

Meenbog Windfarm EIAR Co. Donegal

Birds Technical Appendix 7.4



Planning & Environmental Consultants

Appendix 7.4 – Survey Data

Target Species (All Data Recorded from Each Survey Type)

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Table 1: Whooper Swan Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5m-175)	Band 4 (>175m)	Habitat & Activity	Comments	Inside /Outside Focus Area
WS109	11/04/2016	3	Breeding	Red	Whooper Swan	1	09:05:00	10		10			WD4, (Conifer plantation) PB4, (Cutover bog)		In
Commuting/Migratory Bird Vantage Point Survey of Barnesmore Gap															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5m-175)	Band 4 (>175m)	Habitat & Activity	Comments	Inside /Outside Focus Area
WS101	29/10/2015	CMVP	NON-BR	orange	Whooper Swan	11	07:48:00	1080			1080		Flying through Barnesmore gap, close to the road. Turned left and flew into Croaghona forestry. Flew close to VPs 1&2. Flew back out and through the gap.		In
WS102	29/10/2015	CMVP	NON-BR	Purple	Whooper Swan	1	08:07:00	120			120		1 bird broke away from the flock and flew from Barnesmore gap to Lough Mourne		Out
WS103	29/10/2015	CMVP	NON-BR	pink	Whooper Swan	1	08:18:00	120			120		Bird flying from Lough Mourne to Barnesmore bog		Out
WS104	29/10/2015	CMVP	NON-BR	green	Whooper Swan	1	08:32:00	120			120		Bird flying from bog to forestry		Out
WS105	29/10/2015	CMVP	NON-BR	tourquoise	Whooper Swan	1	08:55:00	120			120		Bird flying back from forestry to lough Mourne		Out





