

Appendix to Chapter 8: Biodiversity

Appendix 8.5: Hen Harrier Surveys at Upperchurch Windfarm 2015 – 2017

The data and descriptions in this appendix have informed the cumulative evaluations in the EIA Main Report.

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A8-5.1 Upperchurch Windfarm 2015 to 2017 Survey Background

Ecopower Developments commissioned Joe Adamson (independent bird surveyor) to undertake Hen Harrier surveys between March 2015 to April 2017. Joe is a graduate of the Royal Society of Chemistry in Applied Chemistry and has a MSc. in Environmental Resource Management. He is a full member of the Chartered Institute of Ecology and Environmental Management (MCIEEM) since 2010. Joe Adamson is an Ecologist, working in the energy sector since 1997, mainly on natural gas pipelines and windfarms, in a range of disciplines, including ornithological surveys & ecological surveys. Joe has over 40 years of field observation experience of birds and has worked on over 75 windfarms throughout Ireland, conducting ornithological surveys.

A8-5.2 Upperchurch Windfarm 2015 to 2017 Survey Results

Table 1: Breeding Season (Summer) 2015 Hen Harrier Sighting Notes

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
2	26/03/2015	Nil Sightings						
3	26/03/2015	Nil Sightings						
1	27/03/2015	Nil Sightings						
2	27/03/2015	Nil Sightings						
2	27/03/2015	Hen Harrier	Male (Adult)	11:42	Wet Heath	120 sec	Foraging	First observed over heath. Started to circle, gaining height, flying in a N.W direction.
2	27/03/2015	Hen Harrier	Male (Adult)	11:42	Wet Heath	125 sec	Soaring	First observed over heath. Started to circle, gaining height, flying in a N.W direction.
2	27/03/2015	Hen Harrier	Male (Adult)	11:42	Sitka Spruce	20	Soaring	First observed over heath. Started to circle, gaining height, flying in a N.W direction.
2	27/03/2015	Hen Harrier	Female (Adult)	14:48	Conifer Plantation	15	Foraging	Foraging along path/track, very low
3	28/03/2015	Nil Sightings						
4	28/03/2015	Nil Sightings						
1	29/03/2015	Nil Sightings						
4	29/03/2015	Nil Sightings						
2	16/04/2015	Nil Sightings						
3	16/04/2015	Nil Sightings						
1	17/04/2015	Nil Sightings						
2	17/04/2015	Nil Sightings						
3	17/04/2015	Nil Sightings						
1	18/04/2015	Nil Sightings						

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
4	18/04/2015	Nil Sightings						
5	18/04/2015	Nil Sightings						
4	19/04/2015	Nil Sightings						
5	19/04/2015	Hen Harrier	Female (Adult)	11:33	Diciduous Forestry	7 sec	Foraging	Observes briefly flying over brow of hill at edge of diciduous forestry
3	27/05/2015	Nil Sightings						
4	27/05/2015	Nil Sightings						
1	28/05/2015	Nil Sightings						
5	28/05/2015	Nil Sightings						
2	29/05/2015	Nil Sightings						
3	29/05/2015	Nil Sightings						
4	30/05/2015	Nil Sightings						
5	30/05/2015	Nil Sightings						
1	31/05/2015	Nil Sightings						
2	31/05/2015	Nil Sightings						
1	17/06/2015	Nil Sightings						
2	17/06/2015	Nil Sightings						
2	18/06/2015	Nil Sightings						
3	18/06/2015	Nil Sightings						
1	19/06/2015	Nil Sightings						
3	19/06/2015	Nil Sightings						
4	20/06/2015	Nil Sightings						
5	20/06/2015	Nil Sightings						
4	21/06/2015	Nil Sightings						
5	21/06/2015	Nil Sightings						
2	20/07/2015	Nil Sightings						

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
5	20/07/2015	Nil Sightings						
1	21/07/2015	Nil Sightings						
2	21/07/2015	Nil Sightings						
3	21/07/2015	Nil Sightings						
4	22/07/2015	Nil Sightings						
5	22/07/2015	Nil Sightings						
1	23/07/2015	Nil Sightings						
4	23/07/2015	Nil Sightings						
3	24/07/2015	Nil Sightings						
2	23/08/2015	Nil Sightings						
3	23/08/2015	Nil Sightings						
1	24/08/2015	Nil Sightings						
2	24/08/2015	Nil Sightings						
1	25/08/2015	Nil Sightings						
3	25/08/2015	Nil Sightings						
4	26/08/2015	Nil Sightings						
5	26/08/2015	Nil Sightings						
4	27/08/2015	Nil Sightings						
5	27/08/2015	Nil Sightings						

Table 2: Breeding Season (Summer) 2015 Hen Harrier Survey Results (Time Date and Weather Conditions)

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
2	26/03/2015	JA	DRY	OVERCAST	EXCELLENT	F2-3	NW	8	1000	1300	3H
3	26/03/2015	JA	DRY	OVERCAST	EXCELLENT	F2-3	NW	10	1330	1630	3H
1	27/03/2015	JA	OCC. SHOWERS	OVERCAST	GOOD	F3	SE	8	1540	1840	3H
2	27/03/2015	JA	SQUALLS	OVERCAST	GOOD	F2-3	SE	8	0900	1200	3H
2	27/03/2015	JA	OCC. SHOWERS	OVERCAST	EXCELLENT	F3	SE	8	1230	1530	3H
3	28/03/2015	JA	HEAVY SQUALLS	OVERCAST	GOOD	F3-4	W	8	1320	1620	3H
4	28/03/2015	JA	HEAVY SQUALLS	OVERCAST	GOOD	F3-4	W	10	1000	1300	3H
1	29/03/2015	JA	OCC. SHOWERS	OVERCAST	GOOD	F2-3	SW	10	0900	1200	3H
4	29/03/2015	JA	OCC. SHOWERS	OVERCAST	GOOD	F2-3	SW	10	1230	1530	3H
2	16/04/2015	JA	NONE	SUNNY	EXCELLENT	F2-3	SE	12	1330	1630	3H
3	16/04/2015	JA	NONE	SUNNY	EXCELLENT	F2-3	SE	10 TO 12	1000	1300	3H
1	17/04/2015	JA	NONE	NONE	GOOD	F1	NE	14	1530	1830	3H
2	17/04/2015	JA	NONE	SOME	CLEAR	F1	NE	8	0900	1200	3H
3	17/04/2015	JA	NONE	SOME	EXCELLENT	F1	NE	12	1215	1515	3H
1	18/04/2015	JA	NONE	NONE	GOOD	F4	E	6	1215	1515	3H
4	18/04/2015	JA	NONE	NONE	EXCELLENT	F4	E	7	1530	1830	3H
5	18/04/2015	JA	NONE	LITTLE	EXCELLENT	F4	E	6	0900	1200	3H
4	19/04/2015	JA	NONE	NONE	EXCELLENT	F1-2	E	15	1330	1630	3H
5	19/04/2015	JA	NONE	NONE	EXCELLENT	F1-2	E	12	1000	1300	3H
3	27/05/2015	JA	HEAVY	NONE	GOOD	F4-5	SW	10	1300	1600	3H
4	27/05/2015	JA	HEAVY	NONE	OKAY	F4	SW	10	0930	1230	3H
1	28/05/2015	JA	FREQUENT SQUALLS	NONE	GOOD	F4-5	NW	8	0930	1230	3H
5	28/05/2015	JA	FREQUENT SQUALLS	NONE	GOOD	F4-5	NW	9	1245	1545	3H
2	29/05/2015	JA	HEAVY	NONE	GOOD	F4	NW	8 TO 10	0900	1200	3H
3	29/05/2015	JA	NONE	CLEAR	EXCELLENT	F4	NW	10	1215	1515	3H

