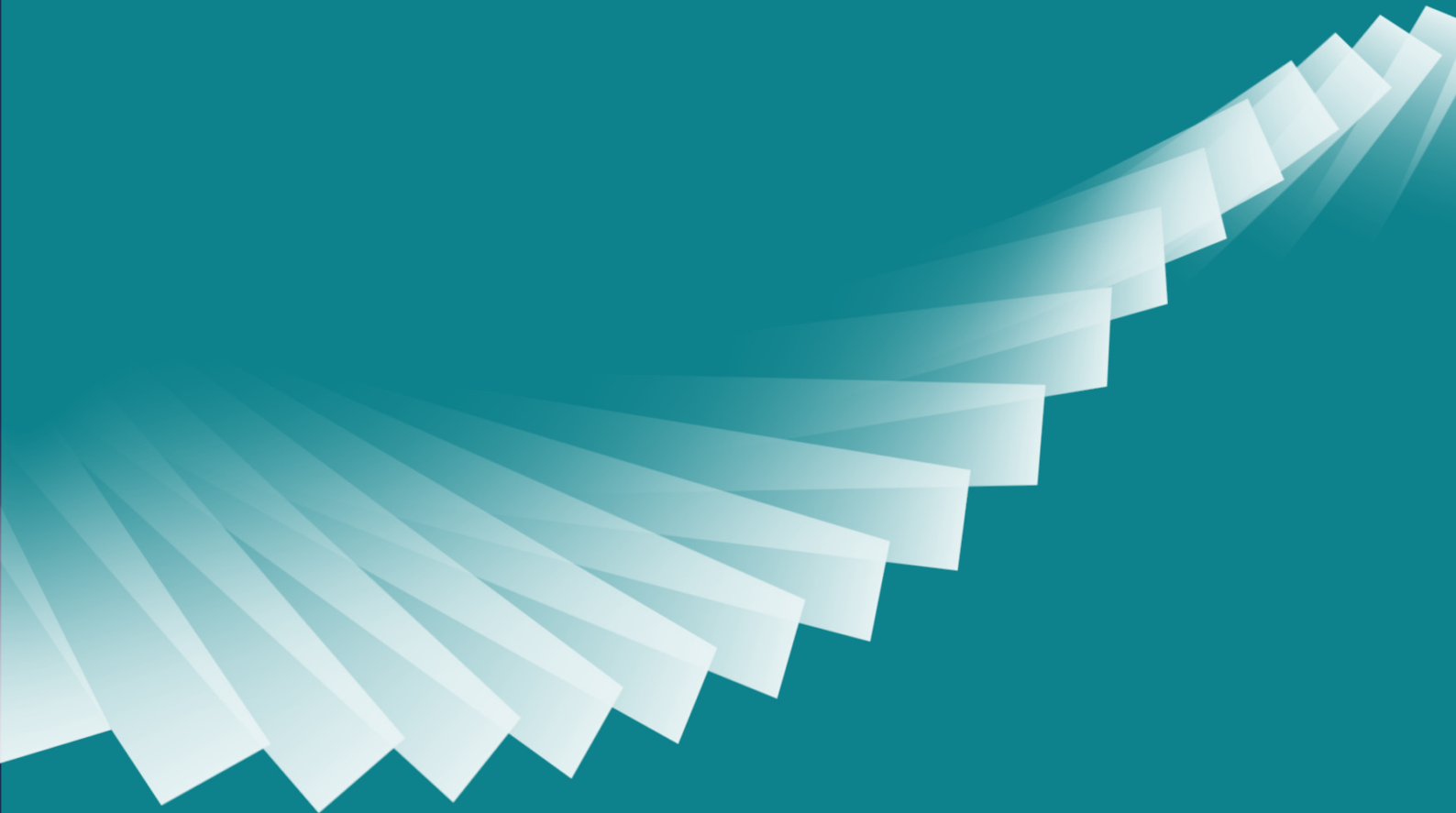




Bute Energy
Aberedw Energy Park

Appendix 8.2:

Collision Risk Modelling Report



Aberedw Energy Park

Appendix 8.2
Collision Risk Modelling Report

Bristol
Cardiff
Edinburgh
Glasgow
London
Manchester
Sheffield

landuse.co.uk

Land Use Consultants Ltd
Registered in England
Registered number 2549296
Registered office:
250 Waterloo Road
London SE1 8RD

100% recycled paper

Landscape Design
Strategic Planning & Assessment
Development Planning
Urban Design & Masterplanning
Environmental Impact Assessment
Landscape Planning & Assessment
Landscape Management
Ecology
Historic Environment
GIS & Visualisation
Transport & Movement Planning
Arboriculture



Contents

Bird parameters	1
VP watch data	2
Red kite	6
Golden plover	7
Peregrine	9
Goshawk	10

Introduction

1.1 This report details the results of collision risk modelling (CRM) for red kite, golden plover, peregrine and goshawk, using data on bird flight activity recorded during vantage point (VP) watches at the Site of the Proposed Development between October 2019 and August 2021.

Method

1.2 Bird collision risk with turbines at the Proposed Development was estimated using the Band Collision Risk Model (the 'Band CRM') (Band et al., 2007). The Band CRM requires information on site-specific bird flight activity, bird biometrics, bird flight behaviour and wind farm and turbine characteristics. NatureScot CRM guidance was followed in relation to data collection and analysis.

1.3 Four species had flight activity levels that were considered sufficient to justify a modelling exercise to obtain collision estimates: red kite, golden plover, peregrine and goshawk. All species except for golden plover were considered to be resident at the Site, i.e. they occupied the Site and surrounding habitats year-round. Golden plover were considered to be present in the non-breeding season only. Therefore, the golden plover CRM considered only non-breeding season flight activity and VP watch effort.

1.4 The generation of collision estimates using the Band CRM is a multi-stage process, which follows the following steps:

1. estimating the number of bird flights through the rotor swept path of the operational turbines;
2. estimating the probability of collision for a bird flying through the rotor swept path of an operational turbine; and
3. applying an avoidance rate to account for behavioural reactions of birds to operational turbines.

1.5 The outputs of the models provide an estimate of the number of annual collisions arising from turbine operation.

Bird parameters and VP watch data

Bird parameters

1.6 Bird parameters for red kite, golden plover, peregrine and goshawk are shown in **Table 1.1**.

Table 1.1 Bird parameters for CRM

Bird parameters	Red kite	Golden plover	Peregrine	Goshawk
Length (m)	0.630	0.275	0.420	0.550
Wingspan (m)	1.850	0.715	1.025	1.500
Aspect ratio (β)	0.34	0.38	0.41	0.37
Flapping (0) or gliding (1)	0	0	0	0
Flight speed (m/s)	12.0	17.9	12.1	9.9
Number of hours birds present per year	4467	2126 ¹	4467	4467

¹ Non-breeding season only

Bird parameters	Red kite	Golden plover	Peregrine	Goshawk
Avoidance rate (%)	99	98	98	98

VP watch data

Red kite

1.7 Vantage point (VP) watch data and recorded flight information for red kite during the watches in year one of the assessment period are shown in **Table 1.2**, and are shown in **Table 1.3** for year two.

Table 1.2 Red kite watch data and flight time – year one

VP	Watch data		Flight time		Flight rate	
	Viewshed area within turbine envelope (ha)	Time watched (hrs)	Total (s)	In turbine envelope at risk height (s)	Proportion of activity at risk height	Risk-height activity per area watched (ha ⁻¹)
1	306.32	72.00	9071.00	4513.02	0.017411349	5.68402E-05
2	445.92	72.00	8375.00	4290.41	0.016552489	3.71199E-05
3	309.73	72.00	7469.00	1770.94	0.006832333	2.20594E-05
4	81.89	72.00	3808.00	1014.06	0.003912281	4.77754E-05
5	203.68	72.00	8485.00	3198.53	0.012340011	6.05865E-05

Table 1.3 Red kite watch data and flight time – year two

VP	Watch data		Flight time		Flight rate	
	Viewshed area within turbine envelope (ha)	Time watched (hrs)	Total (s)	In turbine envelope at risk height (s)	Proportion of activity at risk height	Risk-height activity per area watched (ha ⁻¹)
1	306.32	72.00	11707.00	2778.14	0.010718137	3.49899E-05
2	445.92	72.00	14697.00	4535.06	0.017496368	3.92366E-05
3	309.73	72.00	57117.00	18149.39	0.070020808	0.000226074
4	81.89	72.00	9710.00	1380.76	0.005327	6.50515E-05
5	203.68	72.00	26792.00	7246.25	0.027956213	0.000137258

Golden plover

1.8 VP watch data and recorded flight information for golden plover during the non-breeding season watches in year one of the assessment period are shown in **Table 1.4**, and are shown in **Table 1.5** for year two.

Table 1.4 Golden plover watch data and flight time - year one non-breeding season

VP	Watch data	Flight time	Flight rate
----	------------	-------------	-------------

	Viewshed area within turbine envelope (ha)	Time watched (hrs)	Total (s)	In turbine envelope at risk height (s)	Proportion of activity at risk height	Risk-height activity per area watched (ha-1)
1	306.32	36.00	4763.00	802.90	0.006195212	2.02246E-05
2	445.92	36.00	18061.00	3012.31	0.023243152	5.2124E-05
3	309.73	36.00	31800.00	11568.19	0.089260742	0.000288194
4	81.89	36.00	193135.00	101618.95	0.784096809	0.009575118
5	203.68	36.00	160768.00	85544.57	0.660066089	0.003240765

Table 1.5 Golden plover watch data and flight time - year two non-breeding season

VP	Watch data		Flight time		Flight rate	
	Viewshed area within turbine envelope (ha)	Time watched (hrs)	Total (s)	In turbine envelope at risk height (s)	Proportion of activity at risk height	Risk-height activity per area watched (ha ⁻¹)
1	306.32	36.00	0.00	0.00	0	0
2	445.92	36.00	45810.00	11774.96	0.090856174	0.00020375
3	309.73	36.00	144510.00	118737.71	0.916186061	0.002958063
4	81.89	36.00	16800.00	15647.84	0.120739494	0.001474429
5	203.68	36.00	12870.00	8840.50	0.068213719	0.000334913

Peregrine

1.9 VP watch data and recorded flight information for peregrine during the watches in year one of the assessment period are shown in **Table 1.6**, and are shown in **Table 1.7** for year two.

Table 1.6 Peregrine watch data and flight time – year one

VP	Watch data		Flight time		Flight rate	
	Viewshed area within turbine envelope (ha)	Time watched (hrs)	Total (s)	In turbine envelope at risk height (s)	Proportion of activity at risk height	Risk-height activity per area watched (ha ⁻¹)
1	306.32	72.00	0.00	0.00	0	0
2	445.92	72.00	41.00	0.00	0	0
3	309.73	72.00	69.00	16.50	6.36458E-05	2.05491E-07
4	81.89	72.00	0.00	0.00	0	0
5	203.68	72.00	0.00	0.00	0	0

Table 1.7 Peregrine watch data and flight time – year two

VP	Watch data		Flight time		Flight rate	
	Viewshed area within turbine envelope (ha)	Time watched (hrs)	Total (s)	In turbine envelope at risk height (s)	Proportion of activity at risk height	Risk-height activity per area watched (ha ⁻¹)
1	306.321	72	5	0	0	0
2	445.92	72	0	0	0	0
3	309.725	72	116	30.81251396	0.000118875	3.8381E-07
4	81.889	72	0	0	0	0
5	203.676	72	100	32.9952052	0.000127296	6.24994E-07

Goshawk

1.10 VP watch data and recorded flight information for goshawk during the watches in year one of the assessment period are shown in **Table 1.8**, and are shown in **Table 1.9** for year two.

Table 1.8 Goshawk watch data and flight time – year one

VP	Watch data		Flight time		Flight rate	
	Viewshed area within turbine envelope (ha)	Time watched (hrs)	Total (s)	In turbine envelope at risk height (s)	Proportion of activity at risk height	Risk-height activity per area watched (ha ⁻¹)
1	306.32	72.00	0.00	0.00	0	0
2	445.92	72.00	0.00	0.00	0	0
3	309.73	72.00	27.00	8.87	3.42091E-05	1.1045E-07
4	81.89	72.00	0.00	0.00	0	0
5	203.68	72.00	0.00	0.00	0	0

Table 1.9 Goshawk watch data and flight time – year two

VP	Watch data		Flight time		Flight rate	
	Viewshed area within turbine envelope (ha)	Time watched (hrs)	Total (s)	In turbine envelope at risk height (s)	Proportion of activity at risk height	Risk-height activity per area watched (ha ⁻¹)
1	306.321	72	0	0	0	0
2	445.92	72	0	0	0	0
3	309.725	72	995	576.4273794	0.002223871	7.18015E-06
4	81.889	72	0	0	0	0
5	203.676	72	285	9.629636523	3.71514E-05	1.82404E-07

Turbine and wind farm parameters

1.11 The proposed wind turbines will have a maximum tip height of 200m. The final turbine selection will depend on the technology available at the time of construction, however for the purposes of this CDM, a maximum-effect turbine model has been used. This CRM has used dimensions and characteristics for the Siemens Gamesa 155 6.6 MW and the proposed turbine layout. These CRM inputs are shown in **Table 1.7**.

Table 1.10 Turbine and wind farm parameters

Wind farm parameters		Turbine parameters					
Number of turbines	Turbine operation time (%)	Rotor diameter (m)	Hub height (m)	Maximum rotor depth (m)	Maximum chord (m)	Pitch (degrees)	Rotation period (s)
18	85	163	118.5	2.9	4.5	15	6

Collision risk modelling results

Red kite

1.12 Collision probability for red kite flying through the rotor swept path of the proposed candidate turbine is shown in **Table 1.8**. The collision estimates for years one and two are shown in **Table 1.9**.

