TOBIN

Rooaunalaghta Green Energy Project

Appendix 7-5

Survey Effort and Weather Conditions

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Chapter 7 Ornithology

Appendix 7-5: Survey Effort and Weather Conditions

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woodrow
APEM Group

The applicant:	Rooaunalaghta Green Energy Ltd.
Address:	Station Road, Adare, Limerick
Project reference:	P00016537
Date of issue:	October 2026
Project Director:	Gareth Coughlin
Project Manager:	James O'Connor
Authors:	Woodrow

Woodrow APEM Group
Upper Offices
Ballisodare Centre
Station Road
Ballisodare
Co. Sligo
F91 PE04
Ireland

Tel: +353 71 9140542
Web: www.woodrow.ie

Registered in Ireland No. 493496

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Vantage Point Survey Effort

Table 1: VP1 survey results non-breeding season 2022-23

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
18/09/2022	1	1	3.00	1045	None	MH	1	WSW	Good	8	15	Dry	light rain until 1101	None	None
22/09/2022	1	2	3.00	1615	K	MH	3	NW	Good	0-3	16-14	Damp	None	None	Some glare from sun, but not overly affecting VP
22/10/2022	1	3	3.00	1215	None	DR	2-5	SW	Mod-Good	8	13	Wet	Drizzle	None	Mist and drizzle
23/10/2022	1	4	3.00	845	None	DR	1-2	ESE	Mod-Good	8	11	Wet	Drizzle	None	None
08/11/2022	1	5	3.00	1215	L	DR	3-4	SW	Good	6-8	7-8	Wet	Drizzle	None	drizzle/low cloud base later on
22/11/2022	1	6	3.00	1015	None	DR	1-2	WNW-ESE	Good	4-7	8	Wet	None	None	None
06/12/2022	1	7	3.00	1045	CM, BH	DR	1-2	NE	Good	1	4	Damp	None	None	Glare early on
13/12/2022	1	8	3.00	1345	CM, BH	DR	1	NNE	Good	4-7	2	Frozen	None	None	None
10/01/2023	1	9	3.00	1100	None	DR	4-5	SW	Mod-Good	8	11	Damp	Drizzle	None	Low cloud in distance
11/01/2023	1	10	3.00	930	LB, BH	DR	2-4	SW	Mod-Good	5-8	6	Wet	Heavy showers	None	Low cloud at start
14/02/2023	1	11	3.00	1045	CM, BH	DR	2-4	SE	Good	5-7	10	Damp	None	None	None
15/02/2023	1	12	3.00	1300	None	DR	4-5	SW	Good	7-8	9	Damp	None	None	None

Table 2: VP2 survey results non-breeding season 2022-23

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
18/09/2022	2	1	3.00	1400	MA	MH	1	WSW	Good	8	15	Dry	None	None	None
23/09/2022	2	2	3.00	1015	LB, SN, K	MH	3	NW	Good	4-6	14	Damp	None	None	None
22/10/2022	2	3	3.00	1530	WS	DR	2-4	SW	Good	7-8	12	Damp	None	None	None
24/10/2022	2	4	3.00	1215	None	DR	1-2	SW	Good	5-6	13	Damp	None	None	None
10/11/2022	2	5	3.00	1200	None	DR	4-6	SSW	Good	8	14	Dry	None	None	None
23/11/2022	2	6	3.00	1200	BZ, BH	DR	2-6	SW	Good	4-8	7	Wet	Showers	None	None
07/12/2022	2	7	3.00	1200	SH	DR	1	N	Good	1	5	Dry	None	None	None
14/12/2022	2	8	3.00	1230	K, BZ, SN	DR	1	NE	Good	0-1	0	Frozen	None	None	None
11/01/2023	2	9	3.00	1245	None	DR	3-4	SW	Good	7-8	6	Wet	None	None	None
25/01/2023	2	10	3.00	1215	None	DR	1	N	Good	5-8	8	Damp	1 light shower	None	None
15/02/2023	2	11	3.00	945	CM, LB, BH	DR	2-4	SW	Good	5-7	9	Damp	None	None	None
16/02/2023	2	12	3.00	1300	CM	DR	1-2	SW	Mod-Good	8	11	Damp	Some drizzle	None	None

Table 3: VP3 survey results non-breeding season 2022-23

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
20/09/2022	3	1	3.00	645	GJ, CU, K	MH	3	S	Good	8	13	Dry	None	None	None
22/09/2022	3	2	3.00	1300	LB	MH	3-4	NW	Good	5	16	Damp	Isolated heavy shower	None	None
23/10/2022	3	3	3.00	1200	None	DR	1-2	SSE	Poor-Good	6-8	12	Damp	Rain for most of watch	None	Heavy rain at start, haze
24/10/2022	3	4	3.00	900	K	DR	1-2	WSW	Good	5-7	13	Damp	Drizzle at start	None	None
10/11/2022	3	5	3.00	845	None	DR	4-6	SSW	Good	7-8	13	Damp	None	None	None
23/11/2022	3	6	3.00	845	None	DR	1-2	SW	Good	5-8	7	Damp	Shower	None	None
07/12/2022	3	7	3.00	830	None	DR	1	N	Good	1-2	3	Damp	None	Tractor around 0930	Some glare early on
14/12/2022	3	8	3.00	915	CM	DR	1	NE	Good	0-1	-1	Frozen	None	None	None
10/01/2023	3	9	3.00	1415	BH	DR	2	SW	Mod-Good	7-8	8	Wet	Drizzle	None	Low cloud base
24/01/2023	3	10	3.00	1345	None	DR	0-1	SE	Good	7	8	Damp	Slight Drizzle	Dumper truck active in quarry for intermittent periods.	None
14/02/2023	3	11	3.00	1400	None	DR	4-5	SE	Good	7-8	12	Damp	None	Farmer working with digger in quarry	None
16/02/2023	3	12	3.00	915	None	DR	1-2	SW	Good	8	8	Wet	Some drizzle	None	None

Table 4: VP4 survey results non-breeding season 2022-23

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
19/09/2022	4	1	3.00	730	GJ, H, K, SN	MH	0	No wind	Mod-Good	7	11-13	Dry	None	None	Low lying patchy mist(reaching no more than 8m up) prior to 825
23/09/2022	4	2	3.00	1345	BZ, K, LB, CA	MH	4	NW	Good	5	14	Damp	None	None	None
11/10/2022	4	3	3.00	1245	K	DR	3-4	SW	Good	7-8	11	Damp	None	None	None
20/10/2022	4	4	3.00	945	WS H CM SH K	DR	2-3	SE	Good	2-6	11-13	Damp	None	None	None
09/11/2022	4	5	3.00	1215	K, MA, CM, HG, LB, BH	DR	4-5	SW	Good	5-8	11	Damp	Drizzle	None but flooding along river bank	None
24/11/2022	4	6	3.00	1200	LB	DR	3-5	SW	Good	6-8	8	Wet	Shower all day	None	None
08/12/2022	4	7	3.00	1215	CM, SH	DR	1-2	NNW-NNE	Good	3-5	3	Dry	None	2 guys with guns and dogs in field 1420	None
15/12/2022	4	8	3.00	900	None	DR	0-1	NW	Good	1	0	Frozen	None	None	None
19/01/2023	4	9	3.00	900	PE, H, HG, CM, BH, ET, CH, GB	AP	0-1	SW	Good	0-2	0-5	Damp	None	Hunters trying to get a fox, waited outside burrow	None
19/01/2023	4	10	3.00	1200	CM, ML, GB, SH, BH	AP	1-2	N-SW	Good	0-2	0-5	Damp	None	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
18/02/2023	4	11	3.00	1000	PE, GB, BH, K	AP	4-5	NW-W	Good	6-8	11	Damp	Light, sometimes	None	None
18/02/2023	4	12	3.00	1300	BH, GB, CA, L	AP	4-5	W	Good	4-7	11	Damp	Light sometimes	None	Drizzle

Table 5: VP5 survey results non-breeding season 2022-23

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
20/09/2022	5	1	3.00	1015	K, HG	MH	3	SSW	Good	8	15	Dry	None	None	None
11/10/2022	5	2	3.00	930	WS SH	DR	2-3	SW	Good	6-8	10	Damp	Dry. Occ drizzle	None	None
13/10/2022	5	3	3.00	1400	None	DR	1-4	SW	Mod-Good	3-6	13	Damp	Early drizzle	None	Low cloud early on
09/11/2022	5	4	3.00	915	SH, K	DR	1-4	SW	Good	2-7	8	Damp	Variable	None	None
24/11/2022	5	5	3.00	845	LB	DR	4-6	SW	Good	7-8	8	Wet	Light/heavy showers	None	None
08/12/2022	5	6	3.00	900	LB, SN, K, BH	DR	1	N-NNE	Mod	1-3	1	Damp	None	None	Low cloud at start
15/12/2022	5	7	3.00	1215	L	DR	0-1	NW	Good	0-1	1-2	Frozen	None	Tractor on field around 1230-1300	None
26/01/2023	5	8	3.00	930	K	AP	1-2	N	Good	5-8	7	Dry	None	None	None
26/01/2023	5	9	3.00	1230	K, MA, GB	AP	1-2	N	Good	7-8	7	Dry	None	None	None
07/02/2023	5	10	3.00	915	K, GJ, GB	AP	1	SW	Good	4-8	8-10	Damp	Brief drizzle	None	None
07/02/2023	5	11	3.00	1215	BH, K, GB	AP	1-2	SW	Good	1-7	8-10	Damp	None	None	None
23/02/2023	5	12	3.00	1015	BH, CM, K	JOC	2	NW	Mod	5	8-9	Damp	Showers	Farmer in field with tractor	Showers made for poor vis.

Table 6: VP6 survey results non-breeding season 2022-23

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
19/09/2022	6	1	3.00	1100	LB, PE, MA, CA	MH	3	SSW	Good	6	15-17	Dry	None	None	Slight glare looking to S
23/09/2022	6	2	3.00	645	CA	MH	0	No wind	Good	6	9	Damp	Isolated showers	None	None
13/10/2022	6	3	3.00	1045	MA	DR	1-2	SSW-SSE	Mod-Good	6-8	11	Damp	Occasional drizzle	None	Low visibility when drizzling
30/10/2022	6	4	3.00	1300	K	DR	2-4	SW	Good	5-7	12	Damp	Sporadic	None	None
08/11/2022	6	5	3.00	915	None	DR	1-2	SW	Mod-Good	6-8	8	Damp	Some dry spells	None	Low cloud for most of watch and drizzle
22/11/2022	6	6	3.00	1315	BH	DR	1-2	ESE-SSW	Good	3-4	7	Damp	None	None	None
06/12/2022	6	7	3.00	1345	None	DR	1	NNE-ENE	Good	1	6-7	Damp	None	None	None
13/12/2022	6	8	3.00	1030	CM, SN	DR	1	NE-ENE	Mod-Good	3-5	1	Frozen	None	None	None
20/01/2023	6	9	3.00	1015	CM, BH	JOC	3	SE	Mod	5-8	3-4	Damp	Mist	None	Mist in last hour
23/02/2023	6	10	3.00	1415	CM, GB, BH, MA	JOC	3-4	NW	Mod-Good	5-6	8-9	Damp	Light shower	Landowner came through with tractor	None
01/03/2023	6	11	3.00	930	BH, CM, MA, GB	AP	2	NE	Good	6-8	7-8	Dry	None	Groundwork 300m N from VP	None
01/03/2023	6	12	3.00	1230	CM, HG, BH	AP	2-3	NE	Good	6-8	7-8	Dry	None	None	None

