. Sing ing in mature conifers.	SD
26/10/2016	1a	Mistle Thrush	7		Calling.	JOS
03/12/2017	1A	Mistle Thrush	2		Band 1, 28 secs, F, U/W, Obs 04.	CP
02/06/2017	6A	Mistle Thrush	2		In flight, calling.	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
26/04/2017	11	Moorhen	1		Lake Calling from lake, no visual.	JOS
13/04/2016	6	Northern Wheatear	1		Foraging on the short grass in bog. Short, low flights, male.	SD
15/05/2017	2	Pheasant	1		Calling	JOS
21/04/2016	4	Pheasant	1		Activity: Calling. Height: below. On site. Regular calls from N throughout survey are audible.	SD
22/03/2016	5	Pheasant	1		Activity: Calling. On site. Audible to east.	SD
12/04/2016	5	Pheasant	2		Activity: Calling. Height: below. On site. Audible calling, one to the north and one to the south, regularly throughout survey.	SD
14/04/2016	7	Pheasant	1		Activity: calling. Height: below. On site. Audible calling from behind VP.	SD
19/04/2016	8	Pheasant	1		Activity: calling. Height: Below. On site. Call audible from S of VP.	SD
18/03/2016	9	Pheasant	1		Activity: Calling. Height: below. On site. Audible calling from brash within site boundary.	SD
07/04/2016	9	Pheasant	1		Activity: calling. Off site. Audible to south of VP calling	SD
03/02/2017	9	Pheasant	1		na	AOD
22/03/2016	1a	Pheasant	1		Activity: Calling. Height: Below. On site. Audible in wider surroundings.	SD
02/06/2017	6A	Pheasant	1		Calling.	JOS
04/07/2017	6A	Pheasant	1		Perched.	JOS
18/10/2016	7	Pied Wagtail	1		In flight	HH
26/10/2016	6A	Pied Wagtail	2		Perched	HH
18/11/2016	6A	Pied Wagtail	3			JOS
08/12/2016	6A	Pied Wagtail	5		Flight, band 1	JOS
02/10/2017	6A	Pied Wagtail	3		Fly, calling.	JOS
01/04/2016	1	Raven	2		Adult	JOS
16/03/2016	2	Raven	2		2 flying and calling. Circle of plantation and continue west.	SD

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
01/04/2016	2	Raven	1		Adult	JOS
09/11/2016	2	Raven	1		Calling, in flight.	JOS
22/12/2016	2	Raven	1		Calling	JOS
09/08/2017	2	Raven	1		In flight, Calling	JOS
09/08/2017	2	Raven	2		In flight, Calling	JOS
09/08/2017	2	Raven	2		In flight, Calling	JOS
09/08/2017	2	Raven	2		In flight, Calling	JOS
05/12/2017	2	Raven			Band 2, 28 secs, F, Obs 01.	CP
05/12/2017	2	Raven			Band 2, 17 secs, F, Obs 02.	CP
05/12/2017	2	Raven			Band 2, 22 secs, F, D/W, Obs 04.	CP
11/01/2018	2	Raven				PM
08/02/2018	2	Raven	3		Band 3, 48 secs, F, Obs 05 (11:09).	CP
15/11/2016	4	Raven	8		In flight, band 3, east to west, calling	JOS
07/02/2017	4	Raven	2	10:05:00		JOS
06/10/2017	4	Raven	7		In flight, calling	JOS
15/12/2017	4	Raven	2		Band 2, 69 secs, F, U/W, Obs 03.	CP
16/02/2018	4	Raven	4		Band 2, 28 secs, F, Obs 09 (11:55).	CP
19/03/2018	4	Raven	1			JC
19/03/2018	4	Raven	1			JC
18/10/2016	5	Raven	1		Calling, on site	JOS
05/12/2016	5	Raven	2		In flight	HH
08/02/2017	5	Raven	1		na	AOD
11/09/2017	5	Raven	1		Calling	JOS
01/10/2017	5	Raven	3		In flight	JOS
16/11/2017	5	Raven			Band 3, 19 secs, F, D/W, Obs 01.	CP
17/01/2018	5	Raven			Band 3, 18 secs, F, D/W, Obs 02 (12:07).	CP
17/01/2018	5	Raven	2		Band 3, 41 secs, F, D/W, Obs 06 (15:37).	CP
18/02/2018	5	Raven			Band 3, 25 secs, F, D/W, Obs 02 (08:12).	CP
18/02/2018	5	Raven	2		Band 3, 40 secs, F, D/W, Obs 08 (10:45).	CP
18/02/2018	5	Raven			Band 2, 18 secs, F, Obs 10 (11:40).	CP

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
29/03/2018	5	Raven				JC
24/03/2016	7	Raven	2		8m - flying north to SW of VP over bog, calling. Joined by second bird and returns north. One perches on felled branches.	SD
28/06/2016	7	Raven	2		Flying towards the south of the site.	SM
18/10/2016	7	Raven	1		In flight	HH
08/12/2016	7	Raven	1		In flight	HH
14/09/2017	7	Raven	2		Calling	JOS
25/10/2017	7	Raven	2		In flight, calling	JOS
25/10/2017	7	Raven	2		in flight, calling.	JOS
25/10/2017	7	Raven	2		In flight, calling	JOS
28/01/2018	7	Raven			Band 3, 23 secs, F, D/W, Obs 10 (16:55).	CP
14/03/2016	8	Raven	1		Up to 20m, rises from heath S, rolling and calling towards conifers.	SD
20/07/2016	8	Raven	8			SM
02/11/2016	8	Raven	7		Over conifers, calling, band 2.	JOS
09/11/2016	8	Raven	12		In flight	HH
09/12/2016	8	Raven	3		In flight	HH
18/01/2018	8	Raven	2		Band 3, 26 secs, F, U/W, Obs 03 (12:28).	CP
18/01/2018	8	Raven			Band 2, 19 secs, F, U/W, Obs 05 (13:06).	CP
18/01/2018	8	Raven			Band 3, 31 secs, F, U/W, Obs 07 (13:55).	CP
18/01/2018	8	Raven	2		Band 2, 22 secs, F, U/W, Obs 08 (15:18).	CP
15/02/2018	8	Raven			Band 3, 21 secs, F, U/W, Obs 01 (07:33).	CP
15/02/2018	8	Raven	3		Band 3, 48 secs, F, Obs 02 (07:48).	CP
07/03/2018	8	Raven			Band 2, 18 secs, F, Obs 01 (18:02).	CP
03/02/2017	9	Raven	1		na	AOD
21/01/2018	9	Raven			Band 2, 28 secs, F, D/W, Obs 01 (11:51).	CP
21/01/2018	9	Raven	3		Band 3, 42 secs, F, D/W, Obs 02 (12:22).	CP
23/08/2016	10	Raven	10			SM
09/12/2016	10	Raven	2		Band 1. Pair of raven circle over vp, calling.	JOS



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
02/02/2017	10	Raven	6		Displaying	AOD
19/01/2018	10	Raven	3		Band 3, 52 secs, F, Obs 02 (12:28).	CP
19/01/2018	10	Raven			Band 2, 48 secs, F, D/W, Obs 04 (13:59).	CP
19/01/2018	10	Raven			Band 3, 39 secs, F, Obs 05 (15:03).	CP
20/02/2018	10	Raven			Band 3, 45 secs, F, U/W, Obs 01 (08:23).	CP
20/02/2018	10	Raven	2		Band 3, 52 secs, F, U/W, Obs 02 (09:10).	CP
08/03/2018	10	Raven			Band 3, 33 secs, F, Obs 01 (13:10).	CP
17/10/2016	11	Raven	2		In flight	HH
22/11/2016	11	Raven	1		In flight.	JOS
02/12/2016	11	Raven	9		In flight	HH
09/02/2017	11	Raven	2		Displaying	AOD
27/01/2018	11	Raven			Band 3, 25 secs, F, Obs 03 (12:52).	CP
27/01/2018	11	Raven			Band 3, 26 secs, F, mobbing WE, Obs 05 (13:04).	CP
27/01/2018	11	Raven			Band 2, 15 secs, F, U/W, Obs 06 (15:19).	CP
27/01/2018	11	Raven			Band 3, 22 secs, F, D/W, Obs 07 (15:35).	CP
10/11/2016	1A	Raven	2		In flight	HH
30/09/2017	1a	Raven	7		In flight.	JOS
17/11/2017	1A	Raven			Band 2, 118 secs, F, D/W, Obs 05.	CP
03/12/2017	1A	Raven	2		Band 1, 53 secs, F, Obs 02.	CP
03/12/2017	1A	Raven			Band 1, 10 secs, F, D/W, Obs 03.	CP
03/12/2017	1A	Raven			Band 3, 46 secs, F, U/W, Obs 07.	CP
03/12/2017	1A	Raven	2		Band 3, 21 secs, F, U/W, Obs 09.	CP
14/01/2018	1A	Raven	2		Band 2, 18 secs, F, D/W, Obs 02.	CP
14/01/2018	1A	Raven			Band 3, 23 secs, F, Obs 06.	CP
13/02/2018	1A	Raven			Band 3, 23 secs, F, D/W, Obs 01 (07:27).	CP
26/10/2016	6A	Raven	4		In flight	HH
18/11/2016	6A	Raven	1		In flight, band 3, over conifers and bog, flies N.	JOS
08/12/2016	6A	Raven	2		Calling, in flight, band 1, aggressive interaction. One individual flies N the other SW, over wet grassland, bog and conifer	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
02/10/2017	6A	Raven	4		In flight	JOS
14/11/2017	6A	Raven				JK
14/11/2017	6A	Raven				JK
19/01/2018	6A	Raven				PM
02/10/2017	6A	Redpoll	45		fly, perch, call.	JOS
28/10/2016	4	Redwing	6		In flight	HH
10/11/2016	9	Redwing	1			JH
27/10/2016	10	Redwing	2		In flight	HH
26/10/2016	6A	Redwing	7		In flight	HH
28/10/2016	4	Reed Bunting	1		Heard only	HH
23/11/2017	4	Reed Bunting			Band 1, 12 secs; Band 2, 21 secs (33). F, Obs 05.	CP
15/12/2017	4	Reed Bunting			Band 1, 8 secs, F, D/W, Obs 02.	CP
15/12/2017	4	Reed Bunting	2		Band 1, 16 secs, F, U/W, Obs 08.	CP
15/12/2017	4	Reed Bunting	5		Band 1, 9 secs, F, Obs 14.	CP
30/01/2018	4	Reed Bunting	4		Band 1, 14 secs, F, U/W, Obs 03 (12:26).	CP
30/01/2018	4	Reed Bunting	25		Band 1, 19 secs, F, D/W, Obs 08 (15:25).	CP
30/01/2018	4	Reed Bunting	40		Band 1, 8 secs, F, D/W, Obs 10 (16:37).	CP
16/02/2018	4	Reed Bunting			Band 1, 14 secs, F, U/W, Obs 04 (08:50).	CP
16/02/2018	4	Reed Bunting	25		Band 1, 22 secs, F, U/W, Obs 07 (10:30).	CP
16/02/2018	4	Reed Bunting	70		Band 1, 15 secs, F, U/W, Obs 08 (10:50).	CP
16/02/2018	4	Reed Bunting	30		Band 1, 6 secs, F, U/W, Obs 10 (12:35).	CP
16/02/2018	4	Reed Bunting	9		Band 1, 14 secs, F, D/W, Obs 12 (13:12).	CP
18/10/2016	7	Reed Bunting	2		Perched	HH
25/10/2017	7	Reed Bunting	1		In flight, calling, perches.	JOS
28/01/2018	7	Reed Bunting			Band 1, 14 secs, F, U/W, Obs 02 (12:40).	CP
28/01/2018	7	Reed Bunting	25		Band 1, 9 secs, F, Obs 07 (15:49).	CP
28/01/2018	7	Reed Bunting	20		Band 1, 15 secs, F, U/W, Obs 09 (16:47).	CP
19/02/2018	7	Reed Bunting	3		Band 1, 15 secs, F, U/W, Obs 08 (10:25).	CP
19/02/2018	7	Reed Bunting	50		Band 1, 19 secs, F, U/W, Obs 09 (10:35).	CP
19/02/2018	7	Reed Bunting			Band 1, 23 secs, F, Obs 10 (11:47).	CP

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
27/03/2018	7	Reed Bunting	6			JC
18/03/2016	9	Reed Bunting	1		Activity: Fly, height: below. Location: off site. Fly across in front of VP.	SD
07/04/2016	9	Reed Bunting	1		Activity: perch. Height: below. Off site. Perched in tree next to VP. Male. Calling.	SD
27/10/2016	10	Reed Bunting	1		Heard only	HH
02/12/2016	11	Reed Bunting	1		Perched	HH
31/05/2017	11	Reed Bunting	2		Calling	JOS
21/02/2018	11	Reed Bunting	60		Band 1, 15 secs, F, Obs 04 (08:24).	CP
21/02/2018	11	Reed Bunting	25		Band 1, 12 secs, F, Obs 06 (08:40).	CP
21/02/2018	11	Reed Bunting	60		Band 1, 18 secs, F, Obs 07 (08:45).	CP
26/03/2018	11	Reed Bunting	2			JC
26/10/2016	6A	Reed Bunting	1		Heard only	HH
14/11/2017	6A	Reed Bunting				JK
14/02/2018	6A	Reed Bunting			Band 1, 6 secs, F, U/W, Obs 01 (08:32).	CP
16/03/2016	2	Robin	1		Activity: Calling Height: below. R territory calls in response to GT interaction.	SD
26/04/2016	2	Robin	1		Activity: Calling. Height: Below. On site. Singing in young conifers.	SD
27/10/2016	2	Robin	6		Calling.	JOS
09/11/2016	2	Robin	11		Calling.	JOS
22/12/2016	2	Robin	6		Calling	JOS
08/02/2017	2	Robin	1		na	AOD
20/04/2017	2	Robin	3		perched, calling	JOS
21/04/2017	2	Robin	1		Calling	JOS
15/05/2017	2	Robin	3		Calling	JOS
09/08/2017	2	Robin	1		Calling	JOS
09/08/2017	2	Robin	1		Calling	JOS
05/10/2017	2	Robin	2		Perch, calling	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
21/03/2016	3	Robin	2		Activity: calling. Height: below. On site. Audible singing in mature conifer plantation.	SD
21/04/2016	4	Robin	1		Activity: Fly, perch. Height: below. On site. Foraging on forestry track edge.	SD
28/10/2016	4	Robin	1		Perched	HH
14/03/2017	4	Robin	1	17:27:00	Calling/singing	JOS
10/08/2017	4	Robin	1		Calling	JOS
06/10/2017	4	Robin	2		Calling	JOS
21/03/2016	5	Robin	1		Activity: calling. Height: below. On site. One singing behind VP.	SD
22/03/2016	5	Robin	1		Activity: Calling Height: below. On site. Shorts bursts of song from conifer plantation.	SD
12/04/2016	5	Robin	1		Activity: Calling. Height: below. On site. Audible singing in conifers around lake for survey duration.	SD
18/10/2016	5	Robin	1		Calling, on site	JOS
10/11/2016	5	Robin	3		Singing west of vp	JOS
10/04/2017	5	Robin	1		Calling	JOS
11/09/2017	5	Robin	1		Calling	JOS
01/10/2017	5	Robin	1		Perched, calling	JOS
13/04/2016	6	Robin	1		Audible snatches of song from hawthorns, newly planted forest.	SD
14/04/2016	7	Robin	1		Activity: calling. Height: below. On site. Some song from newly planted conifers.	SD
18/10/2016	7	Robin	1		Perched	HH
11/11/2016	7	Robin	1			JH
07/06/2017	7	Robin	1		Calling	JOS
14/09/2017	7	Robin	1		Calling	JOS
25/10/2017	7	Robin	1		Calling	JOS
25/10/2017	7	Robin	1		Calling	JOS
19/04/2016	8	Robin	1		Activity: calling. Height: below. On site. Song audible within site.	SD



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
22/09/2017	8	Robin	1		In flight, calling	JOS
18/03/2016	9	Robin	1		Activity: calling. Height: below. Off site. Singing in vegetation behind VP.	SD
07/04/2016	9	Robin	1		Activity: calling. Height: below. Off site. Occasional bursts of song from trees next to VP for survey duration.	SD
10/11/2016	9	Robin	1		Perched.	JH
03/02/2017	9	Robin	1		na	AOD
11/04/2017	9	Robin			Calling	JOS
27/10/2016	10	Robin	3		Perched	HH
17/10/2016	11	Robin	3		In flight	HH
30/03/2017	11	Robin	1	06:15:00	Sing	JOS
26/04/2017	11	Robin	1		Singing.	JOS
31/05/2017	11	Robin	4		Calling	JOS
05/07/2017	11	Robin	1		Calling	JOS
17/08/2017	11	Robin	1		Calling	JOS
15/09/2017	11	Robin	1		Calling	JOS
10/10/2017	11	Robin	2		calling	JOS
22/03/2016	1a	Robin	1		Activity: Calling. Height: below. On site. Singing E of VP.	SD
27/04/2016	1a	Robin	1		Activity: calling. Height: below. On site. Begins to sing in stand of mature conifers.	SD
26/10/2016	1a	Robin	4		Calling.	JOS
26/05/2017	1a	Robin	4		Calling	JOS
26/05/2017	1a	Robin	1		Calling	JOS
13/06/2017	1a	Robin	1		In flight	JOS
08/08/2017	1a	Robin	1		Calling	JOS
08/08/2017	1a	Robin	1		Calling	JOS
30/09/2017	1a	Robin	4		Calling	JOS
26/10/2016	6A	Robin	2		Perched	HH

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
11/11/2016	6A	Robin	6		On site. Calling.	JOS
18/11/2016	6A	Robin	5		Calling south of vp, from scrub.	JOS
08/12/2016	6A	Robin	2		Calling	JOS
12/04/2017	6A	Robin	1			JOS
12/04/2017	6A	Robin	1			JOS
30/05/2017	6A	Robin	3		Calling, in flight.	JOS
02/06/2017	6A	Robin	2		In flight, calling.	JOS
04/07/2017	6A	Robin	1			JOS
04/07/2017	6A	Robin	1		calling	JOS
19/09/2017	6A	Robin	1		Calling	JOS
19/09/2017	6A	Robin	1		Calling	JOS
19/09/2017	6A	Robin	2		Calling	JOS
02/10/2017	6A	Robin	1		Calling	JOS
02/10/2017	6A	Robin	1		Calling	JOS
19/01/2018	6A	Robin				PM
12/03/2018	6a	Robin	1			JC
12/03/2018	6a	Robin	1			JC
16/03/2016	2	Rook	2		Activity: fly. Height: PCH. On site. Fly over immature plantation from west and heads north east.	SD
21/04/2016	4	Rook	1		Activity: Fly. Height: PCH. On site. Mobbing eagle.	SD
21/03/2016	5	Rook	2		Activity: flying. Height: PCH. On site. Flying South to North over conifers to W of VP.	SD
12/04/2016	5	Rook	1		Activity: Fly. Height: PCH. On site. Flies over site NW to SE, calling.	SD
23/03/2016	6	Rook	8		Activity: Fly. Height: above. On site. Flying S to N and veer west over conifers out of view.	SD
13/04/2016	6	Rook	1		Activity: Fly. Height: below. On site. Flies over VP, east to west at 20m.	SD
14/03/2016	8	Rook	1		Activity: fly. Height: above. On site. Flying high (100m+) east to west over felled plantation.	SD

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
18/03/2016	9	Rook	1		Activity: flying. Height: PCH. On site. Flies in from east over bog and on site over conifers, out of view.	SD
07/04/2016	9	Rook	1		Activity: fly, calling. Height: below. Off site. Calling from bog, flies up and heads E.	SD
15/03/2016	10	Rook	1		Activity: perch Height: below. Off site. Perched on rock calling in front of VP.	SD
09/02/2017	11	Rook	2		na	AOD
13/11/2017	2	Siskin	3		Band 2, 12 secs, F, Obs 01.	CP
05/12/2017	2	Siskin	5		Band 1, 8 secs, F, Obs 08.	CP
15/12/2017	4	Siskin	13		Band 1, 13 secs, F, U/W, Obs 10.	CP
15/12/2017	4	Siskin	35		Band 1, 19 secs, F, U/W, Obs 12.	CP
30/01/2018	4	Siskin	50		Band 1, 13 secs, Band 2, 19 secs, F, D/W, Obs 01 (13:00).	CP
30/01/2018	4	Siskin	60		Band 1, 36 secs, F, Obs 05 (14:23).	CP
30/01/2018	4	Siskin	35		Band 1, 15 secs, F, D/W, Obs 06 (14:29).	CP
19/03/2018	4	Siskin	1			JC
10/11/2016	5	Siskin	11		In flight, band 1, conifers N of vp.	JOS
08/02/2017	5	Siskin	2		na	AOD
18/02/2018	5	Siskin	8		Band 2, 8 secs, F, U/W, Obs 01 (07:48).	CP
18/02/2018	5	Siskin	17		Band 1, 11 secs, F, Obs 06 (09:25).	CP
29/03/2018	5	Siskin				JC
18/10/2016	7	Siskin	3		In flight	HH
28/01/2018	7	Siskin	150		Band 1, 10 secs, Band 2, 15 secs, F, Obs 01 (12:26).	CP
28/01/2018	7	Siskin	50		Band 1, 12 secs, F, D/W, Obs 08 (16:20).	CP
19/02/2018	7	Siskin	13		Band 1, 21 secs, F, D/W, Obs 06 (09:28).	CP
19/04/2016	8	Siskin	6		Activity: fly, perch, calling. Height: Below. Off site. Small flock foraging in conifers, male and female.	SD
18/01/2018	8	Siskin	5		Band 1, 12 secs, F, D/W, Obs 06 (13:22).	CP
15/02/2018	8	Siskin	5		Band 1, 9 secs, F, D/W, Obs 05 (12:18).	CP
27/10/2016	10	Siskin	2		In flight	HH

