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APPENDIX 7-2

SURVEY EFFORT

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1.

SURVEY EFFORT

Table 7- 2- 1 Vantage point survey effort (Ecology Ireland)

| Date | Survey | Location | Start time | Duration (h) | Wind Dir. | Wind Speed | Rain | Cloud Cover | Visibility | Comments | Surveyor |
|------------|----------------------|----------|------------|--------------|-----------|------------|------|-------------|------------|----------|----------|
| 28/04/2023 | Vantage Point Survey | 1 | 08:34 | 6 hours | W | F2 | None | 8 | Good | | BOM |
| 28/04/2023 | Vantage Point Survey | 2 | 09:05 | 6 hours | W | F2/3 | None | 8 | Good | | JD |
| 27/04/2023 | Vantage Point Survey | 3 | 10:30 | 6 hours | SE | F3 | None | 8 | Good | | JD |
| 27/04/2023 | Vantage Point Survey | 4a | 10:05 | 6 hours | W | F2 | None | 8 | Good | | MS |
| 27/04/2023 | Vantage Point Survey | 4b | 10:06 | 6 hours | E | F4 | None | 8 | Excellent | | AD |
| 28/04/2023 | Vantage Point Survey | 5 | 09:12 | 6 hours | E | F3 | None | 8 | Excellent | | NL |
| 26/05/2023 | Vantage Point Survey | 1 | - | 6 hours | - | - | - | - | - | | NL |
| 26/05/2023 | Vantage Point Survey | 2 | 09:01 | 6 hours | NE | F2-4 | None | 3 | Yes | | AD |
| 26/05/2023 | Vantage Point Survey | 3 | 09:17 | 6 hours | NE | F1-2 | None | 1 | Excellent | | PR |
| 25/05/2023 | Vantage Point Survey | 4a | 09:21 | 6 hours | NE | F3-4 | None | 3 | Yes | | AD |
| 25/05/2023 | Vantage Point Survey | 4b | 08:45 | 6 hours | NE | F1-2 | None | 8 | Good | | JD |
| 26/05/2023 | Vantage Point Survey | 5 | 09:15 | 6 hours | E/N | F2-3 | None | 2 | Good | | JD |

| Date | Survey | Location | Start time | Duration (h) | Wind Dir. | Wind Speed | Rain | Cloud Cover | Visibility | Comments | Surveyor |
|------------|----------------------|----------|------------|--------------|-----------|------------|----------------------------|-------------|------------------|----------|----------|
| 21/06/2023 | Vantage Point Survey | 1 | 08:52 | 6 hours | SW | F2 | None | 4 | Excellent | | AD |
| 21/06/2023 | Vantage Point Survey | 2 | 09:15 | 6 hours | W | F3-4 | Light Showers | 4 | Good | | JD |
| 21/06/2023 | Vantage Point Survey | 3 | 09:25 | 6 hours | W | F4-8 | Light Showers | 4 | Good-Fair | | BOM |
| 22/06/2023 | Vantage Point Survey | 4a | 08:49 | 6 hours | W | F0-1 | None | 0 | Excellent | | PR |
| 21/06/2023 | Vantage Point Survey | 4b | 08:45 | 6 hours | SW | F2-4 | None | 0 | Excellent | | AD |
| 21/06/2023 | Vantage Point Survey | 5 | 09:25 | 6 hours | SW | F3 | Some Showers | 3 | Excellent | | NL |
| 18/07/2023 | Vantage Point Survey | 1 | 08:30 | 6 hours | NW | F1-2 | Light Rain Passing Showers | 8 | Moderate To Good | | JD |
| 18/07/2023 | Vantage Point Survey | 2 | 09:10 | 6 hours | W- NW | F1-3 | One Shower | 8 | Good | | BOM |
| 25/07/2023 | Vantage Point Survey | 3 | 09:03 | 6 hours | W | F1-3 | None | 4 | Excellent | | NL |
| 25/07/2023 | Vantage Point Survey | 4a | 08:50 | 6 hours | SW | F2 | None | 5 | Good | | BOM |
| 18/07/2023 | Vantage Point Survey | 4b | 08:42 | 6 hours | SW | F1 | None | 3 | Good | | MS |
| 25/07/2023 | Vantage Point Survey | 5 | 09:00 | 6 hours | SW | F2 | None | 6 | Excellent | | AD |
| 29/08/2023 | Vantage Point Survey | 1 | 08:48 | 6 hours | - | F3-4 | Light Showers | 4 | Good | | MK |
| 29/08/2023 | Vantage Point Survey | 2 | 09:05 | 6 hours | NW | F3-4 | Light Showers | 4 | Good | | JD |