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
4	30/05/2015	JA	NONE	SUNNY	GOOD	F2-3	SW	12	1245	1545	3H
5	30/05/2015	JA	NONE	CLOUDY AT TIMES	GOOD	F2-3	SW	12 TO 13	0930	1230	3H
1	31/05/2015	JA	NONE	SUNNY	GOOD	F3	SW	14	1250	1550	3H
2	31/05/2015	JA	NONE	SUNNY	GOOD	F2-3	SW	12 TO 13	0930	1230	3H
1	17/06/2015	JA	NONE	SUNNY	EXCELLENT	F3	SW	13	1000	1300	3H
2	17/06/2015	JA	NONE	CLEAR	EXCELLENT	F3	SW	14	1315	1515	2H
2	18/06/2015	JA	NONE	CLEAR	EXCELLENT	F2-3 VEERING F3-4	SW TO W	18 TO 19	1000	1200	2H
3	18/06/2015	JA	NONE	HAZY	GOOD	F3-4	W	19 TO 20	1300	1600	3H
1	19/06/2015	JA	NONE	OVERCAST	GOOD	F2-3	SW	18 TO 19	0930	1230	3H
3	19/06/2015	JA	NONE	SUNNY	GOOD	F2-3	SW	18	1245	1545	3H
4	20/06/2015	JA	NONE	SUNNY THEN CLOUDY	EXCELLENT	F2-3	SW	15	0930	1230	3H
5	20/06/2015	JA	NONE	SUNNY, SOME CLOUD	CLEAR	F3	SW	18	1300	1600	3H
4	21/06/2015	JA	NONE	SUNNY, SOME CLOUD	GOOD	F2-3	SW	15	1000	1300	3H
5	21/06/2015	JA	NONE	CLEAR	EXCELLENT	F2-3	SW	16	1300	1600	3H
2	20/07/2015	JA	OCC. SQUALLS	OVERCAST	GOOD	F3-4	SW	14	0930	1230	3H
5	20/07/2015	JA	OCC. SQUALLS	OVERCAST	GOOD	F3-4	SW	14	1300	1600	3H
1	21/07/2015	JA	OCC. SQUALLS	SOME CLOUD	EXCELLENT	F5	WSW	12	1215	1515	3H
2	21/07/2015	JA	OCC. SQUALLS	CLOUDY	EXCELLENT	F4-5	W	12	1515	1815	3H
3	21/07/2015	JA	OCC. SQUALLS	SOME CLOUD	GOOD	F4-5	WSW	10	0900	1200	3H
4	22/07/2015	JA	NONE	OVERCAST	GOOD	F3	NW	15	1230	1530	3H
5	22/07/2015	JA	NONE	CLOUDY	GOOD	F2-3	NW	15	0930	1230	3H
1	23/07/2015	JA	OCC. SHOWERS	OVERCAST	GOOD	F2-3	NW	14	1000	1300	3H
4	23/07/2015	JA	SHOWERY	OVERCAST	GOOD	F3-4	NW	14 TO 15	1330	1630	3H
3	24/07/2015	JA	NONE	CLOUDY AT TIMES	GOOD	F2	SW	14 TO 15	0930	1230	3H
2	23/08/2015	JA	CONTINUOUS SQUALLS	OVERCAST	GOOD	F2-3	SW	16	1000	1300	3H
3	23/08/2015	JA	SQUALLS	NONE	GOOD	F2-3	SW	16	1330	1630	3H
1	24/08/2015	JA	NONE	CLEAR	EXCELLENT	F4	NW	15	1330	1630	3H

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
2	24/08/2015	JA	OCC. DRIZZLE	OVERCAST	GOOD	F3	NW	15	1000	1300	3H
1	25/08/2015	JA	HEAVY RAIN	DULL	POOR AT TIMES	AT F2-3	SW	12	0930	1230	3H
3	25/08/2015	JA	HEAVY RAIN	NONE	GOOD	F2	SW	12	1300	1600	3H
4	26/08/2015	JA	NONE	SUNNY, OCC. CLOUD	EXCELLENT	F4	SW	15	1245	1545	3H
5	26/08/2015	JA	NONE	SUNNY, SOME CLOUD	CLEAR	F3-4	SW	15	0930	1230	3H
4	27/08/2015	JA	NONE	SUNNY. CLOUDY AT TIMES	GOOD	F3-4	SW	15	1300	1600	3H
5	27/08/2015	JA	NONE	SUNNY	CLEAR	F3-4	SW		0930	1230	3H