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
05/07/2017	11	Siskin	2		In flight, Calling	JOS
26/03/2018	11	Siskin	2			JC
26/10/2016	1a	Siskin	10		singing in conifers behind vp, then flies over bog,	JOS
17/11/2017	1A	Siskin	20		Band 1, 18 secs, F, circling, Obs 04.	CP
17/11/2017	1A	Siskin	13		Band 1, 19 secs, F, U/W, Obs 08.	CP
30/05/2017	6A	Siskin	4		Calling in flight.	JOS
30/05/2017	6A	Siskin	3		Calling, in flight	JOS
02/06/2017	6A	Siskin	3		In flight, calling.	JOS
21/04/2016	4	Skylark	1		Activity: Calling. Height: below. On site. Song audible over bog to west of VP	SD
23/03/2016	6	Skylark	40		Activity: fly. Height: PCH and below. On site. Flock flies over bog and wet grassland singing and displaying.	SD
13/04/2016	6	Skylark	3+		Activity: Calling. Height: PCH. On site. Display flights and song over bog, up to 40m high throughout.	SD
24/03/2016	7	Skylark	1		Activity: calling. Height: below. On site. Song audible W of VP over bog.	SD
14/04/2016	7	Skylark	1		Activity: calling. Height: below. On site. Song audible over bog to SW of VP.	SD
19/02/2018	7	Skylark			Band 2, 10 secs, F, Obs 11 (12:29).	CP
14/03/2016	8	Skylark	1		Activity: calling. Off site. Singing audible for duration of survey behind VP.	SD
19/04/2016	8	Skylark	2		Activity: fly, calling. Height: Below. Off site. Display song and flight over bog on top of hill for survey.	SD
18/03/2016	9	Skylark	1		Activity: fly, calling. Height: pch. Off site. Displaying and flight over bog adjacent to study area.	SD
07/04/2016	9	Skylark	1		Activity: Calling. Height: below. Off site. Song audible over bog SW of VP.	SD
11/04/2017	9	Skylark			In flight, perch, call.	JOS
15/03/2016	10	Skylark	3		Activity: calling. Height: PCH. Off site. Display song and flight over heath.	SD
21/02/2018	11	Skylark			Band 1, 10 secs, F, Obs 05 (08:38).	CP



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
12/04/2017	6A	Skylark	1		in flight, calling	JOS
02/06/2017	6A	Skylark	1		In flight, calling.	JOS
02/06/2017	6A	Skylark	5		In flight, calling.	JOS
05/10/2017	2	Snipe	1	11:47:00	Conifers Flies east, band 1, low over conifers, out of view into canopy.	JOS
21/07/2016	4	Snipe	1	15:42:00	WS5, (Recently-felled woodland), WS2, (Immature woodland)	SM
26/04/2017	4	Snipe		21:07:00	Heard Drumming. No visual	DMcG
05/07/2017	4	Snipe	1	09:21:00	Flew up sharply and dropped again	DMcG
30/03/2017	5	Snipe	1	06:20:00	WD4, (Conifer plantation) Displaying	AOD
10/04/2017	5	Snipe	1	21:07:00	Conifers Drumming, no visual, west of Lough Naweelan until the end of the survey.	JOS
03/10/2017	5	Snipe	1	09:25:00	WD4, (Conifer plantation) Travelling, calling	Sean Ronayne
18/10/2016	7	Snipe	1	19:18:00	WD4, (Conifer plantation) PB4, (Cutover bog) HH3, (Wet heath) In flight	HH
12/04/2017	7	Snipe	1	21:11:00	Heard Drumming. No Visual.	DMcG
11/07/2017	7	Snipe	1	11:48:00	Calling while flying in circles	DMcG
11/07/2017	7	Snipe	1	12:10:00	Calling while flying in circles	DMcG
11/07/2017	7	Snipe	1	14:14:00	Calling. No visual	DMcG
19/04/2016	8	Snipe	1	07:15:00	Lowland blanket bog Offsite: calling, 4m, flies out of wet boggy ground west of VP, heading south and circles around hill.	SD
09/12/2016	8	Snipe	1	07:42:00	WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) In flight	HH
20/04/2017	8	Snipe		05:55:00	Heard calling. No visual	DMcG
12/07/2017	8	Snipe		13:06:00	Heard calling. No visual	DMcG

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
19/05/2016	9	Snipe	1	10:31:00	Lowland blanket bog/Conifer plantation Observed flying over a short distance in bog. Snipe calls regularly heard from bog throughout the watch period.	SM
20/05/2016	9	Snipe	1	04:58:00	Lowland blanket bog/Conifer plantation Snipe heard drumming and calling throughout the watch period.	SM
20/05/2016	9	Snipe	1	06:03:00	Lowland blanket bog/	SM
14/07/2016	9	Snipe	1	12:25:00	PB2, (Upland blanket bog)	SM
10/11/2016	9	Snipe	1	09:15:00	PB2, (Upland blanket bog) Flying across	JH
31/03/2017	9	Snipe	1	09:10:00	PB2, (Upland blanket bog) Displaying	AOD
11/04/2017	9	Snipe	1	21:00:00	Bog Drumming. No visual.	JOS
06/10/2017	9	Snipe	1	07:00:00	GS4, (Wet grassland) Travelling, calling	Sean Ronayne
06/10/2017	9	Snipe	1	07:07:00	GS4, (Wet grassland) Travelling, calling	Sean Ronayne
06/10/2017	9	Snipe	18	11:12:00	WD4, (Conifer plantation) GS4, (Wet grassland) PB2, (Upland blanket bog) Travelling	Sean Ronayne
26/05/2016	10	Snipe	1	15:01:00	Lowland blanket bog/Conifer plantation	SM
06/03/2017	10	Snipe	1	18:50:00	PB2, (Upland blanket bog) Flushed	AOD
19/04/2017	10	Snipe		05:45:00	Mating. Heard Drumming. No Visual	DMCG
03/05/2017	10	Snipe		21:49:00	heard drumming and calling. No visual	DMCG
09/11/2017	10	Snipe	1	17:28:00	PB2, (Upland blanket bog) Called once, flying	Sean Ronayne
09/11/2017	10	Snipe	1	17:35:00	PB2, (Upland blanket bog) Calling, Flying	Sean Ronayne
24/11/2017	11	Snipe	1	11:06:00	PB3, (Lowland blanket bog) WD4, (Conifer plantation)	CP
26/06/2017	11	Snipe	1	17:05:00	WD4, (Conifer plantation) PB2, (Upland blanket bog) Cuckoo heard in vicinity - last adult heard/observed by myself on site this season.	SM
13/04/2016	6A	Snipe	1	17:20:00	Lowland blanket bog Individual flying - likely a display over bog.	SD

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
13/04/2016	6A	Snipe	2	18:17:00	Lowland blanket bog 45s= band A from 7m to 10m. 45s =B=25m. Pair fly out of river and over bog. Male drumming display. Lands in river.	SD
13/04/2016	6A	Snipe	1	18:20:00	Lowland blanket bog A=20m=5s, B=30m=5s. Individual 3rd, flying over bog, likely displaying (too distant).	SD
30/05/2016	6A	Snipe	1	04:33:00	Improved grassland/Conifer plantation Snipe heard drumming and calling throughout the watch period.	SM
30/05/2016	6A	Snipe	1	05:01:00	Improved grassland/Conifer plantation	SM
30/05/2016	6A	Snipe	1	06:18:00	Improved grassland/Conifer plantation	SM
24/06/2016	6A	Snipe	2	06:08:00	GS1, (Dry calcareous grassland and neutral grassland) WS1, (Scrub/ transitional woodland) Drumming ongoing between 06.00 and 08.30	SM
24/06/2016	6A	Snipe	1	06:37:00	GS1, (Dry calcareous grassland and neutral grassland) WS1, (Scrub/ transitional woodland)	SM
24/06/2016	6A	Snipe	1	07:14:00	GS1, (Dry calcareous grassland and neutral grassland) WS1, (Scrub/ transitional woodland)	SM
24/06/2016	6A	Snipe	1	07:34:00	GS1, (Dry calcareous grassland and neutral grassland) WS1, (Scrub/ transitional woodland)	SM
26/10/2016	6A	Snipe	2	18:48:00	WD4, (Conifer plantation) PB4, (Cutover bog) HH3, (Wet heath) In flight	HH
11/11/2016	6A	Snipe	1	07:38:00	PB, (Bogs) Flushed from bog, flew east band 1, calling.	JOS
18/11/2016	6A	Snipe	1	07:40:00	PB, (Bogs) GS4, (Wet grassland) In flight over bog/wet grassland. Flies NW then out of view into bog.	JOS
30/05/2017	6A	Snipe	2	09:33:00	Pair of snipe, band 3, 17s, fly NW over compound.	JOS
14/06/2017	6A	Snipe	1	10:23:00	SN disturbed and flew from ground over conifers. Calling.	DMCG
04/07/2017	6A	Snipe	1	11:09:00	PB, (Bogs) In flight, band 3. On site 121s.	JOS
09/11/2016	8	Snow Bunting	2		In flight	HH
20/04/2017	2	Song thrush	1		perched, calling	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
21/03/2016	3	Song Thrush	1		Activity: perch, calling. Height: PCH. On site. Perched on vantage on top of mature conifer tree, singing for 10 minutes.	SD
19/03/2018	4	Song Thrush	1			JC
12/04/2016	5	Song Thrush	1		Activity: Calling. Height: below. On site. Audible singing in conifers on opposite side of the lake.	SD
08/02/2017	5	Song Thrush	1		na	AOD
13/04/2016	6	Song Thrush	1		Activity:Fly, perch . Height: below. On site. Perched on bare peat and flying over bog.	SD
11/04/2017	9	Song thrush	1		Calling	JOS
15/03/2016	10	Song Thrush	1		Activity: calling. Height: below. Off site. Calling from linear stretch of conifers.	SD
22/11/2016	11	Song Thrush	1		In flight, calling. Perched on top of conifer.	JOS
27/04/2016	1a	Song Thrush	1		Activity: calling. Height: below. On site. Singing in mature conifers to east of VP.	SD
26/05/2017	1a	Song thrush	1		Calling	JOS
08/08/2017	1a	Song Thrush	1		Calling	JOS
12/04/2017	6A	Song thrush	1		Calling	JOS
12/04/2017	6A	Song thrush	1			JOS
04/07/2017	6A	Song Thrush	1		In flight, calling.	JOS
14/03/2017	4	Starling	15	17:47:00	IN FLIGHT, LAND IN CONIFERS.	JOS
08/02/2017	5	Starling	18		na	AOD
11/11/2016	6A	Starling	9		in flight over bog, band 2.	JOS
12/04/2017	6A	Starling	5			JOS
04/07/2017	6A	Starling	16			JOS
23/03/2016	6	Stonechat	1		Activity: Perch. Height: below. Location: on site. Male perched on grass.	SD
13/04/2016	6	Stonechat	1		Activity: Perch. Height: below. On site. Female perched on grass in bog, foraging.	SD
18/10/2016	7	Stonechat	2		Perched and in flight	HH



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
18/03/2016	9	Stonechat	2		Activity: perch. Height: below. Off site. Male and female perching around VP.	SD
10/11/2016	9	Stonechat	2		Perched.	JH
22/11/2016	11	Stonechat	1		Calling. Perched on conifer.	JOS
02/12/2016	11	Stonechat	2		In flight and perched	HH
08/12/2016	6A	Stonechat	2		Perched on rocks.	JOS
12/04/2017	6A	Swallow	1			JOS
26/04/2017	4	Teal		21:25:00	Heard calling. No visual	DMcG
10/04/2017	5	Teal		21:05:00	Heard calling. No visual	JOS
26/05/2017	5	Teal	1	05:07:00	Heard calling. No visual	DMcG
11/09/2017	5	Teal	2	14:30:00	Lake On lake, feeding.	JOS
11/09/2017	5	Teal	2	18:24:00	Lake On Lough Naweelan feeding.	JOS
18/10/2016	5	Teal	4	13:05:00	Lake Swimming on lough Naweelan.	JOS
10/11/2016	5	Teal	5	08:35:00	Lake Five teal feeding on Lough Naweelan.	JOS
18/10/2016	7	Teal	2		WD4, (Conifer plantation) PB4, (Cutover bog) HH3, (Wet heath) Swimming	HH
12/04/2017	7	Teal	1	21:05:00	Heard calling. No visual	DMcG
11/07/2017	7	Teal	1	15:36:00	Heard calling. No visual	DMcG
30/03/2017	11	Teal	3	06:55:00	Feeding on Lake	JOS
26/04/2017	11	Teal	1	19:48:00	Calling from lake, no visual.	JOS
05/07/2017	11	Teal	1	10:12:00	On Lake	JOS
17/08/2017	11	Teal	1	08:30:00	On Lake	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
31/03/2017	1a	Teal	2	11:12:00	Calling from Lake	JOS
11/04/2017	1a	Teal	4	15:20:00	FL4, (Mesotrophic lakes) 2 Male, 2 Female sitting on far side of Tullagharone Lough. Calling	DMcG
11/04/2017	1a	Teal	1	17:36:00	WD4, (Conifer plantation) Heard calling from across conifers. NW of VP 1a	DMcG
11/04/2017	1a	Teal	1	20:26:00	Heard calling. No visual	DMcG
11/04/2017	1a	Teal	2	20:52:00	Heard calling. No visual	DMcG
12/04/2017	7	Teal	1	19:43:00	Heard calling. No visual	DMCG
19/05/2016	9	Teal	2	11:48:00	Lowland blanket bog/Lakes and ponds Both male Mallard. Grasshopper warbler heard from scrub along bog beside VP9	SM
11/04/2017	1a	Teal	4	20:55:00	Flew with Ma (Observ. No. 5) over VP 1a. Calling	DMCG
21/03/2016	3	Treecreeper	1		Activity: calling. Height: below. On site. Calls audible from conifer trees around vantage point.	SD
28/10/2016	4	Water Rail	1		WD4, (Conifer plantation) HH3, (Wet heath) Heard only	HH
26/04/2016	2	Willow Warbler	4+		Activity: Calling. Height: Below. On site. Singing in willow scrub and conifers for survey duration.	SD
20/04/2017	2	Willow Warbler	1		perched, calling	JOS
21/04/2017	2	Willow Warbler	3		Calling	JOS
15/05/2017	2	Willow Warbler	4		Calling	JOS
06/06/2017	2	Willow Warbler	2		Calling	JOS
21/04/2016	4	Willow Warbler	3+		Activity: Calling. Height: below. On site. Singing in young conifers for survey duration - occasional fights and flights.	SD
12/04/2016	5	Willow Warbler	2		Activity: Calling. Height: below. On site. At least 2 audible singing within conifers around lake for survey duration.	SD
10/04/2017	5	Willow Warbler	1		Calling	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
13/04/2016	6	Willow Warbler	1		Activity: Calling. Height: below. On site. Audible singing on plantation edge and on hawthorns.	SD
14/04/2016	7	Willow Warbler	2+		Activity: calling. Height: below. On site. Singing in newly planted conifers on bog around VP for survey duration.	SD
19/04/2016	8	Willow Warbler	3+		Activity: calling. Height: Below. On site. Audible singing in conifers	SD
11/04/2017	9	Willow Warbler	1			JOS
26/04/2017	11	Willow Warbler	1		Calling. Bog, conifers	JOS
26/04/2017	11	Willow Warbler	2		Singing.	JOS
27/04/2016	1a	Willow Warbler	1		Activity: Calling. Height: below. On site. Calling from mature conifers.	SD
26/05/2017	1a	Willow Warbler	4		Calling	JOS
12/04/2017	6A	Willow Warbler	2		Perched, calling	JOS
12/04/2017	6A	Willow Warbler	2		Perch, calling	JOS
12/04/2017	6A	Willow Warbler	1		Calling	JOS
01/04/2016	1	Wood Pigeon	2		Adult	JOS
16/03/2016	2	Wood Pigeon	1		Activity: Calling. Height: below. On site. Audible behind VP in conifers.	SD
10/11/2016	2	Wood Pigeon	2		Flying off site	JH
01/02/2017	2	Wood Pigeon	3		Displaying	AOD
08/02/2017	2	Wood Pigeon	2		na	AOD
20/04/2017	2	Wood Pigeon	1		Calling	JOS
20/04/2017	2	Wood Pigeon	1		In flight	JOS
21/04/2017	2	Wood Pigeon	1		In flight, Calling	JOS
15/05/2017	2	Wood Pigeon	2		Calling	JOS
05/10/2017	2	Wood pigeon	2		In flight, calling	JOS
10/03/2018	2	Wood Pigeon	2		Band 2, 9 secs, F, Obs 02 (14:54).	CP
10/03/2018	2	Wood Pigeon			Band 2, 16 secs, F, Obs 07 (18:14).	CP

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
21/03/2016	3	Wood Pigeon	1		Activity: Flying. Height: PCH. On site. Flies SE to NW over immature conifers.	SD
22/03/2016	5	Wood Pigeon	1		Activity: Calling Height: below. On site. Calls behind VP in conifers.	SD
12/04/2016	5	Wood Pigeon	1		Activity: Calling. Height: below. On site. Calling from conifer trees.	SD
10/04/2017	5	Wood Pigeon	1		In flight	JOS
17/01/2018	5	Wood Pigeon			Band 2, 22 secs, F, Obs 09 (17:01).	CP
18/02/2018	5	Wood Pigeon			Band 2, 14 secs, F, U/W, Obs 09 (10:59).	CP
23/03/2016	6	Wood Pigeon	2		Activity: Fly. Height: PCH. On site. Fly over bog east to west.	SD
19/04/2016	8	Wood Pigeon	2		Activity: fly. Height: pch. On site. Pair flying along valley bottom over new planted trees and conifer mature plantation.	SD
18/01/2018	8	Wood Pigeon			Band 2, 17 secs, F, Obs 02 (11:52).	CP
15/02/2018	8	Wood Pigeon			Band 2, 18 secs, F, Obs 04 (10:31).	CP
18/03/2016	9	Wood Pigeon	1		Activity: calling. height: below. Location: Off site. Calling from conifers at VP.	SD
10/11/2016	9	Wood Pigeon	2		Flying off site	JH
11/04/2017	9	Wood Pigeon	1		In flight	JOS
02/02/2017	10	Wood Pigeon	4		NA	AOD
26/04/2017	11	Wood Pigeon	1		In flight.	JOS
31/05/2017	11	Wood Pigeon	2		In flight.	JOS
22/03/2016	1a	Wood Pigeon	1		Activity: Calling. Height: Below. On site. Calls from mature conifer.	SD
26/05/2017	1a	Wood Pigeon	2		Calling	JOS
13/06/2017	1a	Wood Pigeon	2		In flight	JOS
12/04/2017	6A	Wood Pigeon	1			JOS
04/07/2017	6A	Wood Pigeon	3			JOS
04/07/2017	6A	Wood Pigeon	3		Calling	JOS
16/11/2017	6A	Wood Pigeon				JK



**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
26/04/2016	2	Wren	1		Activity: Calling. Height: Below. On site. Singing in willow scrub.	SD
27/10/2016	2	Wren	9		In flight, Calling. Perched.	JOS
09/11/2016	2	Wren	30		Calling.	JOS
22/12/2016	2	Wren	8		Calling	JOS
08/02/2017	2	Wren	3		na	AOD
20/04/2017	2	Wren	2		perched, calling	JOS
20/04/2017	2	Wren	1		perched, calling	JOS
21/04/2017	2	Wren	1		Calling	JOS
15/05/2017	2	Wren	4		Calling	JOS
06/06/2017	2	Wren	1		Calling	JOS
09/08/2017	2	Wren	4		Calling	JOS
09/08/2017	2	Wren	3		Calling	JOS
05/10/2017	2	Wren	1		Fly, perch, calling	JOS
21/03/2016	3	Wren	1		Activity: calling. Height: below. On site. Calls audible from plantation.	SD
21/04/2016	4	Wren	1		Activity: Calling. Height: below. On site. Singing in young conifers around Vp for survey duration.	SD
28/10/2016	4	Wren	8		Perched	HH
15/11/2016	4	Wren	11		Calling	JOS
07/02/2017	4	Wren	1	09:47:00		JOS
14/03/2017	4	Wren	1	17:04:00	SING	JOS
28/06/2017	4	Wren	1			JOS
06/10/2017	4	Wren	2		Perched, calling	JOS
19/03/2018	4	Wren	1			JC
19/03/2018	4	Wren	1			JC
21/03/2016	5	Wren	1		Activity: Calling. Height: below. On site. Singing behind VP.	SD
22/03/2016	5	Wren	1		Activity: Calling Height: below. On site.Singing in newly planted conifers.	SD

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
12/04/2016	5	Wren	1		Activity: Calling. Height: below. On site. Audible singing in conifers around lake for survey duration.	SD
18/10/2016	5	Wren	31		Calling, on site	JOS
10/11/2016	5	Wren	35		Calling from conifers N of vp.	JOS
06/02/2017	5	Wren	1		na	AOD
08/02/2017	5	Wren	1		na	AOD
10/04/2017	5	Wren	1		Calling	JOS
11/09/2017	5	Wren	1		Calling	JOS
01/10/2017	5	Wren	1		Calling	JOS
29/03/2018	5	Wren				JC
29/03/2018	5	Wren				JC
23/03/2016	6	Wren	1		Activity: calling. Height: below. On site. Singing on bog.	SD
13/04/2016	6	Wren	1		Audible singing in newly planted conifer.	SD
24/03/2016	7	Wren	1		Activity: calling. Height: below. On site. Singing behind VP.	SD
18/10/2016	7	Wren	9		Perched	HH
11/11/2016	7	Wren	1			JH
07/06/2017	7	Wren	4		Calling	JOS
14/09/2017	7	Wren	1		In flight, Calling	JOS
14/09/2017	7	Wren	1		Calling	JOS
25/10/2017	7	Wren	2		In flight, calling	JOS
25/10/2017	7	Wren	1		In flight, calling	JOS
25/10/2017	7	Wren	1		Calling	JOS
19/04/2016	8	Wren	1+		Activity: calling. Height: Below. On site. Audible singing in conifers to E of VP.	SD
18/03/2016	9	Wren	1		Activity: Calling Height: below. Off site. Singing in conifers at VP.	SD
07/04/2016	9	Wren	1		Activity: Calling. Height: below. Off site. Singing in vegetation around VP.	SD
03/02/2017	9	Wren	1		na	AOD

