



APPENDIX 7-1

SURVEY EFFORT

Table of Contents

<i>Table 7 - 1 - 1 Vantage point survey effort.....</i>	<i>1</i>
<i>Table 7 - 1 - 2 Winter walkover survey effort.....</i>	<i>28</i>
<i>Table 7 - 1 - 3 Breeding walkover survey effort.....</i>	<i>31</i>
<i>Table 7 - 1 - 4 Waterbird distribution and abundance survey effort.....</i>	<i>33</i>
<i>Table 7 - 1 - 5 Hen harrier roost survey effort.....</i>	<i>46</i>
<i>Table 7 - 1 - 6 Breeding raptor survey effort.....</i>	<i>56</i>
<i>Table 7 - 1 - 7 Breeding long-eared owl survey effort.....</i>	<i>62</i>
<i>Table 7 - 1 - 8 Barn owl survey effort.....</i>	<i>62</i>
<i>Figure 7 - 1 - 1 Vantage point survey locations.....</i>	<i>63</i>
<i>Figure 7 - 1 - 2 Vantage point survey viewsheds at 18m minimum rotor height.....</i>	<i>64</i>
<i>Figure 7 - 1 - 3 Vantage point survey viewsheds at 25m minimum rotor height.....</i>	<i>65</i>
<i>Figure 7 - 1 - 4 Vantage point survey viewsheds at 30m minimum rotor height.....</i>	<i>66</i>
<i>Figure 7 - 1 - 5 Winter and breeding walkover transect routes 2019-2021.....</i>	<i>67</i>
<i>Figure 7 - 1 - 6 Winter and breeding walkover transect routes 2024-2025.....</i>	<i>68</i>
<i>Figure 7 - 1 - 7 Waterbird distribution and abundance survey locations.....</i>	<i>69</i>
<i>Figure 7 - 1 - 8 Hen harrier roost survey locations.....</i>	<i>70</i>
<i>Figure 7 - 1 - 9 Breeding raptor survey locations.....</i>	<i>71</i>
<i>Figure 7 - 1 - 10 Barn owl survey locations.....</i>	<i>72</i>

1.

SURVEY EFFORT

Table 7 - 1 - 1 Vantage point survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/10/2019	Vantage Point Survey	VP1	3:00 starting at 13:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: drizzle; Frost: none; Snow: none	1-2 mist showers. Polite encounter with landowner on bogland.	MP
16/10/2019	Vantage Point Survey	VP1	3:00 starting at 16:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	2 Irish hares on bog at sunset.	MP
24/10/2019	Vantage Point Survey	VP2	3:00 starting at 12:40	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none	Single heavy shower at 14:00	MP
24/10/2019	Vantage Point Survey	VP2	3:00 starting at 16:10	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	6-7 rabbits observed by lough	MP
29/10/2019	Vantage Point Survey	VP3	3:00 starting at 11:30	Visibility: good; Wind speed and direction: fresh breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	At 11am, prior to getting on site, observation of 19 whooper swan feeding in grassland by VP2 (spotted while driving to VP3)	MP
29/10/2019	Vantage Point Survey	VP3	3:00 starting at 15:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MP
08/11/2019	Vantage Point Survey	VP1	3:00 starting at 06:55	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		MP
08/11/2019	Vantage Point Survey	VP1	3:00 starting at 10:25	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Moderate vizability due to frost evaporating and creating patches of fog and blurred air in the distance	MP
14/11/2019	Vantage Point Survey	VP2	3:00 starting at 07:00	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		MP
14/11/2019	Vantage Point Survey	VP2	3:00 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		MP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
15/11/2019	Vantage Point Survey	VP3	3:00 starting at 07:10	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		MP
15/11/2019	Vantage Point Survey	VP3	3:00 starting at 10:40	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		MP
06/12/2019	Vantage Point Survey	VP1	3:00 starting at 10:30	Visibility: moderate; Wind speed and direction: strong breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Other species: hooded crow, jackdaw, raven, rook, magpie, reed bunting, blackbird, song thrush, stonechat, wren, robin, pheasant, great tit	MP
06/12/2019	Vantage Point Survey	VP1	3:00 starting at 14:00	Visibility: moderate; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Light showers at 15:30 and 16:20	MP
11/12/2019	Vantage Point Survey	VP2	3:00 starting at 10:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Present on lough upon arrival: c.30 wigeon, c.30 teal, c.10 mallard, c.10 shoveler, c.4 coot, c.1 moorhen, 2 mute swan. Other species: hooded crow, jackdaw, rook, reed bunting, blue tit, great tit, song thrush, fieldfare, redwing, blackbird, robin, wren, pheasant, magpie, stonechat, starling, woodpigeon	MP
11/12/2019	Vantage Point Survey	VP2	3:00 starting at 14:00	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Multiple heavy showers and hail showers throughout the day	MP
16/12/2019	Vantage Point Survey	VP3	3:00 starting at 10:30	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: light; Snow: none	Frost on ground until 11:30	MP
16/12/2019	Vantage Point Survey	VP3	3:00 starting at 14:00	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	Chat with landowner	MP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
17/01/2020	Vantage Point Survey	VP1	3:00 starting at 08:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: none	Frost on ground until 9:00	MP
17/01/2020	Vantage Point Survey	VP1	3:00 starting at 11:30	Visibility: moderate; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Light shower 11:30-12:00, misty after	MP
21/01/2020	Vantage Point Survey	VP2	3:00 starting at 07:45	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none	Present on lough upon arrival: c.60 wigeon, c.20 shoveler, 61 whooper swan, c.6 coot, 2 mute swan, c.20 teal, c.10 lapwing	MP
21/01/2020	Vantage Point Survey	VP2	3:00 starting at 11:15	Visibility: poor; Wind speed and direction: light breeze SW; Cloud cover and height: 100% <150m; Rain: drizzle; Frost: none; Snow: none	Misty until 13:30	MP
24/01/2020	Vantage Point Survey	VP3	3:00 starting at 07:30	Visibility: limited; Wind speed and direction: gentle breeze SW; Cloud cover and height: 100% <150m; Rain: drizzle; Frost: none; Snow: none	Fog lifted around 10:00. Whooper swan heard calling to south of site (noted on map) through the morning, no visibility	MP
24/01/2020	Vantage Point Survey	VP3	3:00 starting at 11:00	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Other species: wren, robin, song thrush, blackbird, great tit, woodpigeon, fieldfare, pheasant, hooded crow, jackdaw, rook, starling	MP
06/02/2020	Vantage Point Survey	VP1	3:00 starting at 12:00	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		MP
06/02/2020	Vantage Point Survey	VP1	3:00 starting at 15:30	Visibility: moderate; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Other species: woodpigeon, hooded crow, rook, jackdaw, fieldfare, wren, blackbird, linnet, reed bunting, magpie	MP
20/02/2020	Vantage Point Survey	VP2	3:00 starting at 12:10	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Scattered heavy rain/hail showers with strong winds throughout the day.	MP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
20/02/2020	Vantage Point Survey	VP2	3:00 starting at 15:40	Visibility: moderate; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	On lough upon arrival: 40 wigeon, 21 shoveler, 1 whooper swan, 9 coot, 65 mallard, 2 mute swan. 26 whooper swan feeding on grassland + dead one (reported to NPWS)	MP
25/02/2020	Vantage Point Survey	VP3	3:00 starting at 12:15	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: falling	Snow and hail showers throughout the day	MP
25/02/2020	Vantage Point Survey	VP3	3:00 starting at 15:45	Visibility: moderate; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: falling	Snow and hail showers throughout the day	MP
03/03/2020	Vantage Point Survey	VP1	3:00 starting at 06:30	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Light shower at 7:00	MP
03/03/2020	Vantage Point Survey	VP1	3:00 starting at 10:00	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Light shower at 11:00. Other species: song thrush, hooded crow, rook, jackdaw, woodpigeon, chaffinch, meadow pipit, magpie, pheasant, stonechat, starling, fieldfare, reed bunting	MP
06/03/2020	Vantage Point Survey	VP2	3:00 starting at 06:15	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	On lough on arrival: 109 whooper swan, 8 shoveler, 25 wigeon, 6 coot, 4 teal, 1 heron, 1 little egret, 10 lapwing, 2 moorhen, 2 mute swan. At 7:30, 9 whooper swan walked up the hill to feeding ground	MP
06/03/2020	Vantage Point Survey	VP2	3:00 starting at 09:45	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none	Regular hourly rain/hail showers throughout the day	MP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
10/03/2020	Vantage Point Survey	VP3	3:00 starting at 06:00	Visibility: moderate; Wind speed and direction: strong breeze SW; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Other species: pheasant, wren, robin, blackbird, magpie, chaffinch, meadow pipit	MP
10/03/2020	Vantage Point Survey	VP3	3:00 starting at 09:30	Visibility: moderate; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		MP
09/04/2020	Vantage Point Survey	VP1	3:00 starting at 15:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 30% >500m; Rain: none; Frost: none; Snow: none		JK
09/04/2020	Vantage Point Survey	VP1	3:00 starting at 18:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 30% >500m; Rain: none; Frost: none; Snow: none		JK
14/04/2020	Vantage Point Survey	VP2	3:00 starting at 15:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
14/04/2020	Vantage Point Survey	VP2	3:00 starting at 18:30	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
15/04/2020	Vantage Point Survey	VP3	3:00 starting at 15:00	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
15/04/2020	Vantage Point Survey	VP3	3:00 starting at 18:30	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
08/05/2020	Vantage Point Survey	VP1	3:00 starting at 05:00	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	A lot of cuckoo activity (at least 4 individuals - 3 males, 1 female) with interaction with meadow pipit and skylark	MP
08/05/2020	Vantage Point Survey	VP1	3:00 starting at 08:30	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Other species: song thrush, pheasant, cuckoo, woodpigeon, willow warbler, stonechat, skylark, jackdaw, rook, hooded crow, magpie, meadow pipit, sedge warbler, house martin	MP
21/05/2020	Vantage Point Survey	VP3	3:00 starting at 04:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Fog on bog until 5:30. Incidental barn owl	MP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
21/05/2020	Vantage Point Survey	VP3	3:00 starting at 08:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Other species: cuckoo, barn swallow, willow warbler, blackbird, robin, sedge warbler, woodpigeon, pheasant, magpie, song thrush, dunnoek, jackdaw, hooded crow, linnet	MP
29/05/2020	Vantage Point Survey	VP2	3:00 starting at 04:30	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Present on lough on arrival: 1 whooper swan, 2 lapwing, 3 grey heron hunting. Body of dead whooper swan on lough bank. Incidental otters	MP
29/05/2020	Vantage Point Survey	VP2	3:00 starting at 08:00	Visibility: good; Wind speed and direction: gentle breeze direction not recorded; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	hooded crow captured passerine chick from nest and flew with it. Other species: willow warbler, magpie, rook, jackdaw, blackbird, sedge warbler, barn swallow, skylark, house martin, moorhen	MP
08/06/2020	Vantage Point Survey	VP1	3:00 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
08/06/2020	Vantage Point Survey	VP1	3:00 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
15/06/2020	Vantage Point Survey	VP2	3:00 starting at 09:30	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
15/06/2020	Vantage Point Survey	VP2	3:00 starting at 13:00	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
23/06/2020	Vantage Point Survey	VP3	3:00 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
23/06/2020	Vantage Point Survey	VP3	3:00 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
07/07/2020	Vantage Point Survey	VP1	6:00 starting at 08:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none		JK
14/07/2020	Vantage Point Survey	VP2	3:00 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none		JK
21/07/2020	Vantage Point Survey	VP2	3:00 starting at 10:40	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
24/07/2020	Vantage Point Survey	VP3	3:00 starting at 10:30	Visibility: limited; Wind speed and direction: moderate breeze W; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
28/07/2020	Vantage Point Survey	VP3	3:00 starting at 10:45	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 60-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
05/08/2020	Vantage Point Survey	VP1	3:00 starting at 16:30	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
07/08/2020	Vantage Point Survey	VP3	3:00 starting at 13:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
18/08/2020	Vantage Point Survey	VP2	3:00 starting at 15:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
18/08/2020	Vantage Point Survey	VP2	3:00 starting at 19:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
26/08/2020	Vantage Point Survey	VP1	3:00 starting at 18:45	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 100% >500m; Rain: none; Frost: none; Snow: none		JK
27/08/2020	Vantage Point Survey	VP3	3:00 starting at 18:45	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 100% >500m; Rain: light showers; Frost: none; Snow: none		JK
03/09/2020	Vantage Point Survey	VP1	3:00 starting at 05:45	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 100% >500m; Rain: none; Frost: none; Snow: none		JK
03/09/2020	Vantage Point Survey	VP1	3:00 starting at 09:15	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 100% >500m; Rain: none; Frost: none; Snow: none		JK
04/09/2020	Vantage Point Survey	VP2	3:00 starting at 05:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
04/09/2020	Vantage Point Survey	VP2	3:00 starting at 09:15	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/09/2020	Vantage Point Survey	VP3	3:00 starting at 06:00	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
11/09/2020	Vantage Point Survey	VP3	3:00 starting at 09:30	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
07/10/2020	Vantage Point Survey	VP3	3:00 starting at 13:30	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none		JK
07/10/2020	Vantage Point Survey	VP3	3:00 starting at 17:00	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none		JK
15/10/2020	Vantage Point Survey	VP1	3:00 starting at 13:10	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
15/10/2020	Vantage Point Survey	VP1	3:00 starting at 16:40	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
20/10/2020	Vantage Point Survey	VP2	3:00 starting at 11:40	Visibility: poor; Wind speed and direction: moderate breeze SE; Cloud cover and height: 100% <150m; Rain: persistent; Frost: none; Snow: none		JK
22/10/2020	Vantage Point Survey	VP2	3:00 starting at 16:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 60-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
09/11/2020	Vantage Point Survey	VP1	3:00 starting at 06:45	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 60-100% >500m; Rain: none; Frost: none; Snow: none		JK
09/11/2020	Vantage Point Survey	VP1	3:00 starting at 10:15	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 60-100% >500m; Rain: none; Frost: none; Snow: none		JK
20/11/2020	Vantage Point Survey	VP3	3:00 starting at 07:00	Visibility: poor; Wind speed and direction: moderate breeze W; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
20/11/2020	Vantage Point Survey	VP3	3:00 starting at 10:30	Visibility: poor; Wind speed and direction: moderate breeze W; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
25/11/2020	Vantage Point Survey	VP2	3:00 starting at 11:50	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
27/11/2020	Vantage Point Survey	VP2	3:00 starting at 07:20	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 60-100% >500m; Rain: none; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
12/12/2020	Vantage Point Survey	VP1	3:00 starting at 10:35	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: <1 → 5% height not recorded; Rain: none; Frost: none; Snow: none		PT
12/12/2020	Vantage Point Survey	VP1	3:00 starting at 14:05	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 1 → 75% height not recorded; Rain: none; Frost: none; Snow: none		PT
14/12/2020	Vantage Point Survey	VP2	3:00 starting at 10:35	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 65-85% height not recorded; Rain: none; Frost: none; Snow: none	Mainly dry	PT
14/12/2020	Vantage Point Survey	VP2	3:15 starting at 14:05	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 1-99% height not recorded; Rain: light showers; Frost: none; Snow: none		PT
16/12/2020	Vantage Point Survey	VP3	3:00 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze WSW; Cloud cover and height: 95-100% height not recorded; Rain: none; Frost: none; Snow: none		PT
16/12/2020	Vantage Point Survey	VP3	3:00 starting at 14:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 100 → 5% height not recorded; Rain: light showers; Frost: none; Snow: none		PT
12/01/2021	Vantage Point Survey	VP2	3:00 starting at 07:45	Visibility: poor; Wind speed and direction: light breeze NE; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
12/01/2021	Vantage Point Survey	VP2	3:00 starting at 11:15	Visibility: poor; Wind speed and direction: light breeze NE; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
15/01/2021	Vantage Point Survey	VP1	3:00 starting at 07:45	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 100% >500m; Rain: none; Frost: light; Snow: none		JK
15/01/2021	Vantage Point Survey	VP1	3:00 starting at 11:15	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 100% >500m; Rain: none; Frost: light; Snow: none		JK
28/01/2021	Vantage Point Survey	VP3	2:00 starting at 08:15	Visibility: moderate; Wind speed and direction: strong breeze SW; Cloud cover and height: 100% <150m; Rain: none; Frost: none; Snow: none	61 whooper swan recorded at Horseleap Lough on way to VP. Added to QGIS using wildfowl survey layer.	PDC
28/01/2021	Vantage Point Survey	VP3	1:00 starting at 10:15	Visibility: moderate; Wind speed and direction: near gale SW; Cloud cover and height: 100% <150m; Rain: none; Frost: none; Snow: none	Excavation work going on in fields bordering the bog, not far from VP	PDC