Table 7: VP7 survey results non-breeding season 2022-23

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
19/09/2022	7	1	3.00	1430	LB	MH	3	SW	Good	5	17	Dry	None	None	None
30/11/2022	7	2	3.00	1115	H, SN, H, TU, MA	DL	2-4	S	Mod-Good	7-8	11	Damp	Light drizzle	None	Light drizzle
30/11/2022	7	3	1.00	1415	None	DL	2-3	S	Mod-Good	7-8	11	Damp	Light drizzle	None	Light drizzle
22/12/2022	7	4	3.00	945	MA, HG, T, BH, SN	JOC	1-2	SW	Mod	3-8	6	Damp	None	None	Fog and glare
22/12/2022	7	5	3.00	1300	Gull, BH, K, MA, WN	JOC	2	SW	Mod	2-4	7-8	Damp	None	None	Sun
19/01/2023	7	6	2.00	1000	MA, BH, CM,BZ	JOC	3	NW	Mod	1	4-5	Frozen	None	None	Sun and fog
19/01/2023	7	7	2.00	1200	SH, CM, MA	JOC	3	NW	Mod	2	6	Frozen	None	None	Sun and fog
03/02/2023	7	8	3.00	930	BH, WK, WN, MA, GB, CM,	AP	1-3	S	Good	0-7	10	Dry	None	None	None
03/02/2023	7	9	3.00	1230	WN	AP	3-4	SW	Good	0-7	10	Dry	None	None	None
22/02/2023	7	10	3.00	930	CM, MA, GB	JOC	3-4	NW	Mod	4-6	5-6	Damp	Showers	None	Rain and wind
22/02/2023	7	11	1.00	1230	CM	JOC	3-4	NW	Mod	4-8	5-6	Damp	Rain	None	Rain and darkness
22/02/2023	7	12	3.00	1400	WN, CM, LB	JOC	4	NW-N	Poor-Mod	3-8	7	Damp	Showers with hail	None	Glare from sun very strong for

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
															much of watch
14/03/2023	7	13	3.00	1115	SN, CM, GB, WN, MA, BH	AP	2-4	NE-N	Good	0-8	7-9	Damp	At times, showers	None	None
14/03/2023	7	14	3.00	1415	CM, GB, BZ	AP	3-4	N	Good	0-7	7-9	Damp	Brief rain	None	None

Table 8: VP1 survey results breeding season 2023

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
21/03/2023	1	1	3.00	830	WS, GB, Gull, LB, BH	AW	4	S	Good	7	10	Damp	Light drizzle	None	None
11/04/2023	1	2	3.00	1400	CM, LB	DR	1-3	SSW	Good	8	6	Wet	Constant rain/drizzle	None	None
13/04/2023	1	3	3.00	1130	CM, LB	DR	2-4	SW	Good	3-5	11	Wet	None	None	None
17/05/2023	1	4	3.00	1515	LB	DR	3	SW	Good	4-5	13	Dry	None	None	None
24/05/2023	1	5	3.00	1500	K	DR	2-4	NW	Good	6-7	14	Dry	None	None	None
06/06/2023	1	6	3.00	1315	BH LB	DR	2-4	N	Good	3	21	Dry	None	None	None
14/06/2023	1	7	3.00	1300	LB	DR	1-2	E	Good	1-2	22	Dry	None	None	None
17/07/2023	1	8	3.00	900	LB	DR	1-2	WSW	Good	4-7	15	Damp	Mostly dry, a few showers	None	None
22/07/2023	1	9	3.00	1200	BH	DR	1-2	N	Good	8	17	Damp	From 1315, occasionally	None	None
01/08/2023	1	10	3.00	1045	None	DR	2-3	SW	Good	5-7	15	Damp	Minor drizzle at start	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
29/08/2023	1	11	3.00	945	SH	DR	2-3	S	Good	4-5	15	Damp	None	None	None
11/09/2023	1	12	3.00	1500	None	DR	1-2	W	Mod	8	12	Damp	At start	None	None

Table 9: VP2 survey results breeding season 2023

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
22/03/2023	2	1	3.00	845	CM, LB, K, BZ	AW	5	SW	Good	6	8	Wet	Some showers	Landowner driving through fields	None
12/04/2023	2	2	3.00	1145	SH, CM	DR	3-5	NW	Mod-Good	7-8	3	Wet	Almost constant	None	None
27/04/2023	2	3	3.00	1200	CU	DR	1-2	SSE	Good	7-8	11	Damp	From 1400 Onwards	Heavy vehicles moving stones/rain	None
18/05/2023	2	4	3.00	915	K, LB	DR	2-4	S	Good	7-8	12	Dry	None	None	None
25/05/2023	2	5	3.00	830	None	DR	1-3	NW	Good	5-8	14	Dry	None	None	None
07/06/2023	2	6	3.00	1545	None	DR	2-3	NE	Good	2-3	15	Dry	None	None	None
15/06/2023	2	7	3.00	930	None	DR	1	N	Mod-Good	6-8	21	Dry	Occ. Light drizzle	None	Hazy at first
17/07/2023	2	8	3.00	1215	T	DR	1-2	SW	Good	7-8	17	Dry	Light occasional	None	None
21/07/2023	2	9	3.00	1115	H	DR	1-2	WSW	Good	8	16	Wet	Light drizzle	None	None
02/08/2023	2	10	3.00	1530	SH, MA	DR	2-4	SW	Good	7-8	12	Damp	None	None	None
29/08/2023	2	11	3.00	1300	None	DR	2-4	NW	Good	4-8	15	Damp	Occasional light	None	None
12/09/2023	2	12	3.00	1345	None	DR	2-4	NW	Good	4-6	16	Dry	None	None	None

Table 10: VP3 survey results breeding season 2023

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
29/03/2023	3	1	3.00	1545	LB, GB	AW	5	SW	Good	6	12	Damp	None	None	None
12/04/2023	3	2	3.00	1500	None	DR	3-4	NW	Good	7-8	7	Wet	Dry but some showers	None	None
27/04/2023	3	3	3.00	1515	None	DR	1-2	SSE	Good	8	9	Damp	Mostly light rain	None	None
17/05/2023	3	4	3.00	900	LB, K	DR	2	ESE	Good	2-6	12	Dry	None	None	None
24/05/2023	3	5	3.00	830	LB	DR	1-3	NW	Good	3-6	16	Dry	None	Quarry working from 855 onwards	None
07/06/2023	3	6	3.00	930	BH	DR	2-4	NE	Good	3-5	16	Dry	None	None	None
14/06/2023	3	7	3.00	1615	None	DR	2-3	E	Good	3-8	19	Damp	None	None	None
17/07/2023	3	8	3.00	1545	LB, K	DR	1-2	SW	Good	5-7	18	Dry	None	None	None
21/07/2023	3	9	3.00	1445	LB	DR	1-3	N	Good	7-8	15	Wet	Showers	None	None
01/08/2023	3	10	3.00	1500	K	DR	2-3	SW	Good	8	15	Damp	None	None	None
27/08/2023	3	11	3.00	1430	None	DR	3-4	NW	Good	4-6	13	Damp	None	None	None
10/09/2023	3	12	3.00	1515	K	DR	2-3	W	Good	5-6	20	Dry	None	None	None

Table 11: VP4 survey results breeding season 2023

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
30/03/2023	4	1	3.00	1145	PE, BH, MA, BZ	JOC	4	SW	Mod-Good	4-6	12-13	Damp	Showers	None	Rain showers
26/04/2023	4	2	3.00	1415	LB, H	DR	1-2	SE-SSE	Good	7-8	11	Damp	None	None	None
28/04/2023	4	3	3.00	930	None	DR	2-4	SW	Good	5-6	13	Damp	None	None	None
16/05/2023	4	4	3.00	1400	None	DR	1-2	NW	Good	2-3	16	Dry	None	None	None
23/05/2023	4	5	3.00	1415	K	DR	2-4	NW	Good	6-8	14	Dry	None	None	None
05/06/2023	4	6	3.00	1515	BH, SI, K	DR	2	E-SE	Good	2-3	22	Dry	None	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
13/06/2023	4	7	3.00	1030	PE, SI,	DR	1	NNE-NE	Good	18	19	Dry	Started at end of survey	None	None
16/07/2023	4	8	3.00	1330	SI, PE	DR	2-3	W	Good	6-7	17	Damp	Occasional showers	None	None
18/07/2023	4	9	3.00	900	SH, SI, PE	DR	1	NNE-ESE	Mod-Good	7-8	14	Damp	Some drizzle	None	A little misty at start unti 945
27/07/2023	4	10	3.00	1415	ET, PE, SI	JOC	3	W	Mod	6	16	Dry	Light shower	Farmer in and out with trailer	None
27/08/2023	4	11	3.00	1115	None	DR	3-4	NW	Good	4-7	15	Damp	Some showers / drizzle	None	None
10/09/2023	4	12	3.00	1145	PE	DR	1-2	WSW-W	Good	6-7	20	Dry	None	None	None

Table 12: VP5 survey results breeding season 2023

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
29/03/2023	5	1	3.00	1400	LB, HG, K, Gull, BH, CM	JOC	5	SW	Mod	4-7	12-13	Damp	Shower	Cars passing, some stopped to talk	Mostly wind
11/04/2023	5	2	3.00	1045	None	DR	1-3	SSW	Good	8	7	Wet	Constant	None	None
26/04/2023	5	3	3.00	1100	LB, CM	DR	1-2	SE	Good	7-8	11	Damp	None	None	None
16/05/2023	5	4	3.00	1045	LB	DR	1-2	W-NW	Good	2-4	15	Dry	None	None	None
23/05/2023	5	5	3.00	1100	LB, BH	DR	2-4	NW	Good	6-8	14	Dry	None	Farmer ploughing from 1210 onwards	None
05/06/2023	5	6	3.00	1200	LB, K	DR	2-3	NE	Good	2-3	18-23	Dry	None	None	None
15/06/2023	5	7	3.00	1600	None	DR	2-3	E	Good	2-4	18	Dry	None	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
16/07/2023	5	8	3.00	1030	PE	DR	1-3	W	Good	5-7	15	Damp	Light Occ showers	None	None
18/07/2023	5	9	3.00	1545	None	DR	1-2	N	Good	6-7	16	Dry	None	None	None
27/07/2023	5	10	3.00	1045	ET, PE	JOC	3	W	Mod	6	18	Dry	Light shower	Passer by stopped to talk	None
28/08/2023	5	11	3.00	1245	K, CU, BZ	DR	1-2	WSW-WNW	Good	8	17	Damp	None	None	None
11/09/2023	5	12	3.00	1145	None	DR	1-3	W	Mod-Good	8	14	Wet	Mosty drizzle	None	Misty drizzle

Table 13: VP6 survey results breeding season 2023

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
23/03/2023	6	1	3.00	1000	MA, BH, CM, BZ, LB, MS, CA	JOC	5	S	Mod	5-7	10-11	Wet	Showers	None	Wind & rain
03/05/2023	6	2	3.00	1230	LB	JOC	4	SE	Good	5	16-17	Dry	None	Machinery & surveyors at quarry	None
06/05/2023	6	3	3.00	900	LB	SD	3	SW	Good	8	13	Dry	None	Sheep in field	None
06/05/2023	6	4	2.50	1230	LB	SD	3	SW	Good	7	12	Dry	None	None	None
09/05/2023	6	5	3.00	1430	LB, MA	JOC	4	SW	Mod	3-5	14	Dry	None	Shearing of sheep, but disturbance minimal.	Wind & thermals
31/07/2023	6	6	3.00	800	LB	PC	2-3	SW	Good	7	12	Wet	Consistant light rain	None	None
31/07/2023	6	7	3.00	1130	LB	PC	2-3	SW	Poor	7	12	Wet	Consistant heavy rain	None	Heavy rain

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
02/08/2023	6	8	3.00	1215	SH, SI, LB, PE	DR	2-3	SW	Good	7-8	17	Damp	Some light rain	None	None
28/08/2023	6	9	3.00	915	None	DR	1-2	W-NW	Good	8	17	Damp	Mild drizzle (once)	None	None
29/08/2023	6	10	3.00	1300	K	BF	4	NW	Good	5	16	Damp	None	None	None
12/09/2023	6	11	3.00	1000	BZ	DR	1-3	NW	Good	4-5	15	Dry	None	None	None
12/09/2023	6	12	0.50	1300	None	DR	3	NW	Good	5	15	Dry	None	None	None