Table 1.11 Red kite CRM - calculation of collision probability for bird passing through rotor-swept area

Calculation of alpha and p(collision) as a function of radius								
r/R radius	c/C chord	α alpha	Upwind			Downwind		
			Collide length	P(collision)	Contribution from radius r	Collide length	P(collision)	Contribution from radius r
0.025	0.575	5.62	25.13	1.00	0.00125	23.79	0.99	0.00124
0.075	0.575	1.87	8.82	0.37	0.00276	7.48	0.31	0.00234
0.125	0.702	1.12	6.33	0.26	0.00330	4.69	0.20	0.00244
0.175	0.860	0.80	5.49	0.23	0.00400	3.49	0.15	0.00254
0.225	0.994	0.62	5.02	0.21	0.00470	2.70	0.11	0.00253
0.275	0.947	0.51	4.15	0.17	0.00476	1.95	0.08	0.00223
0.325	0.899	0.43	3.54	0.15	0.00479	1.44	0.06	0.00196
0.375	0.851	0.37	3.07	0.13	0.00480	1.09	0.05	0.00170
0.425	0.804	0.33	2.72	0.11	0.00482	0.85	0.04	0.00150
0.475	0.756	0.30	2.48	0.10	0.00491	0.72	0.03	0.00143
0.525	0.708	0.27	2.28	0.09	0.00499	0.63	0.03	0.00138
0.575	0.660	0.24	2.10	0.09	0.00503	0.70	0.03	0.00167
0.625	0.613	0.22	1.94	0.08	0.00506	0.74	0.03	0.00194
0.675	0.565	0.21	1.80	0.07	0.00506	0.78	0.03	0.00218
0.725	0.517	0.19	1.67	0.07	0.00504	0.80	0.03	0.00241
0.775	0.470	0.18	1.55	0.06	0.00500	0.81	0.03	0.00260
0.825	0.422	0.17	1.43	0.06	0.00493	0.81	0.03	0.00278
0.875	0.374	0.16	1.33	0.06	0.00484	0.80	0.03	0.00293
0.925	0.327	0.15	1.23	0.05	0.00473	0.79	0.03	0.00306
0.975	0.279	0.14	1.13	0.05	0.00459	0.78	0.03	0.00317
Overall p(collision):			Upwind 8.9%			Downwind 4.4%		
			Average 6.7%					

Table 1.12 Red kite collision risk estimate

Parameter	Year one	Year two	Unit
Wind farm area	9,218,960		m ²
Rotor diameter	163		m
Flight risk volume (Vw)	1,502,690,480		m ³
Rotor swept volume (Vr)	1,325,905		m ³
Bird occupancy	0.16	0.37	hours per year
Bird occupancy of rotor swept volume	590.71	1323.18	bird-seconds
Bird transit time	0.29		seconds
Number of transits through rotors	2008.08	4498.06	per year
Estimated number of collisions	133.94	300.02	per year
Collisions allowing for 99% avoidance	1.34	3.00	per year
Collisions allowing for 99% avoidance + 15% operational downtime	1.14	2.55	per year
One bird killed every	0.88	0.39	years

Golden plover

1.13 Collision probability for a golden plover flying through the rotor swept path of the proposed candidate turbine is shown in **Table 1.10**. The collision estimates for years one and two non-breeding seasons are shown in **Table 1.11**.

Table 1.13 Golden plover CRM - calculation of collision probability for bird passing through rotor-swept area

Calculation of alpha and p(collision) as a function of radius								
r/R radius	c/C chord	α alpha	Upwind			Downwind		
			Collide length	P(collision)	Contribution from radius r	Collide length	P(collision)	Contribution from radius r
0.025	0.575	7.55	24.94	0.77	0.00097	23.60	0.73	0.00092
0.075	0.575	2.52	8.76	0.27	0.00204	7.42	0.23	0.00173
0.125	0.702	1.51	6.50	0.20	0.00252	4.87	0.15	0.00189
0.175	0.860	1.08	5.81	0.18	0.00315	3.80	0.12	0.00207
0.225	0.994	0.84	5.38	0.17	0.00376	3.07	0.10	0.00214
0.275	0.947	0.69	4.42	0.14	0.00377	2.21	0.07	0.00189
0.325	0.899	0.58	3.73	0.12	0.00376	1.64	0.05	0.00165
0.375	0.851	0.50	3.21	0.10	0.00374	1.23	0.04	0.00143
0.425	0.804	0.44	2.80	0.09	0.00370	0.93	0.03	0.00123

Calculation of alpha and p(collision) as a function of radius								
r/R radius	c/C chord	α alpha	Upwind			Downwind		
			Collide length	P(collision)	Contribution from radius r	Collide length	P(collision)	Contribution from radius r
0.475	0.756	0.40	2.47	0.08	0.00364	0.71	0.02	0.00105
0.525	0.708	0.36	2.21	0.07	0.00360	0.56	0.02	0.00091
0.575	0.660	0.33	1.99	0.06	0.00355	0.45	0.01	0.00080
0.625	0.613	0.30	1.79	0.06	0.00348	0.37	0.01	0.00071
0.675	0.565	0.28	1.62	0.05	0.00339	0.30	0.01	0.00064
0.725	0.517	0.26	1.46	0.05	0.00329	0.29	0.01	0.00066
0.775	0.470	0.24	1.32	0.04	0.00317	0.32	0.01	0.00078
0.825	0.422	0.23	1.19	0.04	0.00304	0.35	0.01	0.00089
0.875	0.374	0.22	1.06	0.03	0.00288	0.36	0.01	0.00098
0.925	0.327	0.20	0.94	0.03	0.00271	0.37	0.01	0.00105
0.975	0.279	0.19	0.83	0.03	0.00253	0.37	0.01	0.00110
Overall p(collision):			Upwind 6.3%			Downwind 2.4%		
			Average 4.4%					

Table 1.14 Golden plover collision risk estimate

Parameter	Year one		Year two	Unit
Wind farm area	9,218,960			m ²
Rotor diameter	163			m
Flight risk volume (Vw)	1,502,690,480			m ³
Rotor swept volume (Vr)	1,192,563			m ³
Bird occupancy	4.10		1.55	hours per year
Bird occupancy of rotor swept volume	14756.63		5567.33	bird-seconds
Bird transit time	0.18			seconds
Number of transits through rotors	83194.84		31387.45	per year
Estimated number of collisions	3627.02		1368.39	per year
Collisions allowing for 98% avoidance	72.54		27.37	per year
Collisions allowing for 98% avoidance and 15% downtime	61.66		23.26	per year
One bird killed every	0.02		0.04	years

Peregrine

1.14 Collision probability for a peregrine flying through the rotor swept path of the proposed candidate turbine is shown in **Table 1.12**. The collision estimates for year two are shown in **Table 1.13**.

Table 1.15 Peregrine CRM - calculation of collision probability for bird passing through rotor-swept area

Calculation of alpha and p(collision) as a function of radius								
r/R radius	c/C chord	α alpha	Upwind			Downwind		
			Collide length	P(collision)	Contribution from radius r	Collide length	P(collision)	Contribution from radius r
0.025	0.575	5.67	20.66	0.85	0.00107	19.32	0.80	0.00100
0.075	0.575	1.89	7.33	0.30	0.00227	5.99	0.25	0.00186
0.125	0.702	1.13	5.44	0.22	0.00281	3.80	0.16	0.00196
0.175	0.860	0.81	4.86	0.20	0.00352	2.86	0.12	0.00207
0.225	0.994	0.63	4.53	0.19	0.00421	2.21	0.09	0.00206
0.275	0.947	0.52	3.75	0.16	0.00426	1.55	0.06	0.00176
0.325	0.899	0.44	3.20	0.13	0.00430	1.10	0.05	0.00148
0.375	0.851	0.38	2.81	0.12	0.00435	0.83	0.03	0.00128
0.425	0.804	0.33	2.52	0.10	0.00443	0.65	0.03	0.00114
0.475	0.756	0.30	2.28	0.09	0.00448	0.52	0.02	0.00102
0.525	0.708	0.27	2.08	0.09	0.00450	0.43	0.02	0.00093
0.575	0.660	0.25	1.90	0.08	0.00451	0.48	0.02	0.00114
0.625	0.613	0.23	1.74	0.07	0.00449	0.53	0.02	0.00137
0.675	0.565	0.21	1.59	0.07	0.00445	0.56	0.02	0.00157
0.725	0.517	0.20	1.46	0.06	0.00438	0.58	0.02	0.00175
0.775	0.470	0.18	1.34	0.06	0.00429	0.59	0.02	0.00190
0.825	0.422	0.17	1.23	0.05	0.00418	0.60	0.02	0.00203
0.875	0.374	0.16	1.12	0.05	0.00405	0.59	0.02	0.00214
0.925	0.327	0.15	1.02	0.04	0.00389	0.58	0.02	0.00223
0.975	0.279	0.15	0.92	0.04	0.00371	0.57	0.02	0.00229
Overall p(collision):			Upwind 7.8%			Downwind 3.3%		
			Average 5.6%					

Table 1.16 Peregrine collision risk estimate

Parameter	Year one	Year two	Unit
Wind farm area	9,218,960		m ²
Rotor diameter	163		m
Flight risk volume (Vw)	1,502,690,480		m ³
Rotor swept volume (Vr)	1,247,026		m ³
Bird occupancy	0.0001	0.0007	hours per year
Bird occupancy of rotor swept volume	0.51	2.50	bird-seconds
Bird transit time	0.27		seconds
Number of transits through rotors	1.86	9.10	per year
Estimated number of collisions	0.10	0.51	per year
Collisions allowing for 99% avoidance	0.002	0.010	per year
Collisions allowing for 99% avoidance + 15% operational downtime	0.002	0.009	per year
One bird killed every	570.65	116.31	years

Goshawk

1.15 Collision probability for a goshawk flying through the rotor swept path of the proposed candidate turbine is shown in **Table 1.14**. The collision estimates for year two are shown in **Table 1.15**.

Table 1.17 Goshawk CRM - calculation of collision probability for bird passing through rotor-swept area

Calculation of alpha and p(collision) as a function of radius								
r/R radius	c/C chord	α alpha	Upwind			Downwind		
			Collide length	P(collision)	Contribution from radius r	Collide length	P(collision)	Contribution from radius r
0.025	0.575	4.64	19.23	0.97	0.00121	17.89	0.90	0.00113
0.075	0.575	1.55	6.86	0.35	0.00260	5.52	0.28	0.00209
0.125	0.702	0.93	5.04	0.25	0.00318	3.40	0.17	0.00215
0.175	0.860	0.66	4.47	0.23	0.00395	2.47	0.12	0.00218
0.225	0.994	0.52	4.16	0.21	0.00473	1.84	0.09	0.00209
0.275	0.947	0.42	3.47	0.18	0.00482	1.27	0.06	0.00176
0.325	0.899	0.36	2.99	0.15	0.00491	0.90	0.05	0.00147
0.375	0.851	0.31	2.69	0.14	0.00509	0.70	0.04	0.00133
0.425	0.804	0.27	2.44	0.12	0.00524	0.57	0.03	0.00122

Calculation of alpha and p(collision) as a function of radius								
r/R radius	c/C chord	α alpha	Upwind			Downwind		
			Collide length	P(collision)	Contribution from radius r	Collide length	P(collision)	Contribution from radius r
0.475	0.756	0.24	2.23	0.11	0.00536	0.63	0.03	0.00151
0.525	0.708	0.22	2.05	0.10	0.00545	0.69	0.04	0.00184
0.575	0.660	0.20	1.90	0.10	0.00551	0.74	0.04	0.00215
0.625	0.613	0.19	1.76	0.09	0.00555	0.77	0.04	0.00243
0.675	0.565	0.17	1.63	0.08	0.00556	0.79	0.04	0.00268
0.725	0.517	0.16	1.51	0.08	0.00554	0.79	0.04	0.00290
0.775	0.470	0.15	1.40	0.07	0.00549	0.79	0.04	0.00310
0.825	0.422	0.14	1.30	0.07	0.00541	0.78	0.04	0.00326
0.875	0.374	0.13	1.20	0.06	0.00531	0.77	0.04	0.00340
0.925	0.327	0.13	1.11	0.06	0.00518	0.75	0.04	0.00351
0.975	0.279	0.12	1.02	0.05	0.00502	0.73	0.04	0.00360
Overall p(collision):			Upwind 9.5%			Downwind 4.6%		
			Average 7.0%					

Table 1.18 Goshawk collision risk estimate

Parameter	Year one	Year two	Unit
Wind farm area	9,218,960		m ²
Rotor diameter	163		m
Flight risk volume (Vw)	1,502,690,480		m ³
Rotor swept volume (Vr)	1,295,856		m ³
Bird occupancy	0.00008	0.00526	hours per year
Bird occupancy of rotor swept volume	0.28	18.94	bird-seconds
Bird transit time	0.35		seconds
Number of transits through rotors	0.81	54.36	per year
Estimated number of collisions	0.06	3.83	per year
Collisions allowing for 99% avoidance	0.0011	0.0766	per year
Collisions allowing for 99% avoidance + 15% operational downtime	0.0010	0.0651	per year

Parameter	Year one	Year two	Unit
One bird killed every	1024.52	15.36	years

Table 1.19 All flights recorded from VP watches

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	11/10/2019	11:35	5	Red Kite	2	55	110	8.90	11/10/20195 Red Kite 211:3555
1	11/10/2019	11:44	5	Red Kite	1	195	195	0.00	11/10/20195 Red Kite 111:44195
1	11/10/2019	12:13	5	Red Kite	1	130	130	0.00	11/10/20195 Red Kite 112:13130
1	11/10/2019	12:24	5	Ringed Plover	1	45	45	0.00	11/10/20195 Ringed Plover 112:2445
1	11/10/2019	12:31	5	Red Kite	1	38	38	0.00	11/10/20195 Red Kite 112:3138
1	11/10/2019	13:04	5	Red Kite	1	130	130	0.00	11/10/20195 Red Kite 113:04130
1	11/10/2019	13:15	5	Red Kite	2	105	210	0.00	11/10/20195 Red Kite 213:15105
1	11/10/2019	14:33	5	Red Kite	1	28	28	0.00	11/10/20195 Red Kite114:3328
1	11/10/2019	15:13	5	Golden Plover	140	300	42000	25209.29	11/10/20195 Golden Plover 14015:13300
1	11/10/2019	15:29	5	Hen harrier	1	35	35	0	11/10/20195 Hen Harrier 115:2935
1	11/10/2019	15:53	5	Golden Plover	140	65	9100	4845.04	11/10/20195 Golden Plover 14015:5365
1	11/10/2019	16:01	5	Golden Plover	50	145	7250	3993.89	11/10/20195 Golden Plover 5016:01145
1	12/10/2019	11:28	4	Red Kite	1	197	197	145.03	12/10/20194 Red Kite111:28197
1	15/10/2019	12:59	3	Red Kite	1	95	95	48.72	15/10/20193Red Kite112:5995
1	15/10/2019	13:11	3	Red Kite	1	102	102	12.00	15/10/20193Red Kite113:11102