Table 3: Non-Breeding Season (Winter) 2015 Hen Harrier Sighting Notes

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
1	17/09/2015	Nil Sightings						
2	15/09/2015	Nil Sightings						
3	15/09/2015	Nil Sightings						
2	16/09/2015	Nil Sightings						
3	16/09/2015	Nil Sightings						
5	17/09/2015	Nil Sightings						
1	18/09/2015	Nil Sightings						
4	18/09/2015	Nil Sightings						
4	19/09/2015	Nil Sightings						
5	19/09/2015	Nil Sightings						
4	20/10/2015	Nil Sightings						
2	21/10/2015	Nil Sightings						
3	21/10/2015	Nil Sightings						
4	22/10/2015	Nil Sightings						
1	29/10/2015	Nil Sightings						
5	29/10/2015	Nil Sightings						
1	30/10/2015	Nil Sightings						
2	30/10/2015	Nil Sightings						
3	31/10/2015	Nil Sightings						
5	31/10/2015	Nil Sightings						
1	11/11/2015	Nil Sightings						
2	12/11/2015	Nil Sightings						
4	13/11/2015	Nil Sightings						
5	13/11/2015	Nil Sightings						
1	25/11/2015	Nil Sightings						
3	25/11/2015	Nil Sightings						
2	26/11/2015	Nil Sightings						
3	26/11/2015	Nil Sightings						

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
4	27/11/2015	Nil Sightings						
5	27/11/2015	Nil Sightings						
2	11/12/2015	Nil Sightings						
3	11/12/2015	Nil Sightings						
5	12/12/2015	Nil Sightings						
4	13/12/2015	Nil Sightings						
5	13/12/2015	Nil Sightings						
1	22/12/2015	Nil Sightings						
2	22/12/2015	Nil Sightings						
3	22/12/2015	Nil Sightings						
4	23/12/2015	Nil Sightings						
2	14/01/2016	Nil Sightings						
3	14/01/2016	Nil Sightings						
2	15/01/2016	Nil Sightings						
4	15/01/2016	Nil Sightings						
1	16/01/2016	Nil Sightings						
5	16/01/2016	Nil Sightings						
1	17/01/2016	Nil Sightings						
3	17/01/2016	Nil Sightings						
1	26/01/2016	Nil Sightings						
3	26/01/2016	Nil Sightings						
2	27/01/2016	Nil Sightings						
4	27/01/2016	Nil Sightings						
5	27/01/2016	Nil Sightings						
1	11/02/2016	Nil Sightings						
3	11/02/2016	Nil Sightings						
4	12/02/2016	Nil Sightings						
5	12/02/2016	Nil Sightings						
2	16/02/2016	Nil Sightings						

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
3	16/02/2016	Nil Sightings						
1	17/02/2016	Nil Sightings						
4	17/02/2016	Nil Sightings						
5	17/02/2016	Nil Sightings						
2	18/02/2016	Nil Sightings						

Table 4: Non-Breeding Season (Winter) 2015 Hen Harrier Survey Results (Time Date and Weather Conditions)

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
1	17/09/2015	JA	NONE	SOME CLOUD	EXCELLENT	F2-2	SW	12	0930	1230	3H
2	15/09/2015	JA	NONE	CLOUDY	GOOD	< F1	NW	17 TO 18	1100	1400	3H
3	15/09/2015	JA	NONE	OVERCAST	GOOD	F1	NW	15	1405	1705	3H
2	16/09/2015	JA	NONE	LOW CLOUD AT TIMES	GOOD	F2-3	N	10	0930	1230	3H
3	16/09/2015	JA	NONE	BRIGHT, OCC. CLOUD	GOOD	F2-3	N	10	1235	1535	3H
5	17/09/2015	JA	NONE	SOME CLOUD	EXCELLENT	F2	SW	11 TO 12	1300	1600	3H
1	18/09/2015	JA	HEAVY RAIN	NONE	POOR AT TIMES	AT F3-4	SW	14	1000	1300	3H
4	18/09/2015	JA	HEAVY RAIN	NONE	POOR	F3-4	SW	12	1330	1630	3H
4	19/09/2015	JA	NONE	SUNNY, CLOUDY AT TIMES	GOOD	F3-4	SW	14	1330	1630	3H
5	19/09/2015	JA	NONE	SUNNY, SOME CLOUD	GOOD	F3-4	SW	15	1000	1300	3H
4	20/10/2015	JA	MISTY, CLEARING AT TIMES	NONE	GOOD	F3-4	SW	9 TO 10	1300	1600	3H
2	21/10/2015	JA	HEAVY MISTY RAIN	NONE	POOR	F3-4	SW	10	1000	1300	3H
3	21/10/2015	JA	HEAVY MISTY RAIN	NONE	POOR	F3-4	SW	10	1315	1615	3H
4	22/10/2015	JA	NONE	BRIGHT AT TIMES, OVERCAST	GOOD	F4	NW	9	1000	1300	3H
1	29/10/2015	JA	NONE	SUNNY	GOOD	F1 BECOMING F3-4	SW	9	0930	1230	3H
5	29/10/2015	JA	NONE	SUNNY	GOOD	F3-4	SW	8 TO 9	1245	1545	3H
1	30/10/2015	JA	NONE	SOME SUN	GOOD	F4	SW	8	0930	1230	3H
2	30/10/2015	JA	NONE	BRIGHT	GOOD	F4	SW	8	1240	1540	3H
3	31/10/2015	JA	NONE	OVERCAST, CLOUDY, CLEAR	GOOD	F3-4	SW	8	0930	1230	3H
5	31/10/2015	JA	NONE	OVERCAST, CLOUDY, CLEAR	GOOD	F3-4	SW	8	1240	1540	3H
1	11/11/2015	JA	SHOWERS	DULL	GOOD	F3-4 OCC. 4-5	SW	8	1310	1610	3H
2	12/11/2015	JA	SHOWERS	DULL, OVERCAST	GOOD	F5-6	SW	7 TO 8	1000	1200	2H
4	13/11/2015	JA	SHOWERS	DULL	GOOD	F4-5	SW	9	1310	1610	3H