Table 14: VP7 survey results breeding season 2023

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
31/03/2023	7	1	2.00	1430	BH, LB, BZ, MA, K	JOC	3	W	Mod	6-7	10	Damp	Light shower	Some machine work in quarry	Some light shower
03/04/2023	7	2	3.00	1545	CM, LB, BH, MA	JOC	3-4	S	Mod	6	10-11	Damp	Shower	Some machine work in quarry	Southern wind
03/04/2023	7	3	1.00	1845	BH, LB	JOC	3	S	Mod	6	10-11	Damp	Shower	None	Southern wind
03/05/2023	7	4	3.00	1630	LB, MA	JOC	4	SE	Good	5	15-16	Dry	None	Machinery working until 1700	None
07/05/2023	7	5	3.00	900	LB, MA	SD	4	SW	Mod	7	10	Wet	None	None	Low cloud base
07/05/2023	7	6	2.50	1230	LB	SD	4	SW	Mod	8	11	Wet	Light drizzle 1230-1300 & 1400-1430 - otherwise no rain	None	Low cloud base

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
23/07/2023	7	7	3.00	700	LB, MA, BZ, SH, K, BH	PC	1	NW	Good	1	12	Wet	None	Machinery in use north of VP	None
23/07/2023	7	8	3.00	1030	BZ, SH, MA, K, BH	PC	1	NW	Good	1	12	Wet	None	None	None
02/08/2023	7	9	3.00	845	LB, H	DR	2-4	SW	Good	7-8	15	Damp	Drizzle at start	None	None
29/08/2023	7	10	3.00	900	K	BF	3	NW	Good	4	16	Damp	None	None	None
11/09/2023	7	11	3.00	830	MA, CU	DR	1	WNW-NNE	Good	8	12	Damp	Mostly drizzle	None	Drizzle
12/09/2023	7	12	3.00	1530	K	BF	3	NW	Good	4	20	Damp	None	None	None
13/09/2023	7	13	3.00	730	H	BF	3	SW	Good	8	11	Wet	Light, occasional to persistent	None	None

Table 15: VP1 survey results non-breeding season 2023-24

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
24/09/2023	1	1	3.00	1500	None	DR	3-4	SW	Mod-Good	7-8	14	Wet	Mostly continous	None	Rain limited visibilty most of time
12/10/2023	1	2	3.00	815	None	DR	0-1	N	Good	0-1	10	Damp	None	None	None
24/10/2023	1	3	3.00	1115	None	DR	1	SE	Good	6-8	12	Wet	Some drizzle	None	None
05/11/2023	1	4	3.00	730	GB, MA	AP	0-3	W	Good	0-5	7	Wet	Light at times	Road traffic behind but not major	Rain at times

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
05/11/2023	1	5	3.00	1030	GJ, WS, GB, GP, BZ, SH, L	AP	2-3	W	Good	3-6	7	Wet	Light at times	Road traffic behind but not major	Rain at times
22/01/2024	1	6	3.00	900	BH, CM	AW	6	W	Mod	5	6	Wet	Showers	Constant road traffic	Showers
22/01/2024	1	7	3.00	1230	CM, BH, GP	AW	5	W	Mod	5-6	5	Wet	Showers	Constant road traffic	Showers
25/01/2024	1	8	3.00	930	BH	DM	4	SW	Mod	8	11	Wet	Light and consistent	None	Dense cloud cover
25/01/2024	1	9	3.00	1300	BH	DM	4	SSW	Mod	7	11	Wet	Persistent light showers	Variable gusts	Low cloud cover
07/02/2024	1	10	3.00	745	CM, BH GB, L, GP	AP	0-1	N-NE	Good	2-5	2-11	Damp	None	None	None
07/02/2024	1	11	3.00	1045	CM, GB, BH, BZ	AP	1	NE	Good	5-8	2-11	Damp	None	None	None
07/03/2024	1	12	3.00	1300	K, GB, BH, CM, BZ	AP	4-5	SE	Good	2-4	11	Dry	None	None	Glare at times but not major

Table 16: VP2 survey results non-breeding season 2023-24

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
25/09/2023	2	1	3.00	1145	MA	DR	3-4	SW	Good	6-7	15	Damp	None	None	None
12/10/2023	2	2	3.00	1130	BZ	DR	0-1	E	Good	0-2	11	Damp	None	None	None
26/10/2023	2	3	3.00	830	SN, WS	DR	1	SE	Good	7-8	11	Wet	Mostly dry	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
07/11/2023	2	4	3.00	815	CM, L, GJ, SN	AP	1-3	W	Good	1-4	7-9	Damp	Brief and light	None	Early morning glare to SE
07/11/2023	2	5	3.00	1115	BZ, PE, GB	AP	2-3	W	Good	0-6	7-9	Damp	Brief and light	None	None
23/11/2023	2	6	3.00	1200	CM, K	JOC	3-4	W	Poor-Mod	5-6	11	Damp	Mist/drizzle	Dog constantly barking	Haze/mist
23/11/2023	2	7	1.00	1500	CM, BH	JOC	3-4	W	Poor-Mod	5-6	11	Damp	Mist/drizzle	Dog constantly barking. Jeep in field at 1520	Haze/mist
24/01/2024	2	8	3.00	1200	WS, BZ, HG, K, BH	DM	3	SW	Good	2	9	Damp	None	None	None
16/02/2024	2	9	3.00	900	CM, ML, GB, BZ, K	AP	3	W-SW	Good	4-8	11	Wet	None	None	Fog slightly at the beginning
16/02/2024	2	10	3.00	1200	CM, SN, BZ, GJ, GB, BH	AP	2	W	Good	5-8	11	Wet	Light and brief	None	None
07/03/2024	2	11	2.00	1130	BZ, K	KOR	4	S	Good	7	12	Dry	None	None	None
15/03/2024	2	12	3.00	845	CM, BZ, GB, SN, K	AP	2-3	N	Good	1-5	12	Damp	None	None	Glare at times to SE
15/03/2024	2	13	3.00	1145	CM, BZ, K, BH	AP	2	N	Good	3-6	12	Damp	None	None	None

Table 17: VP3 survey results non-breeding season 2023-24

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
26/09/2023	3	1	3.00	845	None	DR	2-3	SW	Good	2-5	13	Wet	Showers	None	None
11/10/2023	3	2	3.00	830	WG	DR	0-1	N	Good	6	10	Wet	None	Truck at 930 to collect stone from quarry	None
25/10/2023	3	3	3.00	815	K	DR	1-2	ESE	Mod-Good	8	7	Wet	None	None	Low cloud until 1000
15/11/2023	3	4	3.00	900	GP, SN	AP	2-3	W	Good	2-7	10-12	Damp	None	None	Glare initially
15/11/2023	3	5	3.00	1200	GP, K, GJ, MS	AP	1-3	W	Good	4-6	10-12	Damp	None	Farmer with car in buffer briefly	None
29/01/2024	3	6	3.00	930	K, BH, Gull	AW	2	N	Good	5	5	Damp	None	Farmer on quad bike	None
29/01/2024	3	7	3.00	1300	CM, Gull	AW	3	N	Good	1	7	Damp	None	Farmer on quad bike	None
20/02/2024	3	8	3.00	1045	BH, K, HG	DM	4	W-SW	Good	7	11	Wet	None	None	None
20/02/2024	3	9	3.00	1345	HG, BH, CM	DM	3-4	W	Good	2	11	Wet	None	None	None
24/02/2024	3	10	3.00	900	CM, GB, BH, BZ, K, ML	AP	2-3	NW	Good	0-3	9	Damp	No	Groundworks about 200m N from VP (not major)	Glare at times
24/02/2024	3	11	3.00	1200	BZ, CM, GP, GB, K	AP	1-3	NW	Good	2-5	9	Damp	No	Groundworks about 200m N from VP (not major)	Glare at times
10/03/2024	3	12	3.00	1045	CM, GB, BH, K	AP	2-3	N-NE	Good	7-8	7	Damp	Light rain at the start	None	None

Table 18: VP4 survey results non-breeding season 2023-24

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
24/09/2023	4	1	3.00	1115	BZ, PE	DR	1-2	SW	Mod	8	15	Wet	Constant	None	Low cloud/drizzle
10/10/2023	4	2	3.00	1115	PE	DR	1-3	S	Good	8	16	Wet	Drizzle mostly	None	None
26/10/2023	4	3	3.00	1145	PH, PE	DR	1	SE	Good	8	11	Damp	Light showers	None	None
23/11/2023	4	4	3.00	730	K, CM, MA, LB, CA	PC	3-5	SW	Good	8	12	Dry	None	None	None
23/11/2023	4	5	3.00	1100	MA, BZ, K, SH, PE, HG	PC	3-5	SW	Good	8	12	Dry	None	None	None
21/12/2023	4	6	3.00	800	PE, BZ, Gull	PC	5-9	NW	Good	8	11	Wet	Light showers	None	None
21/12/2023	4	7	3.00	1130	PE, GJ, CA, SH	PC	5-9	NW	Good	8	11	Wet	Light showers	None	None
01/01/2024	4	8	3.00	800	PE, CA	PC	3-5	SW	Mod	8	4	Wet	Light showers	None	None
01/01/2024	4	9	3.00	1130	K, CA, BZ	PC	3-5	SW	Mod	8	4	Wet	Light showers	None	None
26/02/2024	4	10	3.00	700	SH, CM	PC	1	NNW	Good	7	4	Frozen	None	None	None
27/02/2024	4	11	3.00	700	H, CA, PE	PC	1-3	SW	Good	8	9	Wet	Light showers	None	None
27/02/2024	4	12	3.00	1030	LB, CM, SH	PC	1-3	SW	Good	8	9	Wet	Light showers	None	None

Table 19: VP5 survey results non-breeding season 2023-24

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
25/09/2023	5	1	3.00	1500	K	DR	3-4	SW	Good	6-8	13	Damp	None	None	None
12/10/2023	5	2	3.00	1445	H	DR	0-1	SW	Good	1-2	1	Damp	None	None	None
26/10/2023	5	3	3.00	1445	K, CU	DR	1-2	SSW-SSE	Good	6-8	10	Wet	Sporadic drizzle/showers	None	None
24/11/2023	5	4	3.00	730	CA, MS, K	PC	1-2	NNW	Good	8	9	Dry	None	None	None
24/11/2023	5	5	3.00	1100	BH, CM, K	PC	1-2	NNW	Good	8	9	Dry	None	None	None
22/12/2023	5	6	3.00	800	BZ, WS, CA, GJ, GB, K	PC	5-8	NW	Good	8	9	Dry	None	None	None
22/12/2023	5	7	3.00	1130	BH, CA, K	PC	5-8	NW	Good	8	9	Dry	None	None	None
13/01/2024	5	8	3.00	800	GP, GJ, CA	PC	1-2	SW	Good	8	1	Dry	None	None	None
13/01/2024	5	9	3.00	1130	CA, H, BZ, SH, K, PE	PC	1-2	SW	Good	8	1	Dry	None	None	None
26/02/2024	5	10	3.00	1030	GJ, LB, CM	PC	1-2	NNW	Good	7	7	Dry	None	None	None
28/02/2024	5	11	3.00	700	LB	PC	3-5	SW	Mod	8	10	Wet	Light showers	None	None
28/02/2024	5	12	3.00	1030	LB, H	PC	3-5	SW	Mod	8	10	Wet	Light showers	None	None

Table 20: VP6 survey results non-breeding season 2023-24

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
22/09/2023	6	1	3.00	830	None	DL	4	NW	Mod-Good	4	13	Dry	None	None	Sun glare
11/10/2023	6	2	3.00	1130	CU, MS	DR	1-2	N-NNE	Good	7-8	17	Wet	None	None	None
24/10/2023	6	3	3.00	1430	None	DR	1-2	E-SE	Good	8	12	Wet	Drizzle at start	None	None
23/11/2023	6	4	3.00	830	K, LB	BF	3	W	Good	6	12	Damp	None	None	None
23/11/2023	6	5	3.00	1145	CN, CM, LB, HG	BF	3	W	Good	7	12	Damp	None	None	Overcast
04/12/2023	6	6	3.00	830	GP, BH, MS	AP	0-3	NW	Good	0-6	0-4	Frozen	Very brief	None	Glare but not much
04/12/2023	6	7	3.00	1130	BZ, GP, K, BH, CM, MS	AP	3	NW	Good	1-4	0-4	Frozen	None	Army helicopter through buffer at start	None
19/01/2024	6	8	3.00	900	GB, LB, HG, BH	BF	4	S	Good	4	2	Frozen	None	None	None
29/01/2024	6	9	3.00	1300	SN, LB, HG, BH	BF	2	N	Good	2	6	Wet	None	None	None
07/03/2024	6	10	3.00	1200	MA, BH, CM, LB, GB, HG	BF	4	SE	Good	5	10	Wet	None	None	None
08/03/2024	6	11	3.00	1015	MA, BH, CM,	BF	5	E	Good	5	7	Wet	None	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
					LB, GB, HG										
13/03/2024	6	12	3.00	815	MA, LB, BH, CM, H	BF	3	SW	Good	6	6	Wet	None	None	None