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
28/01/2021	Vantage Point Survey	VP3	1:00 starting at 11:45	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 100% <150m; Rain: light showers; Frost: none; Snow: none		PDC
28/01/2021	Vantage Point Survey	VP3	1:00 starting at 12:45	Visibility: poor; Wind speed and direction: fresh breeze SW; Cloud cover and height: 100% <150m; Rain: persistent; Frost: none; Snow: none		PDC
28/01/2021	Vantage Point Survey	VP3	1:00 starting at 13:45	Visibility: poor; Wind speed and direction: strong breeze SW; Cloud cover and height: 100% <150m; Rain: persistent; Frost: none; Snow: none		PDC
04/02/2021	Vantage Point Survey	VP2	1:00 starting at 12:20	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CD
04/02/2021	Vantage Point Survey	VP2	1:00 starting at 13:20	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CD
04/02/2021	Vantage Point Survey	VP2	1:00 starting at 14:20	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CD
04/02/2021	Vantage Point Survey	VP2	1:00 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		CD
04/02/2021	Vantage Point Survey	VP2	1:00 starting at 16:20	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CD
04/02/2021	Vantage Point Survey	VP2	1:00 starting at 17:20	Visibility: poor; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	waterfowl calling at lake at dusk whooper swan, wigeon, teal etc, last swans arrived 18:11	CD
12/02/2021	Vantage Point Survey	VP1	3:00 starting at 12:00	Visibility: limited; Wind speed and direction: fresh breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: falling		JK
17/02/2021	Vantage Point Survey	VP1	2:00 starting at 16:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		JK
05/03/2021	Vantage Point Survey	VP3	3:00 starting at 13:00	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	February survey. Was the 6th in field notes, typo as weekend and data marked at 5th	JK
05/03/2021	Vantage Point Survey	VP3	3:00 starting at 16:30	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	February survey	JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
24/03/2021	Vantage Point Survey	VP3	3:00 starting at 05:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		JK
24/03/2021	Vantage Point Survey	VP3	3:00 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		JK
30/03/2021	Vantage Point Survey	VP1	3:00 starting at 06:15	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
30/03/2021	Vantage Point Survey	VP1	3:00 starting at 09:45	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
31/03/2021	Vantage Point Survey	VP2	3:00 starting at 06:15	Visibility: poor; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
31/03/2021	Vantage Point Survey	VP2	3:00 starting at 09:45	Visibility: poor; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
06/04/2021	Vantage Point Survey	VP2	3:00 starting at 15:20	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
06/04/2021	Vantage Point Survey	VP2	3:00 starting at 18:50	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
15/04/2021	Vantage Point Survey	VP3	3:00 starting at 15:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
15/04/2021	Vantage Point Survey	VP3	3:00 starting at 18:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
16/04/2021	Vantage Point Survey	VP1	3:00 starting at 15:00	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
16/04/2021	Vantage Point Survey	VP1	3:00 starting at 18:30	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
12/05/2021	Vantage Point Survey	VP3	3:00 starting at 04:40	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
12/05/2021	Vantage Point Survey	VP3	3:00 starting at 08:10	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/05/2021	Vantage Point Survey	VP2	3:00 starting at 04:40	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
13/05/2021	Vantage Point Survey	VP2	3:00 starting at 08:10	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
24/05/2021	Vantage Point Survey	VP1	3:00 starting at 04:25	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		JK
24/05/2021	Vantage Point Survey	VP1	3:00 starting at 07:55	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		JK
15/06/2021	Vantage Point Survey	VP3	3:00 starting at 09:30	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		JK
15/06/2021	Vantage Point Survey	VP3	3:00 starting at 13:00	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		JK
30/06/2021	Vantage Point Survey	VP1	3:00 starting at 10:30	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
30/06/2021	Vantage Point Survey	VP1	3:00 starting at 14:00	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
01/07/2021	Vantage Point Survey	VP2	3:00 starting at 10:30	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	June survey	JK
01/07/2021	Vantage Point Survey	VP2	3:00 starting at 14:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	June survey	JK
12/07/2021	Vantage Point Survey	VP1	3:00 starting at 11:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		JK
12/07/2021	Vantage Point Survey	VP1	3:00 starting at 14:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		JK
20/07/2021	Vantage Point Survey	VP3	3:00 starting at 10:30	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
20/07/2021	Vantage Point Survey	VP2	3:00 starting at 13:00	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Very hot 28 C	SJ
20/07/2021	Vantage Point Survey	VP2	3:00 starting at 16:30	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Very hot 28 C	SJ

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
21/07/2021	Vantage Point Survey	VP3	3:00 starting at 09:30	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
19/08/2021	Vantage Point Survey	VP1	3:00 starting at 10:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
19/08/2021	Vantage Point Survey	VP1	3:00 starting at 13:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
20/08/2021	Vantage Point Survey	VP2	3:00 starting at 09:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		JK
23/08/2021	Vantage Point Survey	VP3	3:00 starting at 10:00	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
23/08/2021	Vantage Point Survey	VP3	3:00 starting at 13:30	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
25/08/2021	Vantage Point Survey	VP2	3:00 starting at 12:00	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
14/09/2021	Vantage Point Survey	VP2	3:00 starting at 10:45	Visibility: poor; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	No target species	JK
20/09/2021	Vantage Point Survey	VP1	3:00 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	No target species	JK
20/09/2021	Vantage Point Survey	VP1	3:00 starting at 17:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	No target species	JK
23/09/2021	Vantage Point Survey	VP2	3:00 starting at 17:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	12 likely lapwing, spotted briefly flying across the sun, at 18:50	JK
12/10/2021	Vantage Point Survey	VP1	3:00 starting at 06:45	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
15/10/2021	Vantage Point Survey	VP2	3:00 starting at 06:50	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
15/10/2021	Vantage Point Survey	VP2	3:00 starting at 10:20	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
19/10/2021	Vantage Point Survey	VP3	3:00 starting at 07:15	Visibility: poor; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none	Rain cleared at 08:50	JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
20/10/2021	Vantage Point Survey	VP3	3:00 starting at 13:45	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
21/10/2021	Vantage Point Survey	VP1	3:00 starting at 13:45	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		JK
09/11/2021	Vantage Point Survey	VP1	3:00 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
10/11/2021	Vantage Point Survey	VP2	2:30 starting at 15:35	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		JK
16/11/2021	Vantage Point Survey	VP3	3:00 starting at 12:00	Visibility: poor; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
16/11/2021	Vantage Point Survey	VP3	3:00 starting at 15:30	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	typo in time in field form so assume the survey ran from 15:30 to 18:30 (instead of 14:45 to 17:45)	JK
19/11/2021	Vantage Point Survey	VP2	3:00 starting at 13:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
22/11/2021	Vantage Point Survey	VP1	3:00 starting at 14:30	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
01/12/2021	Vantage Point Survey	VP1	3:00 starting at 07:35	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		JK
01/12/2021	Vantage Point Survey	VP1	3:00 starting at 11:05	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		JK
02/12/2021	Vantage Point Survey	VP2	3:00 starting at 11:50	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Spits of rain	JK
06/12/2021	Vantage Point Survey	VP3	3:00 starting at 11:50	Visibility: good; Wind speed and direction: near gale W; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none		JK
14/12/2021	Vantage Point Survey	VP2	3:00 starting at 07:40	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
15/12/2021	Vantage Point Survey	VP3	3:00 starting at 07:40	Visibility: limited; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		JK
12/01/2022	Vantage Point Survey	VP2	3:00 starting at 13:00	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
13/01/2022	Vantage Point Survey	VP1	3:00 starting at 11:15	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
13/01/2022	Vantage Point Survey	VP1	3:00 starting at 14:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
19/01/2022	Vantage Point Survey	VP3	3:00 starting at 11:15	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
19/01/2022	Vantage Point Survey	VP3	3:00 starting at 14:45	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
28/01/2022	Vantage Point Survey	VP2	3:00 starting at 14:55	Visibility: limited; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
02/02/2022	Vantage Point Survey	VP1	3:00 starting at 07:20	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
02/02/2022	Vantage Point Survey	VP1	3:00 starting at 10:50	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
08/02/2022	Vantage Point Survey	VP2	3:00 starting at 12:10	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
22/02/2022	Vantage Point Survey	VP3	3:00 starting at 06:40	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
22/02/2022	Vantage Point Survey	VP3	3:00 starting at 10:10	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
23/02/2022	Vantage Point Survey	VP2	3:00 starting at 06:40	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
04/03/2022	Vantage Point Survey	VP3	3:00 starting at 12:50	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		ZE
04/03/2022	Vantage Point Survey	VP3	3:00 starting at 16:20	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		ZE
08/03/2022	Vantage Point Survey	VP1	1:05 starting at 12:55	Visibility: moderate; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		ZE

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/03/2022	Vantage Point Survey	VP1	1:20 starting at 14:00	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
08/03/2022	Vantage Point Survey	VP1	0:35 starting at 15:20	Visibility: moderate; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE
08/03/2022	Vantage Point Survey	VP1	3:00 starting at 16:25	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		ZE
09/03/2022	Vantage Point Survey	VP2	3:00 starting at 13:00	Visibility: good; Wind speed and direction: light air NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	light shower in the last 15 minutes	ZE
09/03/2022	Vantage Point Survey	VP2	3:00 starting at 16:30	Visibility: good; Wind speed and direction: light air NNW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		ZE
05/10/2023	Vantage Point Survey	VP1	2:00 starting at 13:30	Visibility: moderate; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		LDV
05/10/2023	Vantage Point Survey	VP1	1:00 starting at 15:30	Visibility: moderate; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		LDV
05/10/2023	Vantage Point Survey	VP1	2:00 starting at 17:00	Visibility: moderate; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		LDV
05/10/2023	Vantage Point Survey	VP1	1:00 starting at 19:00	Visibility: limited; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		LDV
20/10/2023	Vantage Point Survey	VP2	1:00 starting at 13:00	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
20/10/2023	Vantage Point Survey	VP2	2:00 starting at 14:00	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		LDV
23/10/2023	Vantage Point Survey	VP2	2:00 starting at 16:30	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		LDV
23/10/2023	Vantage Point Survey	VP2	1:00 starting at 18:30	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
25/10/2023	Vantage Point Survey	VP3	1:00 starting at 12:45	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
25/10/2023	Vantage Point Survey	VP3	2:00 starting at 13:45	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
25/10/2023	Vantage Point Survey	VP3	2:00 starting at 16:15	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
25/10/2023	Vantage Point Survey	VP3	1:00 starting at 18:15	Visibility: moderate; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none		LDV
03/11/2023	Vantage Point Survey	VP1	1:00 starting at 06:30	Visibility: moderate; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	typo in date (4/11) but data from 3/11	LDV
03/11/2023	Vantage Point Survey	VP1	1:00 starting at 07:30	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		LDV
03/11/2023	Vantage Point Survey	VP1	1:00 starting at 08:30	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
03/11/2023	Vantage Point Survey	VP1	2:00 starting at 10:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
03/11/2023	Vantage Point Survey	VP1	1:00 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
15/11/2023	Vantage Point Survey	VP2	3:00 starting at 07:00	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
15/11/2023	Vantage Point Survey	VP2	3:00 starting at 10:30	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
17/11/2023	Vantage Point Survey	VP3	3:00 starting at 07:00	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
17/11/2023	Vantage Point Survey	VP3	2:00 starting at 10:30	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
17/11/2023	Vantage Point Survey	VP3	1:00 starting at 12:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
11/12/2023	Vantage Point Survey	VP1	3:00 starting at 10:50	Visibility: good; Wind speed and direction: gentle breeze WNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
11/12/2023	Vantage Point Survey	VP1	3:00 starting at 14:20	Visibility: poor; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none		LDV
12/12/2023	Vantage Point Survey	VP2	2:00 starting at 10:50	Visibility: limited; Wind speed and direction: light air E; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
12/12/2023	Vantage Point Survey	VP2	1:00 starting at 12:50	Visibility: moderate; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
12/12/2023	Vantage Point Survey	VP2	3:00 starting at 14:20	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
14/12/2023	Vantage Point Survey	VP3	3:00 starting at 10:50	Visibility: good; Wind speed and direction: light breeze ENE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
14/12/2023	Vantage Point Survey	VP3	3:00 starting at 14:20	Visibility: good; Wind speed and direction: light breeze ENE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
11/01/2024	Vantage Point Survey	VP1	3:00 starting at 07:50	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
11/01/2024	Vantage Point Survey	VP1	3:00 starting at 11:20	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
12/01/2024	Vantage Point Survey	VP2	3:00 starting at 07:50	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
12/01/2024	Vantage Point Survey	VP2	3:00 starting at 11:20	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
30/01/2024	Vantage Point Survey	VP3	2:00 starting at 07:30	Visibility: good; Wind speed and direction: calm direction not recorded; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		LDV
30/01/2024	Vantage Point Survey	VP3	1:00 starting at 09:30	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
30/01/2024	Vantage Point Survey	VP3	1:00 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
30/01/2024	Vantage Point Survey	VP3	2:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
13/02/2024	Vantage Point Survey	VP1	3:00 starting at 12:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
13/02/2024	Vantage Point Survey	VP1	1:00 starting at 15:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
13/02/2024	Vantage Point Survey	VP1	2:00 starting at 16:30	Visibility: poor; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
15/02/2024	Vantage Point Survey	VP2	1:00 starting at 12:00	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LDV
15/02/2024	Vantage Point Survey	VP2	2:00 starting at 13:00	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
15/02/2024	Vantage Point Survey	VP2	3:00 starting at 15:30	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
21/02/2024	Vantage Point Survey	VP3	3:00 starting at 12:10	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
21/02/2024	Vantage Point Survey	VP3	1:00 starting at 15:40	Visibility: moderate; Wind speed and direction: fresh breeze E; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LDV
21/02/2024	Vantage Point Survey	VP3	1:00 starting at 16:40	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
21/02/2024	Vantage Point Survey	VP3	1:00 starting at 17:40	Visibility: moderate; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LDV
13/03/2024	Vantage Point Survey	VP1	1:00 starting at 06:00	Visibility: poor; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
13/03/2024	Vantage Point Survey	VP1	2:00 starting at 07:00	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
13/03/2024	Vantage Point Survey	VP1	3:00 starting at 09:30	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		LDV
14/03/2024	Vantage Point Survey	VP2	1:00 starting at 06:00	Visibility: poor; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LDV
14/03/2024	Vantage Point Survey	VP2	1:00 starting at 07:00	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
14/03/2024	Vantage Point Survey	VP2	1:00 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		LDV
14/03/2024	Vantage Point Survey	VP2	1:00 starting at 09:30	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
14/03/2024	Vantage Point Survey	VP2	1:00 starting at 10:30	Visibility: poor; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		LDV
14/03/2024	Vantage Point Survey	VP2	1:00 starting at 11:30	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		LDV
21/03/2024	Vantage Point Survey	VP3	1:00 starting at 05:30	Visibility: good; Wind speed and direction: gentle breeze NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
21/03/2024	Vantage Point Survey	VP3	2:00 starting at 06:30	Visibility: poor; Wind speed and direction: near gale NNW; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		LDV
21/03/2024	Vantage Point Survey	VP3	3:00 starting at 09:00	Visibility: poor; Wind speed and direction: near gale NNW; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		LDV
03/04/2024	Vantage Point Survey	VP1	1:00 starting at 14:40	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none		LDV
03/04/2024	Vantage Point Survey	VP1	2:00 starting at 15:40	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
03/04/2024	Vantage Point Survey	VP1	2:00 starting at 18:10	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
03/04/2024	Vantage Point Survey	VP1	1:00 starting at 20:10	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		LDV
10/04/2024	Vantage Point Survey	VP2	2:00 starting at 14:30	Visibility: moderate; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
10/04/2024	Vantage Point Survey	VP2	1:00 starting at 16:30	Visibility: poor; Wind speed and direction: fresh breeze N; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		LDV
10/04/2024	Vantage Point Survey	VP2	1:00 starting at 18:00	Visibility: poor; Wind speed and direction: fresh breeze N; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		LDV
10/04/2024	Vantage Point Survey	VP2	2:00 starting at 19:00	Visibility: poor; Wind speed and direction: fresh breeze N; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
16/04/2024	Vantage Point Survey	VP3	3:00 starting at 14:30	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/04/2024	Vantage Point Survey	VP3	2:00 starting at 18:00	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
16/04/2024	Vantage Point Survey	VP3	1:00 starting at 20:00	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		LDV
01/05/2024	Vantage Point Survey	VP1	1:00 starting at 05:00	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
01/05/2024	Vantage Point Survey	VP1	2:00 starting at 06:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
01/05/2024	Vantage Point Survey	VP1	1:00 starting at 08:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
01/05/2024	Vantage Point Survey	VP1	2:00 starting at 09:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
03/05/2024	Vantage Point Survey	VP2	3:00 starting at 05:00	Visibility: moderate; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
03/05/2024	Vantage Point Survey	VP2	3:00 starting at 08:30	Visibility: poor; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	visibility up to 1000m maximum	LDV
09/05/2024	Vantage Point Survey	VP3	1:00 starting at 04:45	Visibility: moderate; Wind speed and direction: light air NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LDV
09/05/2024	Vantage Point Survey	VP3	1:00 starting at 05:45	Visibility: poor; Wind speed and direction: light air NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	dense fog	LDV
09/05/2024	Vantage Point Survey	VP3	1:00 starting at 06:45	Visibility: moderate; Wind speed and direction: light air NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
09/05/2024	Vantage Point Survey	VP3	2:00 starting at 08:15	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
09/05/2024	Vantage Point Survey	VP3	1:00 starting at 10:15	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
12/06/2024	Vantage Point Survey	VP1	3:00 starting at 09:20	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
12/06/2024	Vantage Point Survey	VP1	3:00 starting at 12:50	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
19/06/2024	Vantage Point Survey	VP2	2:00 starting at 08:45	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
19/06/2024	Vantage Point Survey	VP2	1:00 starting at 10:45	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
19/06/2024	Vantage Point Survey	VP2	3:00 starting at 12:15	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
26/06/2024	Vantage Point Survey	VP3	3:00 starting at 05:45	Visibility: good; Wind speed and direction: light breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
26/06/2024	Vantage Point Survey	VP3	2:00 starting at 09:15	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
26/06/2024	Vantage Point Survey	VP3	1:00 starting at 11:15	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
09/07/2024	Vantage Point Survey	VP2	1:00 starting at 10:55	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
09/07/2024	Vantage Point Survey	VP2	1:00 starting at 11:55	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
09/07/2024	Vantage Point Survey	VP2	1:00 starting at 12:55	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
09/07/2024	Vantage Point Survey	VP2	1:00 starting at 14:25	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
09/07/2024	Vantage Point Survey	VP2	1:00 starting at 15:25	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
09/07/2024	Vantage Point Survey	VP2	1:00 starting at 16:25	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
10/07/2024	Vantage Point Survey	VP1	1:00 starting at 10:55	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
10/07/2024	Vantage Point Survey	VP1	1:00 starting at 11:55	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
10/07/2024	Vantage Point Survey	VP1	1:00 starting at 12:55	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MH
10/07/2024	Vantage Point Survey	VP1	1:00 starting at 14:25	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MH