| Date | Survey | Location | Start time | Duration (h) | Wind Dir. | Wind Speed | Rain | Cloud Cover | Visibility | Comments | Surveyor |
|------------|----------------------|----------|------------|--------------|-----------|------------|---------------|-------------|------------|----------|----------|
| 29/08/2023 | Vantage Point Survey | 3 | 09:04 | 6 hours | NNW | F4 | Brief Showers | 6 | Good | | BOM |
| 29/08/2023 | Vantage Point Survey | 4a | 08:50 | 6 hours | NW | F4 | None | 5 | Excellent | | AD |
| 29/08/2023 | Vantage Point Survey | 4b | 08:40 | 6 hours | NW | F1-2 | None | 8 | Good | | PR |
| 29/08/2023 | Vantage Point Survey | 5 | 09:03 | 6 hours | NW | F4 | None | 4 | Good | | MS |
| 07/09/2023 | Vantage Point Survey | 1 | 07:36 | 6 hours | - | F3 | Dry | 8 | Good | | MK |
| 28/09/2023 | Vantage Point Survey | 2 | 08:00 | 6 hours | - | F3 | None | 8 | Good | | PR |
| 28/09/2023 | Vantage Point Survey | 3 | 08:00 | 6 hours | S | F5 | Showers | 8 | Good | | AD |
| 28/09/2023 | Vantage Point Survey | 4a | 08:00 | 6 hours | S | F3 | Showers | 8 | Good | | JD |
| 28/09/2023 | Vantage Point Survey | 4b | 08:10 | 6 hours | - | F4 | Heavy Showers | 8 | Excellent | | NL |
| 28/09/2023 | Vantage Point Survey | 5 | 07:45 | 6 hours | - | F4 | Heavy Showers | 8 | Moderate | | MS |

Table 7 - 2 - 2 Vantage point survey effort (MKO)