Table 21: VP7 survey results non-breeding season 2023-24

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
22/09/2023	7	1	3.00	1145	H, MA	DL	4	NNW	Mod-Good	2-7	13	Damp	Light rain	None	Rain
11/10/2023	7	2	3.00	1445	BZ, H, SN	DR	1	NNE	Good	6-7	13	Wet	None	None	None
25/10/2023	7	3	3.00	1500	MA, SV, T	DR	1	ESE-SE	Good	8	9	Wet	None	None	None
25/11/2023	7	4	3.00	930	TU, ML, MA, H, WN, SN, HG, BZ	AP	2	SE	Mod-Good	6-8	7	Dry	Once only brief	None	Fog at times
25/11/2023	7	5	3.00	1230	WS, H	AP	2-3	SE	Mod-Good	6-8	7	Dry	None	None	Fog at times
13/12/2023	7	6	3.00	845	WN, MA, GA, SN, CM, BH	AP	1-2	W-NW	Good	1-7	8-12	Damp	None	Cows in VP field	Glare to SE but not major

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
13/12/2023	7	7	3.00	1145	SH, H, BH, BZ, K, MS, ET	AP	2-3	W-SW	Good	2-8	8-12	Damp	None	Cows in VP field	Glare to SE but not major
19/01/2024	7	8	3.00	1230	H, HG, LB	BF	4	S	Good	5	2	Frozen	None	None	None
29/01/2024	7	9	3.00	900	TU, WN, BH, HG, LB, CO, WA, SN, MS	BF	2	N	Good	1	5	Wet	None	None	None
07/03/2024	7	10	3.00	1515	BH, CM, GB, MA, T, LB, K	BF	4	SE	Good	3	10	Wet	None	None	None
08/03/2024	7	11	3.00	645	MA, LB, BH, CM, GB, SN, HG, WN, CO	BF	4	E	Good	6	5	Wet	None	Quarrying and helicopter	None
13/03/2024	7	12	3.00	1145	ET, WN, GA, BH, CM, MA,	BF	3	SW	Good	5	7	Wet	None	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
					LB, T, MH										

Table 22: VP1 survey results breeding season 2024

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
23/03/2024	1	1	3.00	1615	HG, CM	SM	4	NW	Good	4-6	8	Dry	None	None	None
06/04/2024	1	2	3.00	1245	LB, BZ	SM	7-8	S-SW	Mod-Good	5-8	10-4	Damp	5 minute shower	None	None
06/04/2024	1	3	3.00	1545	CO, MA, BH, LB	SM	8-9	S-SW	Mod-Good	3-5	10-4	Damp	None	None	None
12/05/2024	1	4	3.00	545	LB, HG, CA, CM, BZ	BF	2	SW	Good	5	13	Damp	None	None	None
23/06/2024	1	5	3.00	1415	LB, CG	SM	3	SSW	Good	2-4	16	Dry	None	None	None
23/06/2024	1	6	3.00	1715	LB, BH, CG, BZ	SM	3	SSW	Good	1-3	16	Dry	None	None	Moderate glare after 1800
27/07/2024	1	7	3.00	1015	K, LB	SM	4	NW	Good	6-8	17	Dry	None	None	None
27/07/2024	1	8	3.00	1345	SH, LB	SM	4	NW	Good	4-5	17	Dry	None	None	None
30/08/2024	1	9	3.00	715	LB	SM	2	SE	Good	1-2	18	Damp	None	None	None
30/08/2024	1	10	3.50	1045	LB	SM	3	SE	Good	1-3	18	Damp	None	None	None
30/08/2024	1	11	3.00	1415	LB	SM	3	SE	Good	0-3	20	Damp	None	None	None
02/09/2024	1	13	3.00	1345	BZ,CA	AW	3	NW	Good	3	17	Dry	None	None	Some heatlines

Table 23: VP2 survey results breeding season 2024

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
23/03/2024	2	1	3.00	1300	CG, GB	SM	4	NW	Good	3	9	Damp	None	None	None
10/04/2024	2	2	2.50	1645	CO, LB, GP	SM	5	SW	Good	8	9	Damp	After 1820	None	None
11/04/2024	2	3	3.00	900	None	SM	5	SW	Mod-Good	8	13	Damp	Light-mod	None	None
11/04/2024	2	4	0.50	1200	None	SM	5	SW	Mod-Good	8	13	Damp	Light-mod	None	None
04/05/2024	2	5	3.00	1330	BH, HG, LB, PE	BF	2	W	Good	5	13	Wet	None	None	None
26/06/2024	2	6	3.00	815	K, LB, BH	SM	3-4	SE-ESE	Good	2-4	18	Dry	None	None	None
26/06/2024	2	7	3.00	1115	LB, BH, K	SM	4-5	S-SE	Good	2-3	18	Dry	None	None	None
29/07/2024	2	8	3.00	800	LB	SM	5	S	Good	5-8	15	Damp	None	None	None
29/07/2024	2	9	3.00	1130	BH	SM	5	S	Good	4-6	15	Damp	None	None	None
29/08/2024	2	10	3.00	1015	LB, K	SM	4	W	Good	3-6	20	Damp	None	None	None
29/08/2024	2	11	3.00	1345	None	SM	3-4	W	Good	2-3	20	Damp	None	None	None
29/08/2024	2	12	3.50	1715	K, LB	SM	2-3	W	Good	1-3	20	Damp	None	None	None

Table 24: VP3 survey results breeding season 2024

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
23/03/2024	3	1	3.00	945	K	SM	4	NW	Good	3-5	7	Wet	Very light shower	None	None
09/04/2024	3	2	3.00	700	BZ	SM	4	W	Good	1-3	11	Damp	None	None	None
09/04/2024	3	3	2.00	1000	LB, BH	SM	4	W	Good	2-3	11	Damp	None	None	None
10/04/2024	3	4	1.00	830	LB	SM	3	SW	Good	5	9	Damp	None	None	None
05/05/2024	3	5	3.00	1000	LB, BH, HG	BF	2	W	Good	5	14	Wet	Light rain	None	None
24/06/2024	3	6	3.00	900	BH, CM, LB	SM	4	S	Good	1-3	20	Dry	None	None	None
24/06/2024	3	7	3.00	1200	LB	SM	4	S-SSW	Good	1-3	20	Dry	None	None	None
28/07/2024	3	8	3.00	745	LB	SM	3	SW	Good	2-4	19	Dry	None	None	None
28/07/2024	3	9	3.00	1115	LB	SM	2-3	SW	Good	2-4	19	Dry	None	None	None
31/08/2024	3	10	3.00	730	LB	SM	2	E	Good	1-2	21	Damp	None	None	Some glare from 1000 onwards
31/08/2024	3	11	3.00	1100	None	SM	2-3	SE	Good	1	21	Damp	None	None	Some glare
31/08/2024	3	12	3.00	1430	None	SM	3	SE	Good	1-3	21	Damp	None	None	Glare improving after 1500
03/09/2024	3	13	3.00	915	CA, GJ	AW	3	NW	Good	6	16	Wet	Drizzle	None	None

Table 25: VP4 survey results breeding season 2024

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
24/03/2024	4	1	3.00	954	None	SM	3	SW-W	Mod	8	6	Dry	None	None	None
05/04/2024	4	2	3.00	916	LB, BH, H, BZ, PE	SM	4	SW	Good	8	11	Damp	Light shower	None	None
05/04/2024	4	3	3.00	1215	LB, BZ	SM	5	SW	Good	8	12	Damp	Light rain, regular squalls	None	None
05/04/2024	4	4	1.00	1515	H, PE	SM	5	SSW	Good	8	12	Damp	Light showers	None	None
18/05/2024	4	5	3.00	1330	PE, CA, ET, LB, BZ, GB	BF	4	N	Good	6	14	Damp	None	None	None
25/06/2024	4	6	3.00	1327	PE, K, BH	SM	3	NW	Good	2	20	Dry	None	None	None
25/06/2024	4	7	3.00	1630	BH, K	SM	3	NW	Good	0-2	20	Dry	None	None	None
18/07/2024	4	8	2.50	1745	H, PE, K	JOC	2	N	Mod	2	19	Dry	None	None	Glare from sun
21/07/2024	4	9	3.00	1422	K, LB	SM	4	S	Good	8	14	Dry	Light shower	None	None
21/08/2024	4	10	3.00	728	None	SM	4	SW	Good	8	15	Damp	Light rain from 815-910	None	None
21/08/2024	4	11	3.00	1058	H, LB	SM	5	SW	Good	8	15	Damp	Light rain from 1100-1240	None	None
21/08/2024	4	12	3.00	1428	LB	SM	5	SW	Good	8	15	Damp	Very light shower at 1530	None	None
21/08/2024	4	13	3.00	1800	None	SM	5	SW	Good	8	13	Dry	None	None	None

Table 26: VP5 survey results breeding season 2024

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
24/03/2024	5	1	3.00	1503	HG	SM	4	SSW	Good	8	7	Damp	None	None	None
03/04/2024	5	2	3.00	1355	BZ, CO	SM	1	W-S	Good	8	11	Damp	Light showers	None	None
03/04/2024	5	3	2.00	1700	SH, BZ, LB	SM	1	S	Good	5-6	9-11	Damp	Light showers	None	None
04/04/2024	5	4	1.00	1431	BH, BZ, LB	SM	3	SE	Mod-Good	8	11.5	Wet	Light with heavier spells	None	None
18/05/2024	5	5	3.00	1000	BH, LB, ET	BF	4	N	Good	6	13	Damp	None	None	None
26/06/2024	5	6	3.00	1438	K, LB, BH, BZ	SM	5-6	S	Good	2-3	20	Dry	None	None	None
26/06/2024	5	7	3.00	1745	K	SM	5	S-SW	Good	2-5	17	Damp	Very light shower	None	Glare after 6pm looking W
23/07/2024	5	8	3.00	1437	LB, BH	SM	2-3	WSW	Good	4-8	18	Dry	None	None	None
23/07/2024	5	9	3.00	1730	BZ	SM	3	WSW	Good	6-8	16	Dry	None	None	None
23/08/2024	5	10	3.00	816	LB, BZ	SM	4	SW	Good	2-6	16	Damp	None	None	None
23/08/2024	5	11	3.00	1146	BZ	SM	4	SW	Good	5-8	16	Damp	Heavy showers	None	None
23/08/2024	5	12	3.00	1516	LB	SM	5	SW	Good	7-8	15	Damp	None	None	None
23/08/2024	5	13	2.00	1846	None	SM	5	SW	Good	8	15	Damp	None	None	None
31/08/2024	5	14	1.00	1745	None	SM	3	SE	Good	3	18	Damp	None	None	None