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
5	13/11/2015	JA	NONE	DULL, OVERCAST	GOOD	F4-5	SW	8 TO 9	1000	1300	3H
1	25/11/2015	JA	FREQUENT SHOWERS	SUNNY	GOOD	F4-5	W	10	0930	1230	3H
3	25/11/2015	JA	FREQUENT SHOWERS	SUNNY	GOOD	F4-5	W	10	1245	1545	3H
2	26/11/2015	JA	DENSE MIST, OCC. DRIZZLE	NONE	POOR	F2	W	9 TO 10	1000	1300	3H
3	26/11/2015	JA	MIST, CLEARING AT TIMES	NONE	GOOD	F2	W	9 TO 10	1315	1515	2H
4	27/11/2015	JA	MISTY RAIN, CLEARING LATER	NONE	POOR	F2-3	W	9 TO 10	1245	1545	3H
5	27/11/2015	JA	MISTY RAIN, CLEARING AT TIMES	NONE	POOR AT TIMES	AT F2-3	W	8 TO 9	0930	1230	3H
2	11/12/2015	JA	NONE	BRIGHT, SUNNY	GOOD	F2-3	SE	7 TO 8	0930	1230	3H
3	11/12/2015	JA	NONE	BRIGHT, SUNNY	GOOD	F2-3	SE	7 TO 8	1240	1540	3H
5	12/12/2015	JA	PERSISTENT SQUALLS	NONE	GOOD	F2-3	SW	9 TO 10	1210	1510	3H
4	13/12/2015	JA	WET	CLOUDY, DULL	GOOD	F3-4	SW	9 TO 10	1240	1540	3H
5	13/12/2015	JA	WET	CLOUDY, DULL	GOOD	F3-4	SW	9 TO 10	0930	1230	3H
1	22/12/2015	JA	OCC. HEAVY DRIZZLE	OVERCAST	GOOD	F3-4	S-SW	7 TO 8	0900	1100	2H
2	22/12/2015	JA	OCC. DRIZZLE	OVERCAST, BRIGHT SPELLS	GOOD	F4-5	S-SW	6 TO 8	1100	1300	2H
3	22/12/2015	JA	DRY	BRIGHT, SOME CLOUD	GOOD		S-SW	6 TO 7	1300	1500	2H
4	23/12/2015	JA	NONE	BRIGHT, SUNNY	GOOD	F2-3	SW	6 TO 7	1310	1610	3H
2	14/01/2016	JA	FROST ON GROUND	BRIGHT, OVERCAST	GOOD	F3-4	WNW	4	1100	1300	2H
3	14/01/2016	JA	OCC. DRIZZLE	BRIGHT, SOME CLOUD	GOOD	F4	WNW	4	1305	1505	2H
2	15/01/2016	JA	NONE	SUNNY, CLEAR	GOOD	F3-4	SE	4 TO 5	1215	1415	2H
4	15/01/2016	JA	NONE	SUNNY, CLEAR	GOOD	F3	NW	4 TO 5	1405	1605	2H
1	16/01/2016	JA	NONE	FOGGY AT FIRST, CLEAR	GOOD	F1-2	SE	5	1000	1200	2H
5	16/01/2016	JA	NONE	BRIGHT	GOOD	F1-2	SE	5	1420	1620	2H
1	17/01/2016	JA	NONE	FOGGY, LIFTING AT TIMES	GOOD	F1-2	SE	5 TO 6	0930	1230	3H
3	17/01/2016	JA	NONE	FOGGY, LIFTING AT TIMES	GOOD	F1-2	SE	5	1240	1540	3H
1	26/01/2016	JA	CONTINUOUS RAIN	NONE	GOOD	F3-4	SW	7 TO 8	0930	1030	1H

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
3	26/01/2016	JA	PERSISTENT RAIN	NONE	GOOD	F3-4	SW		1040	1140	1H
2	27/01/2016	JA	OCC. SQUALLS	NONE	GOOD	F3-4	NW	8 TO 9	1140	1340	2H
4	27/01/2016	JA	DRY	CLEAR	GOOD	F3-4	NW	8 TO 9	1400	1600	2H
5	27/01/2016	JA	OCC. SQUALLS	NONE	GOOD	F3-4	NW	8 TO 9	0930	1130	2H
1	11/02/2016	JA	OCC. LIGHT SHOWERS	BRIGHT, SUNNY	GOOD	F1	SE	6 TO 7	0900	1200	3H
3	11/02/2016	JA		BRIGHT, SUNNY	GOOD	F1-2	SE	8 TO 9	1230	1530	3H
4	12/02/2016	JA	OCC. SHOWER	DULL, OVERCAST	GOOD	F2	SW	8 TO 9	0930	1230	3H
5	12/02/2016	JA	NONE	DULL, OVERCAST	GOOD	F3	SW	8 TO 9	1300	1600	3H
2	16/02/2016	JA	HEAVY PERSISTENT RAIN	NONE	POOR AT TIMES	AT GALE FORCE	SE	10	1000	1300	3H
3	16/02/2016	JA	HEAVY PERSISTENT RAIN	NONE	GOOD	GALE FORCE	SE	10	1315	1615	3H
1	17/02/2016	JA	HEAVY RAIN AT TIMES	NONE	POOR AT TIMES	AT F2-3	SW	7 TO 8	0900	1200	3H
4	17/02/2016	JA	NONE	SUNNY, CLEAR	GOOD	F2-3	SW	7 TO 8	1230	1630	4H
5	17/02/2016	JA	HEAVY SHOWER AT 1300	BRIGHT, SUNNY	GOOD	F1	SW	8 TO 9	1230	1530	3H
2	18/02/2016	JA	NONE	BRIGHT, SUNNY	GOOD	F1-2	W	6 TO 7	0900	1200	3H

Table 5: Breeding Season (Summer) 2016 Hen Harrier Sighting Notes

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
1	26/03/2016	Nil Sightings						
1	26/03/2016	Nil Sightings						
1	27/03/2016	Nil Sightings						
4	27/03/2016	Nil Sightings						
4	28/03/2016	Nil Sightings						
3	30/03/2016	Nil Sightings						
5	30/03/2016	Nil Sightings						
2	31/03/2016	Nil Sightings						
4	06/04/2016	Nil Sightings						
2	08/04/2016	Nil Sightings						
3	27/04/2016	Nil Sightings						
5	27/04/2016	Nil Sightings						
1	28/04/2016	Nil Sightings						
3	28/04/2016	Nil Sightings						
5	28/04/2016	Nil Sightings						
1	29/04/2016	Nil Sightings						
2	29/04/2016	Nil Sightings						
4	29/04/2016	Nil Sightings						
2	11/05/2016	Nil Sightings						
3	11/05/2016	Nil Sightings						
1	12/05/2016	Nil Sightings						
4	13/05/2016	Nil Sightings						
2	14/05/2016	Nil Sightings						
3	14/05/2016	Nil Sightings						
4	27/05/2016	Nil Sightings						