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|----------------------|----------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------|
| 27/11/2023 | Vantage Point Survey | VP1 | 3:00 starting at 07:20 | Visibility: poor; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none | constant fog and drizzle, poor visibility | TK |
| 27/11/2023 | Vantage Point Survey | VP1 | 3:00 starting at 10:50 | Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none | | TK |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|----------------------|----------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------|
| 28/11/2023 | Vantage Point Survey | VP2 | 3:00 starting at 07:20 | Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 28/11/2023 | Vantage Point Survey | VP2 | 3:00 starting at 10:50 | Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 29/11/2023 | Vantage Point Survey | VP3 | 3:00 starting at 07:20 | Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 29/11/2023 | Vantage Point Survey | VP3 | 3:00 starting at 10:50 | Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 30/11/2023 | Vantage Point Survey | VP2 | 3:00 starting at 07:20 | Visibility: moderate; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: none | catch up for October surveys, difficult to hear with turbine sound and to see with slight fog and darkness | TK |
| 30/11/2023 | Vantage Point Survey | VP2 | 3:00 starting at 14:30 | Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | catch up for October surveys | TK |
| 05/12/2023 | Vantage Point Survey | VP1 | 3:00 starting at 11:00 | Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: light; Snow: none | | EC |
| 05/12/2023 | Vantage Point Survey | VP1 | 3:00 starting at 14:30 | Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 12/12/2023 | Vantage Point Survey | VP3 | 3:00 starting at 10:55 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 12/12/2023 | Vantage Point Survey | VP3 | 3:00 starting at 14:25 | Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none | constant drizzle | EC |
| 20/12/2023 | Vantage Point Survey | VP4 | 3:00 starting at 11:00 | Visibility: moderate; Wind speed and direction: near gale NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | constant drizzle | EC |
| 20/12/2023 | Vantage Point Survey | VP4 | 3:00 starting at 14:30 | Visibility: poor; Wind speed and direction: near gale NW; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none | Driving rain in very strong wind | EC |
| 21/12/2023 | Vantage Point Survey | VP2 | 3:00 starting at 11:00 | Visibility: moderate; Wind speed and direction: near gale W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | | EC |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|----------------------|----------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------|
| 21/12/2023 | Vantage Point Survey | VP2 | 3:00 starting at 14:30 | Visibility: poor; Wind speed and direction: near gale W; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none | | EC |
| 16/01/2024 | Vantage Point Survey | VP4 | 3:00 starting at 11:20 | Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none | Hours for October | CMC |
| 16/01/2024 | Vantage Point Survey | VP4 | 3:00 starting at 14:55 | Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none | Hours for October. Low winter sun causing a lot of glare and dark spots in the viewshed. | CMC |
| 25/01/2024 | Vantage Point Survey | VP4 | 3:00 starting at 07:30 | Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none | | EC |
| 25/01/2024 | Vantage Point Survey | VP4 | 3:00 starting at 11:00 | Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | Light showers | EC |
| 29/01/2024 | Vantage Point Survey | VP1 | 3:00 starting at 07:20 | Visibility: moderate; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% <150m; Rain: none; Frost: none; Snow: on ground | low clouds creating fog, turbine barely visible, snow on top of hill only | TK |
| 29/01/2024 | Vantage Point Survey | VP1 | 3:00 starting at 10:50 | Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none | fog lifted slightly off turbines | TK |
| 30/01/2024 | Vantage Point Survey | VP2 | 3:00 starting at 07:20 | Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none | | TK |
| 30/01/2024 | Vantage Point Survey | VP2 | 3:00 starting at 10:50 | Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none | | TK |
| 30/01/2024 | Vantage Point Survey | VP1 | 3:00 starting at 15:20 | Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | Hours for October | CMC |
| 31/01/2024 | Vantage Point Survey | VP3 | 3:00 starting at 07:15 | Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none | | TK |
| 31/01/2024 | Vantage Point Survey | VP3 | 3:00 starting at 10:45 | Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none | | TK |
| 01/02/2024 | Vantage Point Survey | VP1 | 3:00 starting at 11:40 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | Hours for October | CMC |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|----------------------|----------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------|
| 20/02/2024 | Vantage Point Survey | VP4 | 1:00 starting at 12:30 | Visibility: poor; Wind speed and direction: light air W; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none | | CMC |
| 20/02/2024 | Vantage Point Survey | VP4 | 2:00 starting at 13:30 | Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 20/02/2024 | Vantage Point Survey | VP4 | 3:00 starting at 16:00 | Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | Three woodcock flushed while driving out of knockacummer wind farm. | CMC |
| 21/02/2024 | Vantage Point Survey | VP2 | 3:00 starting at 12:30 | Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | Strong winds, turbines very loud making it difficult to hear any calls. | CMC |
| 21/02/2024 | Vantage Point Survey | VP2 | 3:00 starting at 16:00 | Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | No birds seen or heard today. | CMC |
| 22/02/2024 | Vantage Point Survey | VP1 | 3:00 starting at 12:30 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | Sleet showers | CMC |
| 22/02/2024 | Vantage Point Survey | VP1 | 3:00 starting at 16:00 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none | | CMC |
| 27/02/2024 | Vantage Point Survey | VP3 | 3:00 starting at 12:40 | Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 27/02/2024 | Vantage Point Survey | VP3 | 3:00 starting at 16:10 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 05/03/2024 | Vantage Point Survey | VP3 | 3:00 starting at 13:00 | Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | Hours for October | CMC |
| 05/03/2024 | Vantage Point Survey | VP3 | 3:00 starting at 16:30 | Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | Hours for October | CMC |
| 06/03/2024 | Vantage Point Survey | VP4 | 2:00 starting at 06:15 | Visibility: limited; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none | Woodcock flushed on the drive through knockacummer wind farm. | CMC |
| 06/03/2024 | Vantage Point Survey | VP4 | 1:00 starting at 08:15 | Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none | | CMC |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|----------------------|----------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------|
| 06/03/2024 | Vantage Point Survey | VP4 | 1:00 starting at 09:45 | Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none | | CMC |
| 06/03/2024 | Vantage Point Survey | VP4 | 2:00 starting at 10:45 | Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none | | CMC |
| 22/03/2024 | Vantage Point Survey | VP1 | 3:00 starting at 05:40 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none | | EC |
