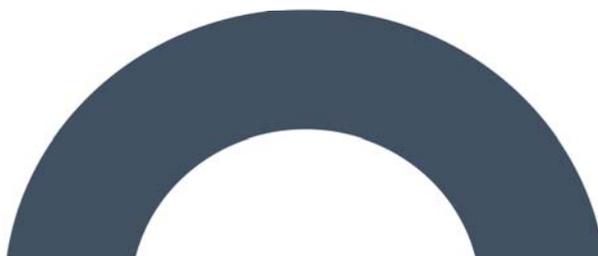


Appendix 7-3 – Summary Tables

Cleanrath Wind Farm, Co. Cork





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1. **APPENDIX 7-3 (SUMMARY TABLES)**

Table 1 Vantage Point Survey Effort Summary Table

Survey Season	Months	Minimum Effort per VP
2015 Breeding Season (3 VPs)	Feb-Aug	40 hours/VP
2015/2016 Non-Breeding Season (3 VPs)	Sep-Feb	36 hours/VP
2016 Breeding Season (3 VPs)	Mar-Aug	45 hours/VP
2016/2017 Non-Breeding Season (3 VPs)	Sep-Feb	36 hours/VP



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals	
Peregrine	2015	records								1				1	2	
		bird-secs								40				50	90	
	2016	records											2		2	
		bird-secs											90		90	
	2017	records														0
		bird-secs														0
Wigeon	2015	records													0	
		bird-secs													0	
	2016	records													0	
		bird-secs													0	
	2017	records														0
		bird-secs														0
Woodcock	2015	records													0	
		bird-secs													0	
	2016	records											1	1	2	
		bird-secs												5	5	
	2017	records														0
		bird-secs														0
Kestrel	2015	records				1	2	6	7	4	12	3		3	38	
		bird-secs				N/A	N/A	N/A	N/A	N/A	1125	35		255	1415	
	2016	records	1			2	2	6	3	7	4	2		3	30	
		bird-secs	20			745	100	585	150	730	340	210		60	2940	
	2017	records	1	3												4
		bird-secs	40	190												230
Sparrowhawk	2015	records				1	1	2	1			1			6	
		bird-secs				N/A	N/A	N/A	N/A			N/A			0	
	2016	records													0	
		bird-secs													0	
	2017	records														0
		bird-secs														0



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals	
Buzzard	2015	records													0	
		bird-secs														0
	2016	records				1									1	
		bird-secs				1380										1380
	2017	records														0
		bird-secs														0
Snipe	2015	records				3								3	6	
		bird-secs				45								45	91	
	2016	records		2	1			2	1			1	1	1	9	
		bird-secs		30	5			15	480			10	5	5	550	
	2017	records	1													1
		bird-secs	10													10

Based on analysis of all flight activity data within focus area and observations of flights below PCH. Survey period - March 2018 - March 2020 (Shaded Cells were months not surveyed).
Records = No. of Observations. Bird-secs = Total Duration of Flight(s).

Table 3 All observations within focus area at PCH for target species during vantage point watches

Species	Values	VP1	VP2	VP3	Totals
Whooper Swan	Observations (All Bands)				0
	Duration in PCH (Band 3, in Seconds)				0
Golden Plover	Observations (All Bands)	11	19	1	31
	Duration in PCH (Band 3, in Seconds)	5035	26180	1400	32615
Hen Harrier	Observations (All Bands)	7	6	1	14
	Duration in PCH (Band 3, in Seconds)	433	90	25	548
Chough	Observations (All Bands)				0
	Duration in PCH (Band 3, in Seconds)				0
Merlin	Observations (All Bands)				0
	Duration in PCH (Band 3, in Seconds)				0
Peregrine	Observations (All Bands)	2		2	4
	Duration in PCH (Band 3, in Seconds)	90		90	180
Wigeon	Observations (All Bands)				0
	Duration in PCH (Band 3, in Seconds)				0
Woodcock	Observations (All Bands)		2		2
	Duration in PCH (Band 3, in Seconds)		5		5
Kestrel	Observations (All Bands)	28	15	29	72
	Duration in PCH (Band 3, in Seconds)	2540	515	1665	4720
Sparrowhawk	Observations (All Bands)		1	5	6
	Duration in PCH (Band 3, in Seconds)		0	5	5
Buzzard	Observations (All Bands)		1		1
	Duration in PCH (Band 3, in Seconds)		380		380
Common Snipe	Observations (All Bands)	7	5	4	16
	Duration in PCH (Band 3, in Seconds)	97	79	505	681

Based on analysis of all flight data at PCH for each target species recorded between February 2015 - February 2017. Any non-flight observations were excluded from data analysis. PCH = (no. of birds x total duration in PCH).