Table 27: VP6 survey results breeding season 2024

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
07/04/2024	6	1	3.00	945	LB, CO, ET	SM	5-6	S-SSW	Good	7-8	10 - 11.5	Damp	None	None	None
07/04/2024	6	2	3.00	1245	BH, LB	SM	5-6	SW	Good	6-8	9 - 11.5	Wet	Light shower	None	None
07/04/2024	6	3	3.00	1545	LB, BZ, BH	SM	4-5	SW	Good	6	7-10	Wet	None	None	None
11/05/2024	6	4	3.00	1300	K, HG, BZ, LB	BF	3	S	Good	3	18	Damp	None	None	None
19/05/2024	6	5	3.00	1530	PE, BZ	BF	1	N	Good	1	22	Dry	None	None	Low heat haze
29/06/2024	6	6	3.00	1417	SH, LB, BH	SM	3	N-NNW	Good	2-3	15	Dry	None	None	None
29/06/2024	6	7	3.00	1715	LB	SM	3	NW	Good	3	14	Dry	None	None	None
22/07/2024	6	8	3.00	926	LB	SM	2-3	SW	Good	6-8	15	Dry	None	None	None
22/07/2024	6	9	3.00	1256	LB, CG	SM	3-5	W-SW	Mod	8	16	Dry	Showers from 1447	None	None
20/08/2024	6	10	3.00	1451	None	SM	6	W	Good	6-8	16	Damp	None	None	None
20/08/2024	6	11	3.00	1745	None	SM	6	W	Good	6-8	15	Damp	None	None	None
25/08/2024	6	12	3.00	627	LB	SM	6	W-SW	Good	6-8	17	Damp	Light rain from 730-815	None	None
25/08/2024	6	13	3.50	927	K, SH	SM	6	W	Good	5-7	17	Damp	None	None	None

Table 28: VP7 survey results breeding season 2024

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
08/04/2024	7	1	3.00	802	ET, CO, SH, L	SM	2	E-N	Mod-Good	8	10	Damp	Light rain at 1000	None	None
10/04/2024	7	2	3.00	1012	LB, BH, BZ	SM	4-5	SSE-SSW	Good	6-8	12	Damp	Light shower	None	None
10/04/2024	7	3	3.00	1315	BH, BZ, LB	SM	5	SSW	Good	7-8	12	Damp	None	None	None
11/05/2024	7	4	3.00	930	LB, BH, K, ET, HG	BF	3	S	Good	1	17	Damp	None	None	None
19/05/2024	7	5	3.00	1200	BH, K, PE, BZ, HG	BF	2	N	Good	1	18	Dry	None	None	None
29/06/2024	7	6	3.00	804	LB, BZ, CG	SM	3-4	NNW-NE	Good	3	14	Dry	None	None	None
29/06/2024	7	7	3.00	1100	BH, LB, BZ	SM	4-5	N	Good	2	14	Dry	None	None	None
21/07/2024	7	8	3.00	755	ET, H	SM	4	SW	Good	6-8	15	Dry	Light showers from 836-904	None	None
21/07/2024	7	9	3.00	1115	LB, ET	SM	4	SW	Good	6-8	16	Dry	None	None	None
24/08/2024	7	10	3.00	704	LB	SM	5	WNW	Good	8	18	Damp	None	None	None
24/08/2024	7	11	3.00	1030	None	SM	5	WNW	Good	8	16	Damp	Light showers	None	None
24/08/2024	7	12	3.00	1400	BZ, LB	SM	5	NW	Good	8	16	Damp	None	None	None
24/08/2024	7	13	3.00	1730	LB	SM	5	NW	Good	8	15	Damp	None	None	None

Table 29: VP1 survey results non-breeding season 2024-25

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
02/10/2024	1	1	3.00	715	SN, GJ, LB, K, HG	MH	1	NE	Good	0	7	Damp	None	None	None
04/10/2024	1	2	1.00	1415	GJ, BZ, K	MH	3	S	Good	7	16	Damp	None	None	None
06/10/2024	1	3	2.00	1730	K, LB, HG, SN, GP	MH	3	SSE	Good	6	15	Damp	None	None	None
10/10/2024	1	4	3.00	1130	WS, BZ, K, GB	MH	2	NNW	Good	3-6	10	Damp	Occasional showers	None	None
14/11/2024	1	5	1.00	800	GJ, K	MH	0-1	NNW	Good	7	11	Damp	None	None	None
15/11/2024	1	6	3.00	1400	BZ, BH, HH, SN	MH	2	SW	Good	7-8	12	Wet	Drizzly showers	None	Murky at times
18/11/2024	1	7	2.00	745	CM, SH, L, SN	MH	2	E	Good	8	5	Wet	Light	None	None
09/12/2024	1	8	3.00	845	ET, GJ, K, BZ, GP	AP	1	N	Good	0	2	Damp	None	None	None
09/12/2024	1	9	3.00	1145	CM, BZ, BH, K	AP	1	N	Good	0	4	Damp	None	None	None
19/02/2025	1	10	1.50	1700	LB, CM	MH	3	S	Good	8	10	Wet	Showers	None	None
22/02/2025	1	11	2.50	1430	CM, LB, BH, K	MH	3-4	SW	Good	5	11	Wet	None	None	None
23/02/2025	1	12	2.00	715	CM, LB	MH	5	S	Good	8	11	Wet	Spells of light rain/drizzle	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
12/03/2025	1	13	3.00	915	CM, BH, LB, BZ, GJ	MH	2-3	N	Good	5	6	damp	brief spotty showers	None	None
13/03/2025	1	14	2.50	1425	BH, CM, BZ, LB	MH	2	NNW	Good	6-7	9	Damp	isolated rain showers	None	None
14/03/2025	1	15	2.00	630	ML, CM, BH, K, LB	MH	2-3	NNE	Good	6	5	Damp	Brief showers	None	None
16/03/2025	1	16	1.50	1745	BH, CM, LB, GP	MH	1	E	Good	8	9	Damp	None	None	None

Table 30: VP2 survey results non-breeding season 2024-25

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
02/10/2024	2	1	3.00	1100	K, SH, BZ, LB, GP	MH	3	E	Good	3	13	Damp	None	None	None
05/10/2024	2	2	3.00	800	MA, SH, LB, SN	MH	4-5	SSE	Good	8	15	Damp	Showers then rain	None	None
07/10/2024	2	3	3.00	1400	BZ, K, SN, GP, LB	MH	3	SSE	Good	5	16	Damp	Occasional showers	None	None
15/11/2024	2	4	3.00	730	GP, H, WS	MH	1	SW	Good	8	10	Damp	Spells of light rain, drizzle	None	Slightly murky during rain
19/11/2024	2	5	3.00	1415	SN, K, WK	MH	2	NNE	Good	5	3	Wet	Sleety shower early on	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
12/12/2024	2	6	3.00	900	WS, BZ, GJ, K, SN	AP	1-2	E-SE	Good	8	5	Damp	None	None	None
12/12/2024	2	7	3.00	1200	GJ, BH, CM, HH, K	AP	2	E-SE	Good	8	5	Damp	None	None	None
21/01/2025	2	8	3.00	1100	K, PE, HG	JOC	3	SW	Good	3-7	8	Damp	Showers	Activity in yard during first half of survey	Some glare
21/01/2025	2	9	3.00	1415	HH, SN, ML, CM, SH, BZ, H, GP	JOC	2-3	SW	Good	2-3	6-8	Damp	None	Jeep in field at 1600	None
20/02/2025	2	10	3.00	1530	SH, CM, LB, BH, MA, BZ, DN, SN	MH	5	SW	Good	7	10	Wet	None	None	None
26/02/2025	2	11	3.00	700	BZ, CM, BH, HH, GB, LB	MH	3	W	Good	7	6	Wet	Showers	None	None
14/03/2025	2	12	3.00	1415	CM, BZ, K, LB	MH	3	NE	Good	5-7	10	Damp	None	None	None

Table 31: VP3 survey results non-breeding season 2024-25

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
03/10/2024	3	1	3.00	1515	BZ, K, SN, SH, GB, LB	MH	4-5	SSE	Good	8	15	Damp	Isolated light shower	None	None
05/10/2024	3	2	3.00	1130	BH, K	MH	5	SE	Good	8	14	Damp	In first hour and at the end	None	None
10/10/2024	3	3	3.00	730	GP, LB, SN, GJ, WS, L	MH	2	NNW	Good	3	6	Damp	None	None	None
16/11/2024	3	4	3.00	1400	SH, HG, GJ	MH	2	NNW	Good	8	10	Damp	None	None	None
20/11/2024	3	5	3.00	745	GP, HW, CM, SN	MH	1	NW	Good	4	-7	Frozen	None	None	Glare from sun at times
13/12/2024	3	6	3.00	915	K, GP, CM, BZ, WS	AP	1-2	S	Good	2-8	4	Damp	Light rain at start	None	None
13/12/2024	3	7	3.00	1215	BZ, SH	AP	1-2	S	Good	6-8	6	Damp	None	None	None
30/01/2025	3	8	3.00	1145	BH, BZ, CM, L	JOC	4	SW	Good	5	7	Damp	Showers	None	Some glare at start of survey
30/01/2025	3	9	1.00	1445	SH, CM	JOC	4	S	Good	7	7	Damp	None	None	Facing into wind
30/01/2025	3	10	2.00	1545	CM, LB, K, BH	JOC	5	S	Good	7	6	Wet	One heavy shower	Woman in field to S of VP around 1645. Minimal disturbance	Darkened quickly after sunset. Heavy mist final 15 mins.
20/02/2025	3	11	3.00	715	GP, BH,	MH	4	SSW	Good	4	11	Wet	Showers	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
					CM, LB, HG										
23/02/2025	3	12	3.00	1015	CM, GB, BZ, LB	MH	5	SSW	Good	6	12	Wet	Occasional showers	None	None
17/03/2025	3	13	3.00	645	BH, CM, LB, GP, WS	MH	3	E	Good	8	6	Damp	None	None	None

Table 32: VP4 survey results non-breeding season 2024-25

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
02/10/2024	4	1	3.00	1415	SH, K. BZ, LB, GB	MH	3	E	Good	4	15	Damp	None	None	None
07/10/2024	4	2	3.00	715	LB, K, GJ, GP, CA, GB, SN, H, HG, BZ	MH	2	SE	Good	7	12	Damp	Brief shower	None	None
11/11/2024	4	3	3.00	1345	K	MH	0	N	Mod-Good	2	7	Damp	None	None	Mist on hill, then murky
19/11/2024	4	4	3.00	730	GJ, MA, H, K	MH	1-2	NE	Good	8	1	Wet	Light, spotty	None	Slightly murky at times
12/12/2024	4	5	3.00	830	CM, LB	SM	3	E	Good	8	5	Wet	None	None	None
12/12/2024	4	6	3.00	1130	PE	SM	3	E	Good	8	5	Wet	None	None	None
25/01/2025	4	7	2.25	1500	CM, BH, M, BZ, ET	SM	4-5	SW	Good	8	8	Wet	Wet	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
26/01/2025	4	8	3.00	830	BZ, GB, BH, CM, SH	SM	5-6	E	Good	6-8	6	Dry	None	None	None
26/01/2025	4	9	0.75	1130	None	SM	6	E	Good	7-8	6	Dry	None	None	None
21/02/2025	4	10	3.00	1345	LB, GB, PE, BZ, BH, CM, MA	MH	4	SW	Good	6	11	Wet	None	None	None
26/02/2025	4	11	3.00	1030	K, BZ, LB, CM, GB	MH	4	NW	Good	5	7	Wet	Showers	None	None
13/03/2025	4	12	3.00	630	BZ, BH, CM, GP, LB, SN, GJ, SH, K	MH	1	N	Good	6	3	Damp	None	None	None
15/03/2025	4	13	3.00	1400	BH, LB, CM, K, BZ, SH	MH	1-2	N	Good	5	11	Damp	None	None	None