| 22/03/2024 | Vantage Point Survey | VP1 | 3:00 starting at 09:10 | Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | Hail showers | EC |
| 26/03/2024 | Vantage Point Survey | VP3 | 3:00 starting at 05:25 | Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | heavy showers | EC |
| 26/03/2024 | Vantage Point Survey | VP3 | 3:00 starting at 08:55 | Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | heavy showers | EC |
| 27/03/2024 | Vantage Point Survey | VP2 | 3:00 starting at 05:20 | Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 27/03/2024 | Vantage Point Survey | VP2 | 3:00 starting at 12:00 | Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: falling | Moved VP from the turbine base and did the VP from the van as the turbine blades were throwing ice. | CMC |
| 16/04/2024 | Vantage Point Survey | VP1 | 3:00 starting at 15:10 | Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 16/04/2024 | Vantage Point Survey | VP1 | 3:00 starting at 18:40 | Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 17/04/2024 | Vantage Point Survey | VP2 | 3:00 starting at 15:10 | Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 17/04/2024 | Vantage Point Survey | VP2 | 3:00 starting at 18:40 | Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 19/04/2024 | Vantage Point Survey | VP4 | 3:00 starting at 15:10 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|----------------------|----------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------|
| 19/04/2024 | Vantage Point Survey | VP4 | 3:00 starting at 18:40 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 30/04/2024 | Vantage Point Survey | VP3 | 3:00 starting at 15:30 | Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | | EC |
| 30/04/2024 | Vantage Point Survey | VP3 | 3:00 starting at 19:00 | Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 10/05/2024 | Vantage Point Survey | VP3 | 3:00 starting at 04:50 | Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 10/05/2024 | Vantage Point Survey | VP3 | 3:00 starting at 08:20 | Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 24/05/2024 | Vantage Point Survey | VP2 | 3:00 starting at 04:30 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 24/05/2024 | Vantage Point Survey | VP2 | 3:00 starting at 08:00 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 29/05/2024 | Vantage Point Survey | VP4 | 3:00 starting at 04:25 | Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | misty conditions | EC |
| 29/05/2024 | Vantage Point Survey | VP4 | 3:00 starting at 07:55 | Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | misty conditions & heavy showers | EC |
| 31/05/2024 | Vantage Point Survey | VP1 | 3:00 starting at 04:20 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 31/05/2024 | Vantage Point Survey | VP1 | 3:00 starting at 07:50 | Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 12/06/2024 | Vantage Point Survey | VP3 | 3:00 starting at 08:05 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 12/06/2024 | Vantage Point Survey | VP3 | 3:05 starting at 11:30 | Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 13/06/2024 | Vantage Point Survey | VP1 | 3:00 starting at 07:15 | Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | light showers | EC |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|----------------------|----------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------|
| 13/06/2024 | Vantage Point Survey | VP1 | 3:00 starting at 10:45 | Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 18/06/2024 | Vantage Point Survey | VP2 | 3:00 starting at 07:25 | Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 18/06/2024 | Vantage Point Survey | VP2 | 3:00 starting at 10:55 | Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 02/07/2024 | Vantage Point Survey | VP3 | 3:00 starting at 08:00 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 02/07/2024 | Vantage Point Survey | VP3 | 3:00 starting at 11:30 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | hazy sunshine | EC |
| 03/07/2024 | Vantage Point Survey | VP4 | 1:35 starting at 14:35 | Visibility: moderate; Wind speed and direction: strong breeze N; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | June Effort | CR |
| 03/07/2024 | Vantage Point Survey | VP4 | 2:30 starting at 16:50 | Visibility: good; Wind speed and direction: near gale N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | June Effort | CR |
| 03/07/2024 | Vantage Point Survey | VP4 | 2:35 starting at 19:35 | Visibility: good; Wind speed and direction: strong breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | June Effort | CR |
| 05/07/2024 | Vantage Point Survey | VP1 | 3:00 starting at 07:05 | Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 05/07/2024 | Vantage Point Survey | VP1 | 3:00 starting at 10:35 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 11/07/2024 | Vantage Point Survey | VP2 | 3:00 starting at 09:00 | Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 11/07/2024 | Vantage Point Survey | VP2 | 3:00 starting at 12:30 | Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | Very quiet survey, only meadow pipits seen. | CMC |
| 30/07/2024 | Vantage Point Survey | VP4 | 3:00 starting at 12:30 | Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 30/07/2024 | Vantage Point Survey | VP4 | 3:00 starting at 16:00 | Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | Buzzard heard calling on and off throughout, but not seen | CMC |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|----------------------|----------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| 07/08/2024 | Vantage Point Survey | VP3 | 3:00 starting at 07:45 | Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 07/08/2024 | Vantage Point Survey | VP3 | 3:00 starting at 11:15 | Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 21/08/2024 | Vantage Point Survey | VP2 | 3:00 starting at 08:55 | Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | | EC |
| 21/08/2024 | Vantage Point Survey | VP2 | 3:00 starting at 12:25 | Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 27/08/2024 | Vantage Point Survey | VP1 | 3:00 starting at 08:10 | Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 27/08/2024 | Vantage Point Survey | VP1 | 3:00 starting at 11:40 | Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 28/08/2024 | Vantage Point Survey | VP4 | 3:00 starting at 08:15 | Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 28/08/2024 | Vantage Point Survey | VP4 | 3:00 starting at 11:45 | Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 04/09/2024 | Vantage Point Survey | VP2 | 3:00 starting at 06:10 | Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | CR |
| 04/09/2024 | Vantage Point Survey | VP2 | 3:00 starting at 09:40 | Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | CR |
| 10/09/2024 | Vantage Point Survey | VP1 | 3:00 starting at 06:00 | Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 10/09/2024 | Vantage Point Survey | VP1 | 3:00 starting at 09:30 | Visibility: moderate; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 17/09/2024 | Vantage Point Survey | VP3 | 3:00 starting at 06:15 | Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|----------------------|----------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|
| 17/09/2024 | Vantage Point Survey | VP3 | 3:00 starting at 09:45 | Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 25/09/2024 | Vantage Point Survey | VP4 | 3:00 starting at 06:25 | Visibility: moderate; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | frequent showers | EC |
| 25/09/2024 | Vantage Point Survey | VP4 | 3:00 starting at 09:55 | Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none | | EC |