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
5	27/05/2016	Nil Sightings						
1	28/05/2016	Nil Sightings						
5	29/05/2016	Nil Sightings						
1	07/06/2016	Nil Sightings						
3	07/06/2016	Nil Sightings						
2	08/06/2016	Nil Sightings						
1	09/06/2016	Hen Harrier	Male (Adult)	12:35	Semi-improved Agricultural Grassland	180sec	Foraging	Observed for a total of 180sec at various heights
5	09/06/2016	Nil Sightings						
2	10/06/2016	Nil Sightings						
3	10/06/2016	Nil Sightings						
4	15/06/2016	Nil Sightings						
4	17/06/2016	Nil Sightings						
5	17/06/2016	Nil Sightings						
1	19/07/2016	Nil Sightings						
3	19/07/2016	Nil Sightings						
1	20/07/2016	Nil Sightings						
3	20/07/2016	Nil Sightings						
2	21/07/2016	Nil Sightings						
4	21/07/2016	Nil Sightings						
2	22/07/2016	Nil Sightings						
5	22/07/2016	Nil Sightings						
4	23/07/2016	Nil Sightings						
5	23/07/2016	Nil Sightings						
3	08/08/2016	Nil Sightings						
4	08/08/2016	Nil Sightings						
2	09/08/2016	Nil Sightings						

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
2	10/08/2016	Nil Sightings						
3	11/08/2016	Nil Sightings						
4	11/08/2016	Nil Sightings						
1	16/08/2016	Nil Sightings						
5	16/08/2016	Nil Sightings						
1	17/08/2016	Nil Sightings						
5	17/08/2016	Nil Sightings						

Table 6: Breeding Season (Summer) 2016 Hen Harrier Survey Results (Time Date and Weather Conditions)

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
1	26/03/2016	JA	FREQUENT SHOWERS	OVERCAST	GOOD	F3-4	SW	10	1200	1500	3H
1	26/03/2016	JA	FREQUENT SHOWERS	OVERCAST	GOOD	F3-4	SW	10	0845	1145	3H
1	27/03/2016	JA	FREQUENT HAIL SHOWERS	BRIGHT AT TIMES	GOOD	F5	SSW	10	0930	1230	3H
4	27/03/2016	JA	FREQUENT HAIL SHOWERS	BRIGHT	GOOD	F5-6	SSW	8 TO 9	1300	1600	3H
4	28/03/2016	JA	FREQUENT SHOWERS	BRIGHT, SUNNY	GOOD	F3-4	SW	10	0900	1200	3H
3	30/03/2016	JA	OCC. SHOWERS	SUNNY	GOOD	F3-4	SW		1240	1540	3H
5	30/03/2016	JA	FREQUENT HAIL SHOWERS	SUNNY	GOOD	F3-4	SW	8 TO 9	0930	1230	3H
2	31/03/2016	JA	NONE	BRIGHT, SUNNY	GOOD	F2-3	SW	12	1240	1540	3H
4	06/04/2016	JA	FREQUENT HAIL	CLEAR AT TIMES	GOOD	F4-5 (GALE FORCE AT TIMES)	NW	6 TO 8	1545	1845	3H
2	08/04/2016	JA	NONE	OVERCAST	GOOD	F2-3	SW	9	1230	1530	3H
3	27/04/2016	JA	OCC. HEAVY HAIL SHOWER	SOME CLOUD	GOOD	F3-4	NW	8	0900	1200	3H
5	27/04/2016	JA	NONE	SOME CLOUD	GOOD	F3-4	NW	10	1300	1600	3H
1	28/04/2016	JA	CONTINUOUS SQUALLS	OVERCAST	POOR AT TIMES	F4-5	WSW	8 TO 9	1530	1830	3H
3	28/04/2016	JA	OCC. SQUALLS	NONE	GOOD	F5 OCC -5-6	WSW	7 TO 8	1215	1515	3H
5	28/04/2016	JA	OCC. SQUALLS, DRIZZLE	OVERCAST	GOOD	F4-5	SW	8 TO 9	0900	1200	3H
1	29/04/2016	JA	OCC. SHOWERS	OVERCAST	GOOD	F4-5	NW	6 TO 7	0900	1200	3H
2	29/04/2016	JA	OCC. SHOWERS	OVERCAST	GOOD	F3-4	NW		1530	1830	3H
4	29/04/2016	JA	OCC. SHOWERS	OVERCAST	GOOD	F3-4	NW	6 TO 7	1215	1515	3H
2	11/05/2016	JA	NONE	HAZY	GOOD	F1-2	N	12	1500	1800	3H
3	11/05/2016	JA	NONE	HAZY	GOOD	F1-2	N	12	1130	1430	3H
1	12/05/2016	JA	NONE	OVERCAST	FAIR	F2-3	NE	10	1000	1300	3H
4	13/05/2016	JA	NONE	CLOUDLESS, SUNNY	GOOD	F1-2	NE	10	0930	1230	3H
2	14/05/2016	JA	NONE	CLOUD	GOOD	F2-3	NE	10	1300	1600	3H
3	14/05/2016	JA	NONE	CLOUDY AT TIMES	GOOD	F1-2	NE	9 TO 10	0930	1230	3H
4	27/05/2016	JA	NONE	SUNNY	EXCELLENT	F2-3	NE	12	1000	1300	3H