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
11/04/2017	9	Wren			Calling	JOS
17/10/2016	11	Wren	3		In flight	HH
22/11/2016	11	Wren	8		Calling	JOS
09/02/2017	11	Wren	1		na	AOD
30/03/2017	11	Wren	1	08:05:00	call	JOS
26/04/2017	11	Wren	3		Calling in bog,	JOS
31/05/2017	11	Wren	2		Calling	JOS
05/07/2017	11	Wren	3		Calling	JOS
11/08/2017	11	Wren	1		Calling	JOS
17/08/2017	11	Wren	2		Calling	JOS
15/09/2017	11	Wren	1		Calling	JOS
26/03/2018	11	Wren	1			JC
22/03/2016	1a	Wren	1		Activity: Calling. Height: Below. On site. Singing in newly planted forest.	SD
26/10/2016	1a	Wren	37		Calling.	JOS
26/05/2017	1a	Wren	1		Calling	JOS
13/06/2017	1a	Wren	2		In flight	JOS
03/07/2017	1a	Wren	1		calling	JOS
08/08/2017	1a	Wren	2		Calling	JOS
08/08/2017	1a	Wren	1		Calling	JOS
30/09/2017	1a	Wren	3		Calling	JOS
11/11/2016	6A	Wren	1		On site. Calling.	JOS
18/11/2016	6A	Wren	1		Calling from scrub S of vp.	JOS
08/12/2016	6A	Wren	2			JOS
12/04/2017	6A	Wren	2		calling	JOS
30/05/2017	6A	Wren	3		Calling, in flight	JOS
30/05/2017	6A	Wren	1		Calling, in flight.	JOS
02/06/2017	6A	Wren	1		In flight, calling.	JOS
19/09/2017	6A	Wren	1		Calling	JOS
19/09/2017	6A	Wren	1		Calling	JOS

**Table 23: Vantage Point Non-Target Species Data**

Date	VP	Species	No. of Birds	Time of Observation	Comments	Surveyor
02/10/2017	6A	Wren	2		Calling	JOS
02/10/2017	6A	Wren	3		Calling	JOS
16/11/2017	6A	Wren				JK
19/01/2018	6A	Wren				PM
12/03/2018	6a	Wren	1			JC
10/08/2017	4	Wren	1		Calling	JOS
10/10/2017	11	Wren	1		calling	JOS
12/04/2017	6A	Wren	1			JOS
03/02/2017	9	Yellowhammer	12		na	AOD



**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
15/06/2016	Section 4	Q1	15:49:00	Barn Swallow		PB2, (Upland blanket bog) WD4, (Conifer plantation)	;	SM
20/07/2016	Section 4	Q1	15:44:00	Barn Swallow		PB2, (Upland blanket bog) Within the 500 metre buffer zone.	;	SM
24/07/2016	Section 1	Q1	14:51:00	Barn Swallow		WS5, (Recently-felled woodland)	;	SM
26/07/2016	Section 5	Q1	08:24:00	Barn Swallow			;	SM
23/06/2016	Section 5	Q2	15:42:00	Barn Swallow		PB2, (Upland blanket bog) WD4, (Conifer plantation) Over clearfell	;	SM
25/06/2016	Section 1	Q3	14:51:00	Barn Swallow		BL3, (Buildings and artificial surfaces) 3 pairs nesting in old buildings - estimate	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
24/07/2016	Section 1	Q3	12:16:00	Barn Swallow			;	SM
18/04/2016	SE section			Barn Swallow			;	PC
11/05/2016	Central Section			Barn Swallow			;	PC
12/05/2016	N section			Barn Swallow			;	PC
28/03/2016		7		Blackbird	1		#N/A	CP
28/03/2016		8		Blackbird	1		#N/A	CP
24/07/2016	Section 1	Q3	12:16:00	Blackbird		Male and female.	;	SM
30/06/2016	Section 2	Q4	12:34:00	Blackbird		BL3, (Buildings and artificial surfaces) Amongst scrub along forest track	;	SM
25/07/2016	Section 4	Q4	10:50:00	Blackbird		WD4, (Conifer plantation) Along trackway leading to Buffy	;	SM
09/05/2016	SE section			Blackcap			;	PC
09/05/2016	SE section			Blackcap			;	PC
12/05/2016	N section			Blackcap			;	PC
12/05/2016	N section			Blackcap			;	PC
27/05/2016	W section			Blackcap			;	PC
27/05/2016	W section			Blackcap			;	PC
28/03/2016		2		Blue Tit	1		#N/A	CP
16/06/2016	Section 4	Q3	15:59:00	Blue Tit		WD4, (Conifer plantation)	;	SM
28/03/2016		1		Chaffinch	1		#N/A	CP
28/03/2016		2		Chaffinch	2		#N/A	CP
28/03/2016		2		Chaffinch	1		#N/A	CP
28/03/2016		3		Chaffinch	1		#N/A	CP

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
28/03/2016		4		Chaffinch	1		#N/A	CP
28/03/2016		5		Chaffinch	1		#N/A	CP
28/03/2016		5		Chaffinch	1		#N/A	CP
28/03/2016		5		Chaffinch	1		#N/A	CP
28/03/2016		6		Chaffinch	1		#N/A	CP
28/03/2016		6		Chaffinch	1		#N/A	CP
28/03/2016		6		Chaffinch	1		#N/A	CP
28/03/2016		6		Chaffinch	1		#N/A	CP
28/03/2016		6		Chaffinch	1		#N/A	CP
28/03/2016		7		Chaffinch	1		#N/A	CP
28/03/2016		7		Chaffinch	1		#N/A	CP
28/03/2016		7		Chaffinch	1		#N/A	CP
28/03/2016		7		Chaffinch	1		#N/A	CP
28/03/2016		7		Chaffinch	1		#N/A	CP
28/03/2016		7		Chaffinch	1		#N/A	CP
28/03/2016		7		Chaffinch	1		#N/A	CP
28/03/2016		8		Chaffinch	1		#N/A	CP
28/03/2016		9		Chaffinch	1		#N/A	CP
28/03/2016		10		Chaffinch	5		#N/A	CP
28/03/2016		12		Chaffinch	1		#N/A	CP
28/03/2016		13		Chaffinch	2		#N/A	CP
28/03/2016		14		Chaffinch	1		#N/A	CP
28/03/2016		14		Chaffinch	1		#N/A	CP
28/03/2016		15		Chaffinch	1		#N/A	CP
23/06/2016	Section 5	Q1	15:24:00	Chaffinch		WD4, (Conifer plantation)	;	SM
23/06/2016	Section 5	Q1	15:38:00	Chaffinch		WD4, (Conifer plantation)	;	SM
25/06/2016	Section 1	Q1	14:35:00	Chaffinch		WD4, (Conifer plantation)	;	SM
15/07/2016	Section 3	Q1	12:04:00	Chaffinch		WD4, (Conifer plantation) Amongst scrub along roadway	;	SM
15/07/2016	Section 3	Q1	12:16:00	Chaffinch		WD4, (Conifer plantation)	;	SM
20/07/2016	Section 4	Q1	15:57:00	Chaffinch		WD4, (Conifer plantation) Along the edge of conifer forest	;	SM
24/07/2016	Section 1	Q1	14:29:00	Chaffinch		WD4, (Conifer plantation)	;	SM
26/07/2016	Section 5	Q1	08:14:00	Chaffinch		PB2, (Upland blanket bog) Along main windfarm entrance road	;	SM
26/07/2016	Section 5	Q1	08:35:00	Chaffinch		WD4, (Conifer plantation) All adults	;	SM
15/06/2016	Section 4	Q2	17:44:00	Chaffinch		WD4, (Conifer plantation) Within forest in Q2	;	SM
27/06/2016	Section 3	Q2	12:06:00	Chaffinch		PB2, (Upland blanket bog)	;	SM
30/06/2016	Section 2	Q2	10:28:00	Chaffinch		WD4, (Conifer plantation)	;	SM
15/07/2016	Section 3	Q2	15:37:00	Chaffinch		WD4, (Conifer plantation)	;	SM

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
20/07/2016	Section 4	Q2	16:40:00	Chaffinch		Amongst scrub along road leading to Buffy	;	SM
20/07/2016	Section 4	Q2	16:41:00	Chaffinch		Amongst scrub along road leading to Buffy	;	SM
20/07/2016	Section 4	Q2	17:50:00	Chaffinch		WD4, (Conifer plantation)	;	SM
23/07/2016	Section 1	Q2	16:04:00	Chaffinch		WD4, (Conifer plantation)	;	SM
26/07/2016	Section 5	Q2	07:55:00	Chaffinch			;	SM
16/06/2016	Section 4	Q3	15:05:00	Chaffinch		WD4, (Conifer plantation)	;	SM
24/06/2016	Section 5	Q3	14:01:00	Chaffinch		WD4, (Conifer plantation)	;	SM
24/06/2016	Section 5	Q3	14:27:00	Chaffinch		WD4, (Conifer plantation)	;	SM
25/06/2016	Section 1	Q3	14:51:00	Chaffinch		BL3, (Buildings and artificial surfaces)	;	SM
28/06/2016	Section 3	Q3	16:24:00	Chaffinch		WD4, (Conifer plantation)	;	SM
15/07/2016	Section 3	Q3	14:29:00	Chaffinch		WD4, (Conifer plantation) Male and female. Likely breeding pair.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
15/07/2016	Section 3	Q3	14:52:00	Chaffinch		WD4, (Conifer plantation)	;	SM
24/07/2016	Section 1	Q3	13:29:00	Chaffinch		WD4, (Conifer plantation)	;	SM
25/07/2016	Section 2	Q3	11:50:00	Chaffinch		WD4, (Conifer plantation) Along forest ride	;	SM
25/07/2016	Section 2	Q3	12:17:00	Chaffinch		WD4, (Conifer plantation) Along forest ride	;	SM
25/07/2016	Section 4	Q3	08:37:00	Chaffinch		WD4, (Conifer plantation) Along forest ride	;	SM
26/07/2016	Section 5	Q3	09:27:00	Chaffinch		WD4, (Conifer plantation) Along a forest ride	;	SM
16/06/2016	Section 4	Q4	16:09:00	Chaffinch		WD4, (Conifer plantation)	;	SM
16/06/2016	Section 4	Q4	16:49:00	Chaffinch		WD4, (Conifer plantation) Along forest edge - Q4	;	SM
30/06/2016	Section 2	Q4	10:42:00	Chaffinch		WD4, (Conifer plantation) Amongst scrub along main site roadway	;	SM
30/06/2016	Section 2	Q4	11:19:00	Chaffinch		WD4, (Conifer plantation)	;	SM
15/07/2016	Section 3	Q4		Chaffinch			;	SM
25/07/2016	Section 2	Q4	12:37:00	Chaffinch		Scrub along roadway	;	SM
25/07/2016	Section 2	Q4	12:52:00	Chaffinch		WD4, (Conifer plantation)	;	SM
25/07/2016	Section 4	Q4	10:40:00	Chaffinch		WD4, (Conifer plantation) Along trackway leading to Buffy	;	SM
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
18/04/2016	SE section			Chaffinch			;	PC
19/04/2016	SW section			Chaffinch			;	PC
19/04/2016	SW section			Chaffinch			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
19/04/2016	SW section			Chaffinch			;	PC
19/04/2016	SW section			Chaffinch			;	PC
19/04/2016	SW section			Chaffinch			;	PC
27/04/2016	E section			Chaffinch			;	PC
27/04/2016	E section			Chaffinch			;	PC
27/04/2016	E section			Chaffinch			;	PC
27/04/2016	E section			Chaffinch			;	PC
27/04/2016	E section			Chaffinch			;	PC
27/04/2016	E section			Chaffinch			;	PC
27/04/2016	E section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
28/04/2016	N section			Chaffinch			;	PC
29/04/2016	W section			Chaffinch			;	PC
29/04/2016	W section			Chaffinch			;	PC
29/04/2016	W section			Chaffinch			;	PC
09/05/2016	SE section			Chaffinch			;	PC
09/05/2016	SE section			Chaffinch			;	PC
09/05/2016	SE section			Chaffinch			;	PC
09/05/2016	SE section			Chaffinch			;	PC
11/05/2016	Central Section			Chaffinch			;	PC





**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
11/05/2016	Central Section			Chaffinch			;	PC
11/05/2016	Central Section			Chaffinch			;	PC
11/05/2016	Central Section			Chaffinch			;	PC
11/05/2016	Central Section			Chaffinch			;	PC
11/05/2016	Central Section			Chaffinch			;	PC
11/05/2016	Central Section			Chaffinch			;	PC
11/05/2016	Central Section			Chaffinch			;	PC
11/05/2016	Central Section			Chaffinch			;	PC
11/05/2016	Central Section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
12/05/2016	N section			Chaffinch			;	PC
20/05/2016	S section			Chaffinch			;	PC
20/05/2016	S section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
27/05/2016	W section			Chaffinch			;	PC
28/03/2016		5		Coal Tit	1		#N/A	CP
28/03/2016		6		Coal Tit	1		#N/A	CP
28/03/2016		6		Coal Tit	1		#N/A	CP
28/03/2016		7		Coal Tit	2		#N/A	CP
28/03/2016		7		Coal Tit	1		#N/A	CP
28/03/2016		7		Coal Tit	1		#N/A	CP
28/03/2016		7		Coal Tit	2		#N/A	CP
28/03/2016		8		Coal Tit	1		#N/A	CP
28/03/2016		10		Coal Tit	1		#N/A	CP
28/03/2016		11		Coal Tit	1		#N/A	CP
28/03/2016		11		Coal Tit	1		#N/A	CP
28/03/2016		13		Coal Tit	1		#N/A	CP
28/03/2016		13		Coal Tit	1		#N/A	CP
28/03/2016		13		Coal Tit	1		#N/A	CP
28/03/2016		13		Coal Tit	2		#N/A	CP
28/03/2016		14		Coal Tit	1		#N/A	CP
28/03/2016		14		Coal Tit	1		#N/A	CP
28/03/2016		15		Coal Tit	1		#N/A	CP
23/06/2016	Section 5	Q1	15:38:00	Coal Tit		WD4, (Conifer plantation)	;	SM
15/07/2016	Section 3	Q2	15:54:00	Coal Tit		WD4, (Conifer plantation) Along the block of coniferous forest in the south west section of Q2.	;	SM
25/07/2016	Section 2	Q2	13:11:00	Coal Tit		WD4, (Conifer plantation)	;	SM
25/06/2016	Section 1	Q3	14:50:00	Coal Tit		BL3, (Buildings and artificial surfaces) Within the 500 metre buffer in Q3	;	SM
28/06/2016	Section 3	Q3	15:57:00	Coal Tit		WD4, (Conifer plantation) Area in north of Q3 along forest road.	;	SM
15/07/2016	Section 3	Q3	14:52:00	Coal Tit		WD4, (Conifer plantation)	;	SM
30/06/2016	Section 2	Q4	11:48:00	Coal Tit		WD4, (Conifer plantation) Along forest ride	;	SM
25/07/2016	Section 4	Q4	08:37:00	Coal Tit		WD4, (Conifer plantation) 6 fledglings with adult along forest glade near footpath leading to Buffy	;	SM

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
18/04/2016	SE section			Coal Tit			;	PC
18/04/2016	SE section			Coal Tit			;	PC
18/04/2016	SE section			Coal Tit			;	PC
18/04/2016	SE section			Coal Tit			;	PC
18/04/2016	SE section			Coal Tit			;	PC
18/04/2016	SE section			Coal Tit			;	PC
18/04/2016	SE section			Coal Tit			;	PC
18/04/2016	SE section			Coal Tit			;	PC
19/04/2016	SW section			Coal Tit			;	PC
19/04/2016	SW section			Coal Tit			;	PC
19/04/2016	SW section			Coal Tit			;	PC
19/04/2016	SW section			Coal Tit			;	PC
19/04/2016	SW section			Coal Tit			;	PC
27/04/2016	E section			Coal Tit			;	PC
27/04/2016	E section			Coal Tit			;	PC
28/04/2016	N section			Coal Tit			;	PC
28/04/2016	N section			Coal Tit			;	PC
28/04/2016	N section			Coal Tit			;	PC
28/04/2016	N section			Coal Tit			;	PC
29/04/2016	W section			Coal Tit			;	PC
29/04/2016	W section			Coal Tit			;	PC
29/04/2016	W section			Coal Tit			;	PC
09/05/2016	SE section			Coal Tit			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
11/05/2016	Central Section			Coal Tit			;	PC
11/05/2016	Central Section			Coal Tit			;	PC
11/05/2016	Central Section			Coal Tit			;	PC
11/05/2016	Central Section			Coal Tit			;	PC
11/05/2016	Central Section			Coal Tit			;	PC
11/05/2016	Central Section			Coal Tit			;	PC
11/05/2016	Central Section			Coal Tit			;	PC
11/05/2016	Central Section			Coal Tit			;	PC
11/05/2016	Central Section			Coal Tit			;	PC
11/05/2016	Central Section			Coal Tit			;	PC
12/05/2016	N section			Coal Tit			;	PC
12/05/2016	N section			Coal Tit			;	PC
12/05/2016	N section			Coal Tit			;	PC
12/05/2016	N section			Coal Tit			;	PC
20/05/2016	S section			Coal Tit			;	PC
27/05/2016	W section			Coal Tit			;	PC
27/05/2016	W section			Coal Tit			;	PC
27/05/2016	W section			Coal Tit			;	PC
27/05/2016	W section			Coal Tit			;	PC
27/05/2016	W section			Coal Tit			;	PC
11/05/2016	Central Section			Collared Dove			;	PC
25/06/2016	Section 1	Q3	14:40:00	Common Sandpiper		Possibly breeding pair. Boliska Oughter Lake.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
11/05/2016	Central Section			Common Sandpiper		FL2, (Acid oligotrophic lakes) Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC



**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
11/05/2016	Central Section			Common Sandpiper		FL2, (Acid oligotrophic lakes) Foraging	Suitable nesting habitat; Possible breeder	PC
11/05/2016	Central Section			Common Sandpiper		FL2, (Acid oligotrophic lakes) Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
11/05/2016	Central Section			Common Sandpiper			;	PC
11/05/2016	Central Section			Common Sandpiper			;	PC
20/05/2016	S section			Common Sandpiper		PB, (Bogs) Alarm calls	Agitated behaviour or anxiety calls ; Probable breeding	PC
28/03/2016		6		Crossbill	1		#N/A	CP
28/03/2016		7		Crossbill	1		#N/A	CP
28/03/2016		7		Crossbill	1		#N/A	CP
28/03/2016		13		Crossbill	1		#N/A	CP
28/03/2016		13		Crossbill	4		#N/A	CP
18/04/2016	SE section			Crossbill			;	PC
18/04/2016	SE section			Crossbill			;	PC
18/04/2016	SE section			Crossbill			;	PC
18/04/2016	SE section			Crossbill			;	PC
18/04/2016	SE section			Crossbill			;	PC
19/04/2016	SW section			Crossbill			;	PC
19/04/2016	SW section			Crossbill			;	PC
19/04/2016	SW section			Crossbill			;	PC
19/04/2016	SW section			Crossbill			;	PC
19/04/2016	SW section			Crossbill			;	PC
27/04/2016	E section			Crossbill			;	PC
27/04/2016	E section			Crossbill			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
27/04/2016	E section			Crossbill			;	PC
28/04/2016	N section			Crossbill			;	PC
29/04/2016	W section			Crossbill			;	PC
11/05/2016	Central Section			Crossbill			;	PC
11/05/2016	Central Section			Crossbill			;	PC
11/05/2016	Central Section			Crossbill			;	PC
11/05/2016	Central Section			Crossbill			;	PC
11/05/2016	Central Section			Crossbill			;	PC
11/05/2016	Central Section			Crossbill			;	PC
12/05/2016	N section			Crossbill			;	PC
27/05/2016	W section			Crossbill			;	PC
27/05/2016	W section			Crossbill			;	PC
27/05/2016	W section			Crossbill			;	PC
20/04/2017		Section 2		Cuckoo	1	Conifers.		JOS
09/05/2016	SE section			Cuckoo			;	PC
11/05/2016	Central Section			Cuckoo			;	PC
12/05/2016	N section			Cuckoo			;	PC
12/05/2016	N section			Cuckoo			;	PC
20/05/2016	S section			Cuckoo			;	PC
27/05/2016	W section			Cuckoo			;	PC
27/05/2016	W section			Cuckoo			;	PC
28/03/2016		2		Dunnock	1		#N/A	CP
28/03/2016		2		Dunnock	2		#N/A	CP
28/03/2016		3		Dunnock	1		#N/A	CP
28/03/2016		5		Dunnock	1		#N/A	CP
28/03/2016		6		Dunnock	1		#N/A	CP
28/03/2016		6		Dunnock	1		#N/A	CP
28/03/2016		6		Dunnock	1		#N/A	CP
28/03/2016		6		Dunnock	1		#N/A	CP
28/03/2016		7		Dunnock	1		#N/A	CP