Table 7 - 2 - 3 Breeding walkover survey effort (MKO)

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|--------------------------|-----------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------|
| 04/04/2024 | Breeding Walkover Survey | T1-2 | 3:00 starting at 13:30 | Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none | | TK |
| 04/04/2024 | Breeding Walkover Survey | T3-4 | 3:00 starting at 16:30 | Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none | | TK |
| 08/04/2024 | Breeding Walkover Survey | T5-6 | 3:00 starting at 14:30 | Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none | sleet | TK |
| 08/04/2024 | Breeding Walkover Survey | T7,8,9 | 3:00 starting at 17:30 | Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none | | TK |
| 22/05/2024 | Breeding Walkover Survey | 500m Survey Radius | 5:30 starting at 10:00 | Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | T1, T2, T3, T8 & T9. Meadow pipits were all along T2 & T3, too many observations to map | CMC |
| 23/05/2024 | Breeding Walkover Survey | 500m Survey Radius | 4:00 starting at 11:00 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: ; Frost: none; Snow: none | T4, T5, T6, and T7. Also did a short VP at BR2 after the hen harrier sighting. | CMC |
| 28/06/2024 | Breeding Walkover Survey | T1, T2, T3, T4 and T9 | 5:11 starting at 08:20 | Visibility: good; Wind speed and direction: near gale N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CR |
| 28/06/2024 | Breeding Walkover Survey | T5, T6, T7, and T8 | 3:15 starting at 14:30 | Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 24/07/2024 | Breeding Walkover Survey | T1, T2, T3, T8, T9 | 5:00 starting at 09:00 | Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 25/07/2024 | Breeding Walkover Survey | T4 - T7 | 4:00 starting at 10:00 | Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | | CMC |