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	22/10/2019	09:42	2	Golden Plover	110	89	9790	0.00	22/10/20192Golden Plover11009:4289
1	22/10/2019	10:02	2	Golden Plover	70	65	4550	1783.64	22/10/20192Golden Plover7010:0265
1	22/10/2019	11:15	2	Golden Plover	17	65	1105	363.47	22/10/20192Golden Plover1711:1565
1	22/10/2019	12:00	2	Red Kite	1	48	48	29.26	22/10/20192Red Kite112:0048
1	22/10/2019	12:28	2	Red Kite	1	45	45	32.71	22/10/20192Red Kite112:2845
1	22/10/2019	13:01	2	Red Kite	2	167	334	180.43	22/10/20192Red Kite213:01167
1	23/10/2019	12:39	1	Red Kite	1	14	14	0.00	23/10/20191Red Kite112:3914
1	23/10/2019	12:39	1	Red Kite	1	22	22	0.00	23/10/20191Red Kite112:3922
1	24/10/2019	09:20	5	Golden Plover	120	45	5400	1465.53	24/10/20195Golden Plover12009:2045
1	24/10/2019	10:09	5	Golden Plover	17	40	680	547.81	24/10/20195Golden Plover1710:0940
1	24/10/2019	10:11	5	Golden Plover	5	35	175	112.72	24/10/20195Golden Plover510:1135
1	24/10/2019	10:16	5	Golden Plover	32	130	4160	2234.35	24/10/20195Golden Plover3210:16130
1	24/10/2019	10:24	5	Golden Plover	150	440	66000	34707.95	24/10/20195Golden Plover15010:24440
1	24/10/2019	10:46	5	Golden Plover	31	38	1178	367.33	24/10/20195Golden Plover3110:4638
1	24/10/2019	10:46	5	Golden Plover	13	25	325	0.00	24/10/20195Golden Plover1310:4625
1	24/10/2019	11:01	5	Golden Plover	70	190	13300	8851.61	24/10/20195Golden Plover7011:01190

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	05/11/2019	14:32	5	Red Kite	1	115	115	15.36	05/11/20195Red Kite114:32115
1	06/11/2019	13:26	3	Golden Plover	150	120	18000	10079.41	06/11/20193Golden Plover15013:26120
1	06/11/2019	13:44	3	Golden Plover	70	95	6650	0.00	06/11/20193Golden Plover7013:4495
1	06/11/2019	14:20	3	Red Kite	1	115	115	35.79	06/11/20193Red Kite114:20115
1	06/11/2019	14:30	3	Red Kite	2	220	440	325.25	06/11/20193Red Kite214:30220
1	06/11/2019	14:51	3	Golden Plover	55	130	7150	1488.78	06/11/20193Golden Plover5514:51130
1	07/11/2019	10:02	4	Golden Plover	15	35	525	279.28	07/11/20194Golden Plover1510:0235
1	07/11/2019	10:14	4	Golden Plover	70	165	11550	8484.16	07/11/20194Golden Plover7010:14165
1	07/11/2019	10:55	4	Golden Plover	300	350	105000	69812.81	07/11/20194Golden Plover30010:55350
1	07/11/2019	11:27	4	Golden Plover	17	90	1530	229.94	07/11/20194Golden Plover1711:2790
1	07/11/2019	12:04	4	Golden Plover	43	110	4730	0.00	07/11/20194Golden Plover4312:04110
1	07/11/2019	14:11	4	Golden Plover	40	68	2720	2244.35	07/11/20194Golden Plover4014:1168
1	07/11/2019	14:45	4	Golden Plover	40	45	1800	748.76	07/11/20194Golden Plover4014:4545
1	07/11/2019	15:01	4	Golden Plover	27	25	675	0.00	07/11/20194Golden Plover2715:0125
1	07/11/2019	15:35	4	Golden Plover	15	38	570	0.00	07/11/20194Golden Plover1515:3538
1	08/11/2019	10:51	2	Red Kite	1	350	350	77.71	08/11/20192Red Kite110:51350

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	08/11/2019	11:45	2	Red Kite	1	143	143	0.00	08/11/20192Red Kite111:45143
1	08/11/2019	12:04	2	Red Kite	2	340	680	560.74	08/11/20192Red Kite212:04340
1	08/11/2019	12:08	2	Red Kite	2	95	190	142.52	08/11/20192Red Kite212:0895
1	08/11/2019	13:20	2	Red Kite	1	220	220	114.37	08/11/20192Red Kite113:20220
1	10/11/2019	09:44	1	Red Kite	1	112	112	58.48	10/11/20191Red Kite109:44112
1	10/11/2019	15:22	1	Golden Plover	1	73	73	70.50	10/11/20191Golden Plover115:2273
1	22/11/2019	08:55	3	Red Kite	1	51	51	11.95	22/11/20193Red Kite108:5551
1	22/11/2019	09:30	3	Red Kite	1	121	121	16.30	22/11/20193Red Kite109:30121
1	22/11/2019	09:42	3	Red Kite	1	322	322	86.76	22/11/20193Red Kite109:42322
1	22/11/2019	10:24	3	Red Kite	1	102	102	1.81	22/11/20193Red Kite110:24102
1	22/11/2019	11:10	3	Red Kite	1	205	205	98.25	22/11/20193Red Kite111:10205
1	22/11/2019	12:00	3	Red Kite	1	105	105	35.07	22/11/20193Red Kite112:00105
1	22/11/2019	12:05	3	Red Kite	2	98	196	55.09	22/11/20193Red Kite212:0598
1	22/11/2019	12:54	3	Red Kite	1	335	335	68.41	22/11/20193Red Kite112:54335
1	27/11/2019	10:00	4	Golden Plover	75	203	15225	7306.18	27/11/20194Golden Plover7510:00203
1	27/11/2019	10:00	4	Golden Plover	15	164	2460	1184.72	27/11/20194Golden Plover1510:00164

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	27/11/2019	14:02	4	Golden Plover	30	115	3450	896.95	27/11/20194Golden Plover3014:02115
1	27/11/2019	14:02	4	Red Kite	1	72	72	13.98	27/11/20194Red Kite114:0272
1	27/11/2019	14:24	4	Golden Plover	35	175	6125	2183.35	27/11/20194Golden Plover3514:24175
1	27/11/2019	14:36	4	Golden Plover	15	25	375	0.00	27/11/20194Golden Plover1514:3625
1	27/11/2019	14:56	4	Red Kite	1	85	85	31.80	27/11/20194Red Kite114:5685
1	27/11/2019	15:03	4	Golden Plover	40	45	1800	0.00	27/11/20194Golden Plover4015:0345
1	27/11/2019	15:11	4	Golden Plover	50	165	8250	2450.77	27/11/20194Golden Plover5015:11165
1	28/11/2019	09:25	5	Red Kite	1	175	175	84.41	28/11/20195Red Kite109:25175
1	28/11/2019	11:01	5	Golden Plover	70	160	11200	2834.05	28/11/20195Golden Plover7011:01160
1	28/11/2019	13:20	5	Red Kite	2	335	670	501.21	28/11/20195Red Kite213:20335
1	29/11/2019	11:10	1	Red Kite	1	310	310	188.65	29/11/20191Red Kite111:10310
1	29/11/2019	11:18	1	Red Kite	1	170	170	104.26	29/11/20191Red Kite111:18170
1	29/11/2019	11:51	1	Red Kite	1	200	200	131.67	29/11/20191Red Kite111:51200
1	29/11/2019	12:40	1	Golden Plover	13	40	520	119.42	29/11/20191Golden Plover1312:4040
1	29/11/2019	13:45	1	Red Kite	5	230	1150	539.41	29/11/20191Red Kite513:45230
1	29/11/2019	13:49	1	Red Kite	4	330	1320	1156.01	29/11/20191Red Kite413:49330

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	30/11/2019	11:32	2	Golden Plover	40	45	1800	556.32	30/11/20192Golden Plover4011:3245
1	30/11/2019	11:47	2	Red Kite	1	115	115	23.29	30/11/20192Red Kite111:47115
1	30/11/2019	12:40	2	Red Kite	1	225	225	103.10	30/11/20192Red Kite112:40225
1	17/12/2019	11:15	5	Red Kite	1	141	141	27.57	17/12/20195Red Kite111:15141
1	18/12/2019	09:09	3	Red Kite	1	300	300	15.29	18/12/20193Red Kite109:09300
1	18/12/2019	09:33	3	Hen harrier	1	105	105	13.38381359	18/12/20193Hen Harrier109:33105
1	18/12/2019	09:39	3	Red Kite	1	176	176	34.76	18/12/20193Red Kite109:39176
1	18/12/2019	10:01	3	Red Kite	1	70	70	0.00	18/12/20193Red Kite110:0170
1	18/12/2019	12:52	3	Red Kite	1	182	182	52.87	18/12/20193Red Kite112:52182
1	18/12/2019	13:49	3	Red Kite	1	70	70	28.30	18/12/20193Red Kite113:4970
1	19/12/2019	09:18	2	Red Kite	1	201	201	121.38	19/12/20192Red Kite109:18201
1	19/12/2019	10:01	2	Red Kite	1	59	59	42.32	19/12/20192Red Kite110:0159
1	19/12/2019	10:40	2	Red Kite	1	85	85	49.43	19/12/20192Red Kite110:4085
1	27/12/2019	09:05	4	Red Kite	1	85	85	9.69	27/12/20194Red Kite109:0585
1	27/12/2019	09:19	4	Red Kite	1	109	109	12.27	27/12/20194Red Kite109:19109
1	27/12/2019	10:13	4	Golden Plover	50	410	20500	3777.60	27/12/20194Golden Plover5010:13410

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	27/12/2019	11:01	4	Red Kite	1	100	100	31.69	27/12/20194Red Kite111:01100
1	27/12/2019	12:30	4	Red Kite	1	125	125	65.68	27/12/20194Red Kite112:30125
1	28/12/2019	09:20	1	Red Kite	1	147	147	104.55	28/12/20191Red Kite109:20147
1	28/12/2019	10:10	1	Golden Plover	32	60	1920	0.00	28/12/20191Golden Plover3210:1060
1	28/12/2019	10:23	1	Red Kite	1	220	220	140.27	28/12/20191Red Kite110:23220
1	28/12/2019	11:02	1	Golden Plover	19	45	855	241.84	28/12/20191Golden Plover1911:0245
1	28/12/2019	12:40	1	Red Kite	1	70	70	59.00	28/12/20191Red Kite112:4070
1	28/12/2019	13:41	1	Red Kite	1	267	267	161.73	28/12/20191Red Kite113:41267
1	28/12/2019	14:13	1	Lapwing	15	90	1350	1050.26	28/12/20191Lapwing1514:1390
1	21/01/2020	14:01	5	Red Kite	1	160	160	63.45	21/01/20205Red Kite114:01160
1	21/01/2020	14:26	5	Red Kite	2	80	160	16.29	21/01/20205Red Kite214:2680
1	21/01/2020	15:04	5	Red Kite	1	58	58	0.00	21/01/20205Red Kite115:0458
1	21/01/2020	15:13	5	Red Kite	1	100	100	13.98	21/01/20205Red Kite115:13100
1	22/01/2020	11:26	4	Golden Plover	1	30	30	0.00	22/01/20204Golden Plover111:2630
1	22/01/2020	11:57	4	Red Kite	1	44	44	7.06	22/01/20204Red Kite111:5744
1	22/01/2020	12:01	4	Golden Plover	30	194	5820	2020.07	22/01/20204Golden Plover3012:01194

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	22/01/2020	12:04	4	Red Kite	1	107	107	11.16	22/01/20204Red Kite112:04107
1	22/01/2020	12:30	4	Red Kite	1	69	69	18.72	22/01/20204Red Kite112:3069
1	22/01/2020	14:02	4	Red Kite	1	55	55	0.00	22/01/20204Red Kite114:0255
1	22/01/2020	14:52	4	Red Kite	1	50	50	0.00	22/01/20204Red Kite114:5250
1	23/01/2020	10:09	1	Red Kite	1	112	112	66.38	23/01/20201Red Kite110:09112
1	23/01/2020	10:50	1	Golden Plover	31	45	1395	371.14	23/01/20201Golden Plover3110:5045
1	27/01/2020	14:08	3	Red Kite	1	35	35	0.00	27/01/20203Red Kite114:0835
1	27/01/2020	15:03	3	Red Kite	2	15	30	0.00	27/01/20203Red Kite215:0315
1	24/02/2020	15:29	2	Red Kite	1	72	72	56.16	24/02/20202Red Kite115:2972
1	24/02/2020	16:06	2	Red Kite	1	195	195	41.87	24/02/20202Red Kite116:06195
1	24/02/2020	16:52	2	Golden Plover	12	68	816	308.88	24/02/20202Golden Plover1216:5268
1	25/02/2020	13:06	4	Red Kite	1	190	190	75.67	25/02/20204Red Kite113:06190
1	25/02/2020	13:39	4	Red Kite	1	102	102	22.35	25/02/20204Red Kite113:39102
1	25/02/2020	16:37	4	Red Kite	1	120	120	44.77	25/02/20204Red Kite116:37120
1	26/02/2020	13:33	1	Red Kite	1	58	58	0.00	26/02/20201Red Kite113:3358
1	26/02/2020	15:15	1	Red Kite	1	145	145	66.09	26/02/20201Red Kite115:15145