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
5	27/05/2016	JA	NONE	OVERCAST	GOOD	F2-3	NE	13	1330	1630	3H
1	28/05/2016	JA	NONE	CLOUDY WITH HAZE	GOOD	F1	NE	12	1000	1300	3H
5	29/05/2016	JA	NONE	SUNNY	GOOD	F3-4	NE	17	1300	1600	3H
1	07/06/2016	JA	NONE	CLEAR	GOOD	F1-2	SW	17 TO 18	1000	1300	3H
3	07/06/2016	JA	NONE	CLEAR, SUNNY	GOOD	F1-2	SW	20	1330	1630	3H
2	08/06/2016	JA	NONE	FOG THEN SUNSHINE	GOOD	F1-2	SW	12	1000	1300	3H
1	09/06/2016	JA	RAIN AT 1300	OVERCAST THEN BRIGHTER	GOOD	F1-2	SW	12	1000	1300	3H
5	09/06/2016	JA	SLIGHT DRIZZLE AT 1430	SUNNY, SOME CLOUD	GOOD	F2	S	15 TO 17	1315	1615	3H
2	10/06/2016	JA	RAIN, CLEARING AT TIMES	OVERCAST	GOOD	F2	SE	12	0900	1200	3H
3	10/06/2016	JA	RAIN, CLEARING AT TIMES	OVERCAST	GOOD	F2	SE	12	1215	1515	3H
4	15/06/2016	JA	OCC. SHOWERS	BRIGHT	GOOD	F3-4	NW	15	1200	1500	3H
4	17/06/2016	JA	NONE	OVERCAST	GOOD	F3-4	N	8 TO 10	1245	1545	3H
5	17/06/2016	JA	NONE	OVERCAST	GOOD	F3-4	N	10	0930	1230	3H
1	19/07/2016	JA	NONE	SUNNY, OCC. CLOUD	GOOD	F2-3	E	25 TO 26	1200	1500	3H
3	19/07/2016	JA	NONE	SUNNY, CLOUDY SPELLS	GOOD	F2-3	E	30	1530	1830	3H
1	20/07/2016	JA	NONE	SUNNY, SOME CLOUD	EXCELLENT	F2-3	SW	15	0900	1200	3H
3	20/07/2016	JA	OCC. LIGHT SHOWER	CLOUDY SPELLS	GOOD	F3-4	SW	15 TO 16	1220	1520	3H
2	21/07/2016	JA	NONE	HAZY	GOOD	F3-4	S	12	0930	1230	3H
4	21/07/2016	JA	NONE	OVERCAST	GOOD	F4	S	12 TO 15	1245	1545	3H
2	22/07/2016	JA	RAIN AT 1400	OVERCAST, CLOUDY	GOOD	F2-3	NW	15	1240	1540	3H
5	22/07/2016	JA	OCC. LIGHT DRIZZLE	CLOUDY AT TIMES	GOOD	F2-3	NW	10	0930	1230	3H
4	23/07/2016	JA	MISTY	OVERCAST	FAIR	F2	W	14	1245	1545	3H
5	23/07/2016	JA	DRIZZLE	OVERCAST, FOG AT TIMES	GOOD	F1-2	W	12	0930	1230	3H
3	08/08/2016	JA	OCC. SQUALLS	SUNNY	GOOD	F3-4	NW	17 TO 18	1530	1830	3H
4	08/08/2016	JA	OCC. SQUALLS	SUNNY	GOOD	F3-4	NW	17 TO 18	1200	1500	3H
2	09/08/2016	JA	NONE	OCC. CLOUD	GOOD	F4-5	NW	10 TO 12	1015	1315	3H

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
2	10/08/2016	JA	OCC. LIGHT SQUALLS	OVERCAST	GOOD	F4-5	NW	10	0930	1230	3H
3	11/08/2016	JA	NONE	OVERCAST	GOOD	F2-3	SW	15	1300	1600	3H
4	11/08/2016	JA	OCC. LIGHT DRIZZLE	OVERCAST	GOOD	F2-3	W	14 TO 15	0930	1230	3H
1	16/08/2016	JA	NONE	SUNNY	GOOD	F1-2	SE	20 TO 22	1600	1900	3H
5	16/08/2016	JA	NONE	SUNNY	GOOD	F1-2	SE	17 TO 20	1230	1530	3H
1	17/08/2016	JA	OCC. DRIZZLE	OVERCAST, HAZY	GOOD	F1-2 OCC. 1-2	E	15 TO 17	1000	1300	3H
5	17/08/2016	JA	NONE	OVERCAST, HAZY	GOOD	F1-2 OCC. 3-4	E	17	1330	1630	3H

Table 7: Non-Breeding Season (Winter) 2016 Hen Harrier Sighting Notes

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
4	21/09/2016	Nil Sightings						
5	21/09/2016	Nil Sightings						
1	22/09/2016	Nil Sightings						
1	23/09/2016	Nil Sightings						
5	23/09/2016	Nil Sightings						
4	27/09/2016	Nil Sightings						
2	27/09/2016	Nil Sightings						
2	28/09/2016	Nil Sightings						
3	28/09/2016	Nil Sightings						
5	29/10/2016	Nil Sightings						
2	29/10/2016	Nil Sightings						
4	30/10/2016	Nil Sightings						
3	30/10/2016	Nil Sightings						
3	31/10/2016	Nil Sightings						
1	31/10/2016	Nil Sightings						
2	01/11/2016	Nil Sightings						

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
1	01/11/2016	Nil Sightings						
4	01/11/2016	Nil Sightings						
4	02/11/2016	Nil Sightings						
2	02/11/2016	Nil Sightings						
3	02/11/2016	Nil Sightings						
1	24/11/2016	Nil Sightings						
5	24/11/2016	Nil Sightings						
1	25/11/2016	Nil Sightings						
5	25/11/2016	Nil Sightings						
2	26/11/2016	Nil Sightings						
3	26/11/2016	Nil Sightings						
4	27/11/2016	Nil Sightings						
3	29/11/2016	Nil Sightings						
2	29/11/2016	Nil Sightings						
4	30/11/2016	Nil Sightings						
3	01/12/2016	Nil Sightings						
2	01/12/2016	Nil Sightings						

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
5	12/12/2016	Nil Sightings						
1	12/12/2016	Nil Sightings						
4	13/12/2016	Nil Sightings						
5	13/12/2016	Nil Sightings						
4	14/12/2016	Nil Sightings						
1	14/12/2016	Nil Sightings						
4	28/12/2016	Nil Sightings						
2	29/12/2016	Nil Sightings						
3	29/12/2016	Nil Sightings						
4	30/12/2016	Nil Sightings						
2	30/12/2016	Hen Harrier	Female (Adult)	12:49	Wet Grassland / Conifer Edge	190 sec	Foraging	Less than 5 meters above ground Hunting down through the valley
2	30/12/2016	Hen Harrier	Female (Adult)	12:49	Acid Grassland	50 sec	Foraging	Less than 5 meters above ground Hunting down through the valley
3	03/01/2017	Nil Sightings						
2	25/01/2017	Nil Sightings						
3	25/01/2017	Nil Sightings						
5	26/01/2017	Nil Sightings						

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
5	26/01/2017	Nil Sightings						
4	26/01/2017	Nil Sightings						
4	27/01/2017	Nil Sightings						
1	27/01/2017	Hen Harrier	Female (Adult)	10:45	Grassland and Conifer edge	360	Commuting & Hunting	Flew across valley then started to hunt over rough pasture circling field and edge of small conifer planting until lost from view. 6 mins total 2 mins hunting (less that 10 m above ground)
5	28/01/2017	Nil Sightings						
4	29/01/2017	Nil Sightings						
1	29/01/2017	Nil Sightings						
2	30/01/2017	Nil Sightings						
2	31/01/2017	Nil Sightings						
3	31/01/2017	Nil Sightings						
5	27/02/2017	Nil Sightings						
3	27/02/2017	Nil Sightings						
5	28/02/2017	Nil Sightings						