Table 7 - 2 - 4 Breeding raptor survey effort (MKO)

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|------------------------|------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 09/04/2024 | Breeding Raptor Survey | BR2 | 3:00 starting at 06:45 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: light showers; Frost: none; Snow: none | No hen harriers observed | CMC |
| 09/04/2024 | Breeding Raptor Survey | BRT1 | 3:00 starting at 09:45 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: light showers; Frost: none; Snow: none | No hen harriers observed | CMC |
| 11/04/2024 | Breeding Raptor Survey | BR6 & BRT3 | 6:00 starting at 06:30 | Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | No hen harriers observed. Habitat looks very promising, more so the northern half. Mix of vantage points from BR6 and walking the transect to try and cover the whole area. | CMC |
| 16/04/2024 | Breeding Raptor Survey | BR1 | 3:00 starting at 09:15 | Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | CMC |
| 18/04/2024 | Breeding Raptor Survey | BR4 | 3:00 starting at 06:30 | Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | Heavy fog for first hour reducing visibility | CMC |
| 18/04/2024 | Breeding Raptor Survey | BRT2 | 3:00 starting at 09:30 | Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 26/04/2024 | Breeding Raptor Survey | BR3 | 3:00 starting at 09:15 | Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 21/05/2024 | Breeding Raptor Survey | BRVP3 | 3:00 starting at 08:30 | Visibility: poor; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | misty conditions | EC |
| 21/05/2024 | Breeding Raptor Survey | BRVP1 | 3:00 starting at 11:45 | Visibility: poor; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | misty conditions improved to good visibility at 13:00 | EC |
| 23/05/2024 | Breeding Raptor Survey | BRVP5 | 3:00 starting at 08:30 | Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 23/05/2024 | Breeding Raptor Survey | BRT3 | 3:00 starting at 11:45 | Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 28/05/2024 | Breeding Raptor Survey | BR4 | 3:00 starting at 07:30 | Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | misty conditions | EC |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|------------------------|----------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|
| 28/05/2024 | Breeding Raptor Survey | BRT2 | 3:00 starting at 11:00 | Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | | EC |
| 30/05/2024 | Breeding Raptor Survey | BRT1 | 3:00 starting at 07:45 | Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 30/05/2024 | Breeding Raptor Survey | BR2 | 3:00 starting at 11:00 | Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 11/06/2024 | Breeding Raptor Survey | BR1 | 3:00 starting at 07:50 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 11/06/2024 | Breeding Raptor Survey | BR3 | 3:00 starting at 11:05 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 19/06/2024 | Breeding Raptor Survey | BR5 | 3:00 starting at 08:30 | Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 19/06/2024 | Breeding Raptor Survey | BRT3 | 3:00 starting at 11:45 | Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 25/06/2024 | Breeding Raptor Survey | BRT1 | 3:00 starting at 08:00 | Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | misty conditions | EC |
| 25/06/2024 | Breeding Raptor Survey | BR2 | 3:00 starting at 11:20 | Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 26/06/2024 | Breeding Raptor Survey | BR4 | 3:00 starting at 07:55 | Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 26/06/2024 | Breeding Raptor Survey | BRT2 | 3:00 starting at 11:05 | Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 03/07/2024 | Breeding Raptor Survey | BR1 | 3:00 starting at 08:10 | Visibility: poor; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none | misty conditions | EC |
| 03/07/2024 | Breeding Raptor Survey | BR3 | 3:00 starting at 11:25 | Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | heavy showers | EC |
| 04/07/2024 | Breeding Raptor Survey | BRT3 | 3:00 starting at 07:50 | Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|------------------------|----------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| 04/07/2024 | Breeding Raptor Survey | BR5 | 3:00 starting at 11:00 | Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 16/07/2024 | Breeding Raptor Survey | BR4 | 3:00 starting at 08:00 | Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 16/07/2024 | Breeding Raptor Survey | BRT2 | 3:00 starting at 11:10 | Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | EC |
| 23/07/2024 | Breeding Raptor Survey | BRT1 | 3:00 starting at 07:05 | Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 23/07/2024 | Breeding Raptor Survey | BR2 | 3:00 starting at 10:15 | Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | | EC |