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
10/07/2024	Vantage Point Survey	VP1	1:00 starting at 15:25	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MH
10/07/2024	Vantage Point Survey	VP1	1:00 starting at 16:25	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MH
26/07/2024	Vantage Point Survey	VP3	3:00 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LDV
26/07/2024	Vantage Point Survey	VP3	1:00 starting at 12:30	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
26/07/2024	Vantage Point Survey	VP3	1:00 starting at 13:30	Visibility: moderate; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LDV
26/07/2024	Vantage Point Survey	VP3	1:00 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
02/08/2024	Vantage Point Survey	VP1	3:00 starting at 15:50	Visibility: good; Wind speed and direction: moderate breeze WSW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		MH
02/08/2024	Vantage Point Survey	VP1	3:00 starting at 19:20	Visibility: good; Wind speed and direction: moderate breeze WSW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		MH
09/08/2024	Vantage Point Survey	VP2	3:00 starting at 11:55	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
09/08/2024	Vantage Point Survey	VP2	3:00 starting at 15:25	Visibility: moderate; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		MH
12/08/2024	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% >500m; Rain: none; Frost: none; Snow: none		MH
12/08/2024	Vantage Point Survey	VP3	3:00 starting at 14:15	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MH
11/09/2024	Vantage Point Survey	VP2	3:00 starting at 06:15	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		CC
11/09/2024	Vantage Point Survey	VP2	3:00 starting at 09:45	Visibility: moderate; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		CC

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
19/09/2024	Vantage Point Survey	VP1	3:00 starting at 06:30	Visibility: limited; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	Thick fog over bog	CC
19/09/2024	Vantage Point Survey	VP1	1:00 starting at 10:00	Visibility: poor; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	Fog starting to lift but still present	CC
19/09/2024	Vantage Point Survey	VP1	2:00 starting at 11:00	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Fog lifted	CC
25/09/2024	Vantage Point Survey	VP3	3:00 starting at 06:30	Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CC
25/09/2024	Vantage Point Survey	VP3	3:00 starting at 10:00	Visibility: moderate; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CC
02/10/2024	Vantage Point Survey	VP1	3:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
02/10/2024	Vantage Point Survey	VP1	3:00 starting at 17:00	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
03/10/2024	Vantage Point Survey	VP2	3:00 starting at 13:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
03/10/2024	Vantage Point Survey	VP2	3:00 starting at 17:00	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
08/10/2024	Vantage Point Survey	VP3	3:00 starting at 13:20	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
08/10/2024	Vantage Point Survey	VP3	1:00 starting at 16:50	Visibility: moderate; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		LDV
08/10/2024	Vantage Point Survey	VP3	1:00 starting at 17:50	Visibility: good; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
08/10/2024	Vantage Point Survey	VP3	1:00 starting at 18:50	Visibility: poor; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
06/11/2024	Vantage Point Survey	VP2	1:00 starting at 06:45	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LDV
06/11/2024	Vantage Point Survey	VP2	2:00 starting at 07:45	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
06/11/2024	Vantage Point Survey	VP2	1:00 starting at 10:15	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LDV
06/11/2024	Vantage Point Survey	VP2	2:00 starting at 11:15	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LDV
18/11/2024	Vantage Point Survey	VP1	3:00 starting at 07:10	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
18/11/2024	Vantage Point Survey	VP1	3:00 starting at 10:40	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		LDV
20/11/2024	Vantage Point Survey	VP3	3:00 starting at 07:10	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none		LDV
20/11/2024	Vantage Point Survey	VP3	1:00 starting at 10:40	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: light; Snow: none		LDV
20/11/2024	Vantage Point Survey	VP3	2:00 starting at 11:40	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
29/11/2024	Vantage Point Survey	VP2	1:00 starting at 10:50	Visibility: moderate; Wind speed and direction: moderate breeze NNE; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		LDV
29/11/2024	Vantage Point Survey	VP2	2:00 starting at 11:50	Visibility: good; Wind speed and direction: moderate breeze NNE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
29/11/2024	Vantage Point Survey	VP2	2:00 starting at 14:20	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
29/11/2024	Vantage Point Survey	VP2	1:00 starting at 16:20	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
03/12/2024	Vantage Point Survey	VP1	1:00 starting at 10:15	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: none	Looking into low sun for first 3 hours	PDC
03/12/2024	Vantage Point Survey	VP1	2:00 starting at 11:15	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC
03/12/2024	Vantage Point Survey	VP1	1:00 starting at 13:45	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: none		PDC
03/12/2024	Vantage Point Survey	VP1	1:00 starting at 14:45	Visibility: poor; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: none		PDC
03/12/2024	Vantage Point Survey	VP1	1:00 starting at 15:45	Visibility: limited; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: none		PDC
12/12/2024	Vantage Point Survey	VP3	3:00 starting at 09:55	Visibility: moderate; Wind speed and direction: light air E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Very murky and misty for the whole survey	PDC
12/12/2024	Vantage Point Survey	VP3	1:00 starting at 13:25	Visibility: moderate; Wind speed and direction: light air E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC
12/12/2024	Vantage Point Survey	VP3	1:00 starting at 14:25	Visibility: poor; Wind speed and direction: light air E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC
12/12/2024	Vantage Point Survey	VP3	1:00 starting at 15:25	Visibility: limited; Wind speed and direction: light air E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC
07/01/2025	Vantage Point Survey	VP1	3:00 starting at 07:45	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: on ground		LDV
07/01/2025	Vantage Point Survey	VP1	2:00 starting at 11:15	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: on ground		LDV
07/01/2025	Vantage Point Survey	VP1	1:00 starting at 13:15	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: on ground		LDV
23/01/2025	Vantage Point Survey	VP2	1:00 starting at 07:30	Visibility: poor; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
23/01/2025	Vantage Point Survey	VP2	1:00 starting at 08:30	Visibility: moderate; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
23/01/2025	Vantage Point Survey	VP2	1:00 starting at 09:30	Visibility: good; Wind speed and direction: moderate breeze ENE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
23/01/2025	Vantage Point Survey	VP2	3:00 starting at 11:00	Visibility: moderate; Wind speed and direction: moderate breeze ENE; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LDV
31/01/2025	Vantage Point Survey	VP3	1:00 starting at 07:20	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
31/01/2025	Vantage Point Survey	VP3	2:00 starting at 08:20	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
31/01/2025	Vantage Point Survey	VP3	3:00 starting at 10:50	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
06/02/2025	Vantage Point Survey	VP2	3:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
06/02/2025	Vantage Point Survey	VP2	3:00 starting at 15:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
20/02/2025	Vantage Point Survey	VP3	3:00 starting at 12:20	Visibility: good; Wind speed and direction: strong breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	strong gusts	LDV
20/02/2025	Vantage Point Survey	VP3	3:00 starting at 15:50	Visibility: good; Wind speed and direction: strong breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	strong gusts	LDV
26/02/2025	Vantage Point Survey	VP1	3:00 starting at 11:50	Visibility: moderate; Wind speed and direction: strong breeze W; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Looking into low sun for first couple of hours. Assumed typo in field notes that stop time was 14:50 (not 12:50)	PDC
26/02/2025	Vantage Point Survey	VP1	1:00 starting at 15:20	Visibility: moderate; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none		PDC
26/02/2025	Vantage Point Survey	VP1	1:00 starting at 16:20	Visibility: moderate; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
26/02/2025	Vantage Point Survey	VP1	1:00 starting at 17:20	Visibility: limited; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC
04/03/2025	Vantage Point Survey	VP1	1:00 starting at 06:15	Visibility: good; Wind speed and direction: moderate breeze NNE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
04/03/2025	Vantage Point Survey	VP1	2:00 starting at 07:15	Visibility: good; Wind speed and direction: moderate breeze NNE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
04/03/2025	Vantage Point Survey	VP1	3:00 starting at 09:45	Visibility: good; Wind speed and direction: moderate breeze NNE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
12/03/2025	Vantage Point Survey	VP2	1:00 starting at 06:15	Visibility: limited; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		PDC
12/03/2025	Vantage Point Survey	VP2	2:00 starting at 07:15	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC
12/03/2025	Vantage Point Survey	VP2	3:00 starting at 09:45	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		PDC
13/03/2025	Vantage Point Survey	VP3	1:00 starting at 06:00	Visibility: good; Wind speed and direction: light breeze SSW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
13/03/2025	Vantage Point Survey	VP3	2:00 starting at 07:00	Visibility: good; Wind speed and direction: light breeze SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
13/03/2025	Vantage Point Survey	VP3	3:00 starting at 09:30	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV

Table 7 - 1 - 2 Winter walkover survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/10/2019	Winter Walkover Survey	500m Survey Radius	3:00 starting at 09:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none	2 Irish Hares	MP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/10/2019	Winter Walkover Survey	500m Survey Radius	2:30 starting at 13:15	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Irish hare	MP
20/12/2019	Winter Walkover Survey	500m Survey Radius	2:45 starting at 10:15	Visibility: limited; Wind speed and direction: light breeze SW; Cloud cover and height: 100% <150m; Rain: drizzle; Frost: none; Snow: none	Very foggy conditions, vis<30m. Heard WS and GP calling by T2-T3	MP
20/12/2019	Winter Walkover Survey	500m Survey Radius	2:15 starting at 13:30	Visibility: poor; Wind speed and direction: light breeze SW; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none		MP
16/01/2020	Winter Walkover Survey	500m Survey Radius	4:30 starting at 12:30	Visibility: good; Wind speed and direction: near gale SW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	A few light showers	MP
04/03/2020	Winter Walkover Survey	500m Survey Radius	5:30 starting at 11:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		MP
06/10/2020	Winter Walkover Survey	500m Survey Radius	3:00 starting at 15:00	Visibility: good; Wind speed and direction: fresh breeze E; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
14/01/2021	Winter Walkover Survey	500m Survey Radius	3:20 starting at 11:40	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
04/02/2021	Winter Walkover Survey	500m Survey Radius	3:40 starting at 10:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
02/03/2021	Winter Walkover Survey	500m Survey Radius	3:15 starting at 10:35	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Haze onsite for survey	JK
13/10/2021	Winter Walkover Survey	500m Survey Radius	3:00 starting at 14:00	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
03/12/2021	Winter Walkover Survey	500m Survey Radius	1:15 starting at 15:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
01/02/2022	Winter Walkover Survey	500m Survey Radius	2:30 starting at 13:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
03/03/2022	Winter Walkover Survey	500m Survey Radius	4:00 starting at 10:00	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		ZE
03/03/2022	Winter Walkover Survey	500m Survey Radius	2:30 starting at 14:00	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	very short light shower at 2pm	ZE
12/10/2023	Winter Walkover Survey	500m Survey Radius	1:00 starting at 08:30	Visibility: good; Wind speed and direction: calm direction not recorded; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		LDV
12/10/2023	Winter Walkover Survey	500m Survey Radius	5:00 starting at 09:30	Visibility: good; Wind speed and direction: calm direction not recorded; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
14/11/2023	Winter Walkover Survey	500m Survey Radius	3:00 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
14/11/2023	Winter Walkover Survey	500m Survey Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
26/01/2024	Winter Walkover Survey	500m Survey Radius	3:00 starting at 09:00	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
26/01/2024	Winter Walkover Survey	500m Survey Radius	1:00 starting at 12:00	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		LDV
26/01/2024	Winter Walkover Survey	500m Survey Radius	1:30 starting at 13:00	Visibility: good; Wind speed and direction: strong breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
07/03/2024	Winter Walkover Survey	500m Survey Radius	6:00 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
04/10/2024	Winter Walkover Survey	500m Survey Radius	3:00 starting at 08:30	Visibility: moderate; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
04/10/2024	Winter Walkover Survey	500m Survey Radius	2:00 starting at 11:30	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
01/11/2024	Winter Walkover Survey	500m Survey Radius	6:00 starting at 09:30	Visibility: good; Wind speed and direction: light breeze NNE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
10/01/2025	Winter Walkover Survey	500m Survey Radius	2:00 starting at 10:15	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: heavy; Snow: falling	hedge cutting on the entire road that goes through the site during the entire survey	LDV
10/01/2025	Winter Walkover Survey	500m Survey Radius	2:45 starting at 12:15	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: light; Snow: on ground	hedge cutting on the entire road that goes through the site during the entire survey	LDV
12/03/2025	Winter Walkover Survey	500m Survey Radius	3:00 starting at 11:00	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
12/03/2025	Winter Walkover Survey	500m Survey Radius	2:30 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV

Table 7 - 1 - 3 Breeding walkover survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
21/04/2020	Breeding Walkover Survey	500m Survey Radius	3:30 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
11/05/2020	Breeding Walkover Survey	500m Survey Radius	2:50 starting at 13:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none	Extensive turf cutting activity within 500m buffer and site boundary.	JK
03/06/2020	Breeding Walkover Survey	500m Survey Radius	4:00 starting at 11:00	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
09/07/2020	Breeding Walkover Survey	500m Survey Radius	3:00 starting at 19:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 60-100% >500m; Rain: none; Frost: none; Snow: none		JK
12/04/2021	Breeding Walkover Survey	500m Survey Radius	1:10 starting at 14:40	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
28/04/2021	Breeding Walkover Survey	500m Survey Radius	3:00 starting at 15:30	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
19/05/2021	Breeding Walkover Survey	500m Survey Radius	3:30 starting at 17:00	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
03/06/2021	Breeding Walkover Survey	500m Survey Radius	4:00 starting at 11:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
05/07/2021	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: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
11/04/2024	Breeding Walkover Survey	500m Survey Radius	2:30 starting at 07:30	Visibility: moderate; Wind speed and direction: moderate breeze NNE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
11/04/2024	Breeding Walkover Survey	500m Survey Radius	3:30 starting at 10:00	Visibility: good; Wind speed and direction: moderate breeze NNE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
22/05/2024	Breeding Walkover Survey	500m Survey Radius	1:00 starting at 06:00	Visibility: good; Wind speed and direction: gentle breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
22/05/2024	Breeding Walkover Survey	500m Survey Radius	5:00 starting at 07:00	Visibility: good; Wind speed and direction: gentle breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
18/06/2024	Breeding Walkover Survey	500m Survey Radius	6:00 starting at 06:00	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
23/07/2024	Breeding Walkover Survey	500m survey radius	6:00 starting at 06:00	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV

Table 7 - 1 - 4 Waterbird distribution and abundance survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
27/09/2019	Waterbird Distribution and Abundance Survey	5km Survey Radius	0:25 starting at 09:10	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CD
27/09/2019	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:52 starting at 09:38	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CD
27/09/2019	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:05 starting at 11:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CD
08/10/2019	Waterbird Distribution and Abundance Survey	5km Survey Radius	6:00 starting at 09:30	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		MP
22/10/2019	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:15 starting at 09:45	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		MP
06/11/2019	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 09:30	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	Dry-ish around 11:30 for an hour	MP
06/11/2019	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 13:00	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 100% >500m; Rain: heavy showers; Frost: none; Snow: none	Heavy showers/rain. Met with NPWS Ranger at Gorteenlahard turlough	MP
20/11/2019	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:30 starting at 10:20	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 100% 150-500m; Rain: persistent; Frost: none; Snow: none	Almost constant rain, fewer showers from 11:20 to 12:00	MP
05/12/2019	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:15 starting at 10:15	Visibility: poor; Wind speed and direction: strong breeze SW; Cloud cover and height: 100% <150m; Rain: persistent; Frost: none; Snow: none		MP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
19/12/2019	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:00 starting at 10:30	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		MP
15/01/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:15 starting at 10:15	Visibility: moderate; Wind speed and direction: near gale SW; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Some heavy showers throughout the day	MP
28/01/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:30 starting at 10:45	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none	Few showers throughout the day	MP
07/02/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:30 starting at 11:15	Visibility: moderate; Wind speed and direction: strong breeze SE; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none		MP
21/02/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 11:00	Visibility: moderate; Wind speed and direction: near gale SW; Cloud cover and height: 100% 150-500m; Rain: persistent; Frost: none; Snow: none		MP
05/03/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:00 starting at 12:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		MP
19/03/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 13:45	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% >500m; Rain: light showers; Frost: none; Snow: none		MP
20/04/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:30 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
28/04/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 09:30	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 30-60% 150-500m; Rain: none; Frost: none; Snow: none		JK
11/05/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 11:00	Visibility: good; Wind speed and direction: fresh breeze E; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
18/05/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:05 starting at 11:15	Visibility: poor; Wind speed and direction: light breeze SW; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
04/08/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:30 starting at 11:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 60-100% >500m; Rain: drizzle; Frost: none; Snow: none		JK
21/08/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:30 starting at 12:30	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
01/09/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:30 starting at 10:00	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 100% >500m; Rain: drizzle; Frost: none; Snow: none		JK
14/09/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:30 starting at 12:00	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 100% >500m; Rain: drizzle; Frost: none; Snow: none		JK
05/10/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:30 starting at 11:00	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 100% >500m; Rain: drizzle; Frost: none; Snow: none		JK
23/10/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:30 starting at 09:30	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
06/11/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:30 starting at 10:30	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
17/11/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 11:30	Visibility: poor; Wind speed and direction: light breeze S; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
08/12/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	6:05 starting at 08:50	Visibility: good; Wind speed and direction: gentle breeze WNW; Cloud cover and height: 2-50% height not recorded; Rain: none; Frost: none; Snow: none		PT
22/12/2020	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:20 starting at 08:55	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 70 → 100% height not recorded; Rain: none; Frost: light; Snow: none		PT
07/01/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:30 starting at 10:30	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: <30% >500m; Rain: none; Frost: heavy; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
29/01/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:15 starting at 14:30	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
08/02/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:50 starting at 14:00	Visibility: moderate; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		JK
24/02/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:10 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
08/03/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 15:00	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
26/03/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:30 starting at 14:00	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		JK
07/04/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:30 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		JK
28/04/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	0:25 starting at 11:30	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Stopped at 2 bridges, near Abbey village. No waterfowl.	SOB
28/04/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	0:30 starting at 12:00	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Stopped at lay-by near crossroads. Waterfowl present	SOB
28/04/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:06 starting at 13:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Surveyed from lake shore. Parked at picnic table/layby. Wildfowl present	SOB
28/04/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	0:25 starting at 14:35	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Surveyed from levally church. Did second count from another point.	SOB
28/04/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	0:25 starting at 15:20	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Surveyed from lay by in front of house South of Lake	SOB

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
28/04/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	0:01 starting at 15:51	Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Just more than 5km from site. Saw Snipe.	SOB
14/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 10:00	Visibility: moderate; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		JG
14/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 11:00	Visibility: moderate; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		JG
14/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 12:00	Visibility: moderate; Wind speed and direction: moderate breeze NE; Cloud cover and height: 33-66% <150m; Rain: drizzle; Frost: none; Snow: none		JG
14/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 13:00	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		JG
14/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 14:00	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		JG
14/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 15:00	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		JG
18/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	0:05 starting at 14:00	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Stopped at bridge, near Abbey village. No waterfowl.	SOB
18/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	0:30 starting at 14:10	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none	Stopped at lay-by near crossroads. Waterfowl present in lough	SOB
18/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	0:05 starting at 14:45	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	dried up turlough reclaimed as agricultural field. No waterfowl	SOB
18/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 14:55	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Surveyed from lake shore. Parked at picnic table/layby. Wildfowl present	SOB

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
18/05/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 16:00	Visibility: moderate; Wind speed and direction: fresh breeze S; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Surveyed from levally church and lay by in front of house south of lake slight heat haze	SOB
17/08/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:30 starting at 12:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
25/08/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:30 starting at 15:00	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
09/09/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 11:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		JK
23/09/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:45 starting at 15:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
06/10/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:20 starting at 11:00	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		JK
19/10/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:20 starting at 10:30	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
10/11/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 12:00	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		JK
23/11/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:05 starting at 12:00	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
03/12/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:00 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
16/12/2021	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/01/2022	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:10 starting at 12:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
26/01/2022	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:40 starting at 14:00	Visibility: limited; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
03/02/2022	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:30 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
17/02/2022	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:00 starting at 13:00	Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
02/03/2022	Waterbird Distribution and Abundance Survey	5km Survey Radius	6:00 starting at 09:30	Visibility: good; Wind speed and direction: light air SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
15/03/2022	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 09:30	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
15/03/2022	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:30 starting at 12:30	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE
11/08/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:30 starting at 11:30	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		ZOC
29/08/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:15 starting at 09:30	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		ZOC
14/09/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		ZOC
29/09/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:30 starting at 11:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		ZOC

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
03/10/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 08:30	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
03/10/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 10:30	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
19/10/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:30 starting at 11:30	Visibility: moderate; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		LDV
19/10/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 14:00	Visibility: moderate; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
01/11/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 09:00	Visibility: moderate; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none		LDV
01/11/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 11:00	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
01/11/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 13:00	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
21/11/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	6:00 starting at 08:15	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
05/12/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 08:30	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none		LDV
05/12/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 11:30	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: light; Snow: none		LDV
19/12/2023	Waterbird Distribution and Abundance Survey	5km Survey Radius	6:00 starting at 08:45	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
04/01/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	6:00 starting at 08:45	Visibility: good; Wind speed and direction: calm direction not recorded; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
23/01/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 08:45	Visibility: poor; Wind speed and direction: near gale NE; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		LDV
23/01/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 11:45	Visibility: poor; Wind speed and direction: gale NE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
07/02/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	6:00 starting at 08:45	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
20/02/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:30 starting at 10:00	Visibility: moderate; Wind speed and direction: light breeze ENE; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none		LDV
20/02/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:00 starting at 11:30	Visibility: good; Wind speed and direction: light breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
01/03/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 10:00	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: falling		LDV
01/03/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 11:00	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: on ground		LDV
01/03/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	4:00 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
15/03/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:30 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze SSE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
04/04/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:30 starting at 08:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
18/04/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:30 starting at 11:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
02/05/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 08:30	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
02/05/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 09:30	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		LDV
02/05/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:30 starting at 12:30	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
16/05/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:00 starting at 09:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
07/08/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 11:20	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		MH
07/08/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 12:20	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		MH
07/08/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 13:20	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
07/08/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 14:20	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
07/08/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 15:20	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MH
26/08/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 11:00	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MH

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
26/08/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MH
26/08/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 13:00	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MH
26/08/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 14:00	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MH
26/08/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 15:00	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		MH
04/09/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		CG
04/09/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none		CG
19/09/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 09:00	Visibility: moderate; Wind speed and direction: light air SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	foggy morning, clear afternoon	CG
19/09/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 12:00	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CG
01/10/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:30 starting at 08:00	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
23/10/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:30 starting at 08:00	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
13/11/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 09:30	Visibility: moderate; Wind speed and direction: light air N; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/11/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 12:30	Visibility: poor; Wind speed and direction: light air N; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LDV
26/11/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 09:30	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		LDV
26/11/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:15 starting at 11:30	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
06/12/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	1:00 starting at 08:30	Visibility: moderate; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		PDC
06/12/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 09:30	Visibility: moderate; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none	Conditions deteriorated rapidly, with rain becoming torrential.	PDC
06/12/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 11:30	Visibility: poor; Wind speed and direction: near gale SE; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		PDC
16/12/2024	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:30 starting at 10:15	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LDV
09/01/2025	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:00 starting at 11:00	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: on ground	lakes deeply frozen	LDV
29/01/2025	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 10:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		LDV
29/01/2025	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
14/02/2025	Waterbird Distribution and Abundance Survey	5km survey radius	1:00 starting at 07:30	Visibility: moderate; Wind speed and direction: strong breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		PDC

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
14/02/2025	Waterbird Distribution and Abundance Survey	5km survey radius	4:00 starting at 08:30	Visibility: moderate; Wind speed and direction: fresh breeze E; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		PDC
25/02/2025	Waterbird Distribution and Abundance Survey	5km survey radius	1:00 starting at 08:40	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC
25/02/2025	Waterbird Distribution and Abundance Survey	5km survey radius	1:00 starting at 09:40	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		PDC
25/02/2025	Waterbird Distribution and Abundance Survey	5km survey radius	1:00 starting at 10:40	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		PDC
25/02/2025	Waterbird Distribution and Abundance Survey	5km survey radius	1:50 starting at 11:40	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		PDC
11/03/2025	Waterbird Distribution and Abundance Survey	5km Survey Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
11/03/2025	Waterbird Distribution and Abundance Survey	5km Survey Radius	2:00 starting at 15:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
28/03/2025	Waterbird Distribution and Abundance Survey	5km Survey Radius	5:30 starting at 12:00	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LDV