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
28/03/2016		7		Dunnock	1		#N/A	CP
28/03/2016		11		Dunnock	1		#N/A	CP
28/03/2016		12		Dunnock	1		#N/A	CP
28/03/2016		15		Dunnock	1		#N/A	CP
18/04/2016	SE section			Dunnock			;	PC
18/04/2016	SE section			Dunnock			;	PC
18/04/2016	SE section			Dunnock			;	PC
18/04/2016	SE section			Dunnock			;	PC
19/04/2016	SW section			Dunnock			;	PC
27/04/2016	E section			Dunnock			;	PC
11/05/2016	Central Section			Dunnock			;	PC
11/05/2016	Central Section			Dunnock			;	PC
11/05/2016	Central Section			Dunnock			;	PC
11/05/2016	Central Section			Dunnock			;	PC
28/03/2016		6		Goldcrest	1		#N/A	CP
28/03/2016		7		Goldcrest	1		#N/A	CP
28/03/2016		11		Goldcrest	1		#N/A	CP
28/03/2016		13		Goldcrest	1		#N/A	CP
23/07/2016	Section 1	Q2	16:11:00	Goldcrest		WD4, (Conifer plantation)	;	SM
18/04/2016	SE section			Goldcrest			;	PC
18/04/2016	SE section			Goldcrest			;	PC
18/04/2016	SE section			Goldcrest			;	PC
18/04/2016	SE section			Goldcrest			;	PC
18/04/2016	SE section			Goldcrest			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
18/04/2016	SE section			Goldcrest			;	PC
18/04/2016	SE section			Goldcrest			;	PC
18/04/2016	SE section			Goldcrest			;	PC
18/04/2016	SE section			Goldcrest			;	PC
18/04/2016	SE section			Goldcrest			;	PC
27/04/2016	E section			Goldcrest			;	PC
27/04/2016	E section			Goldcrest			;	PC
28/04/2016	N section			Goldcrest			;	PC
28/04/2016	N section			Goldcrest			;	PC
28/04/2016	N section			Goldcrest			;	PC
28/04/2016	N section			Goldcrest			;	PC
28/04/2016	N section			Goldcrest			;	PC
28/04/2016	N section			Goldcrest			;	PC
28/04/2016	N section			Goldcrest			;	PC
28/04/2016	N section			Goldcrest			;	PC
28/04/2016	N section			Goldcrest			;	PC
29/04/2016	W section			Goldcrest			;	PC
29/04/2016	W section			Goldcrest			;	PC
09/05/2016	SE section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
11/05/2016	Central Section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC
11/05/2016	Central Section			Goldcrest			;	PC
12/05/2016	N section			Goldcrest			;	PC
12/05/2016	N section			Goldcrest			;	PC
12/05/2016	N section			Goldcrest			;	PC
12/05/2016	N section			Goldcrest			;	PC
12/05/2016	N section			Goldcrest			;	PC
12/05/2016	N section			Goldcrest			;	PC
12/05/2016	N section			Goldcrest			;	PC
12/05/2016	N section			Goldcrest			;	PC
12/05/2016	N section			Goldcrest			;	PC
20/05/2016	S section			Goldcrest			;	PC
20/05/2016	S section			Goldcrest			;	PC
27/05/2016	W section			Goldcrest			;	PC
27/05/2016	W section			Goldcrest			;	PC
28/03/2016		8		Goldfinch	1		#N/A	CP
25/06/2016	Section 1	Q3	14:52:00	Goldfinch		BL3, (Buildings and artificial surfaces)	;	SM
20/04/2017		Section 2		Grasshopper Warbler	2	Bog		JOS
27/05/2016	W section			Grasshopper Warbler			;	PC
27/05/2016	W section			Grasshopper Warbler			;	PC
28/03/2016		6		Great Tit	1		#N/A	CP
28/03/2016		6		Great Tit	1		#N/A	CP
19/04/2016	SW section			Great Tit			;	PC
28/03/2016		7		Greenfinch	2		#N/A	CP
19/04/2016	SW section			Greenfinch			;	PC



**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
26/07/2016	Section 5	Q1	08:47:00	Grey Heron		WS5, (Recently-felled woodland) Flying towards Lough Fadda in the south east corner of Q3	;	SM
15/07/2016	Section 3	Q2	15:32:00	Grey Heron		FW, (Watercourses) Along river on the northern boundary of Q2	;	SM
24/06/2016	Section 5	Q3	14:41:00	Grey Heron		WD4, (Conifer plantation) By Lough Fadda	;	SM
25/06/2016	Section 1	Q3	15:45:00	Grey Heron		PB2, (Upland blanket bog) Along river at very southern end of Q3	;	SM
25/07/2016	Section 2	Q3	12:04:00	Grey Heron		Lake in south east corner of Q3	;	SM
26/07/2016	Section 5	Q3	09:01:00	Grey Heron		Likely the same heron as observation at 8.47	;	SM
11/05/2016	Central Section			Grey Heron		FL2, (Acid oligotrophic lakes) Foraging	;	PC
28/03/2016		4		Grey Wagtail	1		#N/A	CP
28/03/2016		13		Grey Wagtail	2		#N/A	CP
30/06/2016	Section 2	Q3	13:14:00	Grey Wagtail		BL3, (Buildings and artificial surfaces) Pair likely breeding. Seen in drain along road in western section of Q3	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
28/03/2016		4		Hooded Crow	1	In flight.	#N/A	CP
15/06/2016	Section 4	Q1	15:09:00	Hooded Crow		PB2, (Upland blanket bog) WD4, (Conifer plantation)	;	SM
20/07/2016	Section 4	Q1	15:49:00	Hooded Crow		PB2, (Upland blanket bog) Within the 500 metre buffer zone.	;	SM
23/06/2016	Section 5	Q2	16:20:00	Hooded Crow		PB2, (Upland blanket bog)	;	SM
20/07/2016	Section 4	Q2	17:02:00	Hooded Crow		PB2, (Upland blanket bog) Within the 500 metre buffer zone to the east of Q2	;	SM
26/07/2016	Section 5	Q2	07:29:00	Hooded Crow		PB2, (Upland blanket bog)	;	SM
24/07/2016	Section 1	Q3	12:12:00	Hooded Crow		GA2, (Amenity grassland (improved)) Area around old farm house and fields in south east corner of Q3	;	SM
16/06/2016	Section 4	Q4	16:34:00	Hooded Crow		WD4, (Conifer plantation) Flying over forest	Flying over; Non-breeding	SM
27/06/2016	Section 3	Q4	13:33:00	Hooded Crow		PB2, (Upland blanket bog)	;	SM
30/06/2016	Section 2	Q4	11:47:00	Hooded Crow		WD4, (Conifer plantation) Observed flying over forest	Flying over; Non-breeding	SM
23/07/2016	Section 1	Q4	16:39:00	Hooded Crow		PB2, (Upland blanket bog) Within the 500 metre buffer zone	;	SM
25/07/2016	Section 4	Q4	09:27:00	Hooded Crow		PB2, (Upland blanket bog) Within 500 metre buffer zone to the east of Q4	;	SM

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
26/07/2016	Section 5	Q4	10:21:00	Hooded Crow		PB4, (Cutover bog)	;	SM
18/04/2016	SE section			Hooded Crow			;	PC
29/04/2016	W section			Hooded Crow			;	PC
27/05/2016	W section			Hooded Crow			;	PC
15/06/2016	Section 4	Q2	17:24:00	House Martin		PB2, (Upland blanket bog)	;	SM
23/06/2016	Section 5	Q1	15:10:00	Jay		WD4, (Conifer plantation)	;	SM
25/06/2016	Section 1	Q1	14:24:00	Jay		WD4, (Conifer plantation)	;	SM
24/07/2016	Section 1	Q1	14:29:00	Jay		WD4, (Conifer plantation)	;	SM
16/06/2016	Section 4	Q3	15:57:00	Jay		WD4, (Conifer plantation)	;	SM
28/06/2016	Section 3	Q3	15:01:00	Jay		WD4, (Conifer plantation) Conifer forest in south of Q3	;	SM
30/06/2016	Section 2	Q3	12:58:00	Jay		WD4, (Conifer plantation)	;	SM
15/07/2016	Section 3	Q3	14:38:00	Jay		WD4, (Conifer plantation) Seen amongst conifers within the 500 metre buffer zone in the west of Q3.	;	SM
26/07/2016	Section 5	Q3	09:19:00	Jay		WD4, (Conifer plantation)	;	SM
13/07/2017		B&S section 2	11:42:00	Lesser Black-backed Gull	1	Flies north, band 3.		JOS
28/03/2016		2		Lesser Redpoll	1	In flight.	#N/A	CP
28/03/2016		13		Lesser Redpoll	2		#N/A	CP
18/04/2016	SE section			Lesser Redpoll			;	PC
18/04/2016	SE section			Lesser Redpoll			;	PC
19/04/2016	SW section			Lesser Redpoll			;	PC
19/04/2016	SW section			Lesser Redpoll			;	PC
19/04/2016	SW section			Lesser Redpoll			;	PC
19/04/2016	SW section			Lesser Redpoll			;	PC
19/04/2016	SW section			Lesser Redpoll			;	PC
19/04/2016	SW section			Lesser Redpoll			;	PC
27/04/2016	E section			Lesser Redpoll			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
28/04/2016	N section			Lesser Redpoll			;	PC
28/04/2016	N section			Lesser Redpoll			;	PC
28/04/2016	N section			Lesser Redpoll			;	PC
12/05/2016	N section			Lesser Redpoll			;	PC
20/07/2016	Section 4	Q1	16:05:00	Linnet		WD4, (Conifer plantation) Along the edge of conifer forest	;	SM
24/07/2016	Section 1	Q3	13:21:00	Linnet		WD4, (Conifer plantation)	;	SM
24/06/2016	Section 5	Q4	14:43:00	Linnet		WS5, (Recently-felled woodland) Flock flew over clearfell in Q4	Flying over; Non-breeding	SM
15/06/2016	Section 4	Q2	17:55:00	Maggie		WD4, (Conifer plantation) Within forest in Q2	;	SM
20/07/2016	Section 4	Q2	16:41:00	Maggie		Amongst scrub along road leading to Buffy	;	SM
30/06/2016	Section 2	Q3	13:06:00	Maggie		WD4, (Conifer plantation) 2 birds along forest ride	;	SM
28/03/2016		4		Mallard	1		#N/A	CP
13/07/2017		B&S section 2	11:47:00	Mallard	2	In flight, band 2.		JOS
24/07/2016	Section 1	Q1	14:05:00	Mallard		Lough Naweelan. 2 males.	;	SM
24/06/2016	Section 5	Q3	14:41:00	Mallard		WD4, (Conifer plantation) 3 males and a female on Lough Fadda. 1 breeding pair	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
28/06/2016	Section 3	Q3	16:09:00	Mallard		Female with 6 young on small lake in north of Q3	Recently fledged young/downy young; Confirmed breeding	SM
15/07/2016	Section 3	Q3	13:00:00	Mallard		On small lake in northern section of Q3	;	SM
26/07/2016	Section 5	Q3	09:00:00	Mallard		Lough Fadda. Female with 5 young	Recently fledged young/downy young; Confirmed breeding	SM
16/06/2016	Section 4	Q4	17:06:00	Mallard		PB2, (Upland blanket bog) Male see flying northwards over buffer zone in Q4	Flying over; Non-breeding	SM
23/07/2016	Section 1	Q4	17:24:00	Mallard		Lake in south western corner of Q4	;	SM
21/04/2017		Section 1		Mallard	1	Bog, stream.		JOS
20/04/2017		Section 2		Mallard	1	Lake		JOS
20/04/2017		Section 2		Mallard	2	Bog		JOS
20/04/2017		Section 2		Mallard	1	Bog		JOS
20/04/2017		Section 2		Mallard	1	Bog		JOS
24/05/2017		Section 3	12:10:00	Mallard	1	Lake		JOS
24/05/2017		Section 3	13:40:00	Mallard	1	Lake		JOS
19/04/2016	SW section			Mallard		FL2, (Acid oligotrophic lakes) Foraging	Suitable nesting habitat; Possible breeder	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
27/04/2016	E section			Mallard		PB, (Bogs) Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
28/04/2016	N section			Mallard		PB, (Bogs) (Mixed) Conifer woodland Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
11/05/2016	Central Section			Mallard		FL2, (Acid oligotrophic lakes) Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
12/05/2016	N section			Mallard		PB, (Bogs) (Mixed) Conifer woodland Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
20/05/2016	S section			Mallard		PB, (Bogs) FL2, (Acid oligotrophic lakes) Foraging	Suitable nesting habitat; Possible breeder	PC
27/05/2016	W section			Mallard		FL2, (Acid oligotrophic lakes) Foraging	Suitable nesting habitat; Possible breeder	PC
27/05/2016	W section			Mallard		FL2, (Acid oligotrophic lakes) Foraging	Suitable nesting habitat; Possible breeder	PC
28/03/2016		4		Meadow Pipit	5		#N/A	CP
28/03/2016		7		Meadow Pipit	1		#N/A	CP
28/03/2016		7		Meadow Pipit	1		#N/A	CP
28/03/2016		7		Meadow Pipit	3		#N/A	CP
28/03/2016		8		Meadow Pipit	1		#N/A	CP
28/03/2016		9		Meadow Pipit	2		#N/A	CP
28/03/2016		9		Meadow Pipit	1		#N/A	CP
28/03/2016		10		Meadow Pipit	1		#N/A	CP
28/03/2016		10		Meadow Pipit	1		#N/A	CP
28/03/2016		13		Meadow Pipit	1		#N/A	CP
28/03/2016		13		Meadow Pipit	1		#N/A	CP
28/03/2016		13		Meadow Pipit	1		#N/A	CP
28/03/2016		14		Meadow Pipit	1		#N/A	CP
15/06/2016	Section 4	Q1	15:25:00	Meadow Pipit		PB2, (Upland blanket bog) WD4, (Conifer plantation) Male and female.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
15/06/2016	Section 4	Q1	16:08:00	Meadow Pipit		PB2, (Upland blanket bog) WD4, (Conifer plantation) Male and female.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
15/06/2016	Section 4	Q1	16:18:00	Meadow Pipit		PB2, (Upland blanket bog) WD4, (Conifer plantation) Male and female.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
28/06/2016	Section 3	Q1	17:11:00	Meadow Pipit		PB, (Bogs) Breeding pair likely	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
28/06/2016	Section 3	Q1	17:19:00	Meadow Pipit		PB, (Bogs) Breeding pair likely	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
15/07/2016	Section 3	Q1	12:41:00	Meadow Pipit		PB2, (Upland blanket bog) pair Likely breeding	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
15/07/2016	Section 3	Q1	12:54:00	Meadow Pipit		PB2, (Upland blanket bog) pair Likely breeding	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
15/06/2016	Section 4	Q2	17:21:00	Meadow Pipit		PB2, (Upland blanket bog) likely in Q2 1 breeding pair	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
23/06/2016	Section 5	Q2	16:31:00	Meadow Pipit		PB2, (Upland blanket bog) Adults - assumed breeding	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
23/06/2016	Section 5	Q2	16:47:00	Meadow Pipit		PB2, (Upland blanket bog) Adult with food	Adults carrying faecal sac or food for young; Confirmed breeding	SM
26/06/2016	Section 1	Q2	00:43:00	Meadow Pipit		PB2, (Upland blanket bog)	;	SM
26/06/2016	Section 1	Q2	00:44:00	Meadow Pipit		PB2, (Upland blanket bog)	;	SM
26/06/2016	Section 1	Q2	10:00:00	Meadow Pipit		PB2, (Upland blanket bog) Adult with food	Adults carrying faecal sac or food for young; Confirmed breeding	SM
20/07/2016	Section 4	Q2	16:19:00	Meadow Pipit		PB2, (Upland blanket bog) Within the 500 metre buffer zone.	;	SM
20/07/2016	Section 4	Q2	16:55:00	Meadow Pipit		PB2, (Upland blanket bog) Within the 500 metre buffer zone in the east of Q2	;	SM
23/07/2016	Section 1	Q2	15:29:00	Meadow Pipit		PB2, (Upland blanket bog) Within the 500 metre buffer zone. Likey to be a breeding pair	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
23/07/2016	Section 1	Q2	15:34:00	Meadow Pipit		PB2, (Upland blanket bog) Within the 500 metre buffer zone. Separate sighting to previous.	;	SM



**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
26/07/2016	Section 5	Q2	07:34:00	Meadow Pipit		PB2, (Upland blanket bog) likely 1 breeding pair	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
25/06/2016	Section 1	Q3	15:15:00	Meadow Pipit		PB2, (Upland blanket bog) Adult with food - 1 breeding pair in Q3	Adults carrying faecal sac or food for young; Confirmed breeding	SM
24/07/2016	Section 1	Q3	12:32:00	Meadow Pipit		PB2, (Upland blanket bog) Different birds to previous observation	;	SM
24/07/2016	Section 1	Q3	12:41:00	Meadow Pipit		PB2, (Upland blanket bog)	;	SM
16/06/2016	Section 4	Q4	17:15:00	Meadow Pipit		PB2, (Upland blanket bog) likely Breeding pair	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
16/06/2016	Section 4	Q4	17:28:00	Meadow Pipit		PB2, (Upland blanket bog) Adult with food, breeding pair likely	Adults carrying faecal sac or food for young; Confirmed breeding	SM
24/06/2016	Section 5	Q4	14:59:00	Meadow Pipit		PB2, (Upland blanket bog) Within the 500 metre buffer in Q4	;	SM
24/06/2016	Section 5	Q4	15:10:00	Meadow Pipit		PB2, (Upland blanket bog) Within the 500 metre buffer in Q4	;	SM
26/06/2016	Section 1	Q4	11:19:00	Meadow Pipit		PB2, (Upland blanket bog)	;	SM
26/06/2016	Section 1	Q4	11:57:00	Meadow Pipit		PB2, (Upland blanket bog) 2 breeding pairs of meadow pipit in Q4 likely	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
27/06/2016	Section 3	Q4	14:26:00	Meadow Pipit		PB2, (Upland blanket bog) 1 pair estimated in Q4	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
15/07/2016	Section 3	Q4	16:47:00	Meadow Pipit		PB2, (Upland blanket bog) Within the 500 metre buffer zone in the east of Q4	;	SM
23/07/2016	Section 1	Q4	16:54:00	Meadow Pipit		PB2, (Upland blanket bog)	;	SM
23/07/2016	Section 1	Q4	17:38:00	Meadow Pipit		PB2, (Upland blanket bog)	;	SM
25/07/2016	Section 4	Q4	09:34:00	Meadow Pipit		PB2, (Upland blanket bog) Within 500 metre buffer zone to the east of Q4	;	SM
26/07/2016	Section 5	Q4	10:44:00	Meadow Pipit		PB2, (Upland blanket bog) Within the 500 metre buffer zone	;	SM
26/07/2016	Section 5	Q4	10:49:00	Meadow Pipit		PB2, (Upland blanket bog)	;	SM
18/04/2016	SE section			Meadow Pipit			;	PC
18/04/2016	SE section			Meadow Pipit			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
18/04/2016	SE section			Meadow Pipit			;	PC
18/04/2016	SE section			Meadow Pipit			;	PC
19/04/2016	SW section			Meadow Pipit			;	PC
19/04/2016	SW section			Meadow Pipit			;	PC
27/04/2016	E section			Meadow Pipit			;	PC
27/04/2016	E section			Meadow Pipit			;	PC
28/04/2016	N section			Meadow Pipit			;	PC
28/04/2016	N section			Meadow Pipit			;	PC
11/05/2016	Central Section			Meadow Pipit			;	PC
11/05/2016	Central Section			Meadow Pipit			;	PC
12/05/2016	N section			Meadow Pipit			;	PC
12/05/2016	N section			Meadow Pipit			;	PC
27/05/2016	W section			Meadow Pipit			;	PC
27/05/2016	W section			Meadow Pipit			;	PC
28/03/2016		4		Mistle Thrush	1		#N/A	CP
28/03/2016		4		Mistle Thrush	1		#N/A	CP
28/03/2016		13		Mistle Thrush	2		#N/A	CP
15/06/2016	Section 4	Q1	15:21:00	Mistle Thrush		PB2, (Upland blanket bog) WD4, (Conifer plantation)	;	SM
20/07/2016	Section 4	Q1	15:27:00	Mistle Thrush		PB2, (Upland blanket bog) Within the 500 metre buffer zone.	;	SM
26/06/2016	Section 1	Q2	11:04:00	Mistle Thrush		PB2, (Upland blanket bog) Seen over bog near conifer forest edge	Flying over; Non-breeding	SM
15/07/2016	Section 3	Q2	15:49:00	Mistle Thrush		WD4, (Conifer plantation) 2 adults and 4 young along the block of coniferous forest in the south west of Q2	Recently fledged young/downy young; Confirmed breeding	SM
19/04/2016	SW section			Mistle Thrush			;	PC
28/04/2016	N section			Mistle Thrush			;	PC
09/05/2016	SE section			Mistle Thrush			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
11/05/2016	Central Section			Mistle Thrush			;	PC
11/05/2016	Central Section			Mistle Thrush			;	PC
11/05/2016	Central Section			Mistle Thrush			;	PC
11/05/2016	Central Section			Mistle Thrush			;	PC
11/05/2016	Central Section			Mistle Thrush			;	PC
11/05/2016	Central Section			Mistle Thrush			;	PC
27/05/2016	W section			Mistle Thrush			;	PC
15/06/2016	Section 4	Q1	16:05:00	Northern Wheatear		PB2, (Upland blanket bog) WD4, (Conifer plantation)	;	SM
26/06/2016	Section 1	Q2	09:45:00	Northern Wheatear		PB2, (Upland blanket bog) Within the 500 metre buffer in Q2 - possibly breeding pair	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
23/07/2016	Section 1	Q2	15:47:00	Northern Wheatear		PB2, (Upland blanket bog) Within the 500 metre buffer zone.	;	SM
26/07/2016	Section 5	Q2	07:47:00	Northern Wheatear		PB2, (Upland blanket bog) likely 1 breeding pair	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
26/07/2016	Section 5	Q4	10:08:00	Pheasant		PB4, (Cutover bog) Male heard calling	;	SM
28/03/2016		2		Pied Wagtail	1		#N/A	CP
28/03/2016		4		Pied Wagtail	1		#N/A	CP
15/07/2016	Section 3	Q1	12:15:00	Pied Wagtail		WD4, (Conifer plantation) Amongst scrub along roadway	;	SM
28/06/2016	Section 3	Q3	16:55:00	Pied Wagtail		WD4, (Conifer plantation) Pair seen on windfarm road.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
30/06/2016	Section 2	Q3	13:16:00	Pied Wagtail		BL3, (Buildings and artificial surfaces) Pair likely breeding. Seen along road in western section of Q3	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
16/06/2016	Section 4	Q4	17:55:00	Pied Wagtail		PB2, (Upland blanket bog) Along roadway in Q4	;	SM
15/06/2016	Section 4	Q1	11:28:00	Raven		PB2, (Upland blanket bog) WD4, (Conifer plantation)	;	SM