Table 7 - 2 - 5 Breeding woodcock survey effort (MKO)

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|--------------------------|----------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|
| 08/05/2024 | Breeding Woodcock Survey | T1 | 2:00 starting at 20:10 | Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | No woodcock recorded | CMC |
| 09/05/2024 | Breeding Woodcock Survey | T2 | 2:00 starting at 20:10 | Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | No woodcock recorded | CMC |
| 04/06/2024 | Breeding Woodcock Survey | T2 | 2:00 starting at 20:55 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | No woodcock recorded | CMC |
| 05/06/2024 | Breeding Woodcock Survey | T1 | 2:00 starting at 20:55 | Visibility: good; Wind speed and direction: light air WNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | No woodcock recorded | CMC |
| 20/06/2024 | Breeding Woodcock Survey | T2 | 2:00 starting at 21:05 | Visibility: good; Wind speed and direction: light air SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | No woodcock recorded | CMC |
| 21/06/2024 | Breeding Woodcock Survey | T1 | 2:00 starting at 21:05 | Visibility: good; Wind speed and direction: light air WSW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | No woodcock recorded | CMC |

Table 7 - 2 - 6 Breeding nightjar survey effort (MKO)

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|--------------------------|----------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| 04/06/2024 | Breeding Nightjar Survey | T1 | 1:00 starting at 22:55 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 05/06/2024 | Breeding Nightjar Survey | T1 | 0:30 starting at 23:05 | Visibility: good; Wind speed and direction: light air WNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |

Table 7 - 2 - 7 Breeding red grouse survey effort (MKO)

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|----------------------------|----------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------|
| 07/02/2024 | Breeding Red Grouse Survey | T1 | 0:40 starting at 11:00 | Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | Three red grouse flushed, no call backs | CMC |
| 07/02/2024 | Breeding Red Grouse Survey | T2 | 0:10 starting at 12:15 | Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | Flushed one red grouse | CMC |
| 07/02/2024 | Breeding Red Grouse Survey | T3 | 0:40 starting at 12:30 | Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | No red grouse | CMC |
| 07/02/2024 | Breeding Red Grouse Survey | T4 | 0:40 starting at 14:00 | Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none | No red grouse | CMC |
| 07/02/2024 | Breeding Red Grouse Survey | T5 | 0:20 starting at 15:10 | Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | No red grouse | CMC |
| 07/02/2024 | Breeding Red Grouse Survey | T6 | 0:50 starting at 15:45 | Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | No red grouse | CMC |