Table 7 - 1 - 5 Hen harrier roost survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
30/10/2019	Hen Harrier Roost survey	HHVP2	2:00 starting at 15:40	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	1 buzzard seen at Levally Lough on ground in field (alive). 1 kestrel seen at turn off for survey location HHVP2b. 1 snipe flushed off bog on approach. 17:18 individual broad wing seen; more info in hen harrier roost survey.	CD
31/10/2019	Hen Harrier Roost survey	HHVP4	2:00 starting at 15:30	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none		MP
31/10/2019	Hen Harrier Roost survey	HHVP3	1:00 starting at 15:30	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	16:46- 1 sparrowhawk seen just flying real low over young birches, crossed road. Perched in tree on bog and flew off low	CD
31/10/2019	Hen Harrier Roost survey	HHVP1	1:00 starting at 15:30	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Peregrine hunting, 40 fieldfare flying, flushed by peregrine	DN
31/10/2019	Hen Harrier Roost survey	HHVP3	1:00 starting at 16:30	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	17:30 1 snipe heard calling	CD
31/10/2019	Hen Harrier Roost survey	HHVP1	1:00 starting at 16:30	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	Pair of whooper swan heading to Roost at Levally	DN
06/11/2019	Hen Harrier Roost survey	HHVP1	2:00 starting at 15:15	Visibility: moderate; Wind speed and direction: light air SE; Cloud cover and height: 100% >500m; Rain: persistent; Frost: none; Snow: none	Rain for 80% of survey	MP
07/11/2019	Hen Harrier Roost survey	HHVP4	2:00 starting at 15:20	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Met with other ecologist from Woodrow (Sligo)	MP
13/11/2019	Hen Harrier Roost survey	HHVP3	2:00 starting at 15:10	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		MP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
20/11/2019	Hen Harrier Roost survey	HHVP2	2:00 starting at 14:55	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 100% 150-500m; Rain: persistent; Frost: none; Snow: none	Heavy rain the whole survey. No sightings	MP
05/12/2019	Hen Harrier Roost survey	HHVP1	2:00 starting at 14:45	Visibility: poor; Wind speed and direction: near gale SW; Cloud cover and height: 100% <150m; Rain: persistent; Frost: none; Snow: none	No hen harrier sightings. Heavy rain and yellow warning for wind	MP
10/12/2019	Hen Harrier Roost survey	HHVP3	2:00 starting at 14:45	Visibility: moderate; Wind speed and direction: fresh breeze W; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none	Multiple light showers	MP
18/12/2019	Hen Harrier Roost survey	HHVP4	2:00 starting at 14:45	Visibility: moderate; Wind speed and direction: strong breeze SE; Cloud cover and height: 100% 150-500m; Rain: persistent; Frost: none; Snow: none	No hen harrier sightings	MP
19/12/2019	Hen Harrier Roost survey	HHVP2	2:00 starting at 14:45	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		MP
15/01/2020	Hen Harrier Roost survey	HHVP4	2:00 starting at 15:15	Visibility: moderate; Wind speed and direction: near gale SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	No hen harrier sightings	MP
20/01/2020	Hen Harrier Roost survey	HHVP2	2:00 starting at 15:20	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none	No hen harrier sightings	MP
22/01/2020	Hen Harrier Roost survey	HHVP3	2:00 starting at 15:30	Visibility: moderate; Wind speed and direction: light air N; Cloud cover and height: 100% >500m; Rain: none; Frost: none; Snow: none	No hen harrier sightings	MP
28/01/2020	Hen Harrier Roost survey	HHVP1	2:00 starting at 15:30	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	No hen harrier sightings	MP
07/02/2020	Hen Harrier Roost survey	HHVP1	2:00 starting at 15:45	Visibility: moderate; Wind speed and direction: strong breeze SE; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none	No hen harrier sightings	MP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/02/2020	Hen Harrier Roost survey	HHVP4	2:00 starting at 16:05	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Heavy hail shower and snow shower at 17:00 and 18:00. Landowner informed me of a power cut the previous week caused by whooper swans flying in power lines. Went to check. Feathers and wing found, from a juvenile whooper swan. Confirmation of one whooper swan dead in February (another one found dead a few months before). See map for exact location.	MP
13/02/2020	Hen Harrier Roost survey	HHVP3	2:00 starting at 16:10	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No hen harrier sightings	MP
18/02/2020	Hen Harrier Roost survey	HHVP2	2:00 starting at 16:15	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No hen harrier sightings	MP
04/03/2020	Hen Harrier Roost survey	HHVP2	2:00 starting at 16:45	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	No hen harrier sightings. Encounter with landowners.	MP
05/03/2020	Hen Harrier Roost survey	HHVP1	2:00 starting at 16:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		MP
12/03/2020	Hen Harrier Roost survey	HHVP4	2:00 starting at 17:05	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	No hen harrier sightings	MP
19/03/2020	Hen Harrier Roost survey	HHVP3	2:00 starting at 17:15	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	No hen harrier sightings	MP
09/10/2020	Hen Harrier Roost survey	HHVP1	2:00 starting at 17:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none	No hen harrier seen	JK
12/10/2020	Hen Harrier Roost survey	HHVP3	2:00 starting at 17:20	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none	No hen harrier seen	JK
14/10/2020	Hen Harrier Roost survey	HHVP4	2:00 starting at 17:20	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none	No hen harrier seen	JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
21/10/2020	Hen Harrier Roost survey	HHVP2	2:00 starting at 17:00	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 60-100% >500m; Rain: heavy showers; Frost: none; Snow: none	No hen harrier seen	JK
17/11/2020	Hen Harrier Roost survey	HHVP1	2:00 starting at 15:10	Visibility: poor; Wind speed and direction: light breeze S; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
23/11/2020	Hen Harrier Roost survey	HHVP4	2:00 starting at 15:00	Visibility: limited; Wind speed and direction: moderate breeze W; Cloud cover and height: 100% <150m; Rain: drizzle; Frost: none; Snow: none		JK
25/11/2020	Hen Harrier Roost survey	HHVP2	2:00 starting at 15:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
30/11/2020	Hen Harrier Roost survey	HHVP3	2:00 starting at 15:10	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% height not recorded; Rain: light showers; Frost: none; Snow: none	Drizzle showers. No target species observed. Several Snipe heard (flight calls) during last 20 minutes.	PT
08/12/2020	Hen Harrier Roost survey	HHVP1	2:02 starting at 15:05	Visibility: good; Wind speed and direction: gentle breeze WNW; Cloud cover and height: 10-75% height not recorded; Rain: none; Frost: none; Snow: none		PT
18/12/2020	Hen Harrier Roost survey	HHVP2	2:15 starting at 15:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 1-90% height not recorded; Rain: none; Frost: none; Snow: none		PT
20/12/2020	Hen Harrier Roost survey	HHVP3	2:00 starting at 15:05	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 1-20% height not recorded; Rain: none; Frost: none; Snow: none		PT
22/12/2020	Hen Harrier Roost survey	HHVP4	2:19 starting at 14:45	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 100% height not recorded; Rain: none; Frost: none; Snow: none		PT
13/01/2021	Hen Harrier Roost survey	HHVP1	2:00 starting at 15:15	Visibility: poor; Wind speed and direction: gentle breeze SW; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
14/01/2021	Hen Harrier Roost survey	HHVP2	2:00 starting at 15:15	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
29/01/2021	Hen Harrier Roost survey	HHVP4	1:00 starting at 07:00	Visibility: limited; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Initial hour and a half spent on alternative HHVP, as I couldn't find HHVP4 in the dark. Still overlooking the bog on the site. Marked with a star in map.	PDC
29/01/2021	Hen Harrier Roost survey	HHVP4	1:00 starting at 08:00	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Excavation work going on in fields bordering the bog, not far from HHVP	PDC
29/01/2021	Hen Harrier Roost survey	HHVP4	0:15 starting at 09:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC
01/02/2021	Hen Harrier Roost survey	HHVP3	2:00 starting at 15:50	Visibility: moderate; Wind speed and direction: light breeze E; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none	January Survey	JK
08/02/2021	Hen Harrier Roost survey	HHVP1	1:55 starting at 16:00	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
19/02/2021	Hen Harrier Roost survey	HHVP2	2:00 starting at 16:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
24/02/2021	Hen Harrier Roost survey	HHVP4	2:00 starting at 16:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
08/03/2021	Hen Harrier Roost survey	HHVP3	2:00 starting at 17:00	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	February survey	JK
11/03/2021	Hen Harrier Roost survey	HHVP4	2:00 starting at 17:00	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none		JK
23/03/2021	Hen Harrier Roost survey	HHVP1	2:00 starting at 17:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
29/03/2021	Hen Harrier Roost survey	HHVP2	2:00 starting at 18:35	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
07/10/2021	Hen Harrier Roost Survey	HHVP3	2:30 starting at 17:20	Visibility: limited; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/10/2021	Hen Harrier Roost Survey	HHVP4	2:30 starting at 17:20	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
20/10/2021	Hen Harrier Roost Survey	HHVP2	2:30 starting at 17:00	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
21/10/2021	Hen Harrier Roost Survey	HHVP1	2:30 starting at 17:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		JK
09/11/2021	Hen Harrier Roost Survey	HHVP1	2:30 starting at 15:35	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
23/11/2021	Hen Harrier Roost Survey	HHVP4	2:30 starting at 15:05	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
24/11/2021	Hen Harrier Roost Survey	HHVP2	2:30 starting at 15:05	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
25/11/2021	Hen Harrier Roost Survey	HHVP3	2:30 starting at 15:05	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
02/12/2021	Hen Harrier Roost Survey	HHVP1	2:30 starting at 15:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
06/12/2021	Hen Harrier Roost Survey	HHVP2	2:30 starting at 14:55	Visibility: good; Wind speed and direction: near gale W; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none		JK
15/12/2021	Hen Harrier Roost Survey	HHVP3	2:30 starting at 15:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
16/12/2021	Hen Harrier Roost Survey	HHVP4	2:30 starting at 15:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
11/01/2022	Hen Harrier Roost Survey	HHVP3	2:30 starting at 15:45	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
12/01/2022	Hen Harrier Roost Survey	HHVP4	2:30 starting at 15:45	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
20/01/2022	Hen Harrier Roost Survey	HHVP2	2:30 starting at 15:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
26/01/2022	Hen Harrier Roost Survey	HHVP1	2:30 starting at 15:40	Visibility: limited; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
01/02/2022	Hen Harrier Roost Survey	HHVP1	2:30 starting at 15:50	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
08/02/2022	Hen Harrier Roost Survey	HHVP3	2:30 starting at 15:40	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
23/02/2022	Hen Harrier Roost Survey	HHVP2	2:30 starting at 16:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	HHVP moved to Esker nature reserve.	JK
28/02/2022	Hen Harrier Roost Survey	HHVP4	2:30 starting at 16:40	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	No hen harrier recorded	ZOC
01/03/2022	Hen Harrier Roost Survey	HHVP1	2:30 starting at 16:45	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		ZE
02/03/2022	Hen Harrier Roost Survey	HHVP2	2:30 starting at 16:45	Visibility: good; Wind speed and direction: light air SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	occasional very short light shower	ZE
14/03/2022	Hen Harrier Roost Survey	HHVP3	1:05 starting at 05:55	Visibility: moderate; Wind speed and direction: light breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE
14/03/2022	Hen Harrier Roost Survey	HHVP3	1:25 starting at 07:00	Visibility: good; Wind speed and direction: light breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		ZE
14/03/2022	Hen Harrier Roost Survey	HHVP4	2:30 starting at 17:10	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		ZE
09/10/2023	Hen Harrier Roost Survey	HHVP1	1:30 starting at 17:30	Visibility: good; Wind speed and direction: light breeze NNE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
09/10/2023	Hen Harrier Roost Survey	HHVP1	1:00 starting at 19:00	Visibility: good; Wind speed and direction: light air NNE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
16/10/2023	Hen Harrier Roost Survey	HHVP2	2:30 starting at 17:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
19/10/2023	Hen Harrier Roost Survey	HHVP4	2:30 starting at 17:00	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
26/10/2023	Hen Harrier Roost Survey	HHVP3	2:30 starting at 16:45	Visibility: good; Wind speed and direction: calm direction not recorded; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
01/11/2023	Hen Harrier Roost Survey	HHVP2	1:00 starting at 15:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
01/11/2023	Hen Harrier Roost Survey	HHVP2	1:30 starting at 16:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		LDV
06/11/2023	Hen Harrier Roost Survey	HHVP1	2:30 starting at 15:30	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
14/11/2023	Hen Harrier Roost Survey	HHVP4	2:30 starting at 15:10	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		LDV
21/11/2023	Hen Harrier Roost Survey	HHVP3	2:30 starting at 15:00	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
05/12/2023	Hen Harrier Roost Survey	HHVP4	2:30 starting at 14:50	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: light; Snow: none		LDV
07/12/2023	Hen Harrier Roost Survey	HHVP1	2:30 starting at 14:50	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
15/12/2023	Hen Harrier Roost Survey	HHVP2	2:30 starting at 14:50	Visibility: moderate; Wind speed and direction: moderate breeze ENE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
19/12/2023	Hen Harrier Roost Survey	HHVP3	2:30 starting at 14:50	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		LDV
08/01/2024	Hen Harrier Roost Survey	HHVP4a	2:30 starting at 15:00	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		LDV
22/01/2024	Hen Harrier Roost Survey	HHVP1	2:30 starting at 15:30	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		CG
25/01/2024	Hen Harrier Roost Survey	HHVP3	2:30 starting at 15:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CG
30/01/2024	Hen Harrier Roost Survey	HHVP2	2:30 starting at 15:45	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CG
01/02/2024	Hen Harrier Roost Survey	HHVP1	2:30 starting at 15:47	Visibility: moderate; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		SD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
07/02/2024	Hen Harrier Roost Survey	HHVP3	2:30 starting at 15:50	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
20/02/2024	Hen Harrier Roost Survey	HHVP4	2:30 starting at 16:15	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
28/02/2024	Hen Harrier Roost Survey	HHVP2	2:30 starting at 16:40	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		SD
01/03/2024	Hen Harrier Roost Survey	HHVP3	2:30 starting at 16:30	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
07/03/2024	Hen Harrier Roost Survey	HHVP2	2:30 starting at 16:40	Visibility: good; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
11/03/2024	Hen Harrier Roost Survey	HHVP1	2:30 starting at 16:50	Visibility: moderate; Wind speed and direction: light air SW; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none	no hen harrier	LDV
15/03/2024	Hen Harrier Roost Survey	HHVP4a	2:30 starting at 16:50	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
07/10/2024	Hen Harrier Roost Survey	HHVP1a	1:00 starting at 17:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	no hen harrier	LDV
07/10/2024	Hen Harrier Roost Survey	HHVP1a	1:30 starting at 18:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
10/10/2024	Hen Harrier Roost Survey	HHVP3	2:30 starting at 17:20	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
11/10/2024	Hen Harrier Roost Survey	HHVP2	2:30 starting at 07:00	Visibility: good; Wind speed and direction: light breeze NNE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none	no hen harrier	LDV
14/10/2024	Hen Harrier Roost Survey	HHVP4	1:30 starting at 17:00	Visibility: good; Wind speed and direction: light breeze NNE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
14/10/2024	Hen Harrier Roost Survey	HHVP4	1:00 starting at 18:30	Visibility: good; Wind speed and direction: light breeze NNE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
01/11/2024	Hen Harrier Roost Survey	HHVP1a	2:30 starting at 15:30	Visibility: good; Wind speed and direction: light air ENE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
07/11/2024	Hen Harrier Roost Survey	HHVP4a	2:30 starting at 15:15	Visibility: limited; Wind speed and direction: light air NW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	50m visibility, no hen harrier	LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/11/2024	Hen Harrier Roost Survey	HHVP2	1:00 starting at 07:00	Visibility: poor; Wind speed and direction: light air N; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	150m visibility, no hen harrier	LDV
13/11/2024	Hen Harrier Roost Survey	HHVP2	1:30 starting at 08:00	Visibility: limited; Wind speed and direction: light air N; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	50m visibility, no hen harrier	LDV
26/11/2024	Hen Harrier Roost Survey	HHVP3	2:30 starting at 14:50	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
02/12/2024	Hen Harrier Roost Survey	HHVP4	2:30 starting at 14:50	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
09/12/2024	Hen Harrier Roost Survey	HHVP3	2:30 starting at 14:50	Visibility: good; Wind speed and direction: light air SSW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none	no hen harrier	LDV
13/12/2024	Hen Harrier Roost Survey	HHVP1a	2:30 starting at 14:50	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
16/12/2024	Hen Harrier Roost Survey	HHVP2	2:30 starting at 07:45	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
05/01/2025	Hen Harrier Roost Survey	HHVP2	2:30 starting at 16:00	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	No hen harrier observations	CG
06/01/2025	Hen Harrier Roost Survey	HHVP4a	1:30 starting at 15:00	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: on ground		LDV
06/01/2025	Hen Harrier Roost Survey	HHVP4a	1:00 starting at 16:30	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: falling		LDV
08/01/2025	Hen Harrier Roost Survey	HHVP3	2:30 starting at 15:00	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: on ground	no hen harrier	LDV
10/01/2025	Hen Harrier Roost Survey	HHVP1a	2:30 starting at 07:45	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: heavy; Snow: on ground	no hen harrier	LDV
29/01/2025	Hen Harrier Roost Survey	HHVP2	2:30 starting at 07:30	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none	no hen harrier	LDV
04/02/2025	Hen Harrier Roost Survey	HHVP1a	2:30 starting at 16:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none	No hen harrier observations	CG
18/02/2025	Hen Harrier Roost Survey	HHVP3	2:30 starting at 16:20	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	no target species	LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
19/02/2025	Hen Harrier Roost Survey	HHVP4a	1:00 starting at 16:20	Visibility: good; Wind speed and direction: fresh breeze NNW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	no hen harrier	LDV
19/02/2025	Hen Harrier Roost Survey	HHVP4a	1:30 starting at 17:20	Visibility: moderate; Wind speed and direction: fresh breeze N; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none	no hen harrier	LDV
11/03/2025	Hen Harrier Roost Survey	HHVP2	2:30 starting at 17:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	no hen harrier, no target species	LDV
12/03/2025	Hen Harrier Roost Survey	HHVP4a	1:00 starting at 17:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
12/03/2025	Hen Harrier Roost Survey	HHVP4a	1:30 starting at 18:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
18/03/2025	Hen Harrier Roost Survey	HHVP3	2:30 starting at 17:15	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV
28/03/2025	Hen Harrier Roost Survey	HHVP1a	2:30 starting at 17:30	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	no hen harrier	LDV

Table 7 - 1 - 6 Breeding raptor survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
22/04/2020	Breeding Raptor Survey	BR1	2:00 starting at 11:20	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
22/04/2020	Breeding Raptor Survey	BR3	2:00 starting at 13:45	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none	brook lamprey in stream	JK
28/04/2020	Breeding Raptor Survey	BR4	1:20 starting at 11:40	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 30-60% 150-500m; Rain: none; Frost: none; Snow: none	pine marten nest beside survey location	JK
28/04/2020	Breeding Raptor Survey	BR2	2:00 starting at 13:00	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none		JK
01/05/2020	Breeding Raptor Survey	BR1	1:30 starting at 12:30	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: <30% >500m; Rain: none; Frost: none; Snow: none		JK
13/05/2020	Breeding Raptor Survey	BR3	2:00 starting at 07:15	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 60-100% >500m; Rain: none; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/05/2020	Breeding Raptor Survey	BR4	2:00 starting at 09:30	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 60-100% >500m; Rain: none; Frost: none; Snow: none		JK
21/05/2020	Breeding Raptor Survey	BR5	2:00 starting at 11:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 30-60% >500m; Rain: none; Frost: none; Snow: none	Scouting barn owl nest and possible nest sites.	JK
21/05/2020	Breeding Raptor Survey	BR2	1:30 starting at 13:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 100% >500m; Rain: none; Frost: none; Snow: none		JK
04/06/2020	Breeding Raptor Survey	BR2	2:00 starting at 11:00	Visibility: poor; Wind speed and direction: gentle breeze SW; Cloud cover and height: 100% <150m; Rain: light showers; Frost: none; Snow: none		JK
04/06/2020	Breeding Raptor Survey	BR3	2:00 starting at 13:30	Visibility: poor; Wind speed and direction: gentle breeze SW; Cloud cover and height: 100% <150m; Rain: light showers; Frost: none; Snow: none		JK
09/06/2020	Breeding Raptor Survey	BR1	1:40 starting at 11:20	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 100% >500m; Rain: none; Frost: none; Snow: none		JK
09/06/2020	Breeding Raptor Survey	BR4	2:05 starting at 13:10	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 100% >500m; Rain: none; Frost: none; Snow: none		JK
18/06/2020	Breeding Raptor Survey	BR5	2:50 starting at 12:10	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Cloondahamper; forestry west of VP1.	JK
01/07/2020	Breeding Raptor Survey	BR5	2:00 starting at 07:30	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 100% >500m; Rain: none; Frost: none; Snow: none		JK
01/07/2020	Breeding Raptor Survey	BR2	2:00 starting at 07:30	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 100% >500m; Rain: none; Frost: none; Snow: none		JK
07/07/2020	Breeding Raptor Survey	BR4	1:40 starting at 22:00	Visibility: poor; Wind speed and direction: light breeze W; Cloud cover and height: 100% >500m; Rain: drizzle; Frost: none; Snow: none		JK
14/07/2020	Breeding Raptor Survey	BR6	2:00 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 100% 150-500m; Rain: none; Frost: none; Snow: none		JK
17/07/2020	Breeding Raptor Survey	BR1	2:00 starting at 08:20	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JK
31/07/2020	Breeding Raptor Survey	BR3	2:00 starting at 10:30	Visibility: poor; Wind speed and direction: light breeze W; Cloud cover and height: 100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		JK
07/04/2021	Breeding Raptor Survey	BR2	3:00 starting at 16:30	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
12/04/2021	Breeding Raptor Survey	BR3	3:00 starting at 16:00	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
15/04/2021	Breeding Raptor Survey	BR5	2:50 starting at 06:00	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
20/04/2021	Breeding Raptor Survey	BR1	2:50 starting at 06:10	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
20/04/2021	Breeding Raptor Survey	BR4	2:45 starting at 09:15	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
06/05/2021	Breeding Raptor Survey	BR1	2:45 starting at 06:15	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
06/05/2021	Breeding Raptor Survey	BR3	2:45 starting at 09:30	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
07/05/2021	Breeding Raptor Survey	BR4	2:50 starting at 06:00	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
07/05/2021	Breeding Raptor Survey	BR2	2:45 starting at 09:30	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
10/05/2021	Breeding Raptor Survey	BR5	2:30 starting at 09:30	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		JK
01/06/2021	Breeding Raptor Survey	BR2	2:30 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
01/06/2021	Breeding Raptor Survey	BR6	2:30 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK
14/06/2021	Breeding Raptor Survey	BR1	2:30 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		JK
14/06/2021	Breeding Raptor Survey	BR3	2:15 starting at 14:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		JK
25/06/2021	Breeding Raptor Survey	BR4	2:00 starting at 08:15	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
25/06/2021	Breeding Raptor Survey	BR5	2:00 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	VP moved from previous location to check peregrine occupancy of Barnaderg castle.	JK