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	26/02/2020	15:50	1	Hen harrier	1	133	133	0	26/02/20201Hen Harrier115:50133
1	27/02/2020	10:34	3	Red Kite	1	226	226	33.02	27/02/20203Red Kite110:34226
1	27/02/2020	12:05	3	Red Kite	1	85	85	7.96	27/02/20203Red Kite112:0585
1	27/02/2020	13:43	3	Red Kite	1	101	101	71.11	27/02/20203Red Kite113:43101
1	27/02/2020	14:13	3	Red Kite	1	345	345	132.00	27/02/20203Red Kite114:13345
1	27/02/2020	14:57	3	Red Kite	1	117	117	21.86	27/02/20203Red Kite114:57117
1	27/02/2020	15:32	3	Red Kite	1	205	205	84.67	27/02/20203Red Kite115:32205
1	28/02/2020	08:19	5	Red Kite	1	177	177	120.31	28/02/20205Red Kite108:19177
1	28/02/2020	09:03	5	Red Kite	1	100	100	70.98	28/02/20205Red Kite109:03100
1	28/02/2020	09:16	5	Red Kite	2	200	400	293.32	28/02/20205Red Kite209:16200
1	28/02/2020	10:39	5	Red Kite	1	70	70	0.73	28/02/20205Red Kite110:3970
1	28/02/2020	11:50	5	Lapwing	18	172	3096	2538.99	28/02/20205Lapwing1811:50172
1	10/03/2020	09:41	5	Red Kite	2	160	320	48.12	10/03/20205Red Kite209:41160
1	10/03/2020	10:17	5	Red Kite	1	189	189	79.52	10/03/20205Red Kite110:17189
1	10/03/2020	11:01	5	Red Kite	1	340	340	96.86	10/03/20205Red Kite111:01340
1	10/03/2020	12:10	5	Golden Plover	10	174	1740	375.00	10/03/20205Golden Plover1012:10174

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	10/03/2020	13:02	5	Red Kite	1	142	142	93.97	10/03/20205Red Kite113:02142
1	10/03/2020	13:33	5	Red Kite	1	199	199	41.65	10/03/20205Red Kite113:33199
1	20/03/2020	06:30	1	Red Kite	2	10	20	6.00	20/03/20201Red Kite206:3010
1	20/03/2020	06:41	1	Red Kite	2	25	50	14.28	20/03/20201Red Kite206:4125
1	20/03/2020	06:58	1	Red Kite	2	15	30	0.00	20/03/20201Red Kite206:5815
1	20/03/2020	07:11	1	Red Kite	1	43	43	6.27	20/03/20201Red Kite107:1143
1	20/03/2020	07:37	1	Red Kite	1	39	39	9.41	20/03/20201Red Kite107:3739
1	20/03/2020	15:33	4	Red Kite	1	131	131	55.88	20/03/20204Red Kite115:33131
1	20/03/2020	17:01	3	Red Kite	1	22	22	3.81	20/03/20203Red Kite117:0122
1	20/03/2020	17:12	3	Red Kite	1	20	20	2.82	20/03/20203Red Kite117:1220
1	21/03/2020	10:06	2	Red Kite	1	205	205	62.60	21/03/20202Red Kite110:06205
1	21/03/2020	10:19	2	Red Kite	1	188	188	127.00	21/03/20202Red Kite110:19188
1	21/03/2020	11:07	2	Red Kite	2	190	380	296.57	21/03/20202Red Kite211:07190
1	21/03/2020	12:09	2	Red Kite	1	130	130	54.40	21/03/20202Red Kite112:09130
1	22/03/2020	14:31	1	Red Kite	1	85	85	22.11	22/03/20201Red Kite114:3185
1	22/03/2020	16:05	1	Red Kite	1	225	225	17.45	22/03/20201Red Kite116:05225

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	22/03/2020	16:16	1	Red Kite	1	46	46	0.00	22/03/20201Red Kite116:1646
1	22/03/2020	16:23	1	Red Kite	2	140	280	43.16	22/03/20201Red Kite216:23140
1	22/03/2020	16:24	1	Red Kite	2	105	210	37.43	22/03/20201Red Kite216:24105
1	22/03/2020	17:07	1	Red Kite	1	17	17	3.88	22/03/20201Red Kite117:0717
1	22/03/2020	17:23	1	Red Kite	2	23	46	1.61	22/03/20201Red Kite217:2323
1	28/05/2020	13:13	5	Red Kite	1	430	430	134.07	28/05/20205Red Kite113:13430
1	28/05/2020	14:00	5	Red Kite	1	370	370	3.82	28/05/20205Red Kite114:00370
1	28/05/2020	14:20	5	Red Kite	1	141	141	44.63	28/05/20205Red Kite114:20141
1	28/05/2020	14:20	5	Red Kite	1	148	148	48.14	28/05/20205Red Kite114:20148
1	28/05/2020	14:37	5	Red Kite	1	190	190	96.64	28/05/20205Red Kite114:37190
1	28/05/2020	15:40	1	Red Kite	2	28	56	0.00	28/05/20201Red Kite215:4028
1	28/05/2020	16:01	1	Red Kite	1	10	10	0.00	28/05/20201Red Kite116:0110
1	28/05/2020	16:13	5	Red Kite	1	130	130	65.06	28/05/20205Red Kite116:13130
1	28/05/2020	16:51	1	Red Kite	1	16	16	0.00	28/05/20201Red Kite116:5116
1	28/05/2020	17:01	5	Red Kite	1	161	161	107.48	28/05/20205Red Kite117:01161
1	28/05/2020	17:18	1	Red Kite	1	28	28	0.00	28/05/20201Red Kite117:1828

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	28/05/2020	17:50	5	Red Kite	2	125	250	220.20	28/05/20205Red Kite217:50125
1	28/05/2020	19:03	4	Red Kite	1	75	75	3.91	28/05/20204Red Kite119:0375
1	28/05/2020	19:09	1	Red Kite	1	45	45	0.00	28/05/20201Red Kite119:0945
1	28/05/2020	19:18	1	Red Kite	1	43	43	0.00	28/05/20201Red Kite119:1843
1	28/05/2020	19:39	1	Red Kite	1	55	55	0.79	28/05/20201Red Kite119:3955
1	28/05/2020	19:58	1	Red Kite	1	85	85	0.00	28/05/20201Red Kite119:5885
1	28/05/2020	20:06	1	Red Kite	1	38	38	0.00	28/05/20201Red Kite120:0638
1	28/05/2020	20:27	4	Red Kite	1	165	165	5.28	28/05/20204Red Kite120:27165
1	30/05/2020	09:52	4	Red Kite	1	178	178	28.44	30/05/20204Red Kite109:52178
1	30/05/2020	11:01	4	Red Kite	1	98	98	62.51	30/05/20204Red Kite111:0198
1	30/05/2020	13:38	2	Red Kite	1	220	220	15.24	30/05/20202Red Kite113:38220
1	30/05/2020	14:09	2	Red Kite	1	350	350	322.50	30/05/20202Red Kite114:09350
1	30/05/2020	14:27	2	Red Kite	1	320	320	222.17	30/05/20202Red Kite114:27320
1	30/05/2020	17:14	2	Red Kite	1	72	72	51.38	30/05/20202Red Kite117:1472
1	30/05/2020	18:18	2	Red Kite	2	105	210	102.07	30/05/20202Red Kite218:18105
1	30/05/2020	18:32	2	Red Kite	1	130	130	77.39	30/05/20202Red Kite118:32130

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	31/05/2020	05:15	3	Red Kite	1	15	15	0.00	31/05/20203Red Kite105:1515
1	31/05/2020	05:54	3	Red Kite	1	186	186	0.00	31/05/20203Red Kite105:54186
1	31/05/2020	08:39	3	Red Kite	1	108	108	40.17	31/05/20203Red Kite108:39108
1	31/05/2020	09:01	3	Red Kite	1	235	235	0.00	31/05/20203Red Kite109:01235
1	31/05/2020	09:07	3	Red Kite	1	80	80	0.00	31/05/20203Red Kite109:0780
1	14/06/2020	15:30	3	Red Kite	2	44	88	0.00	14/06/20203Red Kite215:3044
1	15/06/2020	13:01	2	Red Kite	1	100	100	12.00	15/06/20202Red Kite113:01100
1	15/06/2020	13:05	2	Red Kite	1	176	176	56.00	15/06/20202Red Kite113:05176
1	15/06/2020	13:40	2	Red Kite	1	130	130	96.46	15/06/20202Red Kite113:40130
1	15/06/2020	14:03	2	Red Kite	1	115	115	99.94	15/06/20202Red Kite114:03115
1	15/06/2020	14:40	2	Red Kite	1	58	58	3.35	15/06/20202Red Kite114:4058
1	15/06/2020	15:34	2	Red Kite	1	70	70	0.00	15/06/20202Red Kite115:3470
1	15/06/2020	16:00	2	Red Kite	2	90	180	14.49	15/06/20202Red Kite216:0090
1	15/06/2020	16:24	2	Red Kite	1	118	118	43.46	15/06/20202Red Kite116:24118
1	15/06/2020	17:31	2	Red Kite	1	220	220	147.41	15/06/20202Red Kite117:31220
1	23/06/2020	15:43	5	Red Kite	1	175	175	129.40	23/06/20205Red Kite115:43175

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	23/06/2020	19:11	4	Red Kite	1	197	197	124.31	23/06/20204Red Kite119:11197
1	23/06/2020	20:01	4	Red Kite	1	178	178	17.50	23/06/20204Red Kite120:01178
1	25/06/2020	16:30	5	Red Kite	1	190	190	16.85	25/06/20205Red Kite116:30190
1	22/07/2020	09:46	3	Goshawk	1	27	27	8.86	22/07/20203Goshawk109:4627
1	22/07/2020	11:32	3	Red Kite	1	146	146	100.55	22/07/20203Red Kite111:32146
1	22/07/2020	14:15	3	Peregrine	1	69	69	16.51	22/07/20203Peregrine114:1569
1	22/07/2020	16:47	1	Red Kite	1	102	102	15.30	22/07/20201Red Kite116:47102
1	22/07/2020	17:43	1	Red Kite	1	310	310	54.62	22/07/20201Red Kite117:43310
1	23/07/2020	16:01	2	Peregrine	1	41	41	0.00	23/07/20202Peregrine116:0141
1	27/07/2020	07:26	4	Red Kite	1	175	175	82.99	27/07/20204Red Kite107:26175
1	06/08/2020	06:28	2	Red Kite	1	375	375	144.94	06/08/20202Red Kite106:28375
1	06/08/2020	06:40	2	Red Kite	1	102	102	15.03	06/08/20202Red Kite106:40102
1	06/08/2020	07:59	2	Red Kite	1	118	118	57.71	06/08/20202Red Kite107:59118
1	06/08/2020	09:51	2	Red Kite	1	208	208	66.55	06/08/20202Red Kite109:51208
1	06/08/2020	11:09	2	Red Kite	2	175	350	240.83	06/08/20202Red Kite211:09175
1	06/08/2020	13:53	3	Red Kite	1	220	220	76.33	06/08/20203Red Kite113:53220

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	06/08/2020	14:13	3	Red Kite	1	270	270	75.33	06/08/20203Red Kite114:13270
1	07/08/2020	08:00	5	Red Kite	1	72	72	21.79	07/08/20205Red Kite108:0072
1	07/08/2020	09:27	5	Red Kite	1	302	302	92.64	07/08/20205Red Kite109:27302
1	07/08/2020	10:00	5	Red Kite	1	60	60	0.00	07/08/20205Red Kite110:0060
1	07/08/2020	11:05	5	Red Kite	1	330	330	188.03	07/08/20205Red Kite111:05330
1	07/08/2020	12:05	5	Red Kite	1	208	208	68.64	07/08/20205Red Kite112:05208
1	07/08/2020	12:17	5	Red Kite	2	148	296	63.03	07/08/20205Red Kite212:17148
1	07/08/2020	12:21	5	Red Kite	1	130	130	89.82	07/08/20205Red Kite112:21130
1	12/08/2020	06:31	4	Red Kite	1	160	160	29.08	12/08/20204Red Kite106:31160
1	12/08/2020	08:30	4	Red Kite	2	390	780	77.30	12/08/20204Red Kite208:30390
1	12/08/2020	11:14	4	Hobby	1	51	51	0.00	12/08/20204Hobby111:1451
1	12/08/2020	18:17	3	Red Kite	1	369	369	67.18	12/08/20203Red Kite118:17369
1	13/08/2020	10:38	3	Red Kite	1	370	370	55.50	13/08/20203Red Kite110:38370
1	13/08/2020	11:59	3	Red Kite	1	146	146	30.23	13/08/20203Red Kite111:59146
1	13/08/2020	13:02	3	Red Kite	2	355	710	5.59	13/08/20203Red Kite213:02355
1	13/08/2020	13:46	3	Red Kite	1	130	130	18.79	13/08/20203Red Kite113:46130

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	13/08/2020	14:10	3	Red Kite	1	223	223	17.40	13/08/20203Red Kite114:10223
1	13/08/2020	17:07	1	Red Kite	1	175	175	47.50	13/08/20201Red Kite117:07175
1	13/08/2020	17:50	1	Red Kite	1	206	206	137.40	13/08/20201Red Kite117:50206
1	13/08/2020	18:39	1	Red Kite	1	252	252	32.15	13/08/20201Red Kite118:39252
1	13/08/2020	18:54	1	Red Kite	1	222	222	136.77	13/08/20201Red Kite118:54222
1	14/08/2020	12:46	5	Red Kite	1	87	87	0.00	14/08/20205Red Kite112:4687
1	14/08/2020	13:53	5	Red Kite	1	296	296	178.68	14/08/20205Red Kite113:53296
1	14/08/2020	14:02	5	Red Kite	1	162	162	53.01	14/08/20205Red Kite114:02162
1	20/08/2020	09:07	1	Red Kite	1	341	341	26.43	20/08/20201Red Kite109:07341
1	20/08/2020	13:19	2	Red Kite	2	208	416	151.69	20/08/20202Red Kite213:19208
1	20/08/2020	14:00	2	Red Kite	1	190	190	58.52	20/08/20202Red Kite114:00190
1	20/08/2020	14:12	2	Red Kite	1	282	282	175.42	20/08/20202Red Kite114:12282
1	26/08/2020	13:09	4	Red Kite	1	161	161	36.99	26/08/20204Red Kite113:09161
1	27/08/2020	08:42	1	Red Kite	1	420	420	301.66	27/08/20201Red Kite108:42420
1	27/08/2020	09:15	1	Red Kite	1	526	526	435.80	27/08/20201Red Kite109:15526
1	27/08/2020	10:02	1	Red Kite	1	305	305	189.15	27/08/20201Red Kite110:02305