Table 33: VP5 survey results non-breeding season 2024-25

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
04/10/2024	5	1	3.00	730	K, LB	MH	4	SSE	Good	8	14	Damp	Light rain, drizzle, showers	None	Slightly murky during drizzle
08/10/2024	5	2	3.00	1530	H, LB, SN, K, SH	MH	3	NNE	Good	7	14	Wet	Showers	None	None
11/11/2024	5	3	3.00	1000	SH	MH	0	N	Mod-Good	0	7	Dry	None	None	Patchy mist/fog at times, airspace above 20m generally clear
16/11/2024	5	4	3.00	730	K, WG, BZ, PE, MS, CA	MH	1	NNW	Good	6-7	7	Damp	Rain from 735-753	None	Slightly murky during rain
12/12/2024	5	5	1.50	1500	None	SM	3	E	Good	6-8	3	Wet	None	None	None
13/12/2024	5	6	1.50	830	BZ	SM	1	E	Good	3-4	7	Wet	None	None	None
13/12/2024	5	7	3.00	1000	BZ, SH	SM	2	E	Good	5-2	7	Wet	None	None	None
26/01/2025	5	8	3.00	1230	BZ, CM, BH	SM	6-7	E-ESE	Good	8	8	Wet	None	None	None
26/01/2025	5	9	1.50	1530	BH, CM	SM	6	S	Good	8	8	Wet	From 1640 onwards	None	None
27/01/2025	5	10	1.50	845	None	SM	5	S	Good	8	8	Wet	None	None	None
21/02/2025	5	11	3.00	715	H, MA, K, GP, BH, CM, ET,	MH	3	SW	Good	8	11	Wet	Intermittent	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
					GB, CU										
24/02/2025	5	12	3.00	1530	BH, CM, K, CU, GB	MH	3	SW	Good	6	8	Wet	Showers	None	None
13/03/2025	5	13	3.00	1130	K, LB, CM, BZ, BH	MH	2-3	NNW	Good	5-7	8	Damp	None	None	None
16/03/2025	5	14	1.50	1545	CM, SH, LB, BH	MH	1-2	SW	Good	6-7	10	Damp	None	None	None
18/03/2025	5	15	1.50	615	CM, LB, BZ, BH	MH	2-3	E	Good	8	4	Damp	None	None	None

Table 34: VP6 survey results non-breeding season 2024-25

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
03/10/2024	6	1	3.00	730	LB, BZ, GJ, SH, SN, MS, K	MH	4	SE	Good	8	11	Damp	None	None	None
05/10/2024	6	2	3.00	1500	K, BZ	MH	4-5	SE	Good	8	14	Damp	Rain until 1645, then occasional showers	None	None
14/11/2024	6	3	3.00	1415	MA, HH, GJ, CM, K	MH	1	N	Good	8	12	Damp	Brief drizzly shower	None	None
18/11/2024	6	4	3.00	1015	HG, MA	MH	2	ESE	Good	8	6	Wet	Light, spotty	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
14/12/2024	6	5	3.00	845	BZ	SM	5	W-NW	Good	3-4	6	Wet	None	None	None
14/12/2024	6	6	3.00	1145	PE	SM	6	W	Good	3-7	9	Wet	None	None	None
24/01/2025	6	7	3.00	1115	BH, SH	SM	5-6	W	Good	3-5	5	Wet	Light shower	Extremely high winds (Storm Eowyn) previous night - red warning ending at 9am	None
24/01/2025	6	8	3.00	1415	CU, GP, CM	SM	4-5	W	Good	5-8	5	Wet	Light shower	Extremely high winds (Storm Eowyn) previous night - red warning ending at 9am	None
19/02/2025	6	9	3.00	1300	CM, BH, LB	MH	4	S	Good	8	10	Wet	Intermittent	None	Slightly murky at times
22/02/2025	6	10	3.00	715	GB, BH, CM, LB, GP, K, GJ, BZ	MH	3	SW	Good	4	8	Wet	Early showers	None	Glare from low sun at times
12/03/2025	6	11	3.00	1130	CM, BH, LB, BZ, GP	MH	3	NNE	Good	5	8	Damp	None	None	None
17/03/2025	6	12	3.00	1400	CM, LB, BH,	MH	3-4	SE	Good	8	9	Damp	None	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
					BZ, HG										

Table 35: VP7 survey results non-breeding season 2024-25

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
03/10/2024	7	1	3.00	1100	BZ, SN, K, SH	MH	4	SE	Good	8	13	Damp	None	None	None
10/10/2024	7	2	3.00	1530	K, BZ, CA, HG, PE, GP	MH	2-3	NNW	Good	3-6	10	Damp	Occasional showers	None	None
14/11/2024	7	3	3.00	1015	K, GA, ET, T, L, HG	MH	1-2	N	Good	8	13	Damp	None	None	None
18/11/2024	7	4	3.00	1345	SN, T	MH	3	E	Good	8	5	Wet	Variable, light and drizzly	None	Murky at times
14/12/2024	7	5	1.00	1500	None	SM	6	W	Good	5-6	10	Wet	None	None	None
15/12/2024	7	6	2.00	900	BZ	SM	5	W-WSW	Good	3-5	10	Wet	None	None	None
15/12/2024	7	7	3.00	1100	None	SM	6	WSW	Good	2-5	10	Wet	None	None	None
25/01/2025	7	8	3.00	830	CM, LB, BH	SM	3	SW	Good	3-6	4	Wet	None	None	None
25/01/2025	7	9	3.00	1145	CM, SH	SM	4	SW	Good	5-8	4	Wet	None	None	None
19/02/2025	7	10	3.00	900	BH, CM, K, LB, GP	MH	3-4	SSE	Good	6	9	Wet	None	None	Glare from low sun at times
23/02/2025	7	11	3.00	1345	CM, BH, SH, LB	MH	5	SW	Good	7	11	Wet	Showers	None	None
12/03/2025	7	12	3.00	1500	BH, BZ,	MH	3	NNE	Good	7	8	Damp	None	None	None

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
					CM, L, LB, MA										
17/03/2025	7	13	3.00	1030	CM, LB, BH	MH	3-4	SE	Good	8	9	Damp	None	None	None

Table 36: VP1 survey results breeding season 2025

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
01/04/2025	1	1	3.00	1245	K, PE, LB	SM	4	ESE-E	Good	0-2	16	Dry	None	None	None
01/04/2025	1	2	3.00	1615	LB, CM	SM	4	E	Good	0-2	16	Dry	None	None	None
21/05/2025	1	3	3.00	945	LB, K	AW	2	N	Good	1	16	Damp	None	None	Heatlines
28/05/2025	1	4	3.00	1045	BH, K, BZ	AW	4	SW	Good	6-7	15	Wet	None	None	Tractors in field for most of watch
28/06/2025	1	5	3.00	930	LB, CM	SM	4	W	Good	4-6	16	Damp	None	None	None
28/06/2025	1	6	3.00	1300	CM, BH, BZ, LB	SM	4-5	W	Good	4-6	16	Damp	None	None	None
28/07/2025	1	7	3.00	800	LB	SM	2	WNW	Good	6-8	17	Dry	None	None	None
28/07/2025	1	8	3.00	1130	LB, BH, K	SM	3	WNW	Good	6-8	17	Dry	None	None	None
30/08/2025	1	9	3.00	845	LB, CM	SM	6	SE	Good	8	14	Damp	Light rain, then showers	None	Heavier showers 1102-1139
30/08/2025	1	10	3.00	1200	LB	SM	7	S-SW	Good	8	14	Damp	None	None	None
02/09/2025	1	11	3.00	1145	K, HG, LB	SM	2-3	SW	Good	8	15	Damp	None	None	None
02/09/2025	1	12	3.00	1515	K	SM	3	S	Good	8	15	Wet	Rain after 1600	None	None

Table 37: VP2 survey results breeding season 2025

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
07/04/2025	2	1	3.00	700	BH, LB	SM	2-3	ESE	Good	0	16	Dry	None	None	None
07/04/2025	2	2	3.00	1015	CM, BZ, LB	SM	3-2	ESE-SSE	Good	0-2	16	Dry	None	None	None
10/04/2025	2	3	3.00	1245	HG, BH, BZ, CM	CC	1	ESE	Good	0	18	Dry	None	Sheep grazing in site and farmer driving through	Heatwaves
07/05/2025	2	4	3.00	1015	BZ, H	AW	2	N	Good	0	14	Dry	None	None	Some heat lines
21/05/2025	2	5	3.00	1415	BZ	AW	2	NW	Good	1	19	Dry	None	None	Some heat lines
29/06/2025	2	6	3.00	745	LB, CM	SM	4	SE	Good	5-8	22	Damp	None	None	None
29/06/2025	2	7	3.00	1115	LB, K, SH	SM	4-5	S-SSE	Good	6-8	22	Damp	None	None	None
24/07/2025	2	8	3.00	1300	K, BZ, LB	SM	2-3	SW	Good	4-6	18	Dry	None	None	None
24/07/2025	2	9	3.00	1630	K, BH, LB	SM	2-4	SW	Good	6-8	18	Dry	None	None	None
30/08/2025	2	10	3.00	1530	LB, K	SM	6-7	SW	Good	8	14	Damp	Light rain	None	Heavier rain 1638-1651
31/08/2025	2	11	3.00	1545	LB	SM	7	W	Good	8	14	Damp	None	None	None
03/09/2025	2	12	3.00	830	None	SM	5	NW	Good	8	14	Dry	None	None	None

Table 38: VP3 survey results breeding season 2025

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
31/03/2025	3	1	3.00	715	BZ, BH, LB	SM	3	SE	Good	3-6	16	Dry	None	None	None
31/03/2025	3	2	1.00	1015	CM, LB	SM	3	SE	Good	6-4	16	Dry	None	None	None
06/04/2025	3	3	2.00	1000	LB, BZ	SM	5	E	Good	0-3	12	Dry	None	None	None
07/05/2025	3	4	3.00	1400	BZ, K, LB	AW	1	N	Good	2	16	Dry	None	None	None
28/05/2025	3	5	3.00	1430	BZ	AW	4	SW	Good	6-7	16	Wet	None	None	None
30/06/2025	3	6	3.00	830	LB	SM	3	S-W-N	Mod-Good	8	13	Wet	Constant	None	None
30/06/2025	3	7	3.00	1200	LB	SM	3-4	NW-SE	Mod-Good	8	13	Wet	Constant	None	Rain from 1430
25/07/2025	3	8	3.00	800	LB, BZ	SM	4	W-WNW	Good	8	14	Damp	Light shower from 810-822	None	None
25/07/2025	3	9	3.00	1130	BH, LB	SM	4	W-WSW	Good	8	14	Dry	None	None	None
31/08/2025	3	10	3.00	845	LB, BH	SM	7	SSW	Good	8	14	Wet	Light-mod	None	None
31/08/2025	3	11	3.00	1215	BZ	SM	6	SSW	Mod-Good	8	14	Wet	Constant	None	Heavier showers
03/09/2025	3	12	3.00	1200	LB	SM	5	NW	Good	8	16	Wet	Light rain 1231-1250	None	None
03/09/2025	3	13	3.00	1530	SH, LB	SM	5	WNW	Good	8	16	Wet	None	None	None

Table 39: VP4 survey results breeding season 2025

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
02/04/2025	4	1	3.00	1200	BZ	SM	5-4	ESE-SE	Good	0	15	Dry	None	None	None
02/04/2025	4	2	3.00	1530	LB, BH	SM	4	ESE	Good	0-1	15	Dry	None	None	None
27/05/2025	4	3	3.00	1000	Gull, BZ	DL	1	E	Mod-Good	8	10	Damp	Yes	None	Light rain
27/05/2025	4	4	3.00	1315	HG, GB	DL	1	N	Good	7	11	Damp	None	None	None
11/06/2025	4	5	3.00	1300	SI, LB, BZ, BH, K	JOC	4	SE	Good	3-5	15	Dry	None	Tractor in field with rake. Lady in graveyard	None
25/06/2025	4	6	3.00	845	LB, CM, BZ	SM	2-3	SSE-SSW	Good	4-6	19	Dry	None	None	None
25/06/2025	4	7	3.00	1215	CM, BH, LB, BZ, PE	SM	5	SSW	Good	6-8	19	Wet	Showers	None	None
22/07/2025	4	8	3.00	845	SH, LB	SM	2	W	Good	8	16	Dry	None	None	None
22/07/2025	4	9	3.00	1200	LB, K	SM	2	W	Good	8	19	Damp	None	None	None
26/08/2025	4	10	3.00	815	LB, CM, BZ	SM	6	SW	Good	8	13	Wet	Some light rain	None	None
26/08/2025	4	11	3.00	1145	LB, BZ	SM	6	SW	Good	8	13	Wet	Some light rain	None	None
01/09/2025	4	12	3.00	845	None	SM	4-6	SW	Mod-Good	8	14	Wet	Rain after 1005	None	None