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/07/2021	Breeding Raptor Survey	BR2	2:50 starting at 11:00	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
08/07/2021	Breeding Raptor Survey	BR3	2:45 starting at 14:15	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
13/07/2021	Breeding Raptor Survey	BR1	2:00 starting at 13:00	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
15/07/2021	Breeding Raptor Survey	BR4	2:30 starting at 13:30	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JK
19/07/2021	Breeding Raptor Survey	BR5	1:30 starting at 09:00	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
19/07/2021	Breeding Raptor Survey	BR6	2:05 starting at 10:25	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
03/04/2024	Breeding Raptor Survey	BR8	1:00 starting at 11:30	Visibility: good; Wind speed and direction: light breeze ENE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
03/04/2024	Breeding Raptor Survey	BR8	2:00 starting at 12:30	Visibility: good; Wind speed and direction: light breeze ENE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
04/04/2024	Breeding Raptor Survey	BR10	3:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
10/04/2024	Breeding Raptor Survey	BR7	1:00 starting at 10:50	Visibility: moderate; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
10/04/2024	Breeding Raptor Survey	BR7	2:00 starting at 11:50	Visibility: moderate; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
11/04/2024	Breeding Raptor Survey	BR3	1:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze NNE; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		LDV
11/04/2024	Breeding Raptor Survey	BR3	2:00 starting at 14:30	Visibility: moderate; Wind speed and direction: gentle breeze NNE; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none		LDV
16/04/2024	Breeding Raptor Survey	BR9	2:00 starting at 11:00	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/04/2024	Breeding Raptor Survey	BR9	1:00 starting at 13:00	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
18/04/2024	Breeding Raptor Survey	BR6	3:00 starting at 17:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	no raptors	LDV
10/05/2024	Breeding Raptor Survey	BR7	3:00 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CG
10/05/2024	Breeding Raptor Survey	BR10	3:00 starting at 12:15	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CG
17/05/2024	Breeding Raptor Survey	BR9	3:00 starting at 07:45	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CG
17/05/2024	Breeding Raptor Survey	BR3	3:00 starting at 11:15	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CG
20/05/2024	Breeding Raptor Survey	BR6	3:00 starting at 04:00	Visibility: good; Wind speed and direction: calm direction not recorded; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CG
20/05/2024	Breeding Raptor Survey	BR8	3:00 starting at 07:30	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CG
06/06/2024	Breeding Raptor Survey	BR8	1:30 starting at 09:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	10 people turning turf in 4 different parcels on north-west of BR	LDV
06/06/2024	Breeding Raptor Survey	BR8	1:30 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	10 people turning turf in 4 different parcels on north-west of BR	LDV
06/06/2024	Breeding Raptor Survey	BR11	3:00 starting at 12:45	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
21/06/2024	Breeding Raptor Survey	BR6	3:00 starting at 04:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
21/06/2024	Breeding Raptor Survey	BR3	1:00 starting at 07:20	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
21/06/2024	Breeding Raptor Survey	BR3	1:00 starting at 08:20	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		LDV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
21/06/2024	Breeding Raptor Survey	BR3	1:00 starting at 09:20	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
24/06/2024	Breeding Raptor Survey	BR7	3:00 starting at 08:15	Visibility: good; Wind speed and direction: light breeze NNE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
24/06/2024	Breeding Raptor Survey	BR10	3:00 starting at 11:45	Visibility: good; Wind speed and direction: gentle breeze NNE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
03/07/2024	Breeding Raptor Survey	BR3	1:00 starting at 17:45	Visibility: good; Wind speed and direction: moderate breeze ESE; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		LDV
03/07/2024	Breeding Raptor Survey	BR3	2:00 starting at 18:45	Visibility: good; Wind speed and direction: moderate breeze ESE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
03/07/2024	Breeding Raptor Survey	BR6	2:00 starting at 20:59	Visibility: good; Wind speed and direction: moderate breeze ESE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		LDV
03/07/2024	Breeding Raptor Survey	BR6	1:00 starting at 22:59	Visibility: good; Wind speed and direction: gentle breeze ESE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
04/07/2024	Breeding Raptor Survey	BR11	1:00 starting at 10:45	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
04/07/2024	Breeding Raptor Survey	BR11	1:00 starting at 11:45	Visibility: moderate; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
04/07/2024	Breeding Raptor Survey	BR11	1:00 starting at 12:45	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		LDV
04/07/2024	Breeding Raptor Survey	BR8	3:00 starting at 14:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		LDV
25/07/2024	Breeding Raptor Survey	BR7	1:00 starting at 06:15	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LDV
25/07/2024	Breeding Raptor Survey	BR7	2:00 starting at 07:15	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LDV
25/07/2024	Breeding Raptor Survey	BR10	1:00 starting at 09:20	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	no raptors	LDV

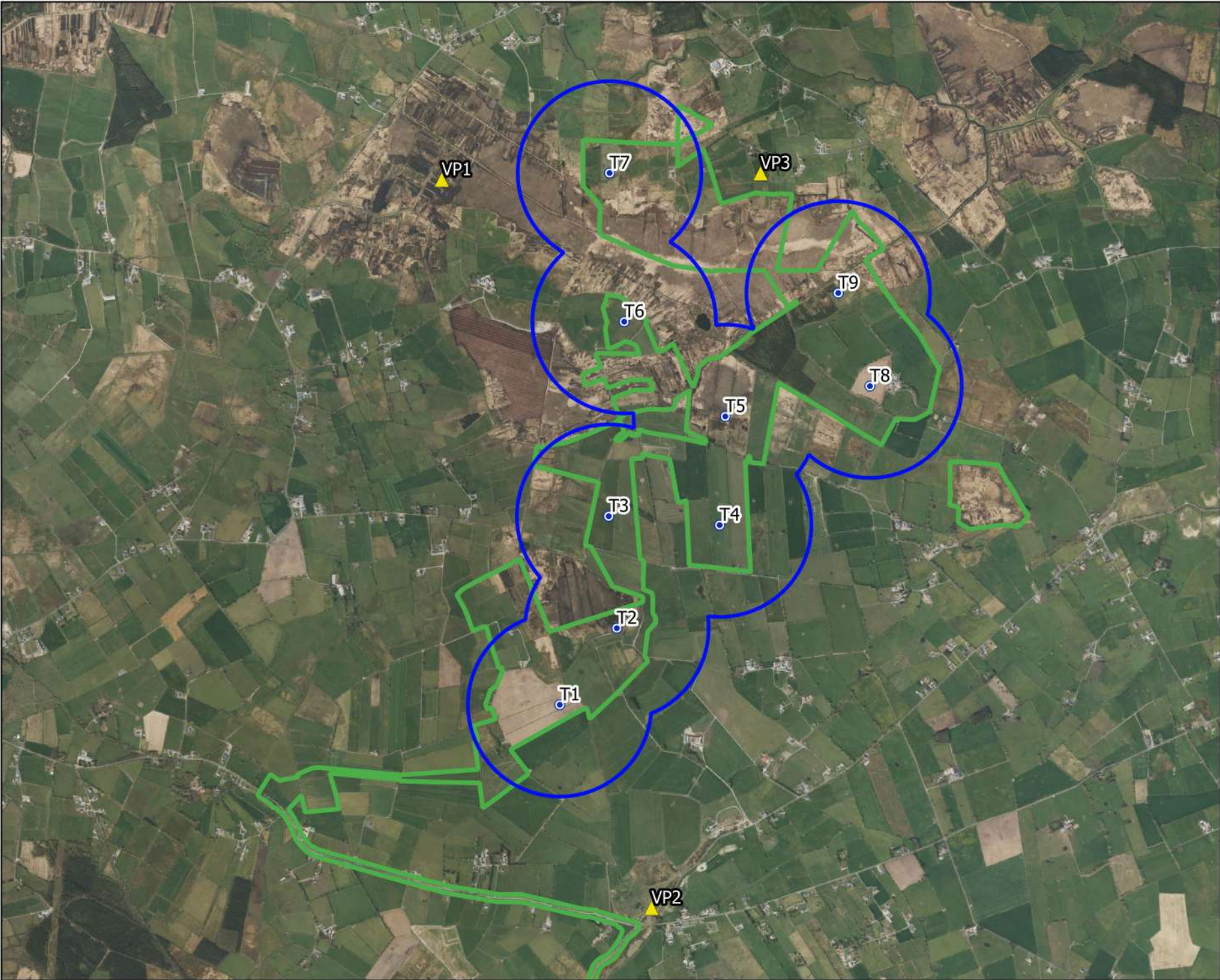
Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
25/07/2024	Breeding Raptor Survey	BR10	2:00 starting at 10:20	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	no raptors	LDV

Table 7 - 1 - 7 Breeding long-eared owl survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
19/05/2021	Breeding Long-eared Owl Survey	BR6	2:00 starting at 20:30	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JK

Table 7 - 1 - 8 Barn owl survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
14/04/2021	Barn Owl Survey	BORS1-6, 7b, 8	2:00 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK
14/05/2021	Barn Owl Survey	BORS1-5, 7a	not recorded	not recorded	date approximate	JK
25/05/2021	Barn Owl Survey	BORS1-6, 7b, 8	3:00 starting at 20:00	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JK



- Map Legend
- EIAR Site Boundary
 - 500m Turbine Radius
 - Turbine Locations
 - Vantage Point Survey Locations



Drawing Title

Vantage Point Survey

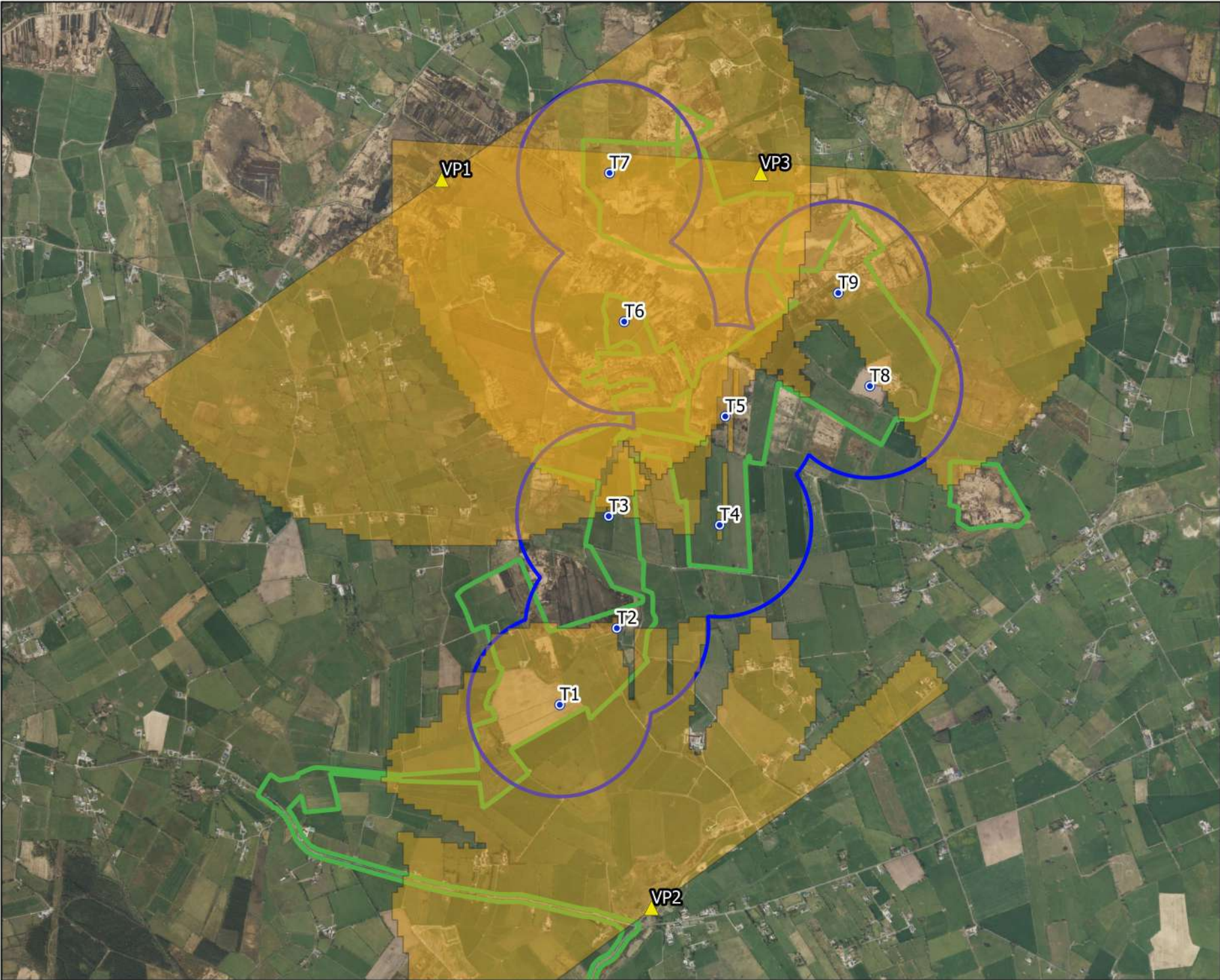
Project Title

Cooloo Wind Farm, Co. Galway

Drawn By	SD	Checked By	PC
Project No.	190723-m	Drawing No.	Fig 7-1-1
Scale	1:27,000	Date	2025.09.15

MKO Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VV94
+353 (0) 91 735611
email: info@mkofireland.ie
Website: www.mkofireland.ie

Microsoft product screen shots reprinted with permission from Microsoft Corporation



- Map Legend
- EIAR Site Boundary
 - 500m Turbine Radius
 - Turbine Locations
 - Vantage Point Survey Locations
 - Viewshed



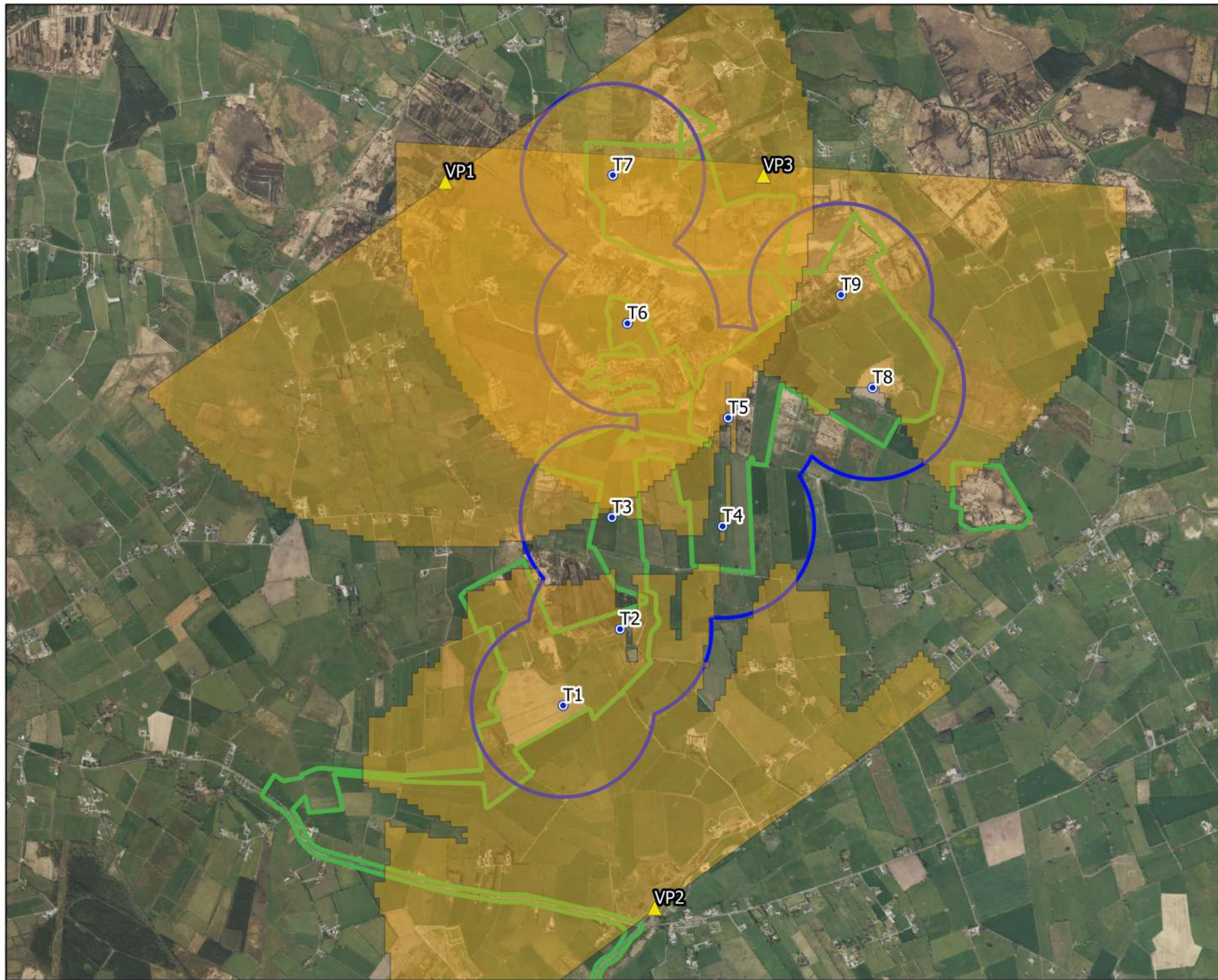
Drawing Title
Vantage Point Survey viewshed at 18m minimum rotor height