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
20/07/2016	Section 4	Q1	11:28:00	Raven		PB2, (Upland blanket bog) Within the 500 metre buffer zone.	;	SM
25/07/2016	Section 2	Q1	11:28:00	Raven		PB2, (Upland blanket bog) Flying over blanket bog within the 500 metre buffer zone	;	SM
15/06/2016	Section 4	Q2	16:38:00	Raven		PB2, (Upland blanket bog) WD4, (Conifer plantation)	;	SM
24/06/2016	Section 5	Q2	17:09:00	Raven		PB2, (Upland blanket bog)	;	SM
26/06/2016	Section 1	Q2	10:45:00	Raven		PB2, (Upland blanket bog)	;	SM
23/07/2016	Section 1	Q2	11:28:00	Raven		PB2, (Upland blanket bog) Within the 500 metre buffer zone	;	SM
30/06/2016	Section 2	Q3	11:28:00	Raven		BL3, (Buildings and artificial surfaces) Pair seen over site compound.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
30/06/2016	Section 2	Q3	11:28:00	Raven		PB2, (Upland blanket bog) Within the 500 metre buffer zone of Q3	;	SM
25/07/2016	Section 2	Q3	11:28:00	Raven		PB2, (Upland blanket bog) Flying over blanket bog within the 500 metre buffer zone	;	SM
25/07/2016	Section 2	Q3	11:28:00	Raven		WD4, (Conifer plantation) Flying over conifer forest	;	SM
24/06/2016	Section 5	Q4	15:30:00	Raven		PB2, (Upland blanket bog) Within the 500 metre buffer in Q4	;	SM
15/07/2016	Section 3	Q4	16:37:00	Raven		WD4, (Conifer plantation) Flying over the eastern side of Q4	Flying over; Non-breeding	SM
26/07/2016	Section 5	Q4	11:28:00	Raven		PB2, (Upland blanket bog) Flying towards the west	;	SM
15/07/2016	Section 3	Q3	11:28:00	Reed Bunting		Male and female seen. Likely breeding pair.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
19/04/2016	SW section			Reed Bunting			;	PC
11/05/2016	Central Section			Reed Bunting			;	PC
27/05/2016	W section			Reed Bunting			;	PC
27/05/2016	W section			Reed Bunting			;	PC
28/03/2016		1		Robin	1		#N/A	CP
28/03/2016		1		Robin	1		#N/A	CP
28/03/2016		2		Robin	1		#N/A	CP
28/03/2016		2		Robin	1		#N/A	CP

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
28/03/2016		2		Robin	1		#N/A	CP
28/03/2016		2		Robin	1		#N/A	CP
28/03/2016		2		Robin	1		#N/A	CP
28/03/2016		2		Robin	1		#N/A	CP
28/03/2016		3		Robin	1		#N/A	CP
28/03/2016		3		Robin	1		#N/A	CP
28/03/2016		3		Robin	1		#N/A	CP
28/03/2016		3		Robin	1		#N/A	CP
28/03/2016		5		Robin	1		#N/A	CP
28/03/2016		5		Robin	1		#N/A	CP
28/03/2016		6		Robin	1		#N/A	CP
28/03/2016		6		Robin	1		#N/A	CP
28/03/2016		6		Robin	1		#N/A	CP
28/03/2016		6		Robin	1		#N/A	CP
28/03/2016		7		Robin	1		#N/A	CP
28/03/2016		7		Robin	1		#N/A	CP
28/03/2016		8		Robin	1		#N/A	CP
28/03/2016		8		Robin	1		#N/A	CP
28/03/2016		9		Robin	1		#N/A	CP
28/03/2016		10		Robin	1		#N/A	CP
28/03/2016		11		Robin	1		#N/A	CP
28/03/2016		12		Robin	1		#N/A	CP
28/03/2016		13		Robin	1		#N/A	CP
28/03/2016		13		Robin	2		#N/A	CP
28/03/2016		14		Robin	1		#N/A	CP
28/03/2016		15		Robin	1		#N/A	CP
28/03/2016		15		Robin	1		#N/A	CP
26/07/2016	Section 5	Q1	11:28:00	Robin		PB2, (Upland blanket bog) Along main windfarm entrance road	;	SM
25/06/2016	Section 1	Q3	11:28:00	Robin		BL3, (Buildings and artificial surfaces)	;	SM
28/06/2016	Section 3	Q3	11:28:00	Robin		WD4, (Conifer plantation) Area in north of Q3 along forest road.	;	SM
24/07/2016	Section 1	Q3	11:28:00	Robin			;	SM
18/04/2016	SE section			Robin			;	PC
18/04/2016	SE section			Robin			;	PC



**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
18/04/2016	SE section			Robin			;	PC
18/04/2016	SE section			Robin			;	PC
18/04/2016	SE section			Robin			;	PC
18/04/2016	SE section			Robin			;	PC
18/04/2016	SE section			Robin			;	PC
18/04/2016	SE section			Robin			;	PC
18/04/2016	SE section			Robin			;	PC
18/04/2016	SE section			Robin			;	PC
19/04/2016	SW section			Robin			;	PC
19/04/2016	SW section			Robin			;	PC
19/04/2016	SW section			Robin			;	PC
19/04/2016	SW section			Robin			;	PC
19/04/2016	SW section			Robin			;	PC
19/04/2016	SW section			Robin			;	PC
19/04/2016	SW section			Robin			;	PC
27/04/2016	E section			Robin			;	PC
27/04/2016	E section			Robin			;	PC
27/04/2016	E section			Robin			;	PC
27/04/2016	E section			Robin			;	PC
28/04/2016	N section			Robin			;	PC
28/04/2016	N section			Robin			;	PC
28/04/2016	N section			Robin			;	PC
28/04/2016	N section			Robin			;	PC
28/04/2016	N section			Robin			;	PC
28/04/2016	N section			Robin			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
29/04/2016	W section			Robin			;	PC
09/05/2016	SE section			Robin			;	PC
09/05/2016	SE section			Robin			;	PC
09/05/2016	SE section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
11/05/2016	Central Section			Robin			;	PC
12/05/2016	N section			Robin			;	PC
12/05/2016	N section			Robin			;	PC
12/05/2016	N section			Robin			;	PC
12/05/2016	N section			Robin			;	PC
12/05/2016	N section			Robin			;	PC
12/05/2016	N section			Robin			;	PC
12/05/2016	N section			Robin			;	PC
12/05/2016	N section			Robin			;	PC
12/05/2016	N section			Robin			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
12/05/2016	N section			Robin			;	PC
12/05/2016	N section			Robin			;	PC
20/05/2016	S section			Robin			;	PC
27/05/2016	W section			Robin			;	PC
27/05/2016	W section			Robin			;	PC
27/05/2016	W section			Robin			;	PC
27/05/2016	W section			Robin			;	PC
27/05/2016	W section			Robin			;	PC
27/05/2016	W section			Robin			;	PC
27/05/2016	W section			Robin			;	PC
15/06/2016	Section 4	Q2	17:14:00	Rook		PB2, (Upland blanket bog)	;	SM
25/06/2016	Section 1	Q3	11:28:00	Rook		BL3, (Buildings and artificial surfaces)	;	SM
24/06/2016	Section 5	Q4	15:54:00	Rook		PB2, (Upland blanket bog) Within the 500 metre buffer in Q4	;	SM
26/06/2016	Section 1	Q4	11:28:00	Rook		PB2, (Upland blanket bog)	;	SM
15/07/2016	Section 3	Q4	17:09:00	Rook		PB2, (Upland blanket bog) Within the 500 metre buffer zone in the east of Q4	;	SM
23/07/2016	Section 1	Q4	17:10:00	Rook		GA2, (Amenity grassland (improved)) Pastures in eastern section of Q4	;	SM
25/07/2016	Section 4	Q4	10:15:00	Rook		PB2, (Upland blanket bog) Within 500 metre buffer zone to the east of Q4	;	SM
27/05/2016	W section			Sand Martin			;	PC
09/05/2016	SE section			Sedge Warbler			;	PC
28/03/2016		8		Siskin	1		#N/A	CP
28/03/2016		10		Siskin	1		#N/A	CP
28/03/2016		13		Siskin	3		#N/A	CP
28/03/2016		13		Siskin	4		#N/A	CP
18/04/2016	SE section			Siskin			;	PC
18/04/2016	SE section			Siskin			;	PC
18/04/2016	SE section			Siskin			;	PC
18/04/2016	SE section			Siskin			;	PC
18/04/2016	SE section			Siskin			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
18/04/2016	SE section			Siskin			;	PC
18/04/2016	SE section			Siskin			;	PC
18/04/2016	SE section			Siskin			;	PC
18/04/2016	SE section			Siskin			;	PC
19/04/2016	SW section			Siskin			;	PC
19/04/2016	SW section			Siskin			;	PC
19/04/2016	SW section			Siskin			;	PC
27/04/2016	E section			Siskin			;	PC
27/04/2016	E section			Siskin			;	PC
27/04/2016	E section			Siskin			;	PC
27/04/2016	E section			Siskin			;	PC
28/04/2016	N section			Siskin			;	PC
28/04/2016	N section			Siskin			;	PC
28/04/2016	N section			Siskin			;	PC
28/04/2016	N section			Siskin			;	PC
28/04/2016	N section			Siskin			;	PC
28/04/2016	N section			Siskin			;	PC
28/04/2016	N section			Siskin			;	PC
29/04/2016	W section			Siskin			;	PC
11/05/2016	Central Section			Siskin			;	PC
11/05/2016	Central Section			Siskin			;	PC
11/05/2016	Central Section			Siskin			;	PC
11/05/2016	Central Section			Siskin			;	PC
11/05/2016	Central Section			Siskin			;	PC
11/05/2016	Central Section			Siskin			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
11/05/2016	Central Section			Siskin			;	PC
11/05/2016	Central Section			Siskin			;	PC
12/05/2016	N section			Siskin			;	PC
12/05/2016	N section			Siskin			;	PC
20/05/2016	S section			Siskin			;	PC
27/05/2016	W section			Siskin			;	PC
27/05/2016	W section			Siskin			;	PC
27/05/2016	W section			Siskin			;	PC
27/05/2016	W section			Siskin			;	PC
27/05/2016	W section			Siskin			;	PC
27/05/2016	W section			Siskin			;	PC
27/05/2016	W section			Siskin			;	PC
28/03/2016		4		Skylark	4	On farmland beside path, only 2 in song.	#N/A	CP
15/06/2016	Section 4	Q1	16:24:00	Skylark		PB2, (Upland blanket bog) WD4, (Conifer plantation) Calling male.	Singing male present in breeding season in suitable breeding habitat; Possible breeder	SM
15/06/2016	Section 4	Q1	16:32:00	Skylark		PB2, (Upland blanket bog) WD4, (Conifer plantation) Male and female.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
28/06/2016	Section 3	Q1	17:09:00	Skylark		PB, (Bogs) Male singing. 1 breeding pair likely	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
25/07/2016	Section 2	Q1	16:57:00	Skylark		PB2, (Upland blanket bog)	;	SM
15/06/2016	Section 4	Q2	16:41:00	Skylark		PB2, (Upland blanket bog) WD4, (Conifer plantation) Calling male.	Singing male present in breeding season in suitable breeding habitat; Possible breeder	SM
26/06/2016	Section 1	Q2	10:11:00	Skylark		PB2, (Upland blanket bog) Singing male defending territory	Established permanent territory; Probable breeding	SM
15/07/2016	Section 3	Q2	16:05:00	Skylark		PB2, (Upland blanket bog) Adult seen with food. Breeding likely.	Adults carrying faecal sac or food for young; Confirmed breeding	SM
23/07/2016	Section 1	Q2	15:09:00	Skylark		PB2, (Upland blanket bog) Within the 500 metre buffer zone	;	SM
30/06/2016	Section 2	Q3	14:35:00	Skylark		PB3, (Lowland blanket bog) Within the 500 metre buffer zone of Q3.1 pair likely breeding on bog in front of site compound	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM



**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
26/06/2016	Section 1	Q4	11:48:00	Skylark		PB2, (Upland blanket bog) 1 breeding pair in Q4 likely	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
25/07/2016	Section 4	Q4	09:00:00	Skylark		PB2, (Upland blanket bog) Within 500 metre buffer zone to the east of Q4	;	SM
26/07/2016	Section 5	Q4	11:21:00	Skylark		PB2, (Upland blanket bog)	;	SM
27/04/2016	E section			Skylark			;	PC
28/03/2016		4		Snipe	1		#N/A	CP
13/07/2017		B&S section 2	14:52:00	Snipe	1	Flushed, flies N band 1, calling.		JOS
14/07/2017		B&S section 3		Snipe	1	Flushed, calling, band 1.		JOS
27/06/2016	Section 3	Q2	12:19:00	Snipe		PB2, (Upland blanket bog) Flushed from bog	Flying over; Non-breeding	SM
25/06/2016	Section 1	Q3	15:06:00	Snipe		PB2, (Upland blanket bog) Flushed from bog	;	SM
30/06/2016	Section 2	Q3	13:13:00	Snipe		BL3, (Buildings and artificial surfaces) Snipe seen flying amongst rough agri land in western section of Q3	Flying over; Non-breeding	SM
15/07/2016	Section 3	Q4	16:57:00	Snipe		PB2, (Upland blanket bog) Within the 500 metre buffer zone in the east of Q4	;	SM
25/07/2016	Section 4	Q4	09:52:00	Snipe		PB2, (Upland blanket bog) Within 500 metre buffer zone to the east of Q4	;	SM
21/04/2017		Section 1		Snipe	1	Bog	Suitable nesting habitat; Flying over. Possible breeder.	JOS
20/04/2017		Section 2		Snipe	1	Bog	Singing male present in breeding season in suitable breeding habitat; Possible breeder	JOS
20/04/2017		Section 2		Snipe	1	Bog	Singing male present in breeding season in suitable breeding habitat; Possible breeder	JOS
23/05/2017		Section 2	11:15:00	Snipe	1	Bog	Suitable nesting habitat	JOS
23/05/2017		Section 2	16:40:00	Snipe	3	Bog	Courtship and display, Probable breeding.	JOS
21/06/2017		Section 3	16:40:00	Snipe	1	Bog	Flying over.	JOS
18/04/2016	SE section			Snipe	1	PB, (Bogs) Flushed	Suitable nesting habitat; Possible breeder	PC
18/04/2016	SE section			Snipe		PB, (Bogs) Flushed	Suitable nesting habitat; Possible breeder	PC
19/04/2016	SW section			Snipe		PB, (Bogs) Flushed	Suitable nesting habitat; Possible breeder	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
09/05/2016	SE section			Snipe		PB, (Bogs) Flushed	Suitable nesting habitat; Possible breeder	PC
09/05/2016	SE section			Snipe		PB, (Bogs) Flushed	Suitable nesting habitat; Possible breeder	PC
09/05/2016	SE section			Snipe		PB, (Bogs) Display flight	Courtship and display ; Probable breeding	PC
09/05/2016	SE section			Snipe			;	PC
11/05/2016	Central Section			Snipe		PB, (Bogs) Display flight	Courtship and display ; Probable breeding	PC
11/05/2016	Central Section			Snipe		PB, (Bogs) Display flight	Courtship and display ; Probable breeding	PC
28/03/2016		10		Song Thrush	1		#N/A	CP
27/05/2016	W section			Song Thrush			;	PC
23/06/2016	Section 5	Q2	15:57:00	Starling		WD4, (Conifer plantation)	;	SM
20/07/2016	Section 4	Q2	17:01:00	Starling		PB2, (Upland blanket bog) Within the 500 metre buffer zone to the east of Q2	;	SM
26/07/2016	Section 5	Q2	07:11:00	Starling		PB2, (Upland blanket bog)	;	SM
23/07/2016	Section 1	Q4	17:09:00	Starling		GA2, (Amenity grassland (improved)) Pastures in eastern section of Q4	;	SM
25/07/2016	Section 4	Q4	09:11:00	Starling		PB2, (Upland blanket bog) Within 500 metre buffer zone to the east of Q4	;	SM
24/07/2016	Section 1	Q3	12:18:00	Stonechat		BL3, (Buildings and artificial surfaces) Male and female on stone ditch at old farm	;	SM
24/07/2016	Section 1	Q3	12:01:00	Teal		Large lake in south of Q3	;	SM
20/04/2017		Section 2		Teal	1	Lake		JOS
24/05/2017		Section 3	12:10:00	Teal	1	Lake		JOS
18/04/2016	SE section			Teal		PB, (Bogs) Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
18/04/2016	SE section			Teal		FL2, (Acid oligotrophic lakes) Roosting and foraging with no breeding evidence	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
18/04/2016	SE section			Teal		FL2, (Acid oligotrophic lakes) Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
19/04/2016	SW section			Teal		PB, (Bogs) Foraging	Suitable nesting habitat; Possible breeder	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
11/05/2016	Central Section			Teal		FL2, (Acid oligotrophic lakes) Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
11/05/2016	Central Section			Teal		FL2, (Acid oligotrophic lakes) Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
27/05/2016	W section			Teal		FL2, (Acid oligotrophic lakes) Foraging	Pair observed in suitable nesting habitat in breeding season; Probable breeding	PC
27/05/2016	W section			Teal		FL2, (Acid oligotrophic lakes) Foraging	Suitable nesting habitat; Possible breeder	PC
28/06/2016	Section 3	Q3	15:57:00	Treecreeper		WD4, (Conifer plantation) Area in north of Q3 along forest road. Likely 1 pair breeding.	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
11/05/2016	Central Section			Treecreeper			;	PC
11/05/2016	Central Section			Treecreeper			;	PC
12/05/2016	N section			Treecreeper			;	PC
27/05/2016	W section			Treecreeper			;	PC
27/05/2016	W section			Treecreeper			;	PC
19/04/2016	SW section			Water Rail		FL2, (Acid oligotrophic lakes) Alarm calls	Suitable nesting habitat; Possible breeder	PC
27/05/2016	W section			Water Rail		FL2, (Acid oligotrophic lakes) Calls	Established permanent territory; Probable breeding	PC
23/06/2016	Section 5	Q1	15:38:00	Willow Warbler		WD4, (Conifer plantation)	;	SM
28/06/2016	Section 3	Q1	17:55:00	Willow Warbler		FW1, (Eroding/upland rivers) In scrub along river in northern section of Q1	;	SM
15/07/2016	Section 3	Q1	12:04:00	Willow Warbler		WD4, (Conifer plantation) Amongst scrub along roadway	;	SM
24/07/2016	Section 1	Q1	14:38:00	Willow Warbler		WD4, (Conifer plantation) Along a forest ride	;	SM
26/07/2016	Section 5	Q1	08:15:00	Willow Warbler		PB2, (Upland blanket bog) Along main windfarm entrance road	;	SM
23/06/2016	Section 5	Q2	16:07:00	Willow Warbler		WD4, (Conifer plantation)	;	SM
15/07/2016	Section 3	Q2	15:11:00	Willow Warbler			;	SM
24/06/2016	Section 5	Q3	14:02:00	Willow Warbler			;	SM
28/06/2016	Section 3	Q3	15:57:00	Willow Warbler		WD4, (Conifer plantation) Adult seen with food. Breeding pair likely.	;	SM

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
30/06/2016	Section 2	Q3	12:40:00	Willow Warbler		Amongst willow by lake in southern end of Q3	;	SM
15/07/2016	Section 3	Q3	13:12:00	Willow Warbler		Likely breeding pair	Pair observed in suitable nesting habitat in breeding season; Probable breeding	SM
24/07/2016	Section 1	Q3	12:03:00	Willow Warbler		Scrub along roadway	;	SM
24/07/2016	Section 1	Q3	12:19:00	Willow Warbler			;	SM
16/06/2016	Section 4	Q4	16:52:00	Willow Warbler		WD4, (Conifer plantation) Along forest edge - Q4	;	SM
30/06/2016	Section 2	Q4	10:41:00	Willow Warbler		WD4, (Conifer plantation) Amongst scrub along main site roadway	;	SM
30/06/2016	Section 2	Q4	12:11:00	Willow Warbler		BL3, (Buildings and artificial surfaces) Amongst scrub along forest track	;	SM
30/06/2016	Section 2	Q4	12:19:00	Willow Warbler		BL3, (Buildings and artificial surfaces) Amongst scrub along forest track	;	SM
25/07/2016	Section 2	Q4	12:41:00	Willow Warbler		Scrub along roadway	;	SM
25/07/2016	Section 4	Q4	08:44:00	Willow Warbler		WD4, (Conifer plantation) Along trackway leading to Buffy	;	SM
25/07/2016	Section 4	Q4	10:28:00	Willow Warbler		WD4, (Conifer plantation) Along trackway leading to Buffy	;	SM
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
18/04/2016	SE section			Willow Warbler			;	PC
19/04/2016	SW section			Willow Warbler			;	PC
19/04/2016	SW section			Willow Warbler			;	PC
19/04/2016	SW section			Willow Warbler			;	PC
19/04/2016	SW section			Willow Warbler			;	PC
19/04/2016	SW section			Willow Warbler			;	PC
19/04/2016	SW section			Willow Warbler			;	PC
19/04/2016	SW section			Willow Warbler			;	PC
19/04/2016	SW section			Willow Warbler			;	PC
27/04/2016	E section			Willow Warbler			;	PC
27/04/2016	E section			Willow Warbler			;	PC
27/04/2016	E section			Willow Warbler			;	PC
28/04/2016	N section			Willow Warbler			;	PC
28/04/2016	N section			Willow Warbler			;	PC
28/04/2016	N section			Willow Warbler			;	PC
28/04/2016	N section			Willow Warbler			;	PC
28/04/2016	N section			Willow Warbler			;	PC
29/04/2016	W section			Willow Warbler			;	PC