Table 40: VP5 survey results breeding season 2025

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
31/03/2025	5	1	3.00	1130	LB, CM, BH	SM	2-3	S	Good	3-5	16	Dry	None	None	None
31/03/2025	5	2	3.00	1500	LB, BZ, H	SM	4	SSE	Good	4-8	16	Dry	None	None	None
28/05/2025	5	3	3.00	1200	SH	DL	4	SW	Good	6	16	Damp	Yes	None	None
28/05/2025	5	4	3.00	1515	HG, BH, GB	DL	4	SW	Good	7	16	Dry	None	None	None
26/06/2025	5	5	3.00	1230	BZ	SM	5	SW	Mod-Good	8	14	Damp	Light shower	None	Showers
26/06/2025	5	6	3.00	1545	LB, BZ, BH	SM	4	SW	Mod-Good	8	14	Damp	Heavy shower	None	None
22/07/2025	5	7	3.00	1530	CM, LB	SM	3	WNW	Good	8	18	Dry	None	None	None
23/07/2025	5	8	3.00	830	LB, BH, BZ	SM	4	NNW	Good	8	16	Damp	None	None	None
26/08/2025	5	9	3.00	1515	LB	SM	4-6	SW	Mod-Good	8	16	Damp	Showers	None	Some brief heavier showers
27/08/2025	5	10	3.00	845	BH, BZ, CU	SM	6	WSW	Good	8	14	Damp	Light rain	None	None
01/09/2025	5	11	3.00	1215	BH, LB	SM	5-6	SW	Mod	8	13	Wet	Light rain 1415-1515	None	Rain
01/09/2025	5	12	3.00	1530	SH, LB	SM	5-6	WSW	Poor-Mod	8	13	Wet	Rain from 1530-1702	None	Rain

Table 41: VP6 survey results breeding season 2025

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
20/03/2025	6	1	3.00	1030	CM, BH, LB, BZ, H	JOC	3-4	SE	Good	2-3	12	Dry	None	Farmer in field	Some haze >2km out
05/04/2025	6	2	3.00	715	BH, LB, K, CM	SM	5-6	E	Good	0-2	12	Dry	None	None	None
05/04/2025	6	3	1.00	1015	LB, K	SM	6	E	Good	0	12	Dry	None	None	None
06/04/2025	6	4	2.00	1815	L, T, MA, LB	SM	3-2	SSE	Good	0	17	Dry	None	None	None
27/05/2025	6	5	3.00	1630	None	DL	1	W	Good	7	12	Dry	None	None	None
29/05/2025	6	6	3.00	700	None	DL	6	SW	Mod-Good	8	14	Wet	Light rain throughout survey	None	Rain
11/06/2025	6	7	3.00	1615	LB, BH	JOC	4	SE-S	Good	5-6	17	Dry	Shower	Farmer in field at end	None
27/06/2025	6	8	3.00	845	LB, MA, BZ	SM	6	SSW	Good	6-8	16	Damp	Light showers	None	None
27/06/2025	6	9	3.00	1215	BH, LB, CM	SM	6-7	SW-SSW	Good	8	16	Damp	Light showers	None	None
21/07/2025	6	10	3.00	1700	LB, BZ	SM	5	NW	Good	8	17	Dry	None	None	None
23/07/2025	6	11	3.00	1200	None	SM	4	NW	Good	8	17	Damp	None	None	None
27/08/2025	6	12	3.00	1230	LB, SH	SM	6	WSW	Good	8	15	Damp	Rain 1407-1421	None	Rain showers
27/08/2025	6	13	3.00	1600	LB, CM, T	SM	6	WSW	Good	8	15	Damp	Rain 1556-1612	None	Rain showers

Table 42: VP7 survey results breeding season 2025

Date	VP	Visit No.	**Duration** (Hours)	Start **time**	Target sp.	Surveyor	Wind force	Wind **direction**	Visibility	Cloud (oktas)	Temperature (°C)	Ground	Rain	Disturbance	Factors **affecting** visibility
20/03/2025	7	1	3.00	1415	ET, K, CM, LB, BZ, BH	JOC	3-4	SE	Mod-Good	2-6	14-15	Dry	None	Quarry operators	Glare from sun at times
04/04/2025	7	2	3.00	1345	LB, L, CM, BZ, PE	SM	5-6	ESE-E	Good	4-0	17	Dry	None	None	None
04/04/2025	7	3	3.00	1715	CM, BH, L, GP	SM	6	E	Good	0	17	Dry	None	None	None
29/05/2025	7	4	3.00	1015	GB, CM, LB	DL	5	SW	Mod-Good	8	15	Wet	Yes	None	Rain
29/05/2025	7	5	3.00	1330	K, CM, ET, LB	DL	5	SW	Mod-Good	8	14	Damp	Yes	None	Rain
25/06/2025	7	6	3.00	1545	LB, BH, CM, BZ	SM	4	SSW	Good	8	14	Dry	One light shower	None	None
26/06/2025	7	7	3.00	845	LB, CM, BZ	SM	5-6	SW	Good	8	14	Dry	None	None	None
24/07/2025	7	8	3.00	830	LB	SM	2	SW	Good	3-4	17	Damp	None	None	None
25/07/2025	7	9	3.00	1830	None	SM	4	W	Good	8	16	Dry	None	None	None
28/08/2025	7	10	3.00	800	SH, LB, CM	SM	8	WSW	Mod-Good	8	14	Wet	Frequent rain	None	Light rain, visible up to 1km
28/08/2025	7	11	3.00	1130	LB, BZ, BH, SH, MA	SM	8	WSW	Good	8	14	Wet	Light rain throughout survey	None	None
02/09/2025	7	12	3.00	815	LB, BZ, BH, SH	SM	2-3	WSW	Good	8	16	Damp	None	None	None

Table 43: Raptor Survey Effort

Date	Visit	Start **time**	End **time**	**Duration**	Surveyor	Wind force	Wind **direction**	Cloud (oktas)	Temperature	Rain
Breeding season 2023										
23/03/2023	1	1400	1700	3.00	JOC	5	SW	7	11	Showers
30/03/2023	2	1545	1845	3.00	JOC	3-4	S	5-7	12-13	Showers
31/03/2023	2	1115	1315	2.00	JOC	3	W-NW	6-8	10	Light-Mod
03/04/2023	3	1400	1500	1.00	JOC	4	S	6	11	Light-Mod
16/05/2023	4	800	1500	7.00	SD	1	W-NW	1	15	None
17/05/2023	4	0730	1530	8.00	SD	3	SW	4	14	None
Breeding season 2024										
25/03/2024	1	830	1130	3.00	SM	4	NE	8	9	Light showers until 1000
26/03/2024	1	0912	1916	9.00	SM	5	NE	8	7	Showers 1700-1900
20/04/2024	2	0830	1430	6.00	BF	2	SE	1	15	None
27/04/2024	2	0830	1445	6.25	BF	2	N	4	10	None
04/05/2024	3	1700	1830	1.50	BF	1	W	4	11	None
12/05/2024	3	900	1530	6.50	BF	2	SW	4	17	None
19/05/2024	3	530	1145	6.25	BF	2	N	1	8	None
23/06/2024	4	1022	1345	3.50	SM	3	S	2	17	None
24/06/2024	4	1625	1900	2.50	SM	4	SSW	3	19	None
27/06/2024	4	0926	1100	1.50	SM	7	W	8	15	Light shower
30/06/2024	4	0842	1015	1.50	SM	4	NW	4	9	None
30/06/2024	4	1021	1141	1.50	SM	4	NW	4	9	None
01/07/2024	4	816	946	1.50	SM	6	NW	4	14	None
01/07/2024	4	1030	1200	1.50	SM	6	NNW	4	15	None
Breeding season 2025										
30/03/2025	1	1700	2015	3.25	SM	3	WSW	6	15-13	None
01/04/2025	1	0815	1215	4.00	SM	4	ESE	2	13-14	None
02/04/2025	1	0730	1130	4.00	SM	5	E	0	9-12	None

Date	Visit	Start **time**	End **time**	**Duration**	Surveyor	Wind force	Wind **direction**	Cloud (oktas)	Temperature	Rain
08/04/2025	1	815	1015	2.00	SM	4	SE	0	9-8	None
10/04/2025	1	1615	1915	3.00	CC	1	ESE	0	20	None
29/05/2025	2	1645	1945	3.00	DL	5	SW	7	15	None
30/05/2025	2	700	1600	9.00	DL	2	SW	7	15	None
27/06/2025	3	1530	1830	3.00	SM	6	SW	8	16	One very light squall
28/06/2025	3	1800	1930	1.50	SM	4	W	2	18	None
30/06/2025	3	1515	1915	4.00	SM	4	NW	8	13	Light rain until 1600, heavy rain 1600-1700, drizzle at 1710
01/07/2025	3	830	1200	3.50	SM	2	NE	2	14	None
23/07/2025	4	1630	1930	3.00	SM	4	NW	8	18	None
26/07/2025	4	0815	1445	6.50	SM	5	W	8	16	Light shower
27/07/2025	4	0945	1245	3.00	SM	5	WNW	4-6	17	None

Table 44: Dusk Survey Effort

Date	Visit	**Start time**	**End time**	**Duration**	Surveyor	Wind force	Wind **direction**	Cloud (oktas)	Temperature	Rain
Breeding season 2023										
29/03/2023	1	1930	2045	1.25	AW	4	SW	6	9	None
30/03/2023	1	1945	2215	2.50	JOC	3	E	4-5	10-11	Shower
03/04/2023	1	2000	2215	2.25	JOC	3-4	S	5-6	9-10	Yes
19/05/2023	2	2000	2230	2.50	SD	4	W	7	8	Shower
05/06/2023	3	2115	2215	1.00	DR	0	SE	1	18	None
14/06/2023	3	2130	2230	1.00	DR	1	NE	7	17	None
16/07/2023	4	2030	2230	2.00	DR	2	W-NW	6-8	13	Occasional shower
21/07/2023	4	2030	2230	2.00	DR	0	SW	8	10	Mild drizzle
27/08/2023	5	2045	2145	1.00	DR	2	NW	8	11	Drizzle
28/08/2023	5	2015	2115	1.00	DR	3	NW	8	13	None
11/09/2023	6	2000	2100	1.00	DR	1-3	W	8	11	None
Breeding season 2024										
23/03/2024	1	1915	2215	3.00	SM	4	W	2	5	Brief shower
24/03/2024	1	1830	2130	3.00	SM	3	SSW	8	6	None
05/04/2024	2	1915	2215	3.00	SM	4	SW	8	9	Heavy showers
07/04/2024	2	1915	2215	3.00	SM	5	SW	5	7	None
11/05/2024	3	2200	00:00	2.00	BF	2	SW	3	15	None
18/05/2024	3	2200	00:00	2.00	BF	2	N	1	11	None
24/05/2024	3	2200	00:00	2.00	BF	2	SE	1	12	None
25/05/2024[1]	3	0300	0430	1.50	BF	2	SE	2	8	None
24/06/2024	4	1915	2215	3.00	SM	4	SW	5	16	None
25/06/2024	4	1945	2245	3.00	SM	4	NW	2	15	None

[1] Dawn survey

Date	Visit	**Start time**	**End time**	**Duration**	Surveyor	Wind force	Wind **direction**	Cloud (oktas)	Temperature	Rain
27/07/2024	5	2045	2245	2.00	SM	4	NW	6	13	None
28/07/2024	5	1945	2145	2.00	SM	3	SW	5	12	None
29/07/2024	5	2000	2200	2.00	SM	3	W	8	14	None
21/08/2024	6	2100	2200	1.00	SM	1-2	SW	8	13	None
29/08/2024	6	2045	2145	1.00	SM	3	W	2	16	None
30/08/2024	6	1945	2045	1.00	SM	4	SE	2	17	None
30/08/2024	6	2100	2145	0.75	SM	3	SE	1	17	None
Breeding season 2025										
30/03/2025	1	1700	2015	3.25	SM	3	WSW	6	15-13	None
05/04/2025	1	1145	2015	8.5	SM	4-5	E	10	13	None