Project Title
Cooloo Wind Farm, Co. Galway

Drawn By SD	Checked By PC
Project No. 190723-m	Drawing No. Fig 7-1-2
Scale 1:27,000	Date 2025.09.15

MKO Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW94
+353 (0) 91 735611
email: info@mkofireland.ie
Website: www.mkofireland.ie

Microsoft product screen shots reprinted with permission from Microsoft Corporation



- Map Legend
- EIAR Site Boundary
 - 500m Turbine Radius
 - Turbine Locations
 - Vantage Point Survey Locations
 - Viewshed



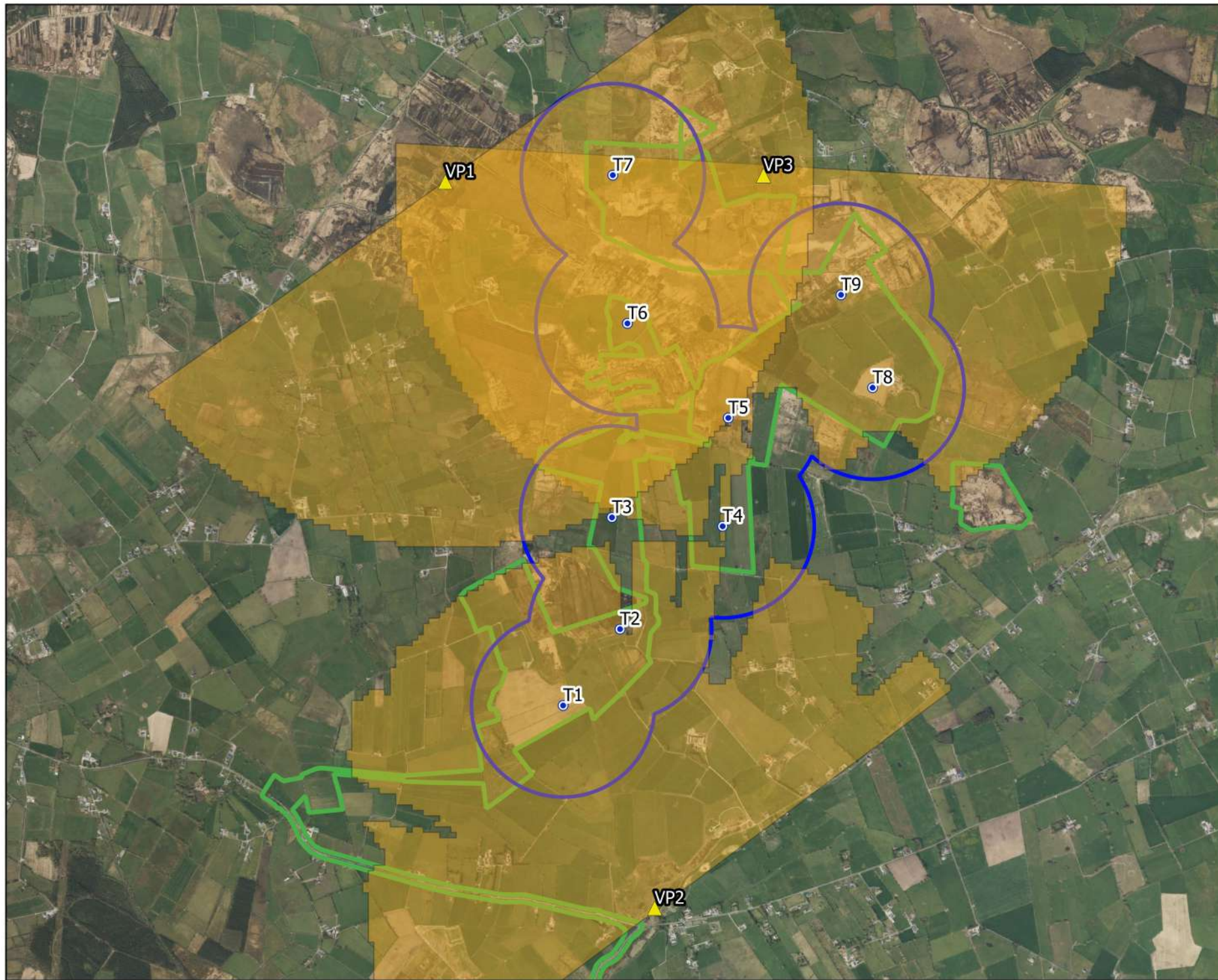
Drawing Title
Vantage Point Survey viewshed at 25m minimum rotor height

Project Title
Cooloo Wind Farm, Co. Galway

Drawn By	SD	Checked By	PC
Project No.	190723-m	Drawing No.	Fig 7-1-3
Scale	1:27,000	Date	2025.09.15



MKO
Planning and
Environmental
Consultants
Tuam Road, Galway
Ireland, H91 VW94
+353 (0) 91 735611
email: info@mkofireland.ie
Website: www.mkofireland.ie



- Map Legend
- EIAR Site Boundary
 - 500m Turbine Radius
 - Turbine Locations
 - Vantage Point Survey Locations
 - Viewshed

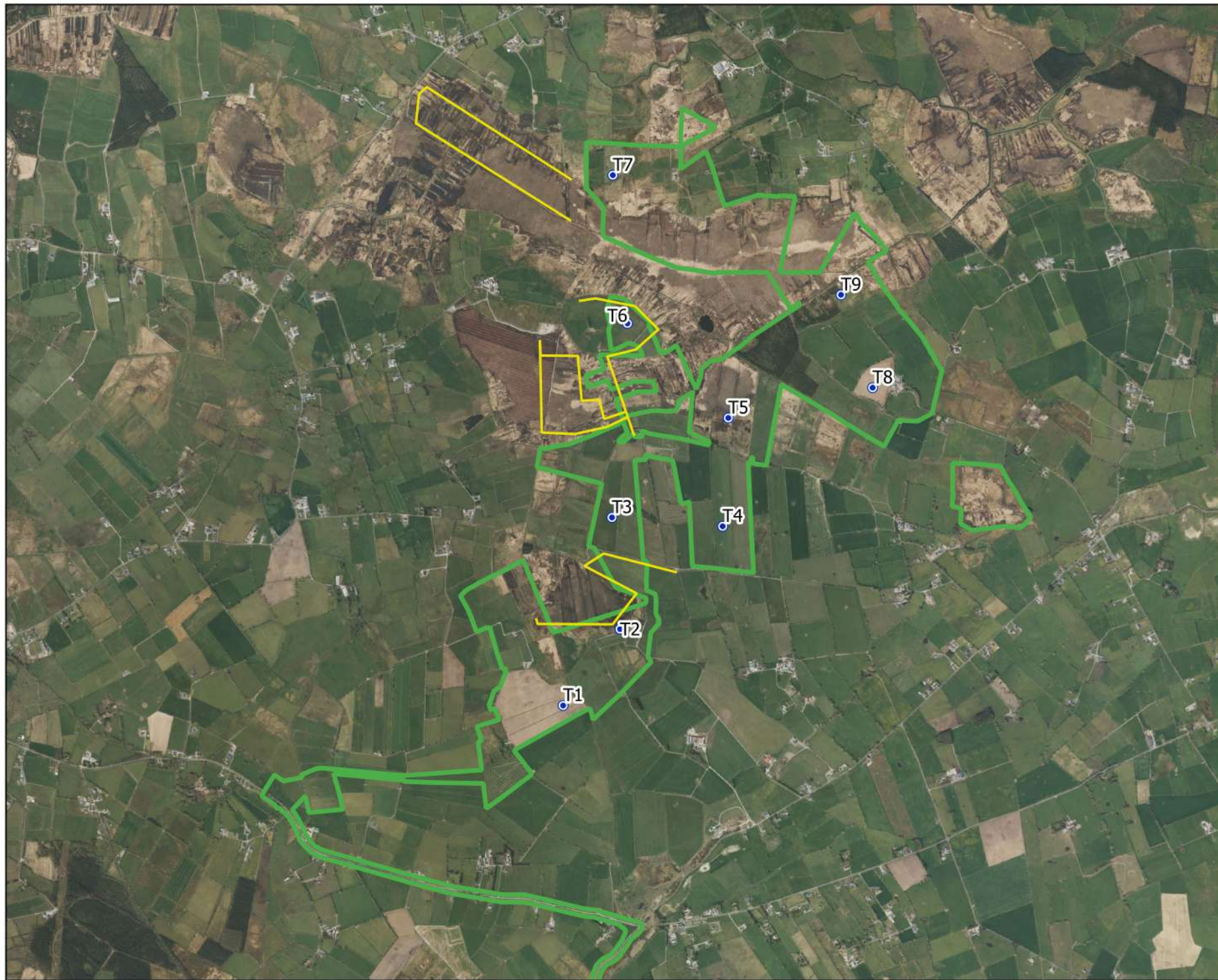


Drawing Title
Vantage Point Survey viewshed at 30m minimum rotor height

Project Title
Cooloo Wind Farm, Co. Galway

Drawn By SD	Checked By PC
Project No. 190723-m	Drawing No. Fig 7-1-4
Scale 1:27,000	Date 2025.09.15

MKO Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW94
+353 (0) 91 735611
email: info@mkofireland.ie
Website: www.mkofireland.ie

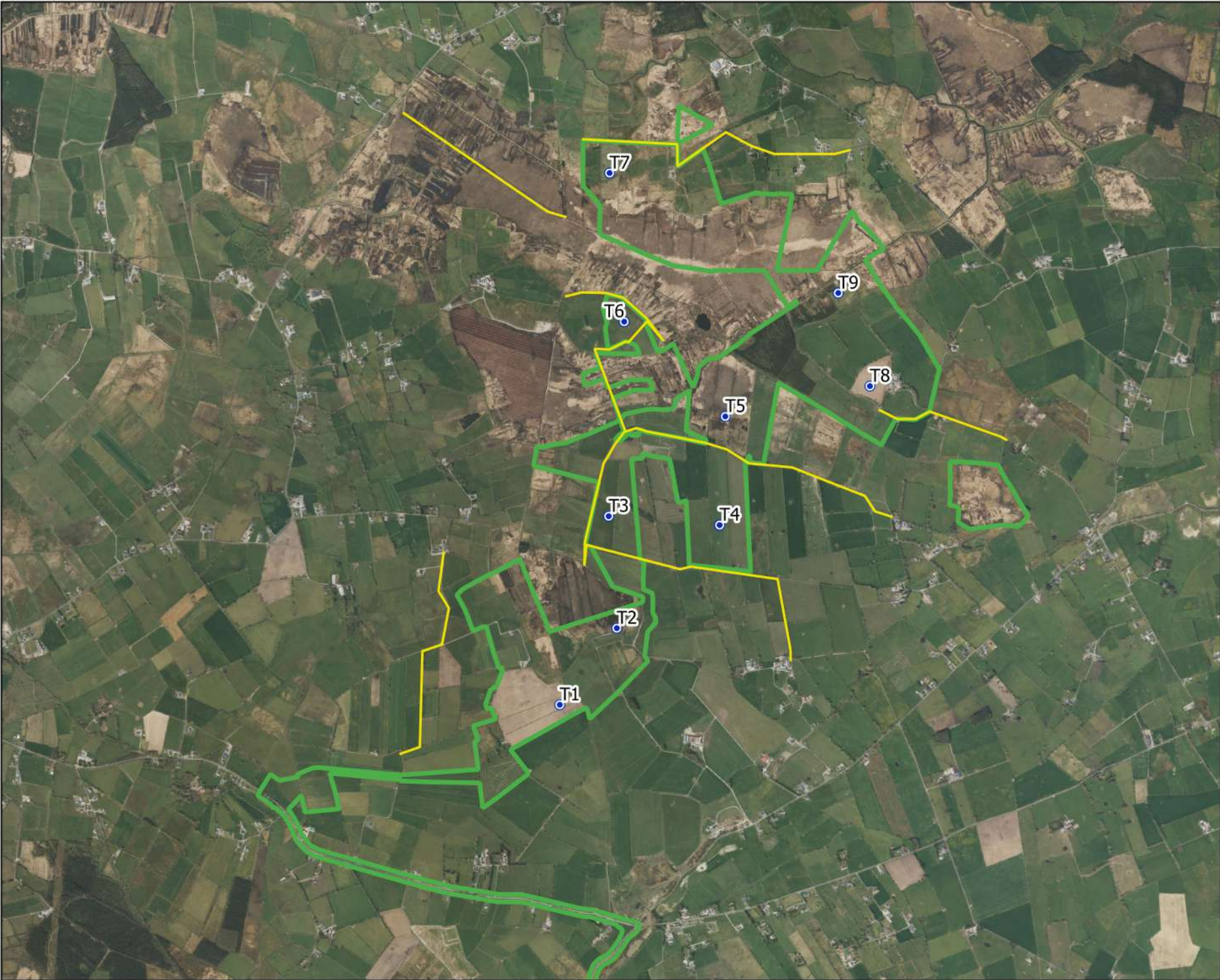


Map Legend

-  EIAR Site Boundary
-  Turbine Locations
-  Transects



Drawing Title	
Winter and Breeding Walkover Surveys transects 2019-2021	
Project Title	
Cooloo Wind Farm, Co. Galway	
Drawn By	Checked By
SD	PC
Project No.	Drawing No.
190723-m	Fig 7-1-5
Scale	Date
1:27,000	2025.09.15
 MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VV94 +353 (0) 91 735611 email: info@mkofireland.ie Website: www.mkofireland.ie	