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
1	27/08/2020	10:21	1	Red Kite	1	208	208	111.89	27/08/20201Red Kite110:21208
1	27/08/2020	12:09	1	Red Kite	1	220	220	85.44	27/08/20201Red Kite112:09220
2	01/09/2020	13:35	1	Red Kite	1	105	105	0.00	01/09/20201Red Kite113:35105
2	01/09/2020	14:14	1	Red Kite	1	100	100	91.19	01/09/20201Red Kite114:14100
2	01/09/2020	14:43	1	Red Kite	1	125	125	17.44	01/09/20201Red Kite114:43125
2	01/09/2020	15:23	1	Red Kite	1	15	15	0.00	01/09/20201Red Kite115:2315
2	03/09/2020	13:45	3	Red Kite	3	165	495	12.23	03/09/20203Red Kite313:45165
2	03/09/2020	13:57	3	Red Kite	4	150	600	562.50	03/09/20203Red Kite413:57150
2	03/09/2020	14:08	3	Red Kite	1	120	120	11.26	03/09/20203Red Kite114:08120
2	03/09/2020	14:41	3	Red Kite	4	60	240	0.00	03/09/20203Red Kite414:4160
2	03/09/2020	14:47	3	Goshawk	1	285	285	224.54	03/09/20203Goshawk114:47285
2	03/09/2020	14:53	3	Red Kite	1	30	30	28.13	03/09/20203Red Kite114:5330
2	03/09/2020	15:02	3	Red Kite	1	135	135	39.85	03/09/20203Red Kite115:02135
2	03/09/2020	15:16	3	Red Kite	1	15	15	0.00	03/09/20203Red Kite115:1615
2	03/09/2020	15:20	3	Red Kite	1	15	15	0.00	03/09/20203Red Kite115:2015
2	03/09/2020	15:21	3	Red Kite	2	45	90	7.56	03/09/20203Red Kite215:2145

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	03/09/2020	15:40	3	Red Kite	1	180	180	92.93	03/09/20203Red Kite115:40180
2	03/09/2020	15:47	3	Red Kite	2	150	300	5.50	03/09/20203Red Kite215:47150
2	03/09/2020	15:54	3	Goshawk	1	90	90	38.58	03/09/20203Goshawk115:5490
2	03/09/2020	15:58	3	Goshawk	1	45	45	0.00	03/09/20203Goshawk115:5845
2	03/09/2020	17:09	3	Red Kite	1	255	255	102.31	03/09/20203Red Kite117:09255
2	03/09/2020	17:24	3	Red Kite	1	15	15	0.00	03/09/20203Red Kite117:2415
2	03/09/2020	19:08	3	Red Kite	2	495	990	251.43	03/09/20203Red Kite219:08495
2	04/09/2020	13:41	4	Red Kite	1	35	35	0.00	04/09/20204Red Kite113:4135
2	04/09/2020	14:30	4	Red Kite	1	55	55	0.00	04/09/20204Red Kite114:3055
2	04/09/2020	15:01	4	Red Kite	7	235	1645	425.41	04/09/20204Red Kite715:01235
2	04/09/2020	15:10	4	Red Kite	1	215	215	53.25	04/09/20204Red Kite115:10215
2	04/09/2020	15:19	4	Red Kite	1	55	55	4.50	04/09/20204Red Kite115:1955
2	04/09/2020	16:26	4	Red Kite	1	50	50	0.00	04/09/20204Red Kite116:2650
2	04/09/2020	17:13	4	Red Kite	1	85	85	3.06	04/09/20204Red Kite117:1385
2	04/09/2020	17:59	4	Red Kite	2	85	170	28.91	04/09/20204Red Kite217:5985
2	04/09/2020	18:25	4	Red Kite	1	85	85	0.00	04/09/20204Red Kite118:2585

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	07/09/2020	15:39	5	Golden Plover	4	105	420	42.28	07/09/20205Golden Plover415:39105
2	05/10/2020	07:33	1	Snipe	2	20	40	0.00	05/10/20201Snipe207:3320
2	05/10/2020	08:56	1	Red Kite	1	220	220	11.02	05/10/20201Red Kite108:56220
2	05/10/2020	10:22	1	Red Kite	1	210	210	4.50	05/10/20201Red Kite110:22210
2	05/10/2020	10:23	1	Red Kite	1	45	45	4.50	05/10/20201Red Kite110:2345
2	07/10/2020	08:45	2	Golden Plover	41	50	2050	1527.16	07/10/20202Golden Plover4108:4550
2	07/10/2020	09:01	2	Golden Plover	32	120	3840	1745.90	07/10/20202Golden Plover3209:01120
2	07/10/2020	09:29	2	Red Kite	1	60	60	2.20	07/10/20202Red Kite109:2960
2	07/10/2020	09:57	2	Red Kite	1	360	360	0.00	07/10/20202Red Kite109:57360
2	07/10/2020	11:26	2	Red Kite	1	60	60	0.00	07/10/20202Red Kite111:2660
2	07/10/2020	11:31	2	Red Kite	3	115	345	0.00	07/10/20202Red Kite311:31115
2	07/10/2020	11:38	2	Red Kite	1	270	270	61.69	07/10/20202Red Kite111:38270
2	07/10/2020	11:39	2	Red Kite	1	40	40	0.00	07/10/20202Red Kite111:3940
2	07/10/2020	11:54	2	Golden Plover	1	20	20	0.00	07/10/20202Golden Plover111:5420
2	07/10/2020	11:54	2	Grey Plover	1	20	20	0.00	07/10/20202Grey Plover111:5420
2	07/10/2020	12:00	2	Red Kite	1	120	120	18.00	07/10/20202Red Kite112:00120

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	07/10/2020	12:04	2	Red Kite	1	15	15	0.00	07/10/20202Red Kite112:0415
2	07/10/2020	12:20	2	Red Kite	1	150	150	41.66	07/10/20202Red Kite112:20150
2	07/10/2020	12:43	2	Red Kite	1	105	105	11.59	07/10/20202Red Kite112:43105
2	07/10/2020	12:44	2	Red Kite	2	120	240	0.00	07/10/20202Red Kite212:44120
2	07/10/2020	13:36	2	Red Kite	2	100	200	69.26	07/10/20202Red Kite213:36100
2	13/10/2020	07:29	3	Red Kite	1	70	70	33.79	13/10/20203Red Kite107:2970
2	13/10/2020	08:16	3	Red Kite	1	110	110	80.28	13/10/20203Red Kite108:16110
2	13/10/2020	10:56	3	Red Kite	1	40	40	18.08	13/10/20203Red Kite110:5640
2	13/10/2020	10:56	3	Red Kite	1	105	105	73.25	13/10/20203Red Kite110:56105
2	13/10/2020	11:11	3	Red Kite	1	135	135	98.81	13/10/20203Red Kite111:11135
2	13/10/2020	11:21	3	Peregrine	1	70	70	30.81	13/10/20203Peregrine111:2170
2	13/10/2020	11:40	3	Red Kite	1	100	100	34.75	13/10/20203Red Kite111:40100
2	13/10/2020	11:49	3	Red Kite	1	210	210	172.45	13/10/20203Red Kite111:49210
2	13/10/2020	11:50	3	Red Kite	2	1080	2160	55.42	13/10/20203Red Kite211:501080
2	13/10/2020	12:10	3	Red Kite	1	600	600	10.94	13/10/20203Red Kite112:10600
2	13/10/2020	12:28	3	Red Kite	1	390	390	67.79	13/10/20203Red Kite112:28390

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	13/10/2020	12:57	3	Red Kite	1	300	300	0.00	13/10/20203Red Kite112:57300
2	13/10/2020	13:07	3	Red Kite	1	135	135	0.00	13/10/20203Red Kite113:07135
2	26/10/2020	07:24	4	Red Kite	1	55	55	16.35	26/10/20204Red Kite107:2455
2	26/10/2020	07:24	4	Red Kite	1	85	85	16.50	26/10/20204Red Kite107:2485
2	26/10/2020	09:24	4	Red Kite	1	210	210	72.21	26/10/20204Red Kite109:24210
2	26/10/2020	09:25	4	Red Kite	1	110	110	45.00	26/10/20204Red Kite109:25110
2	26/10/2020	11:40	4	Red Kite	1	30	30	10.00	26/10/20204Red Kite111:4030
2	26/10/2020	11:44	4	Red Kite	1	140	140	29.54	26/10/20204Red Kite111:44140
2	26/10/2020	12:19	4	Red Kite	1	10	10	0.66	26/10/20204Red Kite112:1910
2	27/10/2020	07:28	5	Golden Plover	22	45	990	401.84	27/10/20205Golden Plover2207:2845
2	27/10/2020	12:35	5	Red Kite	1	15	15	0.00	27/10/20205Red Kite112:3515
2	27/10/2020	12:59	5	Red Kite	1	30	30	14.06	27/10/20205Red Kite112:5930
2	01/11/2020	10:26	4	Red Kite	1	30	30	9.00	01/11/20204Red Kite110:2630
2	04/11/2020	10:32	2	Golden Plover	60	375	22500	2238.40	04/11/20202Golden Plover6010:32375
2	04/11/2020	11:23	2	Red Kite	1	200	200	15.84	04/11/20202Red Kite111:23200
2	04/11/2020	11:23	2	Red Kite	1	100	100	0.00	04/11/20202Red Kite111:23100

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	04/11/2020	15:58	2	Golden Plover	54	200	10800	2774.63	04/11/20202Golden Plover5415:58200
2	04/11/2020	16:23	2	Golden Plover	35	40	1400	1025.63	04/11/20202Golden Plover3516:2340
2	09/11/2020	10:17	3	Red Kite	1	1110	1110	973.37	09/11/20203Red Kite110:171110
2	09/11/2020	10:18	3	Red Kite	1	660	660	604.60	09/11/20203Red Kite110:18660
2	09/11/2020	10:25	3	Red Kite	3	180	540	123.02	09/11/20203Red Kite310:25180
2	09/11/2020	10:40	3	Red Kite	1	95	95	52.31	09/11/20203Red Kite110:4095
2	09/11/2020	10:41	3	Red Kite	1	400	400	359.17	09/11/20203Red Kite110:41400
2	09/11/2020	10:58	3	Red Kite	3	600	1800	1687.50	09/11/20203Red Kite310:58600
2	09/11/2020	11:02	3	Goshawk	1	90	90	6.89	09/11/20203Goshawk111:0290
2	09/11/2020	11:09	3	Goshawk	1	120	120	58.85	09/11/20203Goshawk111:09120
2	09/11/2020	11:24	3	Red Kite	1	160	160	33.22	09/11/20203Red Kite111:24160
2	09/11/2020	11:25	3	Red Kite	2	120	240	0.00	09/11/20203Red Kite211:25120
2	09/11/2020	11:30	3	Red Kite	2	600	1200	450.00	09/11/20203Red Kite211:30600
2	09/11/2020	11:31	3	Golden Plover	380	160	60800	49034.59	09/11/20203Golden Plover38011:31160
2	09/11/2020	11:50	3	Red Kite	1	300	300	223.99	09/11/20203Red Kite111:50300
2	09/11/2020	11:51	3	Red Kite	1	180	180	0.00	09/11/20203Red Kite111:51180

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	09/11/2020	11:59	3	Red Kite	1	310	310	212.63	09/11/20203Red Kite111:59310
2	09/11/2020	12:00	3	Red Kite	1	960	960	720.83	09/11/20203Red Kite112:00960
2	09/11/2020	12:30	3	Red Kite	1	190	190	140.44	09/11/20203Red Kite112:30190
2	09/11/2020	13:03	3	Red Kite	1	300	300	52.13	09/11/20203Red Kite113:03300
2	09/11/2020	13:40	3	Red Kite	2	135	270	45.00	09/11/20203Red Kite213:40135
2	09/11/2020	14:04	3	Red Kite	1	510	510	191.05	09/11/20203Red Kite114:04510
2	09/11/2020	14:20	3	Red Kite	1	540	540	508.13	09/11/20203Red Kite114:20540
2	09/11/2020	14:20	3	Red Kite	3	600	1800	331.88	09/11/20203Red Kite314:20600
2	09/11/2020	14:24	3	Goshawk	1	250	250	234.38	09/11/20203Goshawk114:24250
2	09/11/2020	14:39	3	Red Kite	1	380	380	312.38	09/11/20203Red Kite114:39380
2	09/11/2020	14:43	3	Red Kite	1	140	140	19.40	09/11/20203Red Kite114:43140
2	09/11/2020	14:44	3	Red Kite	1	20	20	18.75	09/11/20203Red Kite114:4420
2	09/11/2020	14:50	3	Red Kite	1	780	780	117.21	09/11/20203Red Kite114:50780
2	09/11/2020	14:52	3	Red Kite	1	480	480	0.00	09/11/20203Red Kite114:52480
2	09/11/2020	15:24	3	Red Kite	1	65	65	26.18	09/11/20203Red Kite115:2465
2	09/11/2020	15:33	3	Hen harrier	1	180	180	0	09/11/20203Hen Harrier115:33180

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	16/11/2020	11:36	5	Red Kite	2	350	700	308.86	16/11/20205Red Kite211:36350
2	16/11/2020	12:47	5	Red Kite	1	85	85	71.06	16/11/20205Red Kite112:4785
2	07/12/2020	08:11	2	Golden Plover	30	20	600	0.00	07/12/20202Golden Plover3008:1120
2	09/12/2020	08:10	3	Red Kite	1	180	180	95.41	09/12/20203Red Kite108:10180
2	09/12/2020	08:36	3	Red Kite	1	105	105	26.41	09/12/20203Red Kite108:36105
2	09/12/2020	08:45	3	Red Kite	1	195	195	113.19	09/12/20203Red Kite108:45195
2	09/12/2020	09:21	3	Red Kite	1	250	250	78.06	09/12/20203Red Kite109:21250
2	09/12/2020	11:44	3	Red Kite	1	40	40	2.94	09/12/20203Red Kite111:4440
2	09/12/2020	12:16	3	Golden Plover	150	45	6750	6703.13	09/12/20203Golden Plover15012:1645
2	09/12/2020	12:26	3	Golden Plover	160	465	74400	63000.00	09/12/20203Golden Plover16012:26465
2	15/12/2020	10:52	4	Red Kite	1	60	60	0.00	15/12/20204Red Kite110:5260
2	15/12/2020	11:37	4	Red Kite	1	50	50	0.00	15/12/20204Red Kite111:3750
2	15/12/2020	11:56	4	Red Kite	1	80	80	0.00	15/12/20204Red Kite111:5680
2	15/12/2020	12:13	4	Red Kite	2	100	200	0.00	15/12/20204Red Kite212:13100
2	15/12/2020	12:17	4	Red Kite	3	50	150	0.00	15/12/20204Red Kite312:1750
2	15/12/2020	12:28	4	Red Kite	1	90	90	4.50	15/12/20204Red Kite112:2890