**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
09/05/2016	SE section			Willow Warbler			;	PC
09/05/2016	SE section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC
11/05/2016	Central Section			Willow Warbler			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
11/05/2016	Central Section			Willow Warbler			;	PC
12/05/2016	N section			Willow Warbler			;	PC
12/05/2016	N section			Willow Warbler			;	PC
12/05/2016	N section			Willow Warbler			;	PC
12/05/2016	N section			Willow Warbler			;	PC
12/05/2016	N section			Willow Warbler			;	PC
12/05/2016	N section			Willow Warbler			;	PC
20/05/2016	S section			Willow Warbler			;	PC
27/05/2016	W section			Willow Warbler			;	PC
27/05/2016	W section			Willow Warbler			;	PC
27/05/2016	W section			Willow Warbler			;	PC
27/05/2016	W section			Willow Warbler			;	PC
27/05/2016	W section			Willow Warbler			;	PC
27/05/2016	W section			Willow Warbler			;	PC
27/05/2016	W section			Willow Warbler			;	PC
27/05/2016	W section			Willow Warbler			;	PC
27/05/2016	W section			Willow Warbler			;	PC
27/05/2016	W section			Willow Warbler			;	PC
28/06/2016	Section 3	Q1	17:25:00	Wood Pigeon		PB, (Bogs) Seen along conifer forest edge in west of Q1	;	SM
15/07/2016	Section 3	Q1	12:06:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
20/07/2016	Section 4	Q1	16:01:00	Wood Pigeon		WD4, (Conifer plantation) Along the edge of conifer forest	;	SM
26/06/2016	Section 1	Q2	09:10:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
30/06/2016	Section 2	Q2	10:11:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
15/07/2016	Section 3	Q2	15:48:00	Wood Pigeon		WD4, (Conifer plantation) Along the block of coniferous forest in the south west section of Q2.	;	SM
20/07/2016	Section 4	Q2	17:48:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
25/07/2016	Section 2	Q2	13:04:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
16/06/2016	Section 4	Q3	15:37:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
24/06/2016	Section 5	Q3	14:19:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
28/06/2016	Section 3	Q3	16:39:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
15/07/2016	Section 3	Q3	13:24:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
24/07/2016	Section 1	Q3	12:58:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
25/07/2016	Section 2	Q3	11:41:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
25/07/2016	Section 4	Q3	08:09:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
16/06/2016	Section 4	Q4	16:54:00	Wood Pigeon		WD4, (Conifer plantation) Along forest edge - Q4	;	SM
30/06/2016	Section 2	Q4	11:34:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
15/07/2016	Section 3	Q4	17:24:00	Wood Pigeon		WD4, (Conifer plantation)	;	SM
25/07/2016	Section 4	Q4	10:34:00	Wood Pigeon		WD4, (Conifer plantation) Along trackway leading to Buffy	;	SM
18/04/2016	SE section			Wood Pigeon			;	PC
11/05/2016	Central Section			Wood Pigeon			;	PC
27/05/2016	W section			Wood Pigeon			;	PC
28/03/2016		2		Wren	1		#N/A	CP
28/03/2016		2		Wren	1		#N/A	CP
28/03/2016		2		Wren	1		#N/A	CP
28/03/2016		3		Wren	1		#N/A	CP
28/03/2016		3		Wren	1		#N/A	CP
28/03/2016		7		Wren	1		#N/A	CP
28/03/2016		8		Wren	1		#N/A	CP
28/03/2016		8		Wren	1		#N/A	CP
28/03/2016		9		Wren	1		#N/A	CP
28/03/2016		13		Wren	1		#N/A	CP
28/03/2016		13		Wren	1		#N/A	CP
28/03/2016		15		Wren	1		#N/A	CP
28/03/2016		15		Wren	1		#N/A	CP
25/06/2016	Section 1	Q1	14:05:00	Wren		WD4, (Conifer plantation)	;	SM
28/06/2016	Section 3	Q1	17:41:00	Wren		PB2, (Upland blanket bog) WS5, (Recently-felled woodland)	;	SM
15/07/2016	Section 3	Q1	12:34:00	Wren		WS5, (Recently-felled woodland) Amongst brash on clearfell	;	SM
24/07/2016	Section 1	Q1	13:54:00	Wren		Along roadway running to the south of Lough Naweelan	;	SM
26/07/2016	Section 5	Q1	08:15:00	Wren		PB2, (Upland blanket bog) Along main windfarm entrance road	;	SM
15/06/2016	Section 4	Q2	17:33:00	Wren		WD4, (Conifer plantation) Along forest edge - Q2	;	SM
30/06/2016	Section 2	Q2	10:37:00	Wren		WD4, (Conifer plantation)	;	SM
24/06/2016	Section 5	Q3	14:35:00	Wren		WD4, (Conifer plantation)	;	SM

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
28/06/2016	Section 3	Q3	15:58:00	Wren		WD4, (Conifer plantation) Area in north of Q3 along forest road.	;	SM
28/06/2016	Section 3	Q3	16:44:00	Wren		WD4, (Conifer plantation) Adult seen with food. Breeding pair likely.	Adults carrying faecal sac or food for young; Confirmed breeding	SM
30/06/2016	Section 2	Q3	12:40:00	Wren		Amongst willow by lake in southern end of Q3	;	SM
15/07/2016	Section 3	Q3	14:16:00	Wren			;	SM
25/07/2016	Section 4	Q3	08:48:00	Wren		WD4, (Conifer plantation) Along forest ride	;	SM
26/07/2016	Section 5	Q3	09:00:00	Wren		WS5, (Recently-felled woodland) Amongst brash	;	SM
16/06/2016	Section 4	Q4	16:48:00	Wren		WD4, (Conifer plantation) Along forest edge - Q4 - adult with food	Adults carrying faecal sac or food for young; Confirmed breeding	SM
27/06/2016	Section 3	Q4	13:49:00	Wren		PB2, (Upland blanket bog)	;	SM
30/06/2016	Section 2	Q4	10:42:00	Wren		WD4, (Conifer plantation) Amongst scrub along main site roadway	;	SM
30/06/2016	Section 2	Q4	12:21:00	Wren		BL3, (Buildings and artificial surfaces) Amongst scrub along forest track	;	SM
25/07/2016	Section 2	Q4	12:34:00	Wren		Scrub along roadway	;	SM
25/07/2016	Section 4	Q4	08:47:00	Wren		WD4, (Conifer plantation) Along trackway leading to Buffy	;	SM
25/07/2016	Section 4	Q4	10:29:00	Wren		WD4, (Conifer plantation) Along trackway leading to Buffy	;	SM
18/04/2016	SE section			Wren			;	PC
18/04/2016	SE section			Wren			;	PC
18/04/2016	SE section			Wren			;	PC
18/04/2016	SE section			Wren			;	PC
18/04/2016	SE section			Wren			;	PC
18/04/2016	SE section			Wren			;	PC
18/04/2016	SE section			Wren			;	PC
18/04/2016	SE section			Wren			;	PC

**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
18/04/2016	SE section			Wren			;	PC
18/04/2016	SE section			Wren			;	PC
18/04/2016	SE section			Wren			;	PC
18/04/2016	SE section			Wren			;	PC
19/04/2016	SW section			Wren			;	PC
19/04/2016	SW section			Wren			;	PC
19/04/2016	SW section			Wren			;	PC
27/04/2016	E section			Wren			;	PC
27/04/2016	E section			Wren			;	PC
27/04/2016	E section			Wren			;	PC
28/04/2016	N section			Wren			;	PC
28/04/2016	N section			Wren			;	PC
28/04/2016	N section			Wren			;	PC
28/04/2016	N section			Wren			;	PC
09/05/2016	SE section			Wren			;	PC
11/05/2016	Central Section			Wren			;	PC
11/05/2016	Central Section			Wren			;	PC
11/05/2016	Central Section			Wren			;	PC
11/05/2016	Central Section			Wren			;	PC
11/05/2016	Central Section			Wren			;	PC
11/05/2016	Central Section			Wren			;	PC
12/05/2016	N section			Wren			;	PC
12/05/2016	N section			Wren			;	PC
12/05/2016	N section			Wren			;	PC



**Table 24: Breeding Bird Survey Non-Target Species Data**

Survey Date	Section	VP/Trans/Quad No.	Time of observation	Species	No. of birds	Habitat and Activity	Breeding Status	Surveyor
12/05/2016	N section			Wren			;	PC
12/05/2016	N section			Wren			;	PC
20/05/2016	S section			Wren			;	PC
20/05/2016	S section			Wren			;	PC
27/05/2016	W section			Wren			;	PC
27/05/2016	W section			Wren			;	PC
27/05/2016	W section			Wren			;	PC
27/05/2016	W section			Wren			;	PC
27/05/2016	W section			Wren			;	PC
27/05/2016	W section			Wren			;	PC
27/05/2016	W section			Wren			;	PC
27/05/2016	W section			Wren			;	PC
27/05/2016	W section			Wren			;	PC

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
02/12/2017	1		Blackbird	1			CP
21/11/2016	4	12:01:00	Blackbird	1	1-5m	Calling	JOS
02/12/2017	4		Blackbird	1			CP
01/11/2016	12		Blackbird	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	14	11:30:00	Blackbird	5	1-5m	Calling. In flight.	JOS
02/11/2016	20		Blackbird	2	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	1	10:02:00	Blue tit	1	1-5m	Calling	JOS
01/11/2016	2		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	2	10:15:00	Blue tit	1	1-5m	WS5, (Recently-felled woodland) Calling in conifers	JOS
13/12/2016	2	10:22:00	Blue tit	1	1-5m	WS5, (Recently-felled woodland) Calling in willows by track	JOS
01/11/2016	3		Blue tit	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	3		Blue tit	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	3		Blue tit	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	3		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	4		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	4		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	4	12:01:00	Blue tit	1	1-5m	Calling	JOS
21/11/2016	4	12:04:00	Blue tit	2	1-5m	Calling	JOS
13/12/2016	4	11:02:00	Blue tit	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	4	11:06:00	Blue tit	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling in conifers	JOS
31/01/2018	4		Blue Tit	1			CP
01/11/2016	5		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	5		Blue tit	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	5		Blue tit	1	1-5M	PB, (Bogs) Calling	JOS
21/11/2016	5	12:05:00	Blue tit	1	1-5m	Calling	JOS
13/12/2016	5	11:55:00	Blue tit	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
13/12/2016	5	12:10:00	Blue tit	1	1-5m	WD4, (Conifer plantation) Calling	JOS
01/11/2016	6		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	6	13:02:00	Blue tit	1	1-5m	Calling in conifers.	JOS
01/11/2016	8		Blue tit	1	1-5M	PB, (Bogs) WS5, (Recently-felled woodland)Calling	JOS
01/11/2016	8		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	8	15:45:00	Blue tit	1	1-5m	Calling in conifers.	JOS
21/11/2016	8	15:54:00	Blue tit	1	1-5m	Calling.	JOS
13/12/2016	8	13:33:00	Blue tit	1	1m	WS1, (Scrub/ transitional woodland) Call, in willows	JOS
02/12/2017	8		Blue Tit	2			CP
21/11/2016	9	15:24:00	Blue tit	1	1-5m	Calling in conifers.	JOS
21/11/2016	9	15:31:00	Blue tit	1	1-5m	Calling in conifers.	JOS
21/11/2016	10	14:45:00	Blue tit	1	1-5m	Calling in conifers.	JOS
21/11/2016	10	15:03:00	Blue tit	1	1-5m	Calling in conifers.	JOS
21/11/2016	10	15:07:00	Blue tit	1	1-5m	Calling in conifers.	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/11/2016	11		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	11		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	11	14:32:00	Blue tit	1	1-5m	Calling in conifers.	JOS
21/11/2016	11	14:33:00	Blue tit	1	1-5m	Calling in conifers.	JOS
21/11/2016	11	14:39:00	Blue tit	1	1-5m	Calling in conifers.	JOS
01/11/2016	12		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Blue tit	1	10-15M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	12	09:50:00	Blue tit	2	1-5m	Calling. Perched on willow.	JOS
24/11/2016	12	10:00:00	Blue tit	1	1-5m	Calling.	JOS
24/11/2016	12	10:13:00	Blue tit	1	1-5m	Calling.	JOS
01/11/2016	13		Blue tit	1	1-5M	WS5, (Recently-felled woodland) PB, (Bogs)Calling	JOS
01/11/2016	13		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
04/02/2018	14		Blue Tit	2			CP
02/11/2016	18		Blue tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	18	13:47:00	Blue tit	1	1-5m	Calling.	JOS
24/11/2016	19	14:20:00	Blue tit	1	1-5m	Calling.	JOS
24/11/2016	19	14:27:00	Blue tit	1	1-5m	Calling.	JOS
24/11/2016	19	14:30:00	Blue tit	1	1-5m	Calling.	JOS
12/12/2016		11:05:00	Blue tit	1		Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	2	09:56:00	Bullfinch	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	2	10:15:00	Bullfinch	1	1-5m	WS5, (Recently-felled woodland) Calling in conifers	JOS
13/12/2016	3	10:57:00	Bullfinch	1	1-5M	WD4, (Conifer plantation) Calling, in flight	JOS
13/12/2016	5	12:09:00	Bullfinch	1	1-5m	WD4, (Conifer plantation) PB, (Bogs) Calling	JOS
13/12/2016	5	12:17:00	Bullfinch	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	5	12:20:00	Bullfinch	3	5-10m	WD4, (Conifer plantation) In flight, calling.	JOS
01/11/2016	10		Bullfinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	11	14:28:00	Bullfinch	1	2m	WS5, (Recently-felled woodland) Calling	JOS
24/11/2016	12	10:01:00	Bullfinch	2	1-5m	Calling. Fly amongst trees, calling, perch.	JOS
24/11/2016	12	10:39:00	Bullfinch	1	1-5m	Calling.	JOS
24/11/2016	14	11:40:00	Bullfinch	1	1-5m	Calling.	JOS
02/11/2016	18		Bullfinch	1	10-15M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	19		Bullfinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
12/12/2016		10:03:00	Bullfinch	2		Perched. Calling	JOS
12/12/2016		10:43:00	Bullfinch	1		Calling	JOS
21/11/2016	1	09:57:00	Chaffinch	1	1-5m	Calling	JOS
31/01/2018	1		Chaffinch	1			CP
01/11/2016	2		Chaffinch	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	2		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	2	10:10:00	Chaffinch	1	1-5m	Calling	JOS



**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
21/11/2016	2	10:23:00	Chaffinch	1	1-5m	Calling	JOS
21/11/2016	2	10:29:00	Chaffinch	1	1-5m	Calling	JOS
21/11/2016	2	10:35:00	Chaffinch	1	1-5m	Calling	JOS
13/12/2016	2	10:21:00	Chaffinch	1	1-5m	WS5, (Recently-felled woodland) Calling in conifers	JOS
02/12/2017	2		Chaffinch	2			CP
01/11/2016	3		Chaffinch	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	3		Chaffinch	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	3		Chaffinch	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	3		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	3	10:43:00	Chaffinch	1	1-5m	Calling	JOS
13/12/2016	3	10:56:00	Chaffinch	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	4		Chaffinch	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	4		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	4	10:59:00	Chaffinch	1	1-5m	Calling	JOS
21/11/2016	4	11:13:00	Chaffinch	1	1-5m	Calling	JOS
21/11/2016	4	11:25:00	Chaffinch	1	1-5m	Calling	JOS
21/11/2016	4	11:39:00	Chaffinch	1	1-5m	Calling	JOS
21/11/2016	4	11:59:00	Chaffinch	1	1-5m	Calling	JOS
21/11/2016	4	12:01:00	Chaffinch	1	1-5m	Calling	JOS
13/12/2016	4	10:59:00	Chaffinch	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS
13/12/2016	4	11:05:00	Chaffinch	1	5-10m	WD4, (Conifer plantation) Calling in conifers	JOS
02/12/2017	4		Chaffinch	2			CP

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/11/2016	5		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	5		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	5		Chaffinch	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	5		Chaffinch	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	5		Chaffinch	1	1-5M	PB, (Bogs) Calling	JOS
21/11/2016	5	12:05:00	Chaffinch	1	1-5m	Calling	JOS
21/11/2016	5	12:20:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
21/11/2016	5	12:38:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
21/11/2016	5	12:45:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
13/12/2016	5	11:55:00	Chaffinch	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
13/12/2016	5	12:01:00	Chaffinch	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
31/01/2018	5		Chaffinch	1			CP
01/11/2016	6		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	6		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	6	13:00:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
02/12/2017	6		Chaffinch	2			CP
21/11/2016	7	13:11:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
01/11/2016	8		Chaffinch	1	10-25M	WS5, (Recently-felled woodland) PB, (Bogs)Calling	JOS
01/11/2016	8		Chaffinch	1	10-25M	PB, (Bogs) WS5, (Recently-felled woodland)Calling	JOS
01/11/2016	8		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/11/2016	8		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Chaffinch	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	8		Chaffinch	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	8		Chaffinch	1	10-25M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Chaffinch	1	10-25M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	8	15:36:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
21/11/2016	8	15:38:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
21/11/2016	8	15:45:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
21/11/2016	8	15:54:00	Chaffinch	1	1-5m	Calling.	JOS
21/11/2016	8	16:00:00	Chaffinch	1	1-5m	Calling.	JOS
01/11/2016	9		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	9		Chaffinch	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
21/11/2016	9	15:22:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
13/12/2016	9	13:53:00	Chaffinch	1	1m	WD4, (Conifer plantation) Calling.	JOS
13/12/2016	9	13:54:00	Chaffinch	1	5-10m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	9	13:56:00	Chaffinch	1	10-25m	WD4, (Conifer plantation) Calling.	JOS
01/11/2016	10		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	10		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	10		Chaffinch	1	10-25M	WD4, (Conifer plantation) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/11/2016	10		Chaffinch	1	10-25M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	10		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	10		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	10	14:53:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
21/11/2016	10	14:59:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
21/11/2016	10	15:04:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
01/11/2016	11		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	11		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	11	14:20:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
21/11/2016	11	14:26:00	Chaffinch	1	1-5m	Calling in conifers.	JOS
01/11/2016	12		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Chaffinch	1	5-10M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/11/2016	12		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	12	09:52:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	09:57:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	10:01:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	10:08:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	10:08:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	10:19:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	10:20:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	10:25:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	10:25:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	10:29:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	10:35:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	12	10:38:00	Chaffinch	1	1-5m	Calling.	JOS
01/11/2016	13		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	13		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	14		Chaffinch	1	1-5M	PB, (Bogs) Calling	JOS
24/11/2016	14	11:25:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	14	11:28:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	14	11:45:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	14	11:52:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	14	12:09:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	15	12:14:00	Chaffinch	1	1-5m	Calling.	JOS
01/12/2017	15		Chaffinch	1			CP
04/02/2018	15		Chaffinch	2			CP
24/11/2016	16	12:34:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	16	12:43:00	Chaffinch	1	1-5m	Calling.	JOS



**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
24/11/2016	17	12:54:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	17	13:02:00	Chaffinch	1	1-5m	Calling.	JOS
01/12/2017	17		Chaffinch	2			CP
04/02/2018	17		Chaffinch	3			CP
02/11/2016	18		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	18	13:47:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	18	13:57:00	Chaffinch	1	1-5m	Calling.	JOS
02/11/2016	19		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	20		Chaffinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	20	14:54:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	20	14:54:00	Chaffinch	1	1-5m	Calling.	JOS
24/11/2016	20	14:58:00	Chaffinch	1	1-5m	Calling.	JOS
01/12/2017	20		Chaffinch	2			CP
04/02/2018	20		Chaffinch	1			CP
12/12/2016		09:56:00	Chaffinch	1		Calling	JOS
12/12/2016		10:48:00	Chaffinch	1		Calling	JOS
12/12/2016		12:10:00	Chaffinch	1		Calling	JOS
01/11/2016	1		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	1		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	1	09:46:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling	JOS
01/11/2016	2		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	2	10:32:00	Coal tit	1	1-5m	Calling	JOS
13/12/2016	2	09:56:00	Coal tit	4	1-5m	WD4, (Conifer plantation) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	2	09:56:00	Coal tit	10	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	2	10:20:00	Coal tit	1	1-5m	WS5, (Recently-felled woodland) Calling in conifers	JOS
13/12/2016	2	10:20:00	Coal tit	1	1-5m	WS5, (Recently-felled woodland) Calling in conifers	JOS
02/12/2017	2		Coal Tit	2			CP
31/01/2018	2		Coal Tit	1			CP
01/11/2016	3		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	3		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	3	10:58:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS
13/12/2016	3	10:59:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS
02/12/2017	3		Coal Tit	2			CP
13/12/2016	4	10:59:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS
13/12/2016	4	11:02:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling in flight, in conifers	JOS
13/12/2016	4	11:04:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS
13/12/2016	4	11:07:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS
13/12/2016	4	11:07:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS
13/12/2016	4	11:25:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling	JOS
01/11/2016	5		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	5		Coal tit	1	1-5M	PB, (Bogs) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/11/2016	5		Coal tit	1	1-5M	PB, (Bogs) Calling	JOS
21/11/2016	5	12:05:00	Coal tit	1	1-5m	Calling	JOS
13/12/2016	5	12:05:00	Coal tit	3	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
13/12/2016	5	12:09:00	Coal tit	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
13/12/2016	5	12:17:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	5	12:31:00	Coal tit	3	1-5m	WD4, (Conifer plantation) Calling	JOS
02/12/2017	5		Coal Tit	1			CP
13/12/2016	6	12:34:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	6	12:40:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	6	12:42:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling	JOS
01/11/2016	7		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	7	12:47:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/11/2016	8		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	8	13:34:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling, Conifers	JOS
13/12/2016	8	13:45:00	Coal tit	1	1m	WD4, (Conifer plantation) Calling. Conifer	JOS
13/12/2016	8	13:45:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Conifers. Calling.	JOS
02/12/2017	8		Coal Tit	4			CP
01/11/2016	9		Coal tit	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
02/12/2017	9		Coal Tit	2			CP
01/11/2016	10		Coal tit	1	10-25M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	10		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	10		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/12/2017	10		Coal Tit	1			CP
21/11/2016	11	14:39:00	Coal tit	1	1-5m	Calling in conifers.	JOS
13/12/2016	11	14:25:00	Coal tit	1	1-5m	WD4, (Conifer plantation) Calling in conifers.	JOS
13/12/2016	11	14:50:00	Coal tit	1	1m	WD4, (Conifer plantation) Calling	JOS
02/12/2017	11		Coal Tit	4			CP
23/01/2018	11		Coal Tit	1			CP
01/11/2016	12		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Coal tit	3	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
24/11/2016	12	10:29:00	Coal tit	3	1-5m	Calling.	JOS
12/12/2016	12	09:48:00	Coal tit	1		Conifer. Fly , perch, call.	JOS
01/12/2017	12		Coal Tit	5			CP
01/12/2017	13		Coal Tit	3			CP
24/01/2018	13		Coal Tit	2			CP
24/11/2016	14	11:29:00	Coal tit	1	1-5m	Calling.	JOS
24/11/2016	14	11:29:00	Coal tit	1	1-5m	Calling.	JOS
01/12/2017	14		Coal Tit	9			CP
04/02/2018	14		Coal Tit	2			CP
02/11/2016	15		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	15	12:22:00	Coal tit	3	1-5m	Calling.	JOS
01/12/2017	15		Coal Tit	3			CP
02/11/2016	16		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/12/2017	16		Coal Tit	2			CP
04/02/2018	16		Coal Tit	3			CP
02/11/2016	17		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
04/02/2018	17		Coal Tit	2			CP
02/11/2016	18		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	18		Coal tit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
04/02/2018	18		Coal Tit	3			CP
01/12/2017	19		Coal Tit	3			CP
01/12/2017	20		Coal Tit	8			CP
04/02/2018	20		Coal Tit	1			CP
12/12/2016		10:17:00	Coal tit	4		Perched. Calling	JOS
12/12/2016		11:17:00	Coal tit	1		Calling	JOS
12/12/2016		11:54:00	Coal tit	1		Calling	JOS