Table 7 - 2 - 8 Winter walkover survey effort (MKO)

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|------------------------|--------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------|
| 24/11/2023 | Winter Walkover Survey | 500m Survey Radius | 3:50 starting at 10:00 | Visibility: moderate; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | visibility and cloud height improved at 11:30 | EC |
| 14/12/2023 | Winter Walkover Survey | 500m Survey Radius | 5:15 starting at 09:00 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | Turbines spinning quickly and loudly, hard to hear any bird song in the windfarm | CMC |
| 24/01/2024 | Winter Walkover Survey | 500m Survey Radius | 6:00 starting at 10:15 | Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | Disturbance; person with two springers hunting woodcock | CMC |
| 28/02/2024 | Winter Walkover Survey | 500m Survey Radius | 6:00 starting at 10:30 | Visibility: limited; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | Loud wind and turbines, constant drizzle | CMC |
| 21/03/2024 | Winter Walkover Survey | 500m Survey Radius | 6:00 starting at 09:30 | Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none | Very loud on site with wind and turbines, very hard to hear bird calls even standing beside them | CMC |

Table 7 - 2 - 9 Hen harrier roost survey effort (MKO)

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|--------------------------|----------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------|
| 28/11/2023 | Hen Harrier Roost Survey | HHVP2 | 1:45 starting at 15:30 | Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | Had to move VP so late start | CMC |
| 29/11/2023 | Hen Harrier Roost Survey | HHVP3 | 1:00 starting at 16:00 | Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | Trouble with access, hence late start | CMC |
| 30/11/2023 | Hen Harrier Roost Survey | HHVP1 | 2:45 starting at 14:30 | Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none | No HH recorded | CMC |
| 11/12/2023 | Hen Harrier Roost Survey | HHVP1 | 2:35 starting at 14:25 | Visibility: moderate; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none | VP carried out lower down the hill due to low cloud/rain. | CMC |
| 12/12/2023 | Hen Harrier Roost Survey | HHVP2 | 2:35 starting at 14:25 | Visibility: poor; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none | | CMC |
| 18/12/2023 | Hen Harrier Roost Survey | HHVP3 | 2:30 starting at 14:30 | Visibility: poor; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none | | EC |
| 09/01/2024 | Hen Harrier Roost Survey | HHVP1 | 2:30 starting at 14:45 | Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: heavy; Snow: none | | CMC |
| 17/01/2024 | Hen Harrier Roost Survey | HHVP2 | 2:30 starting at 14:55 | Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none | | CMC |
| 22/01/2024 | Hen Harrier Roost Survey | HHVP3 | 2:30 starting at 15:05 | Visibility: moderate; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: none | yellow warning wind and storm, no hen harrier recorded | TK |
| 01/02/2024 | Hen Harrier Roost Survey | HHVP1 | 2:30 starting at 15:20 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 08/02/2024 | Hen Harrier Roost Survey | HHVP2 | 0:40 starting at 15:20 | Visibility: moderate; Wind speed and direction: light air E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none | | CMC |
| 08/02/2024 | Hen Harrier Roost Survey | HHVP2 | 1:50 starting at 16:00 | Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 26/02/2024 | Hen Harrier Roost Survey | HHVP3 | 2:30 starting at 16:10 | Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none | | CMC |
| 25/03/2024 | Hen Harrier Roost Survey | HHVP2 | 2:30 starting at 17:00 | Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | | CMC |

| Date | Survey | Location | Duration (h) | Weather Conditions | Comments | Surveyor |
|------------|--------------------------|----------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| 26/03/2024 | Hen Harrier Roost Survey | HHVP3 | 2:30 starting at 17:00 | Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | | CMC |
| 27/03/2024 | Hen Harrier Roost Survey | HHVP1 | 2:30 starting at 17:00 | Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none | | CMC |

RECEIVED: 02/09/2025