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	15/12/2020	13:30	4	Red Kite	1	240	240	39.00	15/12/20204Red Kite113:30240
2	15/12/2020	13:32	4	Red Kite	1	270	270	7.37	15/12/20204Red Kite113:32270
2	15/12/2020	13:58	4	Red Kite	1	85	85	32.90	15/12/20204Red Kite113:5885
2	15/12/2020	14:02	4	Golden Plover	28	600	16800	15647.84	15/12/20204Golden Plover2814:02600
2	17/12/2020	10:05	5	Red Kite	1	55	55	26.90	17/12/20205Red Kite110:0555
2	17/12/2020	10:40	5	Golden Plover	77	75	5775	4716.36	17/12/20205Golden Plover7710:4075
2	17/12/2020	11:33	5	Red Kite	1	200	200	54.90	17/12/20205Red Kite111:33200
2	17/12/2020	11:35	5	Red Kite	1	25	25	23.44	17/12/20205Red Kite111:3525
2	17/12/2020	13:35	5	Golden Plover	25	10	250	0.00	17/12/20205Golden Plover2513:3510
2	17/12/2020	14:10	5	Red Kite	3	190	570	433.97	17/12/20205Red Kite314:10190
2	21/12/2020	12:05	1	Red Kite	1	80	80	4.50	21/12/20201Red Kite112:0580
2	21/12/2020	12:25	1	Red Kite	1	300	300	38.07	21/12/20201Red Kite112:25300
2	21/12/2020	12:28	1	Red Kite	1	25	25	0.00	21/12/20201Red Kite112:2825
2	21/12/2020	12:50	1	Red Kite	1	50	50	18.08	21/12/20201Red Kite112:5050
2	21/12/2020	13:14	1	Red Kite	1	35	35	24.50	21/12/20201Red Kite113:1435
2	11/01/2021	12:53	1	Red Kite	1	90	90	0.00	11/01/20211Red Kite112:5390

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	12/01/2021	15:31	2	Red Kite	1	95	95	0.00	12/01/20212Red Kite115:3195
2	12/01/2021	15:42	2	Golden Plover	19	150	2850	2463.24	12/01/20212Golden Plover1915:42150
2	14/01/2021	10:13	3	Red Kite	1	50	50	0.00	14/01/20213Red Kite110:1350
2	14/01/2021	10:16	3	Red Kite	1	30	30	0.00	14/01/20213Red Kite110:1630
2	14/01/2021	10:20	3	Red Kite	1	5	5	0.00	14/01/20213Red Kite110:205
2	14/01/2021	10:21	3	Red Kite	1	35	35	3.00	14/01/20213Red Kite110:2135
2	14/01/2021	10:25	3	Red Kite	1	80	80	5.03	14/01/20213Red Kite110:2580
2	14/01/2021	10:33	3	Red Kite	1	85	85	25.04	14/01/20213Red Kite110:3385
2	14/01/2021	10:37	3	Red Kite	1	30	30	6.47	14/01/20213Red Kite110:3730
2	14/01/2021	10:38	3	Red Kite	2	140	280	127.62	14/01/20213Red Kite210:38140
2	14/01/2021	10:47	3	Red Kite	1	185	185	12.42	14/01/20213Red Kite110:47185
2	14/01/2021	10:55	3	Red Kite	1	135	135	15.42	14/01/20213Red Kite110:55135
2	14/01/2021	11:01	3	Red Kite	1	105	105	40.19	14/01/20213Red Kite111:01105
2	14/01/2021	11:30	3	Red Kite	1	50	50	37.44	14/01/20213Red Kite111:3050
2	14/01/2021	11:34	3	Red Kite	2	55	110	0.00	14/01/20213Red Kite211:3455
2	14/01/2021	11:40	3	Red Kite	3	180	540	152.86	14/01/20213Red Kite311:40180

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	14/01/2021	11:54	3	Red Kite	2	240	480	49.69	14/01/20213Red Kite211:54240
2	14/01/2021	12:02	3	Red Kite	1	210	210	59.69	14/01/20213Red Kite112:02210
2	14/01/2021	12:12	3	Red Kite	1	25	25	23.43	14/01/20213Red Kite112:1225
2	14/01/2021	12:12	3	Red Kite	1	55	55	7.50	14/01/20213Red Kite112:1255
2	14/01/2021	12:19	3	Red Kite	3	465	1395	255.36	14/01/20213Red Kite312:19465
2	14/01/2021	12:36	3	Red Kite	1	25	25	0.00	14/01/20213Red Kite112:3625
2	14/01/2021	12:37	3	Red Kite	2	210	420	15.99	14/01/20213Red Kite212:37210
2	14/01/2021	12:49	3	Red Kite	2	330	660	14.73	14/01/20213Red Kite212:49330
2	14/01/2021	13:35	3	Red Kite	1	30	30	2.29	14/01/20213Red Kite113:3530
2	14/01/2021	14:10	3	Red Kite	1	100	100	24.88	14/01/20213Red Kite114:10100
2	14/01/2021	14:14	3	Red Kite	1	10	10	0.00	14/01/20213Red Kite114:1410
2	14/01/2021	14:16	3	Red Kite	2	100	200	46.43	14/01/20213Red Kite214:16100
2	14/01/2021	14:40	3	Red Kite	1	90	90	71.25	14/01/20213Red Kite114:4090
2	14/01/2021	14:47	3	Red Kite	1	250	250	28.54	14/01/20213Red Kite114:47250
2	14/01/2021	14:54	3	Red Kite	1	225	225	21.36	14/01/20213Red Kite114:54225
2	14/01/2021	15:14	3	Red Kite	1	315	315	25.00	14/01/20213Red Kite115:14315

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	14/01/2021	15:24	3	Red Kite	1	300	300	28.14	14/01/20213Red Kite115:24300
2	21/01/2021	11:37	4	Red Kite	1	140	140	0.00	21/01/20214Red Kite111:37140
2	21/01/2021	11:38	4	Red Kite	1	120	120	0.00	21/01/20214Red Kite111:38120
2	21/01/2021	11:56	4	Red Kite	1	60	60	0.00	21/01/20214Red Kite111:5660
2	21/01/2021	13:57	4	Red Kite	2	60	120	0.00	21/01/20214Red Kite213:5760
2	21/01/2021	14:23	4	Red Kite	1	70	70	7.50	21/01/20214Red Kite114:2370
2	21/01/2021	14:45	4	Red Kite	2	50	100	0.00	21/01/20214Red Kite214:4550
2	21/01/2021	14:51	4	Red Kite	1	20	20	0.00	21/01/20214Red Kite114:5120
2	21/01/2021	15:22	4	Red Kite	2	145	290	0.00	21/01/20214Red Kite215:22145
2	21/01/2021	16:29	4	Red Kite	1	45	45	11.36	21/01/20214Red Kite116:2945
2	28/01/2021	10:30	5	Red Kite	1	40	40	2.73	28/01/20215Red Kite110:3040
2	28/01/2021	10:33	5	Golden Plover	37	35	1295	900.69	28/01/20215Golden Plover3710:3335
2	28/01/2021	11:07	5	Golden Plover	18	230	4140	2779.32	28/01/20215Golden Plover1811:07230
2	28/01/2021	11:31	5	Red Kite	1	300	300	33.56	28/01/20215Red Kite111:31300
2	28/01/2021	11:48	5	Red Kite	2	80	160	0.00	28/01/20215Red Kite211:4880
2	28/01/2021	11:49	5	Red Kite	2	45	90	3.38	28/01/20215Red Kite211:4945

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	28/01/2021	12:11	5	Red Kite	1	60	60	0.95	28/01/20215Red Kite112:1160
2	28/01/2021	12:11	5	Red Kite	3	165	495	3.60	28/01/20215Red Kite312:11165
2	28/01/2021	12:19	5	Red Kite	1	20	20	0.00	28/01/20215Red Kite112:1920
2	28/01/2021	12:28	5	Red Kite	1	80	80	38.86	28/01/20215Red Kite112:2880
2	28/01/2021	12:46	5	Red Kite	1	55	55	0.00	28/01/20215Red Kite112:4655
2	28/01/2021	13:10	5	Red Kite	1	20	20	0.00	28/01/20215Red Kite113:1020
2	28/01/2021	13:56	5	Red Kite	1	110	110	93.56	28/01/20215Red Kite113:56110
2	28/01/2021	14:04	5	Red Kite	1	85	85	43.28	28/01/20215Red Kite114:0485
2	28/01/2021	14:10	5	Red Kite	1	50	50	2.29	28/01/20215Red Kite114:1050
2	03/02/2021	09:56	2	Red Kite	1	75	75	6.04	03/02/20212Red Kite109:5675
2	03/02/2021	10:14	2	Red Kite	1	60	60	0.00	03/02/20212Red Kite110:1460
2	03/02/2021	10:34	2	Red Kite	1	125	125	6.62	03/02/20212Red Kite110:34125
2	03/02/2021	12:11	2	Red Kite	2	120	240	0.00	03/02/20212Red Kite212:11120
2	03/02/2021	13:06	2	Red Kite	4	420	1680	15.89	03/02/20212Red Kite413:06420
2	03/02/2021	13:09	2	Red Kite	1	180	180	21.81	03/02/20212Red Kite113:09180
2	03/02/2021	13:10	2	Red Kite	1	90	90	0.00	03/02/20212Red Kite113:1090

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	22/02/2021	08:27	3	Red Kite	1	135	135	2.51	22/02/20213Red Kite108:27135
2	22/02/2021	08:57	3	Red Kite	1	470	470	27.09	22/02/20213Red Kite108:57470
2	22/02/2021	09:02	3	Red Kite	1	60	60	0.00	22/02/20213Red Kite109:0260
2	22/02/2021	09:06	3	Red Kite	1	495	495	214.08	22/02/20213Red Kite109:06495
2	22/02/2021	09:08	3	Red Kite	2	1380	2760	907.89	22/02/20213Red Kite209:081380
2	22/02/2021	09:35	3	Red Kite	1	165	165	58.38	22/02/20213Red Kite109:35165
2	22/02/2021	10:11	3	Red Kite	1	225	225	41.41	22/02/20213Red Kite110:11225
2	22/02/2021	11:01	3	Red Kite	1	325	325	206.38	22/02/20213Red Kite111:01325
2	22/02/2021	11:13	3	Red Kite	1	415	415	53.63	22/02/20213Red Kite111:13415
2	22/02/2021	11:42	3	Red Kite	1	450	450	190.76	22/02/20213Red Kite111:42450
2	22/02/2021	11:58	3	Red Kite	3	420	1260	695.50	22/02/20213Red Kite311:58420
2	22/02/2021	12:05	3	Red Kite	2	320	640	205.18	22/02/20213Red Kite212:05320
2	22/02/2021	12:36	3	Red Kite	1	65	65	6.07	22/02/20213Red Kite112:3665
2	22/02/2021	13:07	3	Red Kite	2	70	140	56.72	22/02/20213Red Kite213:0770
2	22/02/2021	13:11	3	Red Kite	3	600	1800	864.01	22/02/20213Red Kite313:11600
2	22/02/2021	13:17	3	Red Kite	2	240	480	155.90	22/02/20213Red Kite213:17240

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	23/02/2021	08:17	4	Red Kite	3	100	300	0.00	23/02/20214Red Kite308:17100
2	23/02/2021	08:20	4	Red Kite	1	35	35	0.00	23/02/20214Red Kite108:2035
2	23/02/2021	09:05	4	Red Kite	1	45	45	4.50	23/02/20214Red Kite109:0545
2	23/02/2021	12:49	4	Red Kite	1	50	50	0.00	23/02/20214Red Kite112:4950
2	23/02/2021	12:54	4	Red Kite	1	60	60	0.00	23/02/20214Red Kite112:5460
2	23/02/2021	13:01	4	Red Kite	1	20	20	16.20	23/02/20214Red Kite113:0120
2	25/02/2021	08:28	5	Red Kite	1	20	20	0.00	25/02/20215Red Kite108:2820
2	25/02/2021	09:52	5	Red Kite	1	20	20	2.67	25/02/20215Red Kite109:5220
2	25/02/2021	09:56	5	Red Kite	1	840	840	122.90	25/02/20215Red Kite109:56840
2	25/02/2021	10:06	5	Red Kite	1	210	210	64.82	25/02/20215Red Kite110:06210
2	25/02/2021	11:00	5	Red Kite	1	65	65	20.61	25/02/20215Red Kite111:0065
2	25/02/2021	11:15	5	Red Kite	1	310	310	24.34	25/02/20215Red Kite111:15310
2	25/02/2021	11:18	5	Red Kite	1	55	55	15.40	25/02/20215Red Kite111:1855
2	25/02/2021	11:26	5	Red Kite	1	80	80	0.00	25/02/20215Red Kite111:2680
2	25/02/2021	11:30	5	Red Kite	4	1295	5180	877.86	25/02/20215Red Kite411:301295
2	25/02/2021	11:56	5	Red Kite	2	420	840	79.14	25/02/20215Red Kite211:56420

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	25/02/2021	12:19	5	Red Kite	2	330	660	109.92	25/02/20215Red Kite212:19330
2	25/02/2021	12:32	5	Red Kite	2	15	30	0.00	25/02/20215Red Kite212:3215
2	25/02/2021	12:35	5	Red Kite	2	85	170	6.00	25/02/20215Red Kite212:3585
2	25/02/2021	12:47	5	Red Kite	1	60	60	32.03	25/02/20215Red Kite112:4760
2	25/02/2021	12:55	5	Peregrine	2	50	100	33.00	25/02/20215Peregrine212:5550
2	17/03/2021	12:16	1	Red Kite	1	210	210	0.00	17/03/20211Red Kite112:16210
2	17/03/2021	12:30	1	Red Kite	1	30	30	0.00	17/03/20211Red Kite112:3030
2	17/03/2021	12:47	1	Red Kite	1	90	90	0.00	17/03/20211Red Kite112:4790
2	17/03/2021	13:07	1	Red Kite	2	225	450	224.23	17/03/20211Red Kite213:07225
2	17/03/2021	13:30	1	Red Kite	1	135	135	10.68	17/03/20211Red Kite113:30135
2	17/03/2021	13:58	1	Red Kite	1	180	180	28.56	17/03/20211Red Kite113:58180
2	17/03/2021	14:52	1	Red Kite	2	185	370	331.75	17/03/20211Red Kite214:52185
2	17/03/2021	15:35	1	Red Kite	1	405	405	119.12	17/03/20211Red Kite115:35405
2	17/03/2021	15:52	1	Red Kite	1	90	90	89.06	17/03/20211Red Kite115:5290
2	17/03/2021	15:52	1	Red Kite	1	150	150	43.97	17/03/20211Red Kite115:52150
2	22/03/2021	12:21	2	Red Kite	1	65	65	0.00	22/03/20212Red Kite112:2165