**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
12/12/2016		12:15:00	Coal tit	3		Calling	JOS
12/12/2016		12:30:00	Coal tit	1		Calling	JOS
12/12/2016		12:54:00	Coal tit	1		Calling	JOS
12/12/2016		13:34:00	Coal tit	3		Calling	JOS
31/01/2018	1		Blackbird	1			CP
23/01/2018	10		Crossbill	1			CP
24/01/2018	12		Crossbill	1			CP
04/02/2018	14		Crossbill	1			CP
04/02/2018	16		Crossbill	2			CP
04/02/2018	19		Crossbill	2			CP
04/02/2018	20		Crossbill	3		In flight.	CP
24/01/2018	12		Pheasant	1			CP
31/01/2018	3		Raven	3		In flight.	CP
31/01/2018	5		Raven	2			CP
23/01/2018	8		Raven	1			CP
23/01/2018	9		Raven	1		In flight.	CP
23/01/2018	11		Raven	1			CP
04/02/2018	15		Raven	1		In flight.	CP
31/01/2018	4		Snipe	1		Flushed.	CP
13/12/2016	1	09:40:00	Crossbill	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	1	09:45:00	Crossbill	1	1-5m	WD4, (Conifer plantation) Calling	JOS
21/11/2016	2	10:16:00	Crossbill	2	1-5m	Calling	JOS
13/12/2016	2	09:55:00	Crossbill	1	1-5m	WD4, (Conifer plantation) Calling	JOS
02/12/2017	2		Crossbill	3			CP
13/12/2016	3	10:24:00	Crossbill	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS
13/12/2016	5	12:03:00	Crossbill	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	5	12:10:00	Crossbill	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	5	12:16:00	Crossbill	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	5	12:25:00	Crossbill	4	1-5m	WD4, (Conifer plantation) In flight, band 2, over bog	JOS
13/12/2016	5	12:28:00	Crossbill	2	1-5m	WD4, (Conifer plantation) PB, (Bogs)In flight, band 2, calling over bog.	JOS
02/12/2017	8		Crossbill	3			CP
13/12/2016	9	13:54:00	Crossbill	1	1m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	11	14:28:00	Crossbill	1	5m	WS5, (Recently-felled woodland) Calling	JOS
02/12/2017	11		Crossbill	8			CP
24/11/2016	12	10:19:00	Crossbill	1	1-5m	Calling.	JOS
24/11/2016	12	10:20:00	Crossbill	1	1-5m	Calling.	JOS
24/11/2016	12	10:20:00	Crossbill	1	1-5m	Calling.	JOS
24/11/2016	12	10:38:00	Crossbill	1	1-5m	Calling.	JOS
24/11/2016	12	10:42:00	Crossbill	1	1-5m	Calling.	JOS
24/11/2016	12	10:46:00	Crossbill	1	1-5m	Calling.	JOS
24/11/2016	12	10:51:00	Crossbill	3	1-5m	Calling.	JOS
01/11/2016	14		Crossbill	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/12/2017	14		Crossbill	2			CP
02/11/2016	16		Crossbill	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	16		Crossbill	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	17	12:47:00	Crossbill	4	1-5m	Calling.	JOS
01/12/2017	17		Crossbill	1			CP

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
02/11/2016	18		Crossbill	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/12/2017	19		Crossbill	1			CP
12/12/2016		10:20:00	Crossbill	2		Calling	JOS
12/12/2016		10:30:00	Crossbill	1		Calling	JOS
12/12/2016		13:41:00	Crossbill	1		Calling	JOS
01/11/2016	1		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	1	09:45:00	Dunnock	1	1-5m	WD4, (Conifer plantation) Calling	JOS
01/11/2016	2		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	2	10:23:00	Dunnock	1	1-5m	Calling	JOS
21/11/2016	2	10:29:00	Dunnock	1	1-5m	Calling	JOS
21/11/2016	2	10:40:00	Dunnock	1	1-5m	Calling	JOS
13/12/2016	2	10:04:00	Dunnock	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	2	10:15:00	Dunnock	1	1-5m	WS5, (Recently-felled woodland) Calling in conifers	JOS
01/11/2016	3		Dunnock	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
13/12/2016	3	10:56:00	Dunnock	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
21/11/2016	4	10:59:00	Dunnock	1	1-5m	Calling	JOS
21/11/2016	4	11:06:00	Dunnock	1	1-5m	Calling	JOS
13/12/2016	5	12:08:00	Dunnock	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
01/11/2016	6		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	6	12:55:00	Dunnock	1	1-5m	Calling in conifers.	JOS
21/11/2016	6	12:58:00	Dunnock	1	1-5m	Calling in conifers.	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	6	12:43:00	Dunnock	1	1-5m	WD4, (Conifer plantation) Calling	JOS
01/11/2016	7		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	7	12:47:00	Dunnock	1	1-5m	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Dunnock	1	1-5M	PB, (Bogs) WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	8		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	8	15:45:00	Dunnock	1	1-5m	Calling in conifers.	JOS
21/11/2016	8	15:50:00	Dunnock	1	1-5m	Calling.	JOS
13/12/2016	8	13:28:00	Dunnock	1	1m	PB, (Bogs) WD4, (Conifer plantation) Calling	JOS
01/11/2016	9		Dunnock	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	10		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	10	15:07:00	Dunnock	1	1-5m	Calling in conifers.	JOS
01/11/2016	11		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	11		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	11	14:20:00	Dunnock	1	1-5m	Calling in conifers.	JOS
24/11/2016	12	10:16:00	Dunnock	1	1-5m	Calling.	JOS
24/11/2016	12	10:46:00	Dunnock	1	1-5m	Calling.	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
24/11/2016	13	11:03:00	Dunnock	1	1-5m	Calling.	JOS
01/11/2016	14		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	14	11:10:00	Dunnock	1	1-5m	Calling.	JOS
24/11/2016	14	11:17:00	Dunnock	1	1-5m	Calling.	JOS
02/11/2016	18		Dunnock	1	10-15M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	18	14:04:00	Dunnock	2	1-5m	Calling. Perch.	JOS
24/11/2016	18	14:07:00	Dunnock	1	1-5m	In flight. Calling. Perch	JOS
02/11/2016	19		Dunnock	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	19		Dunnock	1	5-10M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	19	14:28:00	Dunnock	1	1-5m	Calling.	JOS
24/11/2016	20	14:58:00	Dunnock	1	1-5m	Calling.	JOS
12/12/2016		11:27:00	Dunnock	1		Calling	JOS
12/12/2016		13:26:00	Dunnock	1		Calling	JOS
31/01/2018	2		Siskin	15		In flight.	CP
04/02/2018	16		Siskin	12		In flight.	CP
04/02/2018	19		Siskin	5		In flight.	CP
31/01/2018	1		Robin	2			CP
31/01/2018	2		Robin	1			CP
31/01/2018	3		Robin	1			CP
31/01/2018	6		Robin	1			CP
04/02/2018	14		Robin	2			CP
04/02/2018	17		Robin	1			CP
04/02/2018	19		Robin	2			CP
04/02/2018	20		Robin	1			CP
21/11/2016	2	10:25:00	Fieldfare	12	1-5m	Calling	JOS
21/11/2016	3	10:42:00	Fieldfare	10	1-5m	Calling	JOS



**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/11/2016	4		Fieldfare	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	9		Fieldfare	10	10-25M	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	11		Fieldfare	15	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	11		Fieldfare	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
24/11/2016	14	11:29:00	Fieldfare	8	1-5m	Calling. In flight.	JOS
02/11/2016	18		Fieldfare	30	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	20		Fieldfare	200	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	2	10:32:00	Goldcrest	3	1-5m	Calling	JOS
21/11/2016	3	10:40:00	Goldcrest	1	1-5m	Calling	JOS
21/11/2016	4	12:01:00	Goldcrest	1	1-5m	Calling	JOS
21/11/2016	5	12:05:00	Goldcrest	1	1-5m	Calling	JOS
01/11/2016	8		Goldcrest	1	10-25M	PB, (Bogs) WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	8		Goldcrest	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	8	15:48:00	Goldcrest	1	1-5m	Calling in conifers.	JOS
01/11/2016	9		Goldcrest	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	10	15:02:00	Goldcrest	1	1-5m	Calling in conifers.	JOS
21/11/2016	10	15:08:00	Goldcrest	1	1-5m	Calling in conifers.	JOS
01/12/2017	15		Goldcrest	1			CP
04/02/2018	16		Goldcrest	1			CP
02/11/2016	18		Goldcrest	1	10-15M	WD4, (Conifer plantation) In flight, calls.	JOS
02/11/2016	19		Goldcrest	1	1-5M	WD4, (Conifer plantation) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/11/2016	11		Goldfinch	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/12/2017	11		Great Tit	1			CP
04/02/2018	14		Great Tit	1			CP
02/12/2017	1		Hooded Crow	1		In flight.	CP
21/11/2016	5	12:38:00	Hooded crow	1	1-5m	Calling in conifers.	JOS
21/11/2016	9	15:26:00	Hooded crow	1	1-5m	Calling in conifers.	JOS
02/11/2016	18		Hooded crow	1	1-5M	WD4, (Conifer plantation) Calling	JOS
04/02/2018	20		Jack Snipe	1		Flushed.	CP
13/12/2016	2	10:16:00	Jay	1	1-5m	WS5, (Recently-felled woodland) Calling in conifers	JOS
01/11/2016	6		Lesser redpoll	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	19		Lesser redpoll	1	1-5M	WD4, (Conifer plantation) Calling	JOS
04/02/2018	20		Lesser Redpoll	2		Landed in tree.	CP
01/11/2016	10		Linnet	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	11	14:40:00	Linnet	1	1-5m	Calling in conifers.	JOS
01/11/2016	12		Linnet	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	13	11:01:00	Linnet	4	1-5m	Calling.	JOS
24/11/2016	16	12:40:00	Linnet	3	1-5m	Calling.	JOS
02/11/2016	18		Linnet	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	20		Linnet	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	5	12:24:00	Long tailed tit	4	1-5m	Calling in conifers.	JOS
21/11/2016	5	12:27:00	Long tailed tit	1	1-5m	Calling in conifers.	JOS
21/11/2016	5	12:28:00	Long tailed tit	1	1-5m	Calling in conifers.	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	5	12:14:00	Long tailed tit	10	1-5m	WD4, (Conifer plantation) Alarm calling due to sparrowhawk hunting. Fly across transect.	JOS
21/11/2016	8	15:50:00	Long tailed tit	4	1-5m	Calling by conifers on lake shore	JOS
01/11/2016	8		Mallard	1	1-5M	Calling	JOS
13/12/2016	10	14:10:00	Mallard	1	1m	PB, (Bogs) WD4, (Conifer plantation)Lifts from drain by transect, flies SW (band 1, 5 seconds) then up to band 2 over conifers out of view.	JOS
21/11/2016	2	10:19:00	Meadow pipit	1	1-5m	Calling	JOS
21/11/2016	2	10:25:00	Meadow pipit	1	1-5m	Calling	JOS
21/11/2016	3	10:48:00	Meadow pipit	1	1-5m	Calling	JOS
13/12/2016	3	10:29:00	Meadow pipit	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS
02/12/2017	3		Meadow Pipit	1			CP
21/11/2016	4	10:53:00	Meadow pipit	1	1-5m	Calling	JOS
21/11/2016	4	12:01:00	Meadow pipit	1	1-5m	Calling	JOS
01/11/2016	5		Meadow pipit	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	5		Meadow pipit	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	5		Meadow pipit	3	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	5		Meadow pipit	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	8		Meadow pipit	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	9		Meadow pipit	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
24/11/2016	13	11:00:00	Meadow pipit	1	1-5m	Calling.	JOS
01/12/2017	13		Meadow Pipit	1			CP
01/11/2016	14		Meadow pipit	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	14		Meadow pipit	1	1-5M	PB, (Bogs) Calling	JOS
24/11/2016	14	11:17:00	Meadow pipit	3	1-5m	Calling. In flight.	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
24/11/2016	19	14:27:00	Meadow pipit	1	1-5m	Calling.	JOS
12/12/2016		12:54:00	Meadow pipit	1		Calling	JOS
12/12/2016		13:16:00	Meadow pipit	1		Calling	JOS
04/02/2018	14		Mistle Thrush	1			CP
02/11/2016	18		Mistle thrush	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	18		Mistle thrush	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	3	10:30:00	Raven	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS
02/12/2017	3		Raven	2			CP
21/11/2016	4	11:01:00	Raven	1	1-5m	Calling	JOS
21/11/2016	4	11:23:00	Raven	1	1-5m	Calling	JOS
02/12/2017	7		Raven	2		In flight.	CP
24/11/2016	13	10:53:00	Raven	1	1-5m	Calling.	JOS
01/12/2017	20		Raven	1		In flight.	CP
31/01/2018	1		Reed Bunting	1			CP
02/12/2017	4		Reed Bunting	3			CP
31/01/2018	4		Reed Bunting	2			CP
02/12/2017	5		Reed Bunting	7			CP
02/12/2017	8		Reed Bunting	10			CP
01/12/2017	14		Reed Bunting	3			CP
21/11/2016	1	09:55:00	Robin	1	1-5m	Calling	JOS
13/12/2016	1	09:49:00	Robin	1	1-5m	WD4, (Conifer plantation) Calling	JOS
02/12/2017	1		Robin	2			CP
01/11/2016	2		Robin	1	1-5M	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
01/11/2016	2		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	2	10:12:00	Robin	1	1-5m	Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
21/11/2016	2	10:15:00	Robin	1	1-5m	Calling	JOS
21/11/2016	2	10:18:00	Robin	1	1-5m	Calling	JOS
21/11/2016	2	10:22:00	Robin	1	1-5m	Calling	JOS
01/11/2016	3		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	3		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	3		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	3	10:39:00	Robin	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	4		Robin	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	4		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	4		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	4	11:39:00	Robin	1	1-5m	Calling	JOS
21/11/2016	4	11:59:00	Robin	1	1-5m	Calling	JOS
13/12/2016	4	11:05:00	Robin	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS
13/12/2016	4	11:07:00	Robin	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling in conifers	JOS
01/11/2016	5		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	5	12:14:00	Robin	1	1-5m	Calling	JOS
21/11/2016	5	12:23:00	Robin	1	1-5m	Calling in conifers.	JOS
21/11/2016	5	12:34:00	Robin	1	1-5m	Calling in conifers.	JOS
21/11/2016	5	12:48:00	Robin	1	1-5m	Calling in conifers.	JOS
21/11/2016	5	12:52:00	Robin	1	1-5m	Calling in conifers.	JOS
13/12/2016	5	11:48:00	Robin	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS



**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	5	11:55:00	Robin	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
13/12/2016	5	11:57:00	Robin	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
13/12/2016	5	12:00:00	Robin	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
13/12/2016	5	12:08:00	Robin	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
01/11/2016	6		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	6	12:56:00	Robin	1	1-5m	Calling in conifers.	JOS
21/11/2016	6	13:00:00	Robin	1	1-5m	Calling in conifers.	JOS
02/12/2017	6		Robin	1			CP
21/11/2016	7	13:11:00	Robin	1	1-5m	Calling in conifers.	JOS
01/11/2016	8		Robin	1	1-5M	PB, (Bogs) WS5, (Recently-felled woodland)Calling	JOS
01/11/2016	8		Robin	1	1-5M	PB, (Bogs) WS5, (Recently-felled woodland)Calling	JOS
01/11/2016	8		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Robin	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	8		Robin	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	8		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	8	15:50:00	Robin	1	1-5m	Calling by conifers on lake shore	JOS
01/11/2016	9		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	10	14:58:00	Robin	1	1-5m	Calling in conifers.	JOS
21/11/2016	10	15:02:00	Robin	1	1-5m	Calling in conifers.	JOS
01/11/2016	11		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	11	14:34:00	Robin	1	1m	WD4, (Conifer plantation) Calling	JOS
02/12/2017	11		Robin	1			CP
01/11/2016	12		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	12	10:11:00	Robin	1	1-5m	Calling.	JOS
24/11/2016	12	10:11:00	Robin	1	1-5m	Calling.	JOS
24/11/2016	12	10:11:00	Robin	1	1-5m	Calling.	JOS
24/11/2016	12	10:21:00	Robin	1	1-5m	Calling.	JOS
24/11/2016	12	10:36:00	Robin	2	1-5m	Calling.	JOS
01/12/2017	12		Robin	1			CP
01/11/2016	13		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	13	10:53:00	Robin	1	1-5m	Calling.	JOS
01/11/2016	14		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	14		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	14	11:47:00	Robin	1	1-5m	Calling.	JOS
24/11/2016	14	11:56:00	Robin	1	1-5m	Calling.	JOS
24/11/2016	14	12:07:00	Robin	1	1-5m	Calling.	JOS
02/11/2016	15		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
02/11/2016	15		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	17	12:47:00	Robin	1	1-5m	Calling.	JOS
24/11/2016	17	13:36:00	Robin	1	1-5m	Calling.	JOS
02/11/2016	18		Robin	1	10-15M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	18	14:03:00	Robin	1	1-5m	Calling in birch trees.	JOS
02/11/2016	19		Robin	1	5-10M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	19		Robin	1	10-25M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	19	14:27:00	Robin	1	1-5m	Calling.	JOS
01/12/2017	19		Robin	1			CP
02/11/2016	20		Robin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
12/12/2016		09:54:00	Robin	1		Perched. Calling	JOS
12/12/2016		09:57:00	Robin	1		Calling	JOS
12/12/2016		09:58:00	Robin	1		Calling	JOS
12/12/2016		10:58:00	Robin	1		Calling	JOS
12/12/2016		11:51:00	Robin	1		Calling	JOS
12/12/2016		12:59:00	Robin	1		Calling	JOS
01/11/2016	3		Siskin	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	11		Siskin	5	1-5M	WD4, (Conifer plantation) Calling	JOS
01/12/2017	12		Siskin	3			CP
01/12/2017	15		Siskin	5			CP
01/12/2017	18		Siskin	12			CP
21/11/2016	3	10:44:00	Snipe	1	1-5m	Calling	JOS
21/11/2016	4	11:07:00	Snipe	1	1-5m	Calling	JOS
02/12/2017	5		Snipe	1		Flushed.	CP

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/12/2017	20		Snipe	1		Flushed.	CP
24/11/2016	19	14:30:00	Stonechat	1	1-5m	Calling. Perch.	JOS
24/11/2016	19	14:33:00	Stonechat	1	1-5m	In flight, Calling. Perch	JOS
31/01/2018	1		Winter Wren	2			CP
31/01/2018	6		Winter Wren	1			CP
31/01/2018	7		Winter Wren	1			CP
23/01/2018	8		Winter Wren	1			CP
23/01/2018	11		Winter Wren	1			CP
04/02/2018	14		Winter Wren	4			CP
04/02/2018	15		Winter Wren	1			CP
04/02/2018	16		Winter Wren	1			CP
04/02/2018	17		Winter Wren	2			CP
04/02/2018	18		Winter Wren	1			CP
04/02/2018	19		Winter Wren	1			CP
04/02/2018	20		Winter Wren	1			CP
21/11/2016	5	12:10:00	Wood pigeon	1	1-5m	Calling	JOS
21/11/2016	5	12:17:00	Wood pigeon	1	1-5m	In flight. Calling	JOS
01/11/2016	13		Wood pigeon	4	5-10M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	1		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	1	10:10:00	Wren	1	1-5m	Calling	JOS
13/12/2016	1	09:40:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
02/12/2017	1		Wren	3			CP
01/11/2016	2		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	2	09:55:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	2	09:56:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	2	10:04:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	2	10:07:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	2	10:08:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	2	10:13:00	Wren	1	1-5m	WS5, (Recently-felled woodland) PB, (Bogs) Calling in conifers	JOS
01/11/2016	3		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	3		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
13/12/2016	3	10:24:00	Wren	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS
13/12/2016	3	10:25:00	Wren	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS
13/12/2016	3	10:35:00	Wren	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS
13/12/2016	3	10:38:00	Wren	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS
13/12/2016	3	10:39:00	Wren	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS
02/12/2017	3		Wren	2			CP
01/11/2016	4		Wren	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	4		Wren	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	4		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	4	11:04:00	Wren	1	1-5m	Calling	JOS
21/11/2016	4	11:25:00	Wren	1	1-5m	Calling	JOS
13/12/2016	4	11:07:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS