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Raven	2015	Present = X		X	X	X	X	X	X	X	X	X	X	X
	2016	Present = X	X	X	X	X	X	X	X	X	X	X	X	X
	2017	Present = X	X	X										
Redwing	2015	Present = X											X	
	2016	Present = X												
	2017	Present = X												
Reed Bunting	2015	Present = X			X									
	2016	Present = X												
	2017	Present = X												
Robin	2015	Present = X		X	X									
	2016	Present = X												
	2017	Present = X												
Rook	2015	Present = X										X		
	2016	Present = X												
	2017	Present = X												
Skylark	2015	Present = X		X	X									
	2016	Present = X												
	2017	Present = X												
Stonechat	2015	Present = X		X										
	2016	Present = X												
	2017	Present = X												
Wood Pigeon	2015	Present = X				X						X		
	2016	Present = X												
	2017	Present = X												
Wren	2015	Present = X		X	X									
	2016	Present = X												
	2017	Present = X												

Based on analysis of all flight activity data within focus area, including data from VPs 1, 2 & 3. Survey period – February 2015 to February 2017 (Shaded Cells were months not surveyed).



Table 5 Monthly distribution of observations of target Species during Breeding Walkover Surveys

Species	Year	Standardised	Mar	Apr	May	Jun	Jul	Aug	Sept	Totals
Golden Plover	2015	No. of observations								0
		No. of individuals								0
	2016	No. of observations			1					1
		No. of individuals			21					21
Hen Harrier	2015	No. of observations		1						1
		No. of individuals		2						2
	2016	No. of observations								0
		No. of individuals								0
Chough	2015	No. of observations							5	5
		No. of individuals							9	9
	2016	No. of observations					1			1
		No. of individuals					7			7
Wigeon	2015	No. of observations		2						2
		No. of individuals		2						2
	2016	No. of observations								0
		No. of individuals								0
Kestrel	2015	No. of observations		1		4	3		6	14
		No. of individuals		1		4	3		6	14
	2016	No. of observations		1	4	5	11	3		24
		No. of individuals		1	4	6	13	3		27
Sparrowhawk	2015	No. of observations				2	1	1	2	6
		No. of individuals				2	1	1	2	6
	2016	No. of observations		1	2		2			5
		No. of individuals		1	2		4			7
Common Snipe	2015	No. of observations		3		2	3	2		10
		No. of individuals		6		3	3	4		16
	2016	No. of observations		3	4	2	2	2		13
		No. of individuals		4	5	2	2	2		15



Table 6 Monthly distribution of observations of non-target Species during Breeding Walkover Surveys

Species	Year	Standardised	March	Apr	May	June	July	August	Sept
Cuckoo	2015	Present = X		X		X			
	2016	Present = X			X				
Hooded Crow	2015	Present = X		X		X	X	X	
	2016	Present = X		X	X				
Jay	2015	Present = X		X					X
	2016	Present = X		X	X	X	X		
Jackdaw	2015	Present = X				X			
	2016	Present = X							
Magpie	2015	Present = X		X			X		
	2016	Present = X							
Pheasant	2015	Present = X		X		X	X	X	X
	2016	Present = X		X	X	X	X	X	
Raven	2015	Present = X		X		X	X	X	X
	2016	Present = X		X	X	X	X	X	
Rook	2015	Present = X		X		X			
	2016	Present = X							
Wood Pigeon	2015	Present = X		X		X	X	X	
	2016	Present = X		X					

Table 7 Monthly distribution of observations for target species during Breeding Raptor Surveys.

Species	Year	Standardised	Apr	May	Jun	Jul	Totals
Merlin	2015	No. of observations				2	2
		No. of individuals				2	2
	2016	No. of observations					
		No. of individuals					
Peregrine	2015	No. of observations					
		No. of individuals					
	2016	No. of observations		1			
		No. of individuals		1			
Kestrel	2015	No. of observations					
		No. of individuals		3	4	3	10
	2016	No. of observations		3	4	3	10
		No. of individuals					
Sparrowhawk	2015	No. of observations		2			2
		No. of individuals		2			2
	2016	No. of observations			2	2	4
		No. of individuals			2	2	4
Surveys were conducted during the breeding season (April-July) of 2015 and 2016 over areas of suitable habitat within 2km of the site boundary.							