VP Name	Date	Species	Sex	Time of sighting	Habitat	Duration (s)	Activity	Bird Notes
4	28/02/2017	Nil Sightings						
1	01/03/2017	Nil Sightings						
3	02/03/2017	Nil Sightings						
1	03/03/2017	Nil Sightings						
2	03/03/2017	Nil Sightings						
2	04/03/2017	Nil Sightings						
1	19/03/2017	Nil Sightings						
3	19/03/2017	Nil Sightings						
2	20/03/2017	Nil Sightings						
1	20/03/2017	Nil Sightings						
2	21/03/2017	Nil Sightings						
5	30/03/2017	Nil Sightings						
4	30/03/2017	Nil Sightings						
4	31/03/2017	Nil Sightings						
5	01/04/2017	Nil Sightings						
3	02/04/2017	Nil Sightings						

Table 8: Non-Breeding Season (Winter) 2016 Hen Harrier Survey Results

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
4	21/09/2016	JA	HEAVY AT TIMES	OVERCAST	FAIR TO POOR	F2-3	S	10	1130	1430	3H
5	21/09/2016	JA	HEAVY AT TIMES	BRIGHT	GOOD	F2-3	S	12	1500	1800	3H
1	22/09/2016	JA	HEAVY SHOWERS AT TIMES	SOME CLOUD COVER	GOOD	F1-2 UP TO F3-4	SW	5 TO 6	1000	1300	3H
1	23/09/2016	JA	NONE	OVERCAST BUT BRIGHT	GOOD	F4 OCC. F5	SW	6 TO 7	0930	1230	3H
5	23/09/2016	JA	NONE	OVERCAST BUT BRIGHT	EXCELLENT	F4-5	SW	6 TO 8	1245	1545	3H
4	27/09/2016	JA	NONE	BRIGHT, SOME HAZE	GOOD	F5-6	SW	14 TO 15	1100	1400	3H
2	27/09/2016	JA	NONE	BRIGHT, SOME HAZE	GOOD	F5-6	SW	15	1430	1730	3H
2	28/09/2016	JA	NONE	OVERCAST, BRIGHT, CLOUD	GOOD	F3-4	SW	10 TO 12	1000	1300	3H
3	28/09/2016	JA	NONE	OVERCAST, OCC. BRIGHT SPELLS	GOOD	F4-5 OCC. F5-6	SW	15	1330	1630	3H
5	29/10/2016	JA	NONE	SUNNY, SOME CLOUD	GOOD	F1-2	SW	8 TO 10	1100	1300	2H
2	29/10/2016	JA	NONE	BRIGHT, OVERCAST AT TIMES	GOOD	F1-2	SW	10 TO 13	1330	1630	3H
4	30/10/2016	JA	NONE	BRIGHT, SUNNY	GOOD	F1-2	S	12 TO 15	1330	1430	1H
3	30/10/2016	JA	NONE	BRIGHT, SUNNY	GOOD	F1-2	SW	8 TO 9	0900	1100	2H
3	31/10/2016	JA	NONE	OVERCAST, FOG	POOR	<F1	S	10	1115	1315	2H
1	31/10/2016	JA	NONE	HAZY, SOME SUN	GOOD	<F1	S	8 TO 10	0900	1100	2H
2	01/11/2016	JA	NONE	BRIGHT, SOME CLOUD	GOOD	F4	NE	6 TO 7	1045	1245	2H
1	01/11/2016	JA	NONE	OVERCAST, SOME BRIGHT SPELLS	GOOD	F3-4	ENE	6 TO 7	0830	1030	2H
4	01/11/2016	JA	NONE	BRIGHT, SUNNY, SOME CLOUD	GOOD	F3-4	NE	7 TO 8	1250	1450	2H
4	02/11/2016	JA	NONE	BRIGHT, SUNNY	GOOD	F1	NE	7	1215	1315	1H
2	02/11/2016	JA	NONE	BRIGHT, SUNNY, SOME CLOUD	GOOD	F1-2	NE	6 TO 7	0945	1045	1H

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
3	02/11/2016	JA	NONE	BRIGHT, SUNNY, SOME CLOUD	GOOD	F1-2	NE	6 TO 7	0830	0930	1H
1	24/11/2016	JA	NONE	BRIGHT, SUNNY	GOOD	F1-2	NE	4 TO 5	1000	1300	3H
5	24/11/2016	JA	NONE	BRIGHT, SUNNY	GOOD	F1-2	NE	4 TO 5	1320	1620	3H
1	25/11/2016	JA	NONE	DENSE FOG AT FIRST	GOOD	F1-2	NE	2 TO 3	0930	1230	3H
5	25/11/2016	JA	NONE	FOGGY	GOOD AT TIMES	AT F1-2	NE	2 TO 3	1245	1545	3H
2	26/11/2016	JA	NONE	SLIGHT FOG AT FIRST	GOOD	F2	NE	2 TO 3	1350	1550	2H
3	26/11/2016	JA	NONE	DENSE FOG AT FIRST	GOOD	F2	NE	1 TO 2	0930	1130	2H
4	27/11/2016	JA	NONE	OVERCAST BUT BRIGHT	GOOD	F1	NE	4	0930	1230	3H
3	29/11/2016	JA	NONE	BRIGHT, SUNNY	GOOD	<F1	SW	2	1000	1300	3H
2	29/11/2016	JA	NONE	BRIGHT, SUNNY, SOME CLOUD	GOOD	<F1	SW	3	1215	1415	2H
4	30/11/2016	JA	NONE	BRIGHT, CLOUDLESS	GOOD	<F1	SE	2	0930	1230	3H
3	01/12/2016	JA	NONE	BRIGHT, CLOUDLESS	GOOD	<F1	SE	-2/-3	0930	1130	2H
2	01/12/2016	JA	NONE	BRIGHT, SUNNY	GOOD	F1	SE	0	1345	1545	2H
5	12/12/2016	JA	NONE	BRIGHT, OVERCAST	EXCELLENT	F2	SW	7	1245	1545	3H
1	12/12/2016	JA	NONE	OVERCAST, DULL	GOOD	F3-4	SW	8	0930	1230	3H
4	13/12/2016	JA	MISTY	OVERCAST, DULL	GOOD	F2-3	SE	7	1215	1515	3H
5	13/12/2016	JA	NONE	BRIGHT, SUNNY	GOOD	F2-3	SE	6	0900	1200	3H
4	14/12/2016	JA	HEAVY SQUALLS	OVERCAST, DULL	POOR AT TIMES	AT F1-2	SE	13	1215	1515	3H
1	14/12/2016	JA	FREQUENT HEAVY SQUALLS	OVERCAST, DULL	POOR AT TIMES	AT F1-2	SE	12	0900	1200	3H
4	28/12/2016	JA	NONE	CLOUD 4/8, BRIGHT	GOOD	F1	SSW	8 TO 9	1010	1310	3H
2	29/12/2016	JA	NONE	CLOUD 8/8, OVERCAST	EXCELLENT	F1	S	8 TO 9	1215	1515	3H
3	29/12/2016	JA	NONE	OVERCAST	GOOD	<F1	SW	8	0900	1200	3H
4	30/12/2016	JA	NONE	OVERCAST, BRIGHT	GOOD	F1	SW	7 TO 10	0915	1215	3H
2	30/12/2016	JA	NONE	OVERCAST, CALM	GOOD	F1-2	SW	10 TO 11	1230	1530	3H