Table 1: Whooper Swan Survey Data

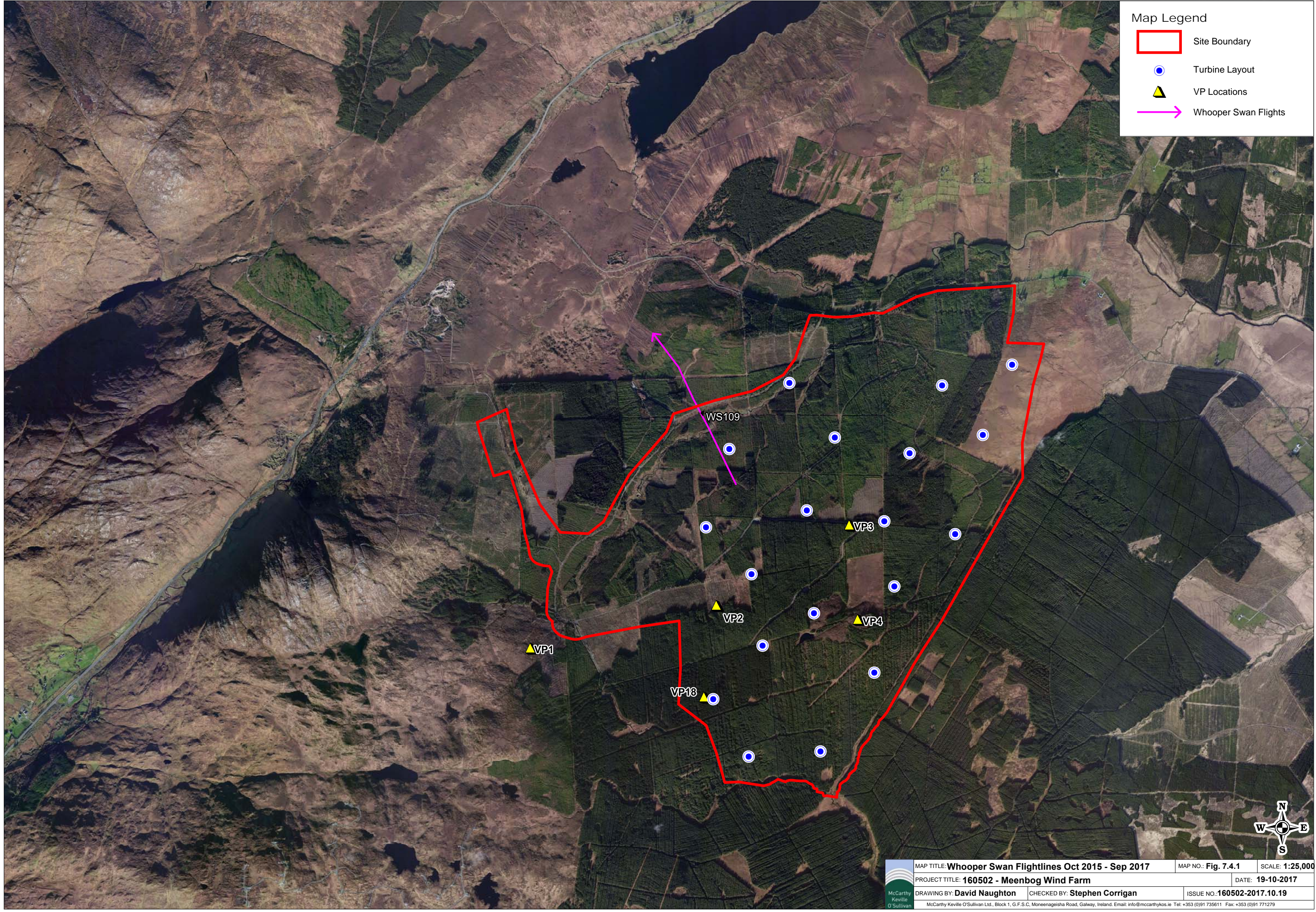
Commuting/Migratory Bird Vantage Point Survey of Barnesmore Gap															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5m-175)	Band 4 (>175m)	Habitat & Activity	Comments	Inside /Outside Focus Area
WS106	16/11/2015	CMVP	NON-BR	Red	Whooper Swan	30	08:58:00	12	2		10		Flying to lough Mourne. Not sure where from as view was obstructed by topography.		Out
WS107	16/11/2015	CMVP	NON-BR	Blue	Whooper Swan	28	10:04:00	600			600		Flying from Lough Mourne through barnesmore gap.		Out
WS108	16/11/2015	CMVP	NON-BR	Purple	Whooper Swan	5	11:57:00	360			360		Flying through barnesmore gap.		Out
BBS Walkover															
Map ref No.	Date	Trans/Quad No.	Season	Obs no.	Species	No. of birds	Time Spotted	N/A	N/A	GPS	X	Y	Habitat & Activity	Comments	N/A
	17/04/2015		Breeding	1	Whooper Swan	1	07:35:00						Bird flew across forestry, crossing forest track close to main gate and in the direction of lough mourne.	Unsure of Location	
Waterfowl Survey Data															
Season	Date	Location	N/A	Species	No. of birds	N/A	Waterbird Activity	Feeding /Roosting	GPS	X	Y	Habitat & Activity	Comments	N/A	
Breeding	07/05/2016	Lough Eske		Whooper Swan	2			P							
Non-breeding	03/03/2017	Lough Eske		Whooper Swan	2		On Water	Feeding	G	198048	382650	Feeding in SE corner of lake			

Table 1: Whooper Swan Survey Data

Waterfowl Survey Data														
Season	Date	Location	N/A	Species	No. of birds	N/A	Waterbird Activity	Feeding /Roosting	GPS	X	Y	Habitat & Activity	Comments	N/A
Non-breeding	14/03/2017	Lough Eske		Whooper Swan	6		On Water	Feeding	G	198069	382636	Alert before starting to forage in SE corner		
Breeding	13/04/2016	Lough Eske		Whooper Swan	1									
Non-breeding	24/10/2016	Lough Mourne		Whooper Swan	13				H	206389	388887	6 adults and 7 immatures roosting in SE corner of lough		
Non-breeding	17/01/2017	Lough Shinnagh		Whooper Swan	4				H	211693	389610	Loafing on lough		
Non-breeding	17/01/2017	Lough Shinnagh		Whooper Swan	2				H	211713	389587	Flew in from W and landed on lough		
Non-breeding	24/10/2016	Lough Cuill		Whooper Swan	2				H	201466	378259	Foraging on NE edge of lake		
Non-breeding	09/11/2016	Lough Cuill		Whooper Swan	2				H	201463	378264	Foraging along lake fringe		
Non-breeding	17/01/2017	Lough Cuill		Whooper Swan	8				H	201379	378306	Foraging along NE fringe of lake		
Non-breeding	14/02/2017	Lough Bradan		Whooper Swan	9		On Water	Feeding	H	208605	381455	Moved from S edge to centre while alert		
Incidental Observations														
Survey Type	Date	Location	N/A	Species	No. of birds	N/A	N/A	N/A	GPS	X	Y	Notes	Comments	N/A
Breeding Raptor Survey	11/04/2016	Lough Mourne		Whooper Swan					H	206658	389477	Resting on L. Mourne		