Map Legend

-  EIAR Site Boundary
-  Turbine Locations
-  Transects

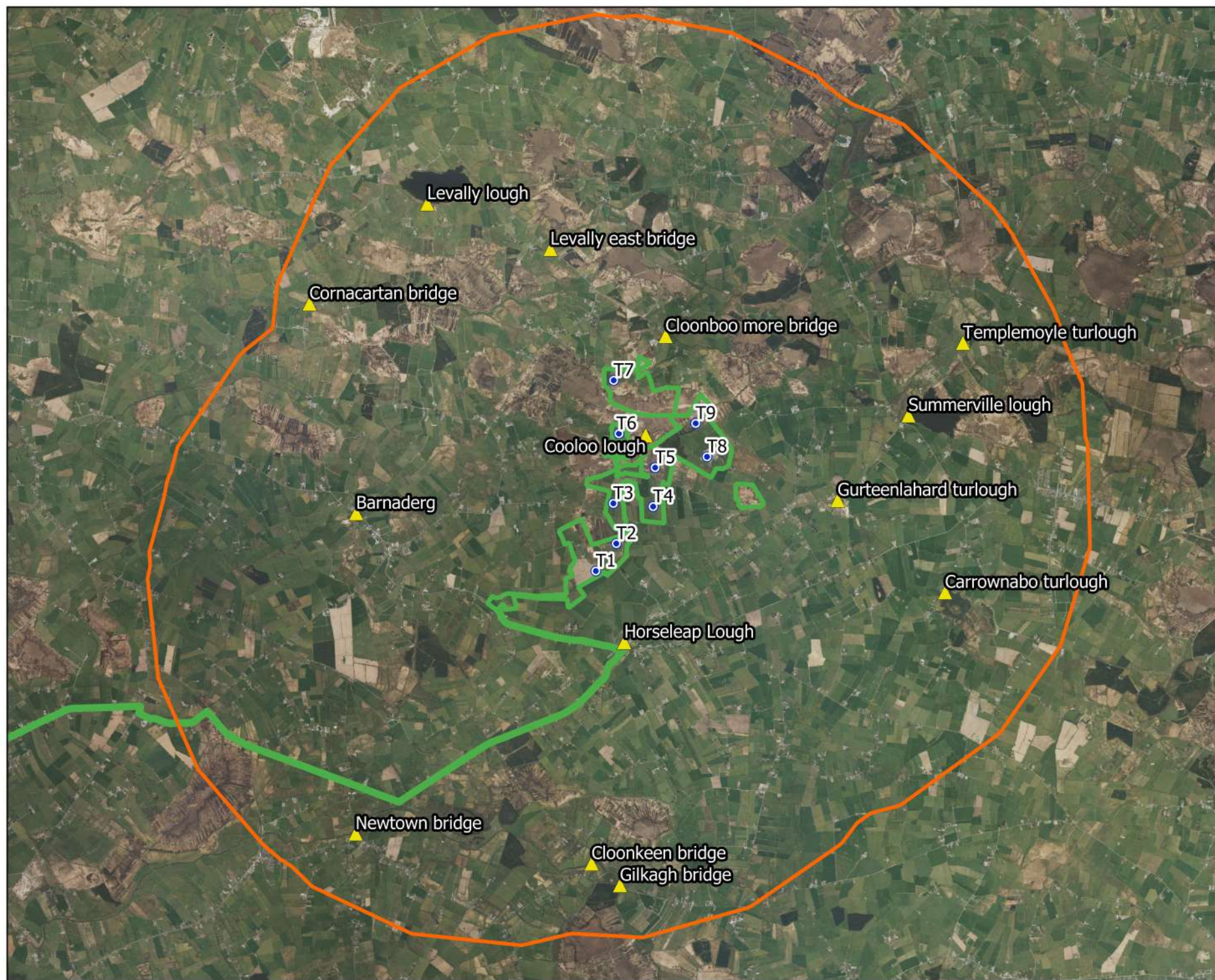


Drawing Title
Winter and Breeding Walkover
Surveys transects 2024-2025

Project Title
Cooloo Wind Farm, Co. Galway

Drawn By	SD	Checked By	PC
Project No.	190723-m	Drawing No.	Fig 7-1-6
Scale	1:27,000	Date	2025.09.15

 MKO
Planning and
Environmental
Consultants
Tuam Road, Galway
Ireland, H91 VV94
+353 (0) 91 735611
email: info@mkofireland.ie
Website: www.mkofireland.ie

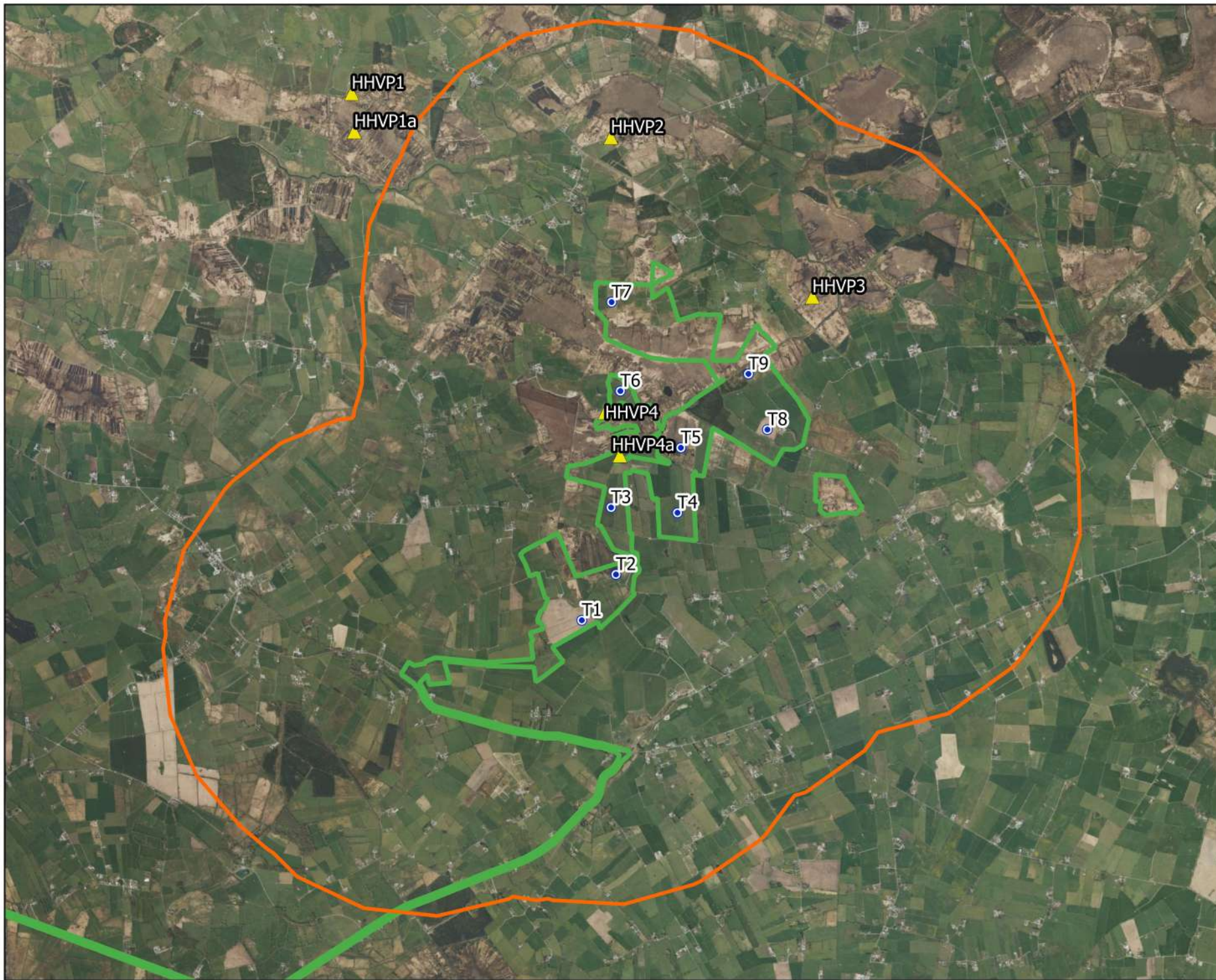


Map Legend

-  5km Survey Area
-  EIAR Site Boundary
-  Turbine Locations
-  Survey Locations



Drawing Title	
Waterbird Distribution and Abundance Survey Locations	
Project Title	
Cooloo Wind Farm, Co. Galway	
Drawn By	Checked By
SD	PC
Project No.	Drawing No.
190723-m	Fig 7-1-7
Scale	Date
1:75,000	2025.09.15
 MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VWW +353 (0) 91 735611 Email: info@mkofireland.ie Website: ww.mkoireland.ie	



Map Legend

-  2km Survey Area
-  EIAR Site Boundary
-  Turbine Locations
-  Survey Locations



Drawing Title

Hen Harrier Roost Survey
Locations

Project Title

Cooloo Wind Farm, Co. Galway

Drawn By

SD

Checked By

PC

Project No.

190723-m

Drawing No.

Fig 7-1-8

Scale

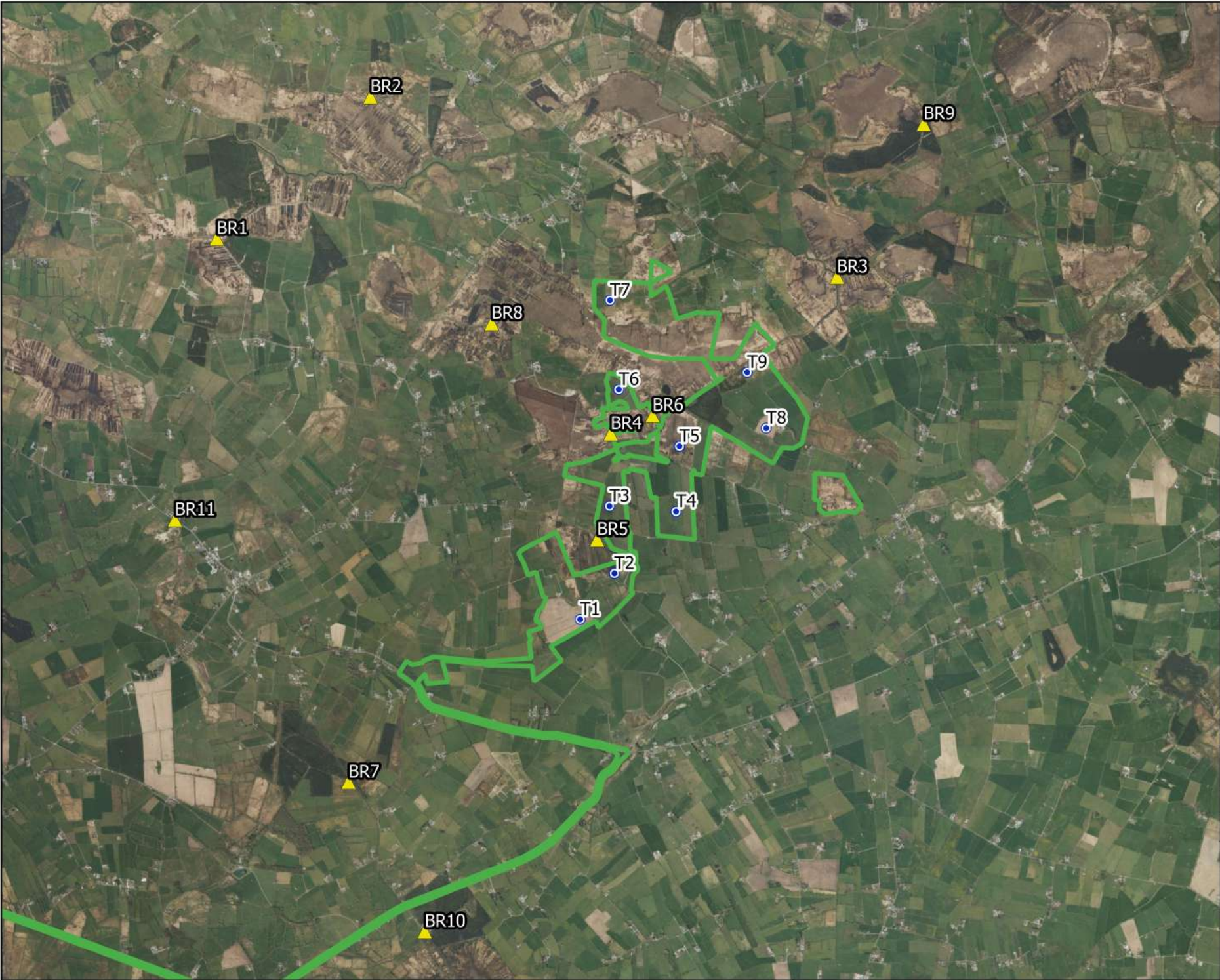
1:45,000

Date

2025.09.15



MKO
Planning and
Environmental
Consultants
Tuam Road, Galway
Ireland, H91 VV89
+353 (0) 91 735611
email: info@mkofireland.ie
Website: www.mkofireland.ie



Map Legend

-  EIAR Site Boundary
-  Turbine Locations
-  Survey Locations



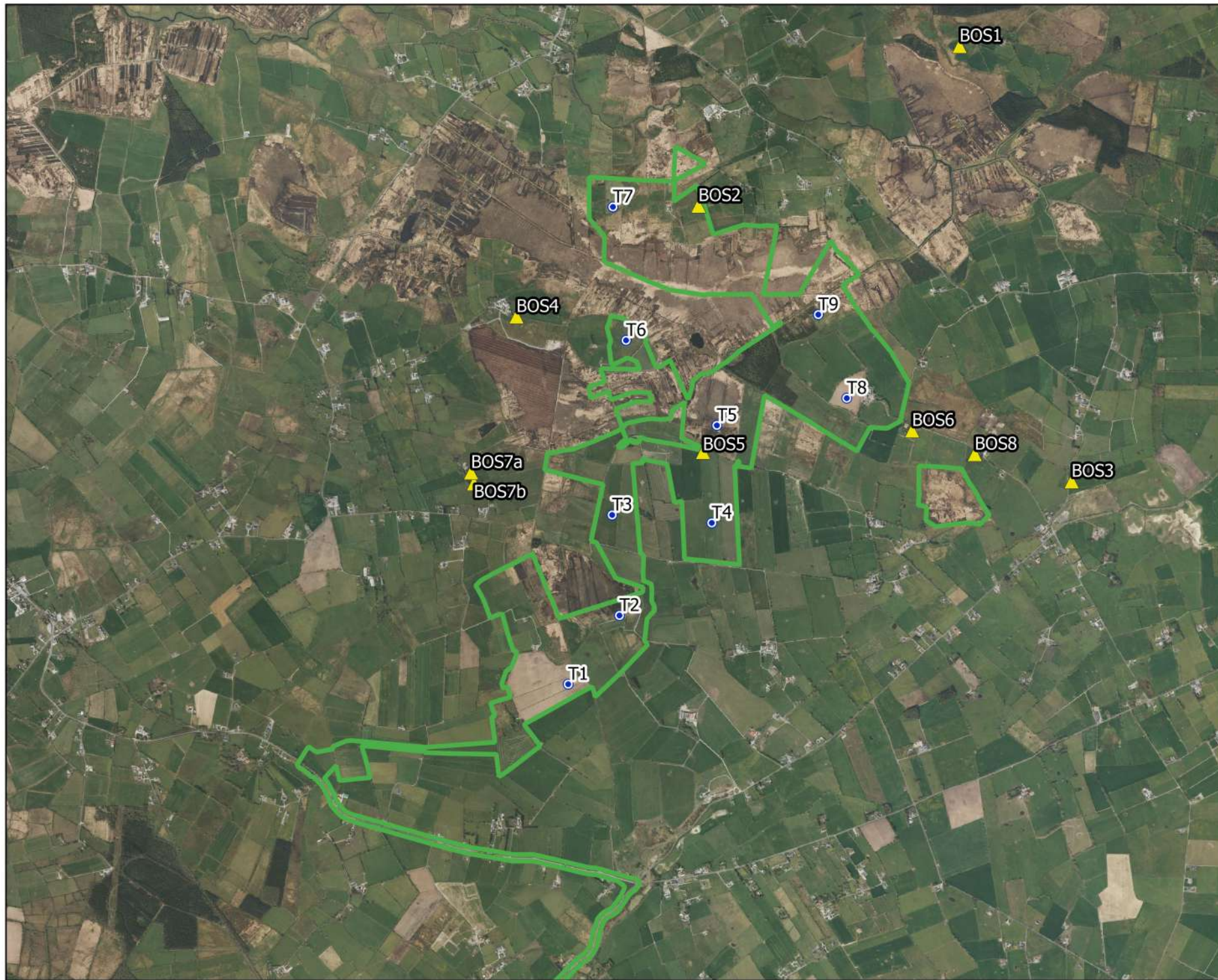
Drawing Title
Breeding Raptor Survey Locations

Project Title
Cooloo Wind Farm, Co. Galway

Drawn By	SD	Checked By	PC
Project No.	190723-m	Drawing No.	Fig 7-1-9
Scale	1:45,000	Date	2025.09.15



MKO
Planning and
Environmental
Consultants
Tuam Road, Galway
Ireland, H91 VV94
+353 (0) 91 735611
email: info@mkofireland.ie
Website: www.mkofireland.ie



Map Legend

-  EIAR Site Boundary
-  Turbine Locations
-  Survey Locations



Drawing Title

Barn Owl Survey Locations

Project Title

Cooloo Wind Farm, Co. Galway

Drawn By

SD

Checked By

PC

Project No.

190723-m

Drawing No.

Fig 7-1-10

Scale

1:30,000

Date

2025.09.15



MKO
Planning and
Environmental
Consultants
Tuam Road, Galway
Ireland, H91 VV94
+353 (0) 91 735611
email: info@mkofireland.ie
Website: www.mkofireland.ie