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	22/03/2021	15:33	2	Red Kite	4	330	1320	224.28	22/03/20212Red Kite415:33330
2	22/03/2021	16:27	2	Red Kite	1	380	380	315.03	22/03/20212Red Kite116:27380
2	22/03/2021	17:05	2	Red Kite	2	165	330	44.73	22/03/20212Red Kite217:05165
2	24/03/2021	12:05	3	Red Kite	1	25	25	2.79	24/03/20213Red Kite112:0525
2	24/03/2021	12:12	3	Red Kite	1	160	160	57.27	24/03/20213Red Kite112:12160
2	24/03/2021	12:27	3	Curlew	1	80	80	44.30714262	24/03/20213Curlew112:2780
2	24/03/2021	12:32	3	Red Kite	1	625	625	218.73	24/03/20213Red Kite112:32625
2	24/03/2021	12:51	3	Red Kite	1	360	360	95.91	24/03/20213Red Kite112:51360
2	24/03/2021	14:23	3	Red Kite	1	190	190	77.29	24/03/20213Red Kite114:23190
2	24/03/2021	14:43	3	Red Kite	1	110	110	16.83	24/03/20213Red Kite114:43110
2	24/03/2021	15:00	3	Red Kite	1	80	80	47.81	24/03/20213Red Kite115:0080
2	24/03/2021	16:06	3	Red Kite	1	450	450	183.02	24/03/20213Red Kite116:06450
2	24/03/2021	16:20	3	Red Kite	1	90	90	47.63	24/03/20213Red Kite116:2090
2	24/03/2021	16:33	3	Red Kite	2	345	690	329.85	24/03/20213Red Kite216:33345
2	24/03/2021	17:52	3	Red Kite	1	100	100	0.00	24/03/20213Red Kite117:52100
2	30/03/2021	13:31	4	Red Kite	2	150	300	175.13	30/03/20214Red Kite213:31150

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	30/03/2021	14:25	4	Red Kite	1	35	35	0.00	30/03/20214Red Kite114:2535
2	30/03/2021	14:56	4	Red Kite	1	210	210	0.00	30/03/20214Red Kite114:56210
2	30/03/2021	15:11	4	Red Kite	1	120	120	0.00	30/03/20214Red Kite115:11120
2	30/03/2021	18:22	4	Red Kite	1	60	60	0.00	30/03/20214Red Kite118:2260
2	31/03/2021	13:40	5	Red Kite	2	345	690	119.28	31/03/20215Red Kite213:40345
2	31/03/2021	13:55	5	Red Kite	1	55	55	1.51	31/03/20215Red Kite113:5555
2	31/03/2021	14:37	5	Red Kite	1	40	40	5.71	31/03/20215Red Kite114:3740
2	31/03/2021	15:21	5	Goshawk	1	285	285	9.63	31/03/20215Goshawk115:21285
2	31/03/2021	15:32	5	Red Kite	1	25	25	0.00	31/03/20215Red Kite115:3225
2	31/03/2021	15:56	5	Red Kite	1	540	540	390.56	31/03/20215Red Kite115:56540
2	31/03/2021	16:05	5	Red Kite	2	90	180	7.42	31/03/20215Red Kite216:0590
2	31/03/2021	16:07	5	Red Kite	4	90	360	130.53	31/03/20215Red Kite416:0790
2	31/03/2021	16:50	5	Red Kite	1	50	50	0.00	31/03/20215Red Kite116:5050
2	31/03/2021	16:52	5	Red Kite	1	120	120	0.00	31/03/20215Red Kite116:52120
2	31/03/2021	16:58	5	Red Kite	3	210	630	0.00	31/03/20215Red Kite316:58210
2	31/03/2021	17:00	5	Red Kite	2	20	40	0.00	31/03/20215Red Kite217:0020

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	31/03/2021	17:12	5	Red Kite	1	150	150	6.55	31/03/20215Red Kite117:12150
2	31/03/2021	17:21	5	Red Kite	1	140	140	6.86	31/03/20215Red Kite117:21140
2	31/03/2021	17:56	5	Red Kite	1	705	705	444.66	31/03/20215Red Kite117:56705
2	10/04/2021	14:54	4	Red Kite	1	5	5	0.00	10/04/20214Red Kite114:545
2	10/04/2021	15:09	4	Red Kite	1	122	122	0.00	10/04/20214Red Kite115:09122
2	10/04/2021	15:33	4	Red Kite	1	310	310	38.58	10/04/20214Red Kite115:33310
2	11/04/2021	13:11	2	Red Kite	1	45	45	0.00	11/04/20212Red Kite113:1145
2	11/04/2021	15:48	2	Red Kite	1	119	119	0.00	11/04/20212Red Kite115:48119
2	12/04/2021	17:36	5	Red Kite	1	133	133	1.60	12/04/20215Red Kite117:36133
2	12/04/2021	17:51	5	Red Kite	1	31	31	0.00	12/04/20215Red Kite117:5131
2	12/04/2021	18:52	5	Golden Plover	114	229	26106	9035.26	12/04/20215Golden Plover11418:52229
2	13/04/2021	10:08	3	Red Kite	2	18	36	0.00	13/04/20213Red Kite210:0818
2	13/04/2021	10:12	3	Red Kite	1	104	104	0.00	13/04/20213Red Kite110:12104
2	13/04/2021	10:16	3	Red Kite	1	234	234	0.00	13/04/20213Red Kite110:16234
2	13/04/2021	10:26	3	Red Kite	1	228	228	12.50	13/04/20213Red Kite110:26228
2	13/04/2021	10:40	3	Red Kite	1	33	33	0.00	13/04/20213Red Kite110:4033

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	13/04/2021	11:10	3	Red Kite	1	233	233	0.00	13/04/20213Red Kite111:10233
2	13/04/2021	11:38	3	Golden Plover	80	32	2560	0.00	13/04/20213Golden Plover8011:3832
2	13/04/2021	11:39	3	Peregrine	1	46	46	0.00	13/04/20213Peregrine111:3946
2	13/04/2021	11:42	3	Red Kite	7	288	2016	0.00	13/04/20213Red Kite711:42288
2	13/04/2021	11:52	3	Red Kite	1	281	281	6.42	13/04/20213Red Kite111:52281
2	13/04/2021	12:04	3	Red Kite	1	399	399	219.84	13/04/20213Red Kite112:04399
2	13/04/2021	12:14	3	Red Kite	1	158	158	127.12	13/04/20213Red Kite112:14158
2	13/04/2021	13:46	1	Red Kite	1	140	140	8.28	13/04/20211Red Kite113:46140
2	13/04/2021	14:21	1	Red Kite	1	77	77	0.60	13/04/20211Red Kite114:2177
2	13/04/2021	14:47	1	Red Kite	1	80	80	75.00	13/04/20211Red Kite114:4780
2	13/04/2021	14:56	1	Red Kite	1	10	10	0.00	13/04/20211Red Kite114:5610
2	13/04/2021	14:59	1	Red Kite	1	14	14	0.00	13/04/20211Red Kite114:5914
2	13/04/2021	15:12	1	Red Kite	1	80	80	75.00	13/04/20211Red Kite115:1280
2	13/04/2021	15:18	1	Red Kite	1	119	119	104.54	13/04/20211Red Kite115:18119
2	13/04/2021	15:18	1	Red Kite	1	147	147	76.50	13/04/20211Red Kite115:18147
2	13/04/2021	15:27	1	Red Kite	1	125	125	28.50	13/04/20211Red Kite115:27125

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	13/04/2021	15:43	1	Red Kite	1	262	262	6.05	13/04/20211Red Kite115:43262
2	13/04/2021	15:56	1	Red Kite	1	91	91	0.00	13/04/20211Red Kite115:5691
2	14/04/2021	07:42	2	Golden Plover	50	35	1750	0.00	14/04/20212Golden Plover5007:4235
2	14/04/2021	08:44	2	Red Kite	1	107	107	0.00	14/04/20212Red Kite108:44107
2	14/04/2021	08:45	2	Red Kite	1	98	98	0.00	14/04/20212Red Kite108:4598
2	14/04/2021	10:08	5	Red Kite	1	150	150	96.78	14/04/20215Red Kite110:08150
2	14/04/2021	10:31	5	Red Kite	1	52	52	0.00	14/04/20215Red Kite110:3152
2	14/04/2021	10:35	5	Red Kite	2	208	416	266.42	14/04/20215Red Kite210:35208
2	14/04/2021	12:09	5	Red Kite	1	402	402	0.14	14/04/20215Red Kite112:09402
2	14/04/2021	12:24	5	Red Kite	2	318	636	209.35	14/04/20215Red Kite212:24318
2	14/04/2021	12:34	5	Red Kite	1	123	123	4.30	14/04/20215Red Kite112:34123
2	15/04/2021	06:54	1	Red Kite	1	114	114	0.00	15/04/20211Red Kite106:54114
2	15/04/2021	06:57	1	Red Kite	2	173	346	60.23	15/04/20211Red Kite206:57173
2	15/04/2021	07:20	1	Red Kite	2	121	242	38.65	15/04/20211Red Kite207:20121
2	15/04/2021	07:20	1	Red Kite	2	121	242	34.41	15/04/20211Red Kite207:20121
2	15/04/2021	08:09	1	Curlew	1	62	62	20.7938318	15/04/20211Curlew108:0962

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	15/04/2021	08:31	1	Red Kite	2	72	144	7.20	15/04/20211Red Kite208:3172
2	16/04/2021	17:14	3	Red Kite	1	922	922	466.54	16/04/20213Red Kite117:14922
2	16/04/2021	17:42	3	Red Kite	1	412	412	180.10	16/04/20213Red Kite117:42412
2	16/04/2021	18:15	3	Red Kite	1	526	526	112.33	16/04/20213Red Kite118:15526
2	16/04/2021	18:48	3	Red Kite	1	46	46	46.00	16/04/20213Red Kite118:4846
2	16/04/2021	19:29	3	Red Kite	1	243	243	28.86	16/04/20213Red Kite119:29243
2	16/04/2021	19:50	3	Red Kite	1	614	614	39.57	16/04/20213Red Kite119:50614
2	18/04/2021	06:42	4	Red Kite	1	87	87	0.00	18/04/20214Red Kite106:4287
2	18/04/2021	07:22	4	Red Kite	1	20	20	0.00	18/04/20214Red Kite107:2220
2	11/05/2021	14:54	5	Red Kite	1	136	136	0.00	11/05/20215Red Kite114:54136
2	11/05/2021	15:18	5	Red Kite	1	48	48	14.40	11/05/20215Red Kite115:1848
2	11/05/2021	15:43	5	Red Kite	1	72	72	14.06	11/05/20215Red Kite115:4372
2	11/05/2021	15:51	5	Red Kite	1	20	20	0.00	11/05/20215Red Kite115:5120
2	11/05/2021	16:46	5	Red Kite	1	43	43	0.00	11/05/20215Red Kite116:4643
2	11/05/2021	17:23	5	Red Kite	1	43	43	35.20	11/05/20215Red Kite117:2343
2	12/05/2021	14:38	3	Red Kite	1	19	19	0.00	12/05/20213Red Kite114:3819

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	12/05/2021	14:52	3	Red Kite	1	113	113	102.40	12/05/20213Red Kite114:52113
2	12/05/2021	15:06	3	Red Kite	1	326	326	7.40	12/05/20213Red Kite115:06326
2	12/05/2021	15:15	3	Red Kite	1	41	41	0.00	12/05/20213Red Kite115:1541
2	12/05/2021	15:25	3	Red Kite	1	355	355	15.93	12/05/20213Red Kite115:25355
2	12/05/2021	15:38	3	Red Kite	1	249	249	0.00	12/05/20213Red Kite115:38249
2	12/05/2021	15:51	3	Red Kite	1	76	76	0.05	12/05/20213Red Kite115:5176
2	12/05/2021	15:54	3	Red Kite	1	281	281	75.91	12/05/20213Red Kite115:54281
2	12/05/2021	16:09	3	Red Kite	1	94	94	88.00	12/05/20213Red Kite116:0994
2	12/05/2021	16:13	3	Red Kite	1	76	76	0.00	12/05/20213Red Kite116:1376
2	12/05/2021	16:24	3	Red Kite	1	59	59	14.89	12/05/20213Red Kite116:2459
2	12/05/2021	16:42	3	Red Kite	1	448	448	69.01	12/05/20213Red Kite116:42448
2	12/05/2021	17:15	3	Red Kite	1	421	421	164.79	12/05/20213Red Kite117:15421
2	12/05/2021	18:07	1	Red Kite	1	331	331	151.83	12/05/20211Red Kite118:07331
2	12/05/2021	18:13	1	Peregrine	1	5	5	0.00	12/05/20211Peregrine118:135
2	12/05/2021	18:41	1	Red Kite	1	12	12	0.00	12/05/20211Red Kite118:4112
2	14/05/2021	09:07	1	Red Kite	1	173	173	30.99	14/05/20211Red Kite109:07173