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
3	03/01/2017	JA	NONE	CLOUD 2/8, BRIGHT	GOOD	F1	WNW	6 TO 8	1235	1535	3H
2	25/01/2017	JA	RAIN AT FIRST CLEARING LATER	BRIGHT	GOOD	F4	SW VEERING S	9	0930	1230	3H
3	25/01/2017	JA	RAIN AT 1500	OVERCAST BUT BRIGHT	GOOD	F5-6	SSW	9 TO 10	1230	1530	3H
5	26/01/2017	JA	NONE	OVERCAST, HAZY	GOOD	G6-7 OC.	FORCE SE	5 TO 6	1215	1515	3H
5	26/01/2017	JA	NONE	DULL, OVERCAST	GOOD	F5 OCC. F5-6	SE	6	0900	1200	3H
4	26/01/2017	JA	FREQUENT HEAVY SQUALLS	BRIGHT	GOOD	F3-4	NW	3 TO 4	1000	1300	3H
4	27/01/2017	JA	NONE	BRIGHT BECOMING OVERCAST	GOOD	F1-2	SW	8	1245	1545	3H
1	27/01/2017	JA	HEAVY SHOWER AT FIRST CLEARING	NONE	GOOD	F1-2 THEN F3-4	SE TO SW	7	0930	1230	3H
5	28/01/2017	JA	NONE	BRIGHT, SUNNY	GOOD	F1-2	SW	6	0930	1230	3H
4	29/01/2017	JA	MISTY RAIN, OCC. CLEAR SPELLS	NONE	GOOD	F1-2	SE	9 TO 10	1000	1300	3H
1	29/01/2017	JA	MISTY RAIN, CLEARING LATER	NONE	GOOD	F1-2	SE	9 TO 10	1315	1615	3H
2	30/01/2017	JA	MISTY RAIN AT FIRST	NONE	GOOD	F3-4 OCC. F4-5	SE	10	1000	1300	3H
2	31/01/2017	JA	NONE	FOGGY AT FIRST, SUNNY	GOOD	F1-2	SE TO SW	10	1000	1300	3H
3	31/01/2017	JA	NONE	BRIGHT, CLOUDY AT TIMES	GOOD	F1-2	SW	8 TO 9	1310	1610	3H
5	27/02/2017	JA	OCC. SHOWERS	BRIGHT, OVERCAST	GOOD	F3-4	SW	3 TO 4	1230	1530	3H
3	27/02/2017	JA	OCC. SHOWERS	BRIGHT BECOMING OVERCAST	GOOD	F3-4	SW	3 TO 4	0900	1200	3H
5	28/02/2017	JA	HEAVY SQUALLS	CLEAR AT TIMES	GOOD	F5-6 FORCE	OC. GALE NW	2 TO 3	1230	1530	3H
4	28/02/2017	JA	FREQUENT HEAVY SQUALLS	DULL, OVERCAST	GOOD	F5-6	NW	2 TO 3	0900	1200	3H
1	01/03/2017	JA	NONE	BRIGHT THEN DULL OVERCAST	GOOD	F1-2	SW	3 TO 4	0900	1200	3H

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed (Bft)	Wind Direction	Temp (Deg C)	Start Time	End Time	Duration of survey (hrs)
3	02/03/2017	JA	MISTY RAIN AT TIMES	BRIGHT THEN OVERCAST	GOOD	F3-4	SE	4	0930	1230	3H
1	03/03/2017	JA	SHOWERY WITH SPELLS	CLEAR DULL, OVERCAST	GOOD	F3-4	SE	6 TO 7	1245	1545	3H
2	03/03/2017	JA	SHOWERY WITH SPELLS	CLEAR NONE	GOOD	F3-4	SE	6 TO 7	0930	1230	3H
2	04/03/2017	JA	DRIVING RAIN AT TIMES	CLEAR SPELLS	GOOD	F5-6	WNW	7 TO 8	1245	1545	3H
1	19/03/2017	JA	FREQUENT SHOWERS	BRIGHT SPELLS	GOOD	F5-6	S	12 TO 13	1030	1230	2H
3	19/03/2017	JA	SHOWERS	BRIGHT AT TIMES	GOOD	F5-6	S	13 TO 14	1345	1645	3H
2	20/03/2017	JA	SHOWERY, SOME HAIL	BRIGHT SPELLS	GOOD	F5	SW	8	1300	1600	3H
1	20/03/2017	JA	OCC. LIGHT SHOWER	BRIGHT, CLOUD AT TIMES	GOOD	F4-5 OCC 5-6	SW	9	0930	1230	3H
2	21/03/2017	JA	SLIGHT SNOW FLURRY	BRIGHTENING UP	GOOD	F4	SSW	2	0930	1230	3H
5	30/03/2017	JA	SHOWERY	DULL, OVERCAST	GOOD	F4-5	S	10	1430	1730	3H
4	30/03/2017	JA	FREQUENT RAIN	DULL, OVERCAST	GOOD	F4-5	S	10	1100	1400	3H
4	31/03/2017	JA	SHOWERY WITH SPELLS	BRIGHT OVERCAST AT TIMES	GOOD	F4-5	SW	10	0930	1230	3H
5	01/04/2017	JA	FREQUENT SQUALLS	BRIGHT	GOOD	F4-5	SW	8	0930	1230	3H
3	02/04/2017	JA	NONE	SOME CLOUD, SUNNY AFTER	GOOD	F2-3	SW	7 TO 8	0930	1230	3H