Table 8 Monthly distribution of observations of target Species during Winter Walkover Surveys

Species	Year	Standardised	Jan	Feb	March	Nov	Dec	Totals
Golden Plover	2016	No. of observations					2	2
		No. of individuals					4	4
	2017	No. of observations	1	1				2
		No. of individuals	12	6				18
Woodcock	2016	No. of observations						0
		No. of individuals						0
	2017	No. of observations		1				1
		No. of individuals		1				1
Kestrel	2016	No. of observations				2		2
		No. of individuals				2		2
	2017	No. of observations	2	2				4
		No. of individuals	2	2				4
Sparrowhawk	2016	No. of observations			1		1	2
		No. of individuals			1		1	2
	2017	No. of observations	1	2				3
		No. of individuals	1	2				3
Common Snipe	2016	No. of observations				1	9	10
		No. of individuals				1	12	13
	2017	No. of observations	6	8				14
		No. of individuals	9	13				22



Table 9 Monthly distribution of observations for all species during Wildfowl Distribution Surveys

Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Whooper Swan	2015	No. of observations	3										4	7	
		No. of individuals	7										10	17	
	2016	No. of observations		1										1	2
		No. of individuals		7										8	15
	2017	No. of observations	2	2											4
		No. of individuals	24	26											50
Wigeon	2015	No. of observations											5	5	
		No. of individuals											22	22	
	2016	No. of observations							1	2	1	1		5	
		No. of individuals							2	14	6	3		25	
	2017	No. of observations		1											1
		No. of individuals		4											4
Teal	2015	No. of observations	1											4	5
		No. of individuals	7											18	25
	2016	No. of observations		4	3				1	1	1	2	2	14	
		No. of individuals		20	10				6	3	3	6	7	55	
	2017	No. of observations	4	3											7
		No. of individuals	11	9											20
Mallard	2015	No. of observations	2										11	10	23
		No. of individuals	5										22	31	58
	2016	No. of observations	6	9	3				5	6	4	4	5	42	
		No. of individuals	15	23	7				12	15	10	8	15	105	
	2017	No. of observations	3	6											9
		No. of individuals	8	13											21
Common Snipe	2015	No. of observations											1	1	
		No. of individuals											1	1	
	2016	No. of observations												0	
		No. of individuals												0	
	2017	No. of observations													0
		No. of individuals													0



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals	
Cormorant	2015	No. of observations														0
		No. of individuals														0
	2016	No. of observations										5	6	3	14	
		No. of individuals										8	9	4	21	
	2017	No. of observations	3	5												8
		No. of individuals	5	7												12
Common Gull	2015	No. of observations	2											4	3	9
		No. of individuals	5											10	4	19
	2016	No. of observations	6	6	11										23	
		No. of individuals	6	10	17										33	
	2017	No. of observations														0
		No. of individuals														0
Great Black Backed-Gull	2015	No. of observations	1													1
		No. of individuals	1													1
	2016	No. of observations			1										1	
		No. of individuals			1										1	
	2017	No. of observations														0
		No. of individuals														0
Greylag Goose	2015	No. of observations														0
		No. of individuals														0
	2016	No. of observations			2										2	
		No. of individuals			4										4	
	2017	No. of observations														0
		No. of individuals														0
Grey Heron	2015	No. of observations	1											2	2	5
		No. of individuals	1											2	2	5
	2016	No. of observations	1	3						2	2	2	2	2	1	13
		No. of individuals	1	3						2	2	2	2	2	1	13
	2017	No. of observations	3	3												6
		No. of individuals	3	3												6



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Lesser Black-backed Gull	2015	No. of observations											1	2	3
		No. of individuals											1	2	3
	2016	No. of observations	1		4										5
		No. of individuals	1		4										5
	2017	No. of observations													0
		No. of individuals													0
Mute Swan	2015	No. of observations	1										3		4
		No. of individuals	2										6		8
	2016	No. of observations			3				2	2	2	2	1	12	
		No. of individuals			6				4	4	4	4	2	24	
	2017	No. of observations	2	1	1										4
		No. of individuals	4	2	2										8