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	14/05/2021	09:14	1	Red Kite	1	129	129	2.42	14/05/20211Red Kite109:14129
2	14/05/2021	09:38	1	Red Kite	1	114	114	83.07	14/05/20211Red Kite109:38114
2	14/05/2021	09:48	1	Red Kite	1	394	394	193.27	14/05/20211Red Kite109:48394
2	14/05/2021	09:57	1	Red Kite	1	129	129	41.66	14/05/20211Red Kite109:57129
2	14/05/2021	10:02	1	Red Kite	1	780	780	202.49	14/05/20211Red Kite110:02780
2	14/05/2021	10:44	1	Red Kite	1	72	72	0.00	14/05/20211Red Kite110:4472
2	14/05/2021	11:01	1	Red Kite	1	193	193	2.87	14/05/20211Red Kite111:01193
2	14/05/2021	11:11	1	Red Kite	1	179	179	65.63	14/05/20211Red Kite111:11179
2	14/05/2021	11:17	1	Red Kite	2	162	324	41.47	14/05/20211Red Kite211:17162
2	14/05/2021	11:23	1	Red Kite	1	326	326	7.80	14/05/20211Red Kite111:23326
2	16/05/2021	11:48	2	Red Kite	1	127	127	16.00	16/05/20212Red Kite111:48127
2	16/05/2021	11:59	2	Red Kite	1	53	53	0.00	16/05/20212Red Kite111:5953
2	16/05/2021	12:04	2	Red Kite	1	324	324	202.35	16/05/20212Red Kite112:04324
2	16/05/2021	12:13	2	Red Kite	1	191	191	7.07	16/05/20212Red Kite112:13191
2	16/05/2021	12:21	2	Red Kite	1	243	243	196.13	16/05/20212Red Kite112:21243
2	16/05/2021	12:44	2	Red Kite	2	146	292	49.28	16/05/20212Red Kite212:44146

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	16/05/2021	13:24	2	Red Kite	1	306	306	0.00	16/05/20212Red Kite113:24306
2	16/05/2021	13:38	2	Red Kite	1	233	233	41.97	16/05/20212Red Kite113:38233
2	16/05/2021	13:54	2	Red Kite	1	145	145	56.24	16/05/20212Red Kite113:54145
2	16/05/2021	14:18	2	Red Kite	1	459	459	320.81	16/05/20212Red Kite114:18459
2	17/05/2021	05:36	5	Red Kite	2	254	508	399.41	17/05/20215Red Kite205:36254
2	17/05/2021	07:39	5	Red Kite	2	166	332	116.80	17/05/20215Red Kite207:39166
2	17/05/2021	07:39	5	Red Kite	2	299	598	71.25	17/05/20215Red Kite207:39299
2	17/05/2021	07:51	5	Red Kite	1	143	143	21.72	17/05/20215Red Kite107:51143
2	17/05/2021	07:52	5	Red Kite	2	72	144	6.77	17/05/20215Red Kite207:5272
2	17/05/2021	08:01	5	Red Kite	1	191	191	0.00	17/05/20215Red Kite108:01191
2	17/05/2021	08:13	5	Red Kite	13	274	3562	992.74	17/05/20215Red Kite1308:13274
2	17/05/2021	08:34	4	Red Kite	1	33	33	0.00	17/05/20214Red Kite108:3433
2	17/05/2021	09:17	4	Red Kite	2	59	118	0.00	17/05/20214Red Kite209:1759
2	17/05/2021	09:20	4	Red Kite	1	68	68	0.00	17/05/20214Red Kite109:2068
2	17/05/2021	09:24	4	Red Kite	1	111	111	42.40	17/05/20214Red Kite109:24111
2	17/05/2021	09:49	4	Red Kite	1	39	39	0.00	17/05/20214Red Kite109:4939

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	17/05/2021	10:21	4	Red Kite	1	17	17	0.00	17/05/20214Red Kite110:2117
2	17/05/2021	10:28	4	Red Kite	3	279	837	0.00	17/05/20214Red Kite310:28279
2	17/05/2021	11:04	4	Red Kite	1	56	56	0.00	17/05/20214Red Kite111:0456
2	17/05/2021	18:23	2	Red Kite	1	52	52	0.00	17/05/20212Red Kite118:2352
2	04/06/2021	11:34	3	Red Kite	1	111	111	4.34	04/06/20213Red Kite111:34111
2	04/06/2021	12:52	3	Red Kite	1	528	528	4.10	04/06/20213Red Kite112:52528
2	04/06/2021	13:08	3	Red Kite	3	351	1053	217.57	04/06/20213Red Kite313:08351
2	04/06/2021	13:31	3	Red Kite	1	136	136	96.54	04/06/20213Red Kite113:31136
2	04/06/2021	13:37	3	Red Kite	1	209	209	45.06	04/06/20213Red Kite113:37209
2	04/06/2021	14:24	3	Red Kite	1	202	202	102.49	04/06/20213Red Kite114:24202
2	04/06/2021	15:16	1	Red Kite	1	10	10	2.14	04/06/20211Red Kite115:1610
2	04/06/2021	15:54	1	Red Kite	1	127	127	42.27	04/06/20211Red Kite115:54127
2	04/06/2021	17:01	1	Red Kite	1	146	146	0.00	04/06/20211Red Kite117:01146
2	06/06/2021	13:54	4	Red Kite	1	103	103	2.78	06/06/20214Red Kite113:54103
2	06/06/2021	15:46	5	Red Kite	1	104	104	83.00	06/06/20215Red Kite115:46104
2	06/06/2021	15:51	5	Red Kite	1	602	602	261.73	06/06/20215Red Kite115:51602

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	06/06/2021	17:36	5	Red Kite	1	118	118	0.00	06/06/20215Red Kite117:36118
2	08/06/2021	07:36	2	Red Kite	1	232	232	78.86	08/06/20212Red Kite107:36232
2	08/06/2021	08:31	2	Red Kite	1	209	209	130.31	08/06/20212Red Kite108:31209
2	08/06/2021	08:57	2	Red Kite	1	379	379	234.16	08/06/20212Red Kite108:57379
2	08/06/2021	09:14	2	Red Kite	1	946	946	434.07	08/06/20212Red Kite109:14946
2	08/06/2021	09:57	2	Red Kite	1	479	479	345.00	08/06/20212Red Kite109:57479
2	08/06/2021	10:30	2	Red Kite	2	59	118	103.27	08/06/20212Red Kite210:3059
2	08/06/2021	11:01	2	Red Kite	1	54	54	42.02	08/06/20212Red Kite111:0154
2	08/06/2021	12:41	5	Red Kite	1	539	539	243.80	08/06/20215Red Kite112:41539
2	10/06/2021	14:49	3	Red Kite	1	486	486	113.22	10/06/20213Red Kite114:49486
2	10/06/2021	15:17	3	Red Kite	1	260	260	16.57	10/06/20213Red Kite115:17260
2	10/06/2021	15:30	3	Goshawk	1	26	26	6.47	10/06/20213Goshawk115:3026
2	10/06/2021	15:48	3	Red Kite	1	58	58	0.00	10/06/20213Red Kite115:4858
2	10/06/2021	16:08	3	Red Kite	1	83	83	0.00	10/06/20213Red Kite116:0883
2	10/06/2021	16:14	3	Goshawk	1	27	27	6.72	10/06/20213Goshawk116:1427
2	10/06/2021	16:18	3	Red Kite	1	147	147	91.65	10/06/20213Red Kite116:18147

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	10/06/2021	16:48	3	Red Kite	1	119	119	0.00	10/06/20213Red Kite116:48119
2	10/06/2021	16:53	3	Red Kite	2	58	116	54.34	10/06/20213Red Kite216:5358
2	10/06/2021	16:57	3	Red Kite	1	100	100	0.00	10/06/20213Red Kite116:57100
2	10/06/2021	17:18	3	Red Kite	1	312	312	10.36	10/06/20213Red Kite117:18312
2	18/07/2021	11:58	2	Red Kite	1	117	117	62.04	18/07/20212Red Kite111:58117
2	18/07/2021	12:40	2	Red Kite	1	66	66	61.88	18/07/20212Red Kite112:4066
2	18/07/2021	12:45	2	Red Kite	1	337	337	267.19	18/07/20212Red Kite112:45337
2	18/07/2021	13:21	2	Red Kite	1	220	220	181.22	18/07/20212Red Kite113:21220
2	18/07/2021	13:46	2	Red Kite	1	66	66	39.19	18/07/20212Red Kite113:4666
2	18/07/2021	14:03	2	Red Kite	1	57	57	26.25	18/07/20212Red Kite114:0357
2	18/07/2021	14:35	2	Red Kite	1	79	79	34.00	18/07/20212Red Kite114:3579
2	18/07/2021	14:55	2	Red Kite	1	60	60	2.61	18/07/20212Red Kite114:5560
2	18/07/2021	15:06	2	Red Kite	1	292	292	180.84	18/07/20212Red Kite115:06292
2	18/07/2021	15:33	2	Red Kite	1	42	42	3.21	18/07/20212Red Kite115:3342
2	18/07/2021	16:18	2	Red Kite	1	265	265	167.14	18/07/20212Red Kite116:18265
2	18/07/2021	16:42	2	Red Kite	1	90	90	71.83	18/07/20212Red Kite116:4290

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	18/07/2021	17:04	2	Red Kite	2	359	718	304.61	18/07/20212Red Kite217:04359
2	20/07/2021	10:40	4	Red Kite	1	319	319	23.96	20/07/20214Red Kite110:40319
2	20/07/2021	13:26	5	Red Kite	1	113	113	20.84	20/07/20215Red Kite113:26113
2	20/07/2021	14:33	5	Red Kite	1	358	358	292.17	20/07/20215Red Kite114:33358
2	20/07/2021	14:34	5	Red Kite	1	33	33	18.89	20/07/20215Red Kite114:3433
2	20/07/2021	14:57	5	Red Kite	1	138	138	97.43	20/07/20215Red Kite114:57138
2	20/07/2021	15:25	5	Red Kite	1	95	95	75.94	20/07/20215Red Kite115:2595
2	20/07/2021	15:42	5	Red Kite	1	68	68	13.67	20/07/20215Red Kite115:4268
2	20/07/2021	15:49	5	Red Kite	1	63	63	46.71	20/07/20215Red Kite115:4963
2	20/07/2021	16:49	5	Red Kite	1	234	234	15.28	20/07/20215Red Kite116:49234
2	23/07/2021	11:53	1	Red Kite	2	168	336	10.00	23/07/20211Red Kite211:53168
2	23/07/2021	11:59	1	Red Kite	1	44	44	0.00	23/07/20211Red Kite111:5944
2	23/07/2021	12:03	1	Red Kite	1	60	60	0.00	23/07/20211Red Kite112:0360
2	23/07/2021	12:10	1	Red Kite	2	43	86	0.00	23/07/20211Red Kite212:1043
2	23/07/2021	12:24	1	Red Kite	1	23	23	14.61	23/07/20211Red Kite112:2423
2	23/07/2021	12:32	1	Hobby	1	113	113	80.54	23/07/20211Hobby112:32113

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	23/07/2021	12:43	1	Red Kite	1	243	243	193.31	23/07/20211Red Kite112:43243
2	23/07/2021	13:48	1	Red Kite	1	55	55	1.45	23/07/20211Red Kite113:4855
2	23/07/2021	14:44	1	Red Kite	2	61	122	65.76	23/07/20211Red Kite214:4461
2	23/07/2021	14:56	1	Red Kite	1	34	34	8.67	23/07/20211Red Kite114:5634
2	23/07/2021	15:03	1	Red Kite	1	78	78	0.00	23/07/20211Red Kite115:0378
2	23/07/2021	15:18	1	Red Kite	2	135	270	2.00	23/07/20211Red Kite215:18135
2	23/07/2021	16:11	1	Red Kite	1	84	84	22.97	23/07/20211Red Kite116:1184
2	23/07/2021	16:42	1	Red Kite	1	57	57	15.30	23/07/20211Red Kite116:4257
2	23/07/2021	18:15	3	Red Kite	1	46	46	0.00	23/07/20213Red Kite118:1546
2	23/07/2021	20:31	3	Goshawk	1	62	62	0.00	23/07/20213Goshawk120:3162
2	24/07/2021	07:53	3	Red Kite	3	347	1041	33.90	24/07/20213Red Kite307:53347
2	24/07/2021	08:04	3	Red Kite	2	47	94	1.65	24/07/20213Red Kite208:0447
2	24/07/2021	09:37	3	Red Kite	1	243	243	11.13	24/07/20213Red Kite109:37243
2	24/07/2021	09:56	3	Red Kite	1	576	576	35.59	24/07/20213Red Kite109:56576
2	11/08/2021	11:07	3	Red Kite	1	565	565	130.80	11/08/20213Red Kite111:07565
2	11/08/2021	12:59	3	Red Kite	1	99	99	92.81	11/08/20213Red Kite112:5999

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	11/08/2021	12:59	3	Red Kite	1	180	180	168.75	11/08/20213Red Kite112:59180
2	12/08/2021	13:31	5	Red Kite	1	78	78	14.51	12/08/20215Red Kite113:3178
2	12/08/2021	14:27	5	Red Kite	1	241	241	68.00	12/08/20215Red Kite114:27241
2	12/08/2021	17:29	2	Red Kite	1	172	172	20.88	12/08/20212Red Kite117:29172
2	13/08/2021	12:54	5	Red Kite	1	317	317	53.45	13/08/20215Red Kite112:54317
2	13/08/2021	13:31	5	Red Kite	1	152	152	59.84	13/08/20215Red Kite113:31152
2	13/08/2021	13:57	5	Red Kite	1	246	246	5.92	13/08/20215Red Kite113:57246
2	13/08/2021	Not noted	4	Red Kite	1	50	50	46.88	13/08/20214Red Kite1Not noted50
2	13/08/2021	Not noted	4	Red Kite	1	13	13	0.00	13/08/20214Red Kite1Not noted13
2	13/08/2021	Not noted	4	Red Kite	1	28	28	8.40	13/08/20214Red Kite1Not noted28
2	13/08/2021	Not noted	4	Red Kite	1	199	199	154.71	13/08/20214Red Kite1Not noted199
2	13/08/2021	Not noted	4	Red Kite	1	484	484	4.50	13/08/20214Red Kite1Not noted484
2	13/08/2021	Not noted	4	Red Kite	1	201	201	45.70	13/08/20214Red Kite1Not noted201
2	13/08/2021	Not noted	4	Hobby	1	6	6	2.61	13/08/20214Hobby1Not noted6
2	14/08/2021	12:56	1	Red Kite	1	201	201	0.00	14/08/20211Red Kite112:56201
2	14/08/2021	13:06	1	Red Kite	2	128	256	0.00	14/08/20211Red Kite213:06128

Year	Date	Time	VP number	Species	Number	Duration (s)	Total duration (s)	Duration at PCH within viewshed and turbine envelop	Flight ID
2	14/08/2021	13:12	1	Red Kite	1	316	316	0.00	14/08/20211Red Kite113:12316
2	14/08/2021	13:13	1	Red Kite	2	130	260	0.00	14/08/20211Red Kite213:13130