Map Legend





-  Site Boundary
-  Turbine Layout
-  VP Locations
-  Whooper Swan Flights

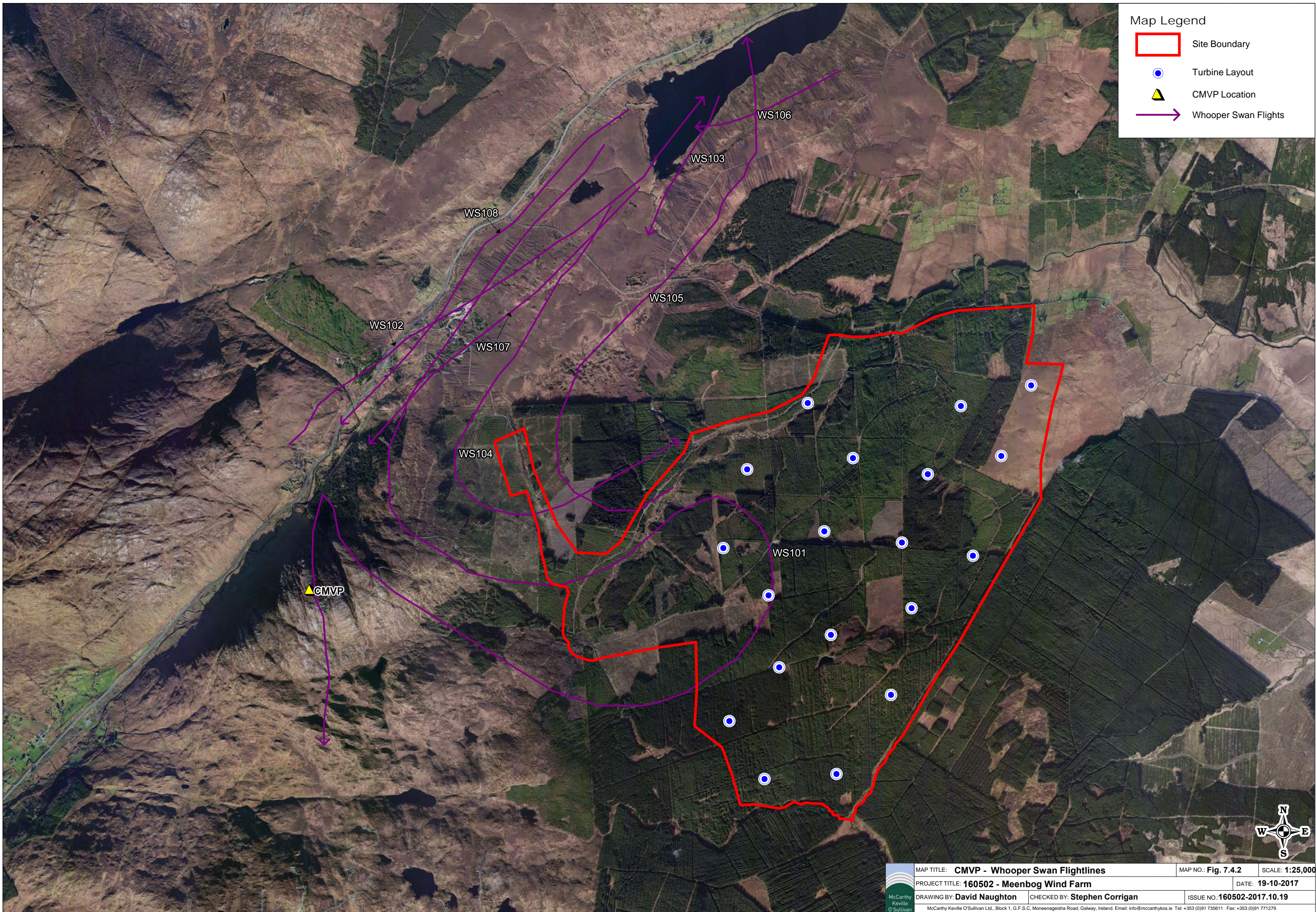


	MAP TITLE: Whooper Swan Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.1	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm		DATE: 19-10-2017
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
	McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthycos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279		