**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	4	11:09:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling in conifers	JOS
13/12/2016	4	11:16:00	Wren	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
02/12/2017	4		Wren	1			CP
01/11/2016	5		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	5		Wren	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	5		Wren	1	1-5M	PB, (Bogs) Calling	JOS
21/11/2016	5	12:25:00	Wren	1	1-5m	Calling in conifers.	JOS
13/12/2016	5	12:02:00	Wren	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
13/12/2016	5	12:05:00	Wren	1	1-5m	WD4, (Conifer plantation) PB, (Bogs)Calling	JOS
13/12/2016	5	12:10:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	5	12:22:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	5	12:25:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	5	12:30:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
02/12/2017	5		Wren	1			CP
01/11/2016	6		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	6		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	6	13:00:00	Wren	1	1-5m	Calling in conifers.	JOS
13/12/2016	6	12:42:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
02/12/2017	6		Wren	2			CP
21/11/2016	7	13:08:00	Wren	1	1-5m	Calling in conifers.	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	7	12:46:00	Wren	1	1-5m	WD4, (Conifer plantation) Calling	JOS
02/12/2017	7		Wren	1			CP
01/11/2016	8		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Wren	1	1-5M	PB, (Bogs) Calling	JOS
01/11/2016	8		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	8		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	8	15:35:00	Wren	1	1-5m	Calling in conifers.	JOS
21/11/2016	8	15:54:00	Wren	1	1-5m	Calling.	JOS
21/11/2016	8	15:57:00	Wren	1	1-5m	Calling.	JOS
13/12/2016	8	13:21:00	Wren	1	5m	WD4, (Conifer plantation) Calling	JOS
13/12/2016	8	13:33:00	Wren	1	1m	WD4, (Conifer plantation) Call, in conifer. On track.	JOS
13/12/2016	8	13:45:00	Wren	1	2m	PB, (Bogs) Calling.	JOS
13/12/2016	8	13:50:00	Wren	1	5m	PB, (Bogs) WS5, (Recently-felled woodland) Calling.	JOS
02/12/2017	8		Wren	2			CP
01/11/2016	9		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	9		Wren	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
01/11/2016	9		Wren	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
21/11/2016	9	15:12:00	Wren	1	1-5m	Calling in conifers.	JOS
21/11/2016	9	15:14:00	Wren	1	1-5m	Calling in conifers.	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
13/12/2016	9	13:53:00	Wren	1	1m	PB, (Bogs) WS5, (Recently-felled woodland) Calling	JOS
02/12/2017	9		Wren	2			CP
01/11/2016	10		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
21/11/2016	10	14:53:00	Wren	1	1-5m	Calling in conifers.	JOS
21/11/2016	10	14:55:00	Wren	1	1-5m	Calling in conifers.	JOS
21/11/2016	10	15:04:00	Wren	1	1-5m	Calling in conifers.	JOS
02/12/2017	10		Wren	2			CP
01/11/2016	11		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	11		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	11		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	11		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	11		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	11		Wren	1	1-5M	WS5, (Recently-felled woodland) Calling	JOS
21/11/2016	11	14:20:00	Wren	1	1-5m	Calling in conifers.	JOS
21/11/2016	11	14:26:00	Wren	1	1-5m	Calling in conifers.	JOS
21/11/2016	11	14:39:00	Wren	1	1-5m	Calling in conifers.	JOS
13/12/2016	11	14:18:00	Wren	1	5m	WD4, (Conifer plantation) Calling, conifers	JOS
13/12/2016	11	14:22:00	Wren	1	1m	WD4, (Conifer plantation) Calling, conifers, flies over track, band 1	JOS
13/12/2016	11	14:47:00	Wren	1	1m	WD4, (Conifer plantation) Calling	JOS
02/12/2017	11		Wren	3			CP

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
01/11/2016	12		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
01/11/2016	12		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	12	10:10:00	Wren	1	1-5m	Calling.	JOS
24/11/2016	12	10:48:00	Wren	1	1-5m	Calling/singing.	JOS
01/12/2017	12		Wren	2			CP
01/11/2016	13		Wren	1	1-5M	WS5, (Recently-felled woodland) PB, (Bogs)Calling	JOS
01/11/2016	13		Wren	1	1-5M	PB, (Bogs) WS5, (Recently-felled woodland)Calling	JOS
01/11/2016	13		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	13	11:00:00	Wren	1	1-5m	Calling.	JOS
01/11/2016	14		Wren	1	1-5M	PB, (Bogs) WD4, (Conifer plantation)Calling	JOS
24/11/2016	14	11:10:00	Wren	1	1-5m	Calling.	JOS
24/11/2016	14	11:36:00	Wren	1	1-5m	Calling.	JOS
24/11/2016	14	11:56:00	Wren	1	1-5m	Calling.	JOS
02/11/2016	15		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	16	12:33:00	Wren	1	1-5m	Calling.	JOS
24/11/2016	16	12:46:00	Wren	1	1-5m	Calling.	JOS

**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
02/11/2016	17		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	18		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	18	13:53:00	Wren	1	1-5m	Calling.	JOS
24/11/2016	18	13:53:00	Wren	1	1-5m	Calling.	JOS
24/11/2016	18	13:54:00	Wren	1	1-5m	Alarm calling.	JOS
24/11/2016	18	14:03:00	Wren	1	1-5m	Calling in birch trees.	JOS
24/11/2016	18	14:05:00	Wren	1	1-5m	Calling. Perch.	JOS
24/11/2016	18	14:07:00	Wren	1	1-5m	Calling.	JOS
24/11/2016	18	14:20:00	Wren	1	1-5m	Calling.	JOS
01/12/2017	18		Wren	2			CP
02/11/2016	19		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	19		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	19		Wren	1	5-10M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	19		Wren	1	5-10M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	19	14:30:00	Wren	1	1-5m	Calling.	JOS
01/12/2017	19		Wren	3			CP
02/11/2016	20		wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	20		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
02/11/2016	20		Wren	1	1-5M	WD4, (Conifer plantation) Calling	JOS
24/11/2016	20	14:43:00	Wren	1	1-5m	Calling.	JOS
24/11/2016	20	14:56:00	Wren	1	1-5m	Calling.	JOS
24/11/2016	20	14:56:00	Wren	1	1-5m	Calling.	JOS
01/12/2017	20		Wren	2			CP



**Table 25: Winter Walkover Non-Target Species Data**

Survey Date	VP/Trans/Quad No.	Time of observation	Species	No. of Birds	Sex/age	Habitat and Activity	Surveyor
12/12/2016		09:48:00	Wren	1		Perched. Calling	JOS
12/12/2016		10:03:00	Wren	1		Calling	JOS
12/12/2016		10:20:00	Wren	1		Calling	JOS
12/12/2016		10:25:00	Wren	1		Perched. Calling	JOS
12/12/2016		10:38:00	Wren	1		Calling	JOS
12/12/2016		10:42:00	Wren	1		Calling	JOS
12/12/2016		11:00:00	Wren	1		Calling	JOS
12/12/2016		12:12:00	Wren	1		Calling	JOS
12/12/2016		12:30:00	Wren	1		Calling	JOS
12/12/2016		12:54:00	Wren	1		Calling	JOS
12/12/2016		13:16:00	Wren	1		Calling	JOS
12/12/2016		13:26:00	Wren	1		Calling	JOS
12/12/2016		13:57:00	Wren	1		Calling	JOS
13/12/2016	3	10:25:00	Wren	1	1-5m	WS5, (Recently-felled woodland) Calling	JOS

**Table 26: Wetland & Waterbird Counts Non-Target Species Data**

Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-breeding	29/01/2018	Ross Lake	49		Curlew	9	Roosting	Above Water			PM
Non-breeding	06/03/2018	Ross Lake	49		Great Crested Grebe	1	Feeding	On Water			PM
Non-breeding	20/03/2018	Knockafrin Lough	55		Great Crested Grebe	1	Feeding	On Water			PM
Non-Breeding	04/11/2016	Bunnagippaun Lough	3	09:38:00	Grey Heron	1			112016	239572	JOS
Breeding	27&28/04/2016	Boliska Eighter	22		Grey Heron	1			110456	226780	PC
Non-Breeding	06/10/2016	Boliska Lough	23	09:57:00	Grey Heron	1		Perched on tree on island in lake	112365	226668	JOS
Non-Breeding	19/10/2016	Boliska Lough	23	11:53:00	Grey Heron	1	Roosting	Perched on lake shore	112365	226668	JOS
Breeding	16/05/2017	Boliska Lough	23		Grey Heron	1	Above water	Lake			JOS
Breeding	27&28/04/2016	Boliska Lough	23		Grey Heron	1			112365	226668	PC
Non-Breeding	16/11/2016	Lough Sliabh an Aonaigh	32	14:10:00	Grey Heron	1	Roosting	Perched on tree in lake	115687	230404	JOS
Non-breeding	20/03/2018	Lough Sliabh an Aonaigh	32		Grey Heron	1	Feeding	In Water			PM
Breeding	12/04/2016	Lough Thulaigh na nUan	37		Grey Heron	1	Foraging		113620	231670	PC
Non-Breeding	06/10/2016	Loch na nArd Doiriú	38	11:24:00	Grey Heron	1		Perched on rock in lake.	113010	231830	JOS
Non-Breeding	05/12/2016	Loch na nArd Doiriú	38	10:29:00	Grey Heron	1	Roosting	Perched on conifer tree on lake shore.	113010	231830	JOS
Breeding	27&28/04/2016	Loch Beag	39		Grey Heron	1			112683	232151	PC
Non-Breeding	09/02/2017	Ross Lake	49	10:31:00	Grey Heron	1		In flight over lake, band 1.	119430	236490	JOS

**Table 26: Wetland & Waterbird Counts Non-Target Species Data**

Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Breeding	19/04/2017	Ross Lake	49		Grey Heron	1		Calling from tree in woodland, at the south east shore of Ross lake.			JOS
Breeding	27&28/04/2016	Ross Lake	49		Grey Heron	2			119430	236490	PC
Non-breeding	12/01/2018	Lough Parkyflaherty	52		Grey Heron	1	Feeding	In Water			PM
Non-breeding	20/03/2018	Carrowndulla Lough	56		Grey Heron	1	Feeding	In Water			PM
Breeding	18/04/2017	Seecon Lough	71		Grey Heron	1		In flight over lake, band 1.			JOS
Breeding	03/05/2017	Seecon Lough	71		Grey Heron	1		Perched on rock in Lake			JOS
Non-breeding	09/02/2018	Lough Naneevin	53		Grey Heron	1	Feeding	In Water			PM
Non-breeding	21/03/2018	Unnamed Lough	19		Jack Snipe	1	Feeding	Terrestrial			PM
Non-breeding	21/02/2018	Loughanillaunmore	17		Lesser Black-backed Gull	1	Roosting	Above Water			PM
Non-breeding	15/01/2018	Boliska Lough	23		Lesser Black-backed Gull	3	Roosting	Above Water			PM
Non-breeding	07/03/2018	Knocka Lough	29		Lesser Black-backed Gull	2	Roosting	Above Water			PM
Breeding	03/04/2017	Lough Sliabh an Aonaigh	32		Lesser Black-backed Gull	1	Roosting	Perched on rock in Lake			JOS
Breeding	20/04/2016	Ross Lake	49		Lesser Black-backed Gull	3	Foraging	Suitable breeding habitat	119430	236490	PC
Breeding	05/08/2016	Ross Lake	49	17:15:00	Lesser Black-backed Gull	1	Roosting	Perched on rock.	119430	236490	JOS
Breeding	23/08/2016	Ross Lake	49	09:51:00	Lesser Black-backed Gull	1		Flew from rock to rock, E to W. Band 1.	119430	236490	JOS
Non-Breeding	17/01/2017	Ross Lake	49	12:34:00	Lesser Black-backed Gull	1	Roosting	Perched along lake shore.	119430	236490	JOS
Non-breeding	08/02/2018	Ross Lake	49		Lesser Black-backed Gull	1	Roosting	Terrestrial			PM

**Table 26: Wetland & Waterbird Counts Non-Target Species Data**

Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Non-breeding	22/02/2018	Ross Lake	49		Lesser Black-backed Gull	1	Roosting	Above Water			PM
Non-breeding	06/03/2018	Ross Lake	49		Lesser Black-backed Gull	2	Roosting	Above Water			PM
Non-breeding	20/03/2018	Ross Lake	49		Lesser Black-backed Gull	1	Roosting	Above Water			PM
Breeding	18/04/2017	Buffy Lough	57		Lesser Black-backed Gull	1	Roosting	Lake			JOS
Both	22/03/2017	Boliska Lough	23	13:44:00	Mallard	6	Feeding	feeding on lake			JOS
Non-breeding	21/03/2018	Boliska Lough	23		Mallard	1	Feeding	On Water			PM
Non-breeding	21/03/2018	Boliska Lough	23		Mallard	3	Roosting	Above Water			PM
Non-breeding	06/03/2018	Ross Lake	49		Mallard	2	Feeding	On Water			PM
Non-breeding	20/03/2018	Ross Lake	49		Mallard	11	Feeding	On Water			PM
Non-breeding	06/03/2018	Lough Parkyflaherty	52		Mallard	2	Feeding	On Water			PM
Non-breeding	20/03/2018	Lough Parkyflaherty	52		Mallard	3	Feeding	On Water			PM
Non-breeding	06/03/2018	Knockafrin Lough	55		Mallard	2	Feeding	On Water			PM
Non-breeding	20/03/2018	Knockafrin Lough	55		Mallard	3	Feeding	On Water			PM
Non-breeding	20/03/2018	Unnamed Lough (near vp4)	64		Mallard	2	Feeding	On Water			PM
Non-breeding	06/03/2018	Seecon Lough	71		Mallard	6	Feeding	On Water			PM
Non-breeding	20/03/2018	Seecon Lough	71		Mallard	5	Feeding	On Water			PM
Non-breeding	07/03/2018	Lochaín an Ghleanna Mhóir	26		Moorhen	1	Feeding	On Water			PM

**Table 26: Wetland & Waterbird Counts Non-Target Species Data**

Season	Date	Location	Location Code	Time	Species	No. of birds	Feeding/ Roosting	Habitat and Activity	GPS	GPS	Surveyor
Both	22/03/2017	Knocka Lough	29	14:22:00	Mute swan	2	Feeding	feeding on lake			JOS
Non-breeding	06/03/2018	Lough Thulaigh na nUan	37		Mute Swan	1	Feeding	On Water			PM
Non-breeding	20/03/2018	Lough Thulaigh na nUan	37		Mute Swan	3	Feeding	On Water			PM
Non-breeding	20/03/2018	Lough Aderreen	45		Mute Swan	1	Feeding	On Water			PM
Non-breeding	06/03/2018	Lough Tawneybeg	46		Mute Swan	2	Feeding	On Water			PM
Both	08/03/2017	Ross Lake	49	12:30:00	Mute swan	2	Feeding	feeding on lake			JOS
Non-breeding	06/03/2018	Ross Lake	49		Mute Swan	3	Feeding	On Water			PM
Non-breeding	20/03/2018	Ross Lake	49		Mute Swan	3	Feeding	On Water			PM
Non-breeding	30/01/2018	Unnamed Lough (Letterfir bog)	11		Snipe	1	Roosting	PB2, (Upland blanket bog)			PM
Non-breeding	21/02/2018	Unnamed Lough (Letterfir bog)	11		Snipe	1	Feeding	Terrestrial			PM
Non-breeding	30/01/2018	Unnamed Lough (Letterfir bog)	12		Snipe	2	Roosting	PB2, (Upland blanket bog)			PM
Both-Overlap	30/03/2016	Unnamed Lough (Letterfir bog)	13		Snipe	1			109500	227200	CP
Non-Breeding	05/01/2017	Lough Bealanambrack	14	12:48:00	Snipe	1		Snipe flushed from bog	109579	230482	JOS
Both-Overlap	29/03/2016	Lochaín an Ghleanna Mhóir	26		Snipe	1					CP
Breeding	21/04/2016	Knocka Lough	29		Snipe	2	Foraging	Suitable breeding habitat	116000	22800	PC
Both	07/03/2017	Boliska Lough	23	12:52:00	Teal	10	Roosting	roosting along shoreline			JOS
Both	08/03/2017	Boliska Lough	23	17:00:00	teal	1	Feeding	Feeding on lake			JOS
Non-breeding	06/03/2018	Seecon Lough	71		Teal	2	Feeding	On Water			PM



**Table 27: Incidental Records of Non-Target Species**

Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
21/02/2018	Vantage Point Survey	VP11	Common Frog		Breeding Common Frog in the pools and ditches along the pathway/route of Transect 7.	CP
19/02/2018	Vantage Point Survey	VP7	Common Frog		Breeding Common Frog in the pools and ditches along the pathway/route of Transect 5.	CP
15/02/2018	Vantage Point Survey	VP8	Common Frog		Breeding Common Frog in the pools and ditches along the pathway/route of Transect 7.	CP
03/01/2017	White Tailed Eagle Survey	WEVP5	Gadwall	22	On water	AOD
06/04/2017	WTE Survey	WEVP5	Gadwall	2	Lake on lake, feeding	JOS
03/08/2017	WTE Survey	WEVP2	Great Black-backed Gull	1	PB, (Bogs) Flies SW, band 1, 20s, then out of view.	JOS
20/06/2017	WTE Survey	WEVP4	Great Black-backed Gull	1		JOS
06/04/2017	WTE Survey	WEVP5	Great Black-backed Gull	1	Lake Perched on rock	JOS
17/11/2016	HH Roost Survey	53°19'12.1"N 9°16'52.8"W	Grey Heron	2	2 grey heron fly low over lake and bog, west. Land out of view behind brow of hill.	JOS
29/08/2016	WTE Survey	4	Grey Heron			SM
30/08/2016	WTE Survey	5	Grey Heron			SM
06/04/2017	WTE Survey	WEVP5	Grey Heron	1	Lake Perched on rock	JOS
03/01/2017	White Tailed Eagle Survey	WEVP5	Greylag Goose	2	On island ahead of vp	AOD
06/04/2017	WTE Survey	WEVP5	Greylag Goose	6	Lake Roosting in grassland	JOS
18/02/2018	Vantage Point Survey	VP5	Irish Hare	1	Irish Hare on track near to VP.	CP
23/02/2018	White Tailed Eagle Survey	WEVP2	Jack Snipe	1	PB, (Bogs) Flushed on way out	JC
06/07/2017	Breeding Raptor Survey	Raptor section 4	Lesser Black-backed Gull	1	WD4, (Conifer plantation) Band 2, flies SW over conifers.	JOS
04/05/2017	Breeding Raptor Survey	Section 4	Lesser Black-backed Gull	4	In flight, NW, band 2.	JOS
14/06/2017	WTE Survey	WEVP1	Lesser Black-backed Gull	1		JOS
21/02/2018	Vantage Point Survey	VP11	Little Grebe	2	On Lough Oughter.	CP
16/02/2018	Vantage Point Survey	VP4	Little Grebe	1	On the eastern of the two lakes near to VP.	CP

**Table 27: Incidental Records of Non-Target Species**

Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
03/08/2017	Breeding Eagle Survey	Section 3	Mallard			DMcG
04/05/2017	Breeding Raptor Survey	Section 4	Mallard	1	Lifts from pond, flies east.	JOS
23/03/2017	HH Roost Survey	HHVP1	Mallard	1	Flies north over vp.	JOS
13/04/2016	Vantage Point Survey	6	Mallard	5	Likely Ma, five circling around and come to land.	SD
24/03/2017	White Tailed Eagle Survey	WTE Survey (VP1)	Mallard	1	Calling, no visual.	JOS
23/03/2017	White Tailed Eagle Survey	WTE Survey (VP3)	Mallard	1	Flies north. Low over bog, out of view.	JOS
23/03/2017	White Tailed Eagle Survey	WTE Survey (VP3)	Mallard	1	Flies east over bog, drops out of view.	JOS
30/08/2016	WTE Survey	5	Mallard			SM
07/04/2017	WTE Survey	WEVP1	Mallard	1	Conifers In flight, band 2, SE. out of view into canopy.	JOS
15/06/2017	WTE Survey	WEVP2	Mallard	1		JOS
05/04/2017	WTE Survey	WEVP4	Mallard	1	bog Band 1, 3 seconds, flis south along course of stream, drops out of view.	JOS
06/04/2017	WTE Survey	WEVP5	Mallard	2	Lake on lake, feeding	JOS
06/04/2017	WTE Survey	WEVP5	Red-breasted Merganser	4	Lake on lake, feeding	JOS
06/04/2017	WTE Survey	WEVP5	Moorhen	1	Lake on lake, feeding	JOS
14/02/2018	White Tailed Eagle Survey	WEVP5	Mute Swan	2	FW, (Watercourses) On lake	JC
30/08/2016	WTE Survey	5	Mute Swan			SM
06/04/2017	WTE Survey	WEVP5	Mute swan	2	Lake on lake, feeding	JOS
06/04/2017	WTE Survey	WEVP5	Oystercatcher	1	Wet grassland Roosting in grassland	JOS
21/02/2018	Vantage Point Survey	VP11	Peacock butterfly		Early emerging Peacock butterfly at VP.	CP
29/08/2016	WTE Survey	4	Raven		PB2, (Upland blanket bog)	SM
03/01/2017	White Tailed Eagle Survey	WEVP5	Red-breasted Merganser	8	On water	AOD
06/04/2017	WTE Survey	WEVP5	Sand Martin	8	Lake Fly low over lake throughout survey.	JOS
11/07/2017	Breeding Raptor Survey	Raptor section 5	Snipe	1	PB, (Bogs) Snipe drumming over bog, band 3, 40s.	JOS

**Table 27: Incidental Records of Non-Target Species**

Date	Survey Type	Location	Species	No. of Individuals	Notes	Surveyor
23/11/2017	Hen Harrier Roost/WTE Survey	HHVP2	Snipe	1	Flies West, 6 seconds, calling band 1.	JOS
15/06/2017	WTE Survey	WEVP2	Snipe	1		JOS
13/01/2018	Hen Harrier Roost/WTE Survey	HHVP4	Teal	9	Boliska Lough	CP
20/02/2018	HH Roost Survey	HHVP4	Teal	2	On lake	JC
13/02/2018	Vantage Point Survey	VP1A	Teal	1	Male at lake near to VP.	CP
13/02/2018	White Tailed Eagle Survey	WEVP3	Teal	43	FW, (Watercourses) On lake	JC
30/08/2016	WTE Survey	5	Teal			SM