Table 45: Walkover Survey Effort

Date	Visit	**Start time**	**End time**	**Duration**	Surveyor	Wind force	Wind **direction**	Cloud (oktas)	Temperature	Rain
Non-breeding season 2022-23										
18/11/2022	1	1015	1315	3.00	JOC	2	W	2	8	None
28/11/2022	2	1130	1600	4.50	JOC	2	W	4	11	Showers
29/11/2022	2	0815	1130	3.25	AP	2	NW	8	7-10	Light intensity at start
30/11/2022	2	1130	1600	4.50	JOC	3	SE	5	11	Showers, bad mist in last hour, difficult to survey
16/01/2023	3	1100	1530	4.50	AM & AP	1	-	2	0	None
24/01/2023	3	1030	1330	3.00	DR	2	Very variable	8	9	None
25/01/2023	3	0915	1215	3.00	DR	1	Very variable	7	9	One shower
08/03/2023	4	1145	1515	3.50	AP	2	NE	2	0-4	None
Breeding season 2023										
13/04/2023	1	0830	1130	3.00	DR	2	Very variable	5	10	None
27/04/2023	2	0830	1145	3.25	DR	1	Very variable	7	10	Very light showers
04/05/2023	3	1100	1700	6.00	JOC	3	E	4	15	None
07/05/2023	3	0800	0845	0.75	SD	4	SW	7	10	None
17/05/2023	4	1215	1515	3.00	DR	2	NW	4	14	None
18/05/2023	4	830	1130	3.00	SD	9-11	W	0	13	None
18/05/2023	4	1215	1345	1.50	SD	3	W	6	10	None
19/05/2023	4	1730	1930	2.00	SD	3	W	7	8	Rain and low cloud
24/05/2023	5	1130	1430	3.00	DR	2	Very variable	4	14	None
05/06/2023	6	1900	2000	1.00	DR	2	Variable	2	22	None
06/06/2023	6	1000	1300	3.00	DR	1	Variable	2	22	None

Date	Visit	Start time	End time	Duration	Surveyor	Wind force	Wind direction	Cloud (oktas)	Temperature	Rain
06/06/2023	6	1630	1830	2.00	DR	2	NE	4	20	None
07/06/2023	6	1245	1545	3.00	DR	3	NE	4	19	None
13/06/2023	7	1400	1700	3.00	DR	1	Variable	7	19	Heavy rain and thunder from 1630
14/06/2023	7	0930	1230	3.00	DR	1	Variable	1	21	None
15/06/2023	7	1245	1545	3.00	DR	1	Very variable	1	22	None
18/07/2023	8	1215	1515	3.00	DR	1	Very variable	7	16	None
22/07/2023	8	845	1145	3.00	DR	3	N	8	12	None
Non-breeding season 2023-24										
28/11/2023	1	0845	1200	3.25	AP	1	W	6	6	None
15/12/2023	2	0915	1430	5.25	AW	3	SW	6	11	One very light shower
05/01/2024	3	0900	1200	3.00	AW	3	NW	2	5	One very light shower
22/02/2024	4	1045	1645	6.00	JOC	4	W	5	6	2 moderate showers
07/03/2024	5	1030	1630	6.00	JOC	4	SE	4	11	None
Breeding season 2024										
03/04/2024	1	1045	1345	3.00	SM	2	SSW	3	12	None
04/04/2024	1	0800	0900	1.00	SM	3	ESE	3	11	None
04/04/2024	1	1000	1415	4.25	SM	3	ESE	2	13	None
08/04/2024	1	1130	1400	3.50	SM	3	N	6	8	Light rain
09/04/2024	1	1215	1515	3.00	SM	4	W	2	10	None
09/04/2024	1	1545	1845	3.00	SM	3	WSW	2	10	None
20/04/2024	2	1530	2130	6.00	BF	1	SE	0	16	None
27/04/2024	2	1545	1945	4.00	BF	2	N	4	12	None
11/05/2024	3	1700	2130	4.50	BF	3	S	3	18	None
18/05/2024	3	1700	2130	4.50	BF	4	N	6	14	None
24/05/2024	3	1230	1845	6.25	BF	2	W	3	16	None

Date	Visit	Start time	End time	Duration	Surveyor	Wind force	Wind direction	Cloud (oktas)	Temperature	Rain
25/05/2024	3	0700	1000	3.00	BF	2	SE	1	9	None
28/06/2024	4	1215	2015	8.00	SM	4	WSW	3	15	None
30/06/2024	4	1145	2045	9.00	SM	3	WNW	4	15	None
01/07/2024	4	1130	1500	3.50	SM	4	WNW	3	16	None
28/07/2024	5	1430	1730	3.00	SM	3	S	2	21	None
29/07/2024	5	1500	1800	3.00	SM	3	SSW	3	20	None
Non-breeding season 2024-25										
03/10/2024	1	1030	1445	4.25	MH	3	SE	8	13	None
04/10/2024	1	1030	1645	6.25	MH	3	S	7	16	Occasional light showers
07/10/2024	1	1045	1400	3.25	MH	3	SE	5	15	None
10/10/2024	1	0915	1415	5.00	MH	2	NNW	N/A	12	Light
14/11/2024	2	0845	1400	5.25	MH	1	N	8	11	None
15/11/2024	2	1030	1400	3.50	MH	1	SW	7	13	None
16/11/2024	2	1030	1200	1.50	MH	2	NW	7	8	Continuous
16/11/2024	2	1200	1400	2.00	MH	2	NW	8	9	Occasional light showers
19/11/2024	2	1045	1330	2.75	MH	2	NE	7	3	None
19/02/2025	3	0745	1300	5.25	MH	3	SE	6	8	None
20/02/2025	3	1015	1530	5.25	MH	4	SW	4	10	Occasional heavy showers
22/02/2025	3	1015	1415	4.00	MH	3	SW	4	10	None
Breeding season 2025										
05/04/2025	1	1145	2015	8.5	SM	4-5	E	N/A	13	None
06/04/2025	1	1245	1815	5.5	SM	2-4	SE	N/A	16	None
07/04/2025	1	1330	1915	5.75	SM	1-2	SE	N/A	17	None
01/05/2025	2	1115	1715	6.00	JOC	3	N	2	13	None
08/05/2025	2	1130	1630	5.00	JOC	2	E	2	16	None
29/06/2025	3	1415	1645	2.50	SM	2-3	W	N/A	21	Light shower
01/07/2025	3	1215	2015	8.00	SM	2-3	NW-NE	N/A	16	None

Date	Visit	**Start time**	**End time**	**Duration**	Surveyor	Wind force	Wind **direction**	Cloud (oktas)	Temperature	Rain
02/07/2025	3	1145	1330	1.75	SM	3	SW	N/A	16	Light shower
25/07/2025	4	1245	1630	3.75	SM	3	WNW	N/A	18	None
26/07/2025	4	1345	1845	5.00	SM	3	WNW	N/A	18	None
27/07/2025	4	1215	1400	1.75	SM	3	W	N/A	18	None
27/07/2025	4	1430	1630	2.00	SM	3	W	N/A	17	None
28/07/2025	4	1345	1730	3.75	SM	3	SW	N/A	17	None

Table 46: Hen Harrier Survey Effort

Date	Visit	Surveyor	Start **time**	**Duration**	Sunset	Sunrise	**Latitude**	Longitude	Wind **direction**	Wind force	**Precipitation**	Temperature	HH seen	Other wildlife of note
Non-breeding season 2022-23														
22/11/2022	1	DR	1630	1.00	1637	-	53.491064	-9.18596	-	1	Dry	Cool	0	None
23/12/2022	2	JOC	0845	0.50	-	0848	53.48923	-9.17562	SE	0-3	Constant Rain	Cold	0	BZ, Irish hare
13/02/2023	3	AW	1615	2.00	1742	-	53.50685	-9.13449	SE	4-6	Dry	Cool	0	None
27/02/2023	4	JOC	1745	1.00	1810	-	53.35692	-9.048813	SE	0-3	Dry	Cold	0	None
Non-breeding season 2023-24														
15/11/2023	1	JOC	1615	1.00	1642	-	53.35692	-9.048813	SE	0-3	Dry	Cool	1	Adult WE with orange tag. Perched on tree to west of VP. Flew NW along Corrib. Short-eared owl to W also.
29/11/2023	2	JOC	1545	1.25	1625	-	53.5302256	-9.2328678	NE	0-3	Dry	Cold	0	None
18/01/2024	3	JOC	1622	1.00	1652	-	53.46607	-9.18795	SW	0-3	Dry	Cold	0	Heard WS to NE
Non-breeding season 2024-25														
22/02/2025	1	MH	1700	1.50	1759	-	53.5365013	-9.1583484	SW	3	Dry	Cool (10-8)	1	4 x MA, 13 x T, 1 x CO, 1 x LG, 1 x ET
28/02/2025	2	JOC	0655	1.00	-	-	53.5353	-9.1593	S	3	Dry	Cold	0	None
15/03/2025	3	MH	1735	1.50	1840	-	53.537137	-9.157928	N	3	Dry	Cool	0	

Table 47: Waterbird Survey Effort

Date	Visit	Surveyor	**Start time**	**End time**	**Duration**	Wind force	Wind **direction**	Cloud (oktas)	Temperature	Rain
Non-breeding season 2022-23										
11/10/2022	1	DR	1545	1745	2.00	3	SW	8	11	Light shower
20/10/2022	1	DR	1245	1445	2.00	2	SE	6	14	None
23/10/2022	1	DR	1500	1700	2.00	1	SSE	7	15	Frequent showers
30/10/2022	1	DR	0945	1245	3.00	3	SW	6	12	Light shower
08/11/2022	1	DR	1530	1700	1.50	2	SW	7	7	2 light showers
09/11/2022	1	DR	1530	1700	1.50	3	SW	7	11	Light showers
10/11/2022	1	DR	1515	1615	1.00	5	SW	8	12	None
23/11/2022	2	DR	1515	1615	1.00	5	SW	8	8	Occasional heavy showers
07/12/2022	3	DR	1515	1645	1.50	1	Variable	5	5	None
14/12/2022	3	DR	1545	1645	1.00	1	Variable	1	-1	-
20/12/2022	3	JOC	1030	1530	5.00	5	SW	4	8	Occasional heavy showers
23/12/2022	3	JOC	0945	1245	3.00	3	SE	8	7	Frequent moderate showers
13/02/2023	4	AW	0945	1345	4.00	4	S	1	9	None
27/02/2023	5	JOC	1200	1700	5.00	3	SE	4	8	None
23/03/2023	6	JOC	1400	1700	3.00	5	SW	7	11	Heavy showers
Non-breeding season 2023-24										
25/09/2023	1	DR	0830	1130	3.00	4	SW	4	14	None
26/09/2023	1	DR	1200	1500	3.00	3	SW	5	13	One moderate shower
10/10/2023	2	DR	1415	1715	3.00	3	S	3	16	Drizzle about half the time
25/10/2023	3	DR	1145	1445	3.00	1	Variable	7	8	None
15/11/2023	4	JOC	1245	1545	3.00	2	SE	4	9	None
29/11/2023	5	JOC	1030	1530	5.00	2	SE	3	3	None

Date	Visit	Surveyor	**Start time**	**End time**	**Duration**	Wind force	Wind **direction**	Cloud (oktas)	Temperature	Rain
07/12/2023	5	JOC	1130	1530	4.00	4	SW	6	11	2 moderate showers
21/12/2023	6	JOC	1000	1600	6.00	5	W	6	11	2 light showers
18/01/2024	7	JOC	1130	1615	4.75	2	NW	2	3	None
29/01/2024	8	JOC	1200	1630	4.50	2	N	3	8	None
06/03/2024	9	JOC	1300	1800	5.00	4	SE	5	12	None
Non-breeding season 2024-25										
23/10/2024	1	AW	0830	1430	6.00	3	SE	4	11	None
14/11/2024	2	JOC	0915	1715	8.00	3	N	6	12	None
13/12/2024	3	SM	1315	1730	4.25	-	-	6	8	None
14/12/2024	3	SM	1600	1800	2.00	6	W	5	10	None
16/01/2025	4	JOC	1100	1715	6.25	4	S	6	10	None
17/02/2025	5	MH	1215	1715	5.00	5	SE	8	7	Continuous heavy showers
21/02/2025	5	JOC	1730	1900	1.50	3	S	4	9	None
13/03/2025	6	MH	1000	1130	1.50	2	N	5	6	None
14/03/2025	6	MH	1745	1920	1.58	2-1	NE	5		None
15/03/2025	6	MH	0800	1830	10.50	1	N	3	4	None