

ANNEX D. ORNITHOLOGICAL SURVEY RESULTS

This annex has been prepared as part of the Value of Leven Wind Farm Additional Information (AI) Report and replaces Table D1 of Annex D of Technical Appendix 7.1 of the Value of Leven Environmental Impact Assessment (EIA) Report. It presents updated flight activity of target species recorded inside and outside the Collision Risk Analysis Area (CRAA), that results from a change in the turbine specification of the Amended Development i.e. change in reduction in turbine hub height from 164 m to 134 m.

All other baseline ornithological information presented within Sections D.2-6 of Annex D of Technical Appendix 7.1 of the Vale of Leven EIA Report remains unchanged and therefore valid.

D.1 Flight Activity Records: Target Species

In accordance with NatureScot guidance (2017), target species are those which may be considered to be at risk from the potential effects of wind farms. All flights of target species within the turbine area and the surrounding area were mapped and are detailed in **Table D-1**.

Table D-1 Details of target species recorded during flight activity surveys (sorted by species)

Date	Observer	VP	Flight start time	Species	No. of birds	Duration (s)	Inside CRAA (seconds)					Outside CRAA (seconds)				
							0-20m	21-40m	41-100m	101-150m	>150m	0-20m	21-40m	41-100m	101-150m	>150m
22/03/2019	PN	1	1039	Whooper swan	21	85	0.00	7.50	7.50	22.49	5.00	0.00	7.50	7.50	22.51	5.00
28/03/2019	PN	1	1154	Goshawk	1	80	0.00	0.00	0.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
28/03/2019	PN	1	1308	Goshawk	1	45	0.00	0.00	0.00	0.00	0.00	0.00	45.00	0.00	0.00	0.00
28/03/2019	JR	3	0736	Pink-footed goose	63	43	0.00	0.00	0.00	34.39	0.00	0.00	0.00	0.00	8.61	0.00
28/03/2019	JR	3	1106	Goshawk	1	152	13.99	57.82	55.95	13.99	0.00	1.01	4.18	4.05	1.01	0.00
12/04/2019	AH	3	1146	Goshawk	1	200	6.68	6.68	55.67	20.04	0.00	8.32	8.32	69.33	24.96	0.00
16/05/2019	PN	2	0901	Black grouse	1	11	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20/05/2019	JR	3	0723	Osprey	1	105	0.25	1.49	0.00	0.00	0.00	14.75	88.51	0.00	0.00	0.00
20/05/2019	JR	3	0728	Herring gull	1	40	12.97	21.62	0.00	0.00	0.00	2.03	3.38	0.00	0.00	0.00
18/06/2019	RTW	2	1136	Osprey	1	324	0.00	0.00	179.87	48.67	0.00	0.00	0.00	75.13	20.33	0.00
18/06/2019	RTW	2	1421	Herring gull	3	143	0.00	7.81	29.41	0.00	0.00	0.00	22.19	83.59	0.00	0.00
18/06/2019	RTW	2	1443	Herring gull	2	129	0.00	59.45	0.00	0.00	0.00	0.00	69.55	0.00	0.00	0.00
19/06/2019	RTW	1	1114	Osprey	1	72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00	0.00	0.00
19/06/2019	RTW	1	1319	Herring gull	7	266	0.00	0.00	109.83	0.00	0.00	0.00	0.00	156.17	0.00	0.00
20/06/2019	RTW	3	0703	Herring gull	11	138	0.00	0.00	117.08	0.00	0.00	0.00	0.00	20.92	0.00	0.00
20/06/2019	RTW	3	1107	Herring gull	3	164	0.00	0.00	164.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20/06/2019	RTW	3	1158	Herring gull	6	110	0.00	0.00	85.49	0.00	0.00	0.00	0.00	24.51	0.00	0.00
16/07/2019	RTW	1	1134	Herring gull	3	132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00	0.00
16/07/2019	RTW	1	1354	Herring gull	4	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.00	45.00	0.00
17/07/2019	RTW	2	1347	Herring gull	17	145	0.00	0.00	81.69	0.00	0.00	0.00	0.00	63.31	0.00	0.00
17/07/2019	RTW	2	1532	Herring gull	3	162	0.00	0.00	56.61	0.00	0.00	0.00	0.00	105.39	0.00	0.00
19/07/2019	RTW	3	1058	Herring gull	7	126	0.00	0.00	56.13	0.00	0.00	0.00	0.00	69.87	0.00	0.00
12/08/2019	JR	1	0929	Osprey	1	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.00	0.00	0.00
12/08/2019	JR	1	1307	Osprey	1	127	0.00	0.00	0.00	0.00	0.00	15.00	112.00	0.00	0.00	0.00
15/08/2019	JR	2	1128	Osprey	1	155	14.38	21.57	21.57	16.78	0.00	15.62	23.43	23.43	18.22	0.00
15/08/2019	JR	2	1337	Osprey	1	97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.00	37.00	0.00
19/09/2019	AM	2	1504	Golden plover	12	64	0.00	19.00	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29/09/2019	AM	3	1246	Pink-footed goose	75	96	0.00	0.00	0.00	0.00	43.58	0.00	0.00	0.00	0.00	52.42
29/09/2019	AM	3	1344	Pink-footed goose	60	115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	115.00
29/09/2019	AM	3	1400	Pink-footed goose	130	220	0.00	0.00	0.00	0.00	86.17	0.00	0.00	0.00	0.00	133.83
29/09/2019	AM	3	1457	Pink-footed goose	86	130	0.00	0.00	0.00	0.00	49.19	0.00	0.00	0.00	0.00	80.81
30/10/2019	JR	1	0848	Pink-footed goose	12	102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.00	57.00	0.00
6/11/2019	JR	3	0926	Goshawk	1	61	31.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/2019	JR	3	0934	Hen harrier	1	450	450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18/12/2019	PN	2	1221	Hen harrier	1	11	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18/12/2019	PN	2	1221	Hen harrier	1	3	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Date	Observer	VP	Flight start time	Species	No. of birds	Duration (s)	Inside CRAA (seconds)					Outside CRAA (seconds)				
							0-20m	21-40m	41-100m	101-150m	>150m	0-20m	21-40m	41-100m	101-150m	>150m
18/12/2019	PN	2	1227	Hen harrier	1	75	30.45	20.30	0.00	0.00	0.00	14.55	9.70	0.00	0.00	0.00
18/12/2019	PN	2	1335	Greylag goose	4	140	0.00	0.00	0.00	0.00	46.83	0.00	0.00	0.00	0.00	93.17
4/02/2020	JRM	1	1108	Goshawk	1	38	0.00	0.00	0.00	0.00	0.00	0.00	38.00	0.00	0.00	0.00
18/02/2020	PN	2	1059	Hen harrier	1	16	4.53	0.00	0.00	0.00	0.00	11.47	0.00	0.00	0.00	0.00
02/03/2020	PN	1	1122	Hen harrier	1	60	0.00	0.00	0.00	0.00	0.00	30.00	30.00	0.00	0.00	0.00
02/03/2020	JRM	3	1046	Hen harrier	1	2	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