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Map Legend

-  Site Boundary
-  Turbine Layout
-  CMVP Location
-  Whooper Swan Flights



	MAP TITLE: CMVP - Whooper Swan Flightlines	MAP NO.: Fig. 7.4.2	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthynos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>			

Table 2: Golden Plover Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5m-175)	Band 4 (>175m)	Notes on habitat and activity	Comments	Inside /Outside Focus Area
GP101	19/01/2017	4	Non-breeding	1	Golden Plover	30	09:09:00	25			25		WD4, (Conifer plantation) Travelling		In
Commuting/Migratory Bird Vantage Point Survey of Barnesmore Gap															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5m-175)	Band 4 (>175m)	Habitat & Activity	Comments	Inside /Outside Focus Area
GP102	22/02/2017	CMVP	Non-breeding	1	Golden Plover	30	12:00:00	80		10	20	50	PB2, (Upland blanket bog) Travelling	Flock passing over Barnesmore Gap	Out
Brown & Shepherd Walkovers															
Flight Ref	Date	Trans/Quad No.	Season	N/A	Species	No. of Birds	Time of observation	N/A	Sex/age	GPS	X	Y	Habitat and Activity	Comments	N/A
	27/04/2017		Breeding		Golden Plover	29	11:46:00		adults: 12 female, 17 male	H	209228	387182	PB2, (Upland blanket bog) flushed up, re landed, flock flew away five minutes later		
Winter Walkover															
Map Reference No.	Date	Trans/Quad No.	Season	N/A	Species	No. of Birds	Time of observation	N/A	Sex/age	GPS	X	Y	Habitat and Activity	Comments	N/A
2008	08/11/2016	WW01	Non-breeding		Golden Plover	3							PB2, (Upland blanket bog)		
	26/01/2017		Non-breeding		Golden Plover	24	11:55:00			H	209426	387149			

Table 2: Golden Plover Survey Data

Waterfowl Survey Data														
Season	Date	Location	N/A	Species	No. of Birds	N/A	Waterbird Activity	Feeding /Roosting	GPS	X	Y	Notes on habitat and activity	Comments	N/A
Non-breeding	12/03/2017	Lough Golagh (North)		Golden Plover	18		Terrestrial	Roosting	H	204219	382276	Roosting on bog S OF Lough Golagh		
Non-breeding	18/12/2016	Meenabrock Lough		Golden Plover	42				H	205231	382726	Roosting flock flushed from bog between lakes, flying around location before heading NE; 0-40m, 34 seconds		
Non-breeding	01/01/2017	Meenabrock Lough		Golden Plover	14				H	205179	382766	Flock roosting on bog between the two lakes, flying N at 0-1m in to head wind		
Non-breeding	12/02/2017	Meenabrock Lough		Golden Plover	60		Flying	Flying				Flew up from bog, circling then flew NE		
Non-breeding	29/01/2017	Loughnaweelagh		Golden Plover	2				H	205019	382871	Flushed from bog		
Non-breeding	29/01/2017	Lough Innaghacho		Golden Plover	1				H	205043	383739	Flushed from bog		
Breeding	13/04/2016	Lough Derg		Golden Plover	21									
Breeding	09/04/2017	Lough Golagh (South)		Golden Plover	1		Flying					One GP in summer plummage, suitable breeding habitat, flew overhead, calling, walking south of L Golagh (approach to Croaghadalough hill)		
Breeding	14/04/2016	Pettigo Plateau SPA		Golden Plover	1							CALLING IN SUITABLE BREEDING HABITAT		





Table 2: Golden Plover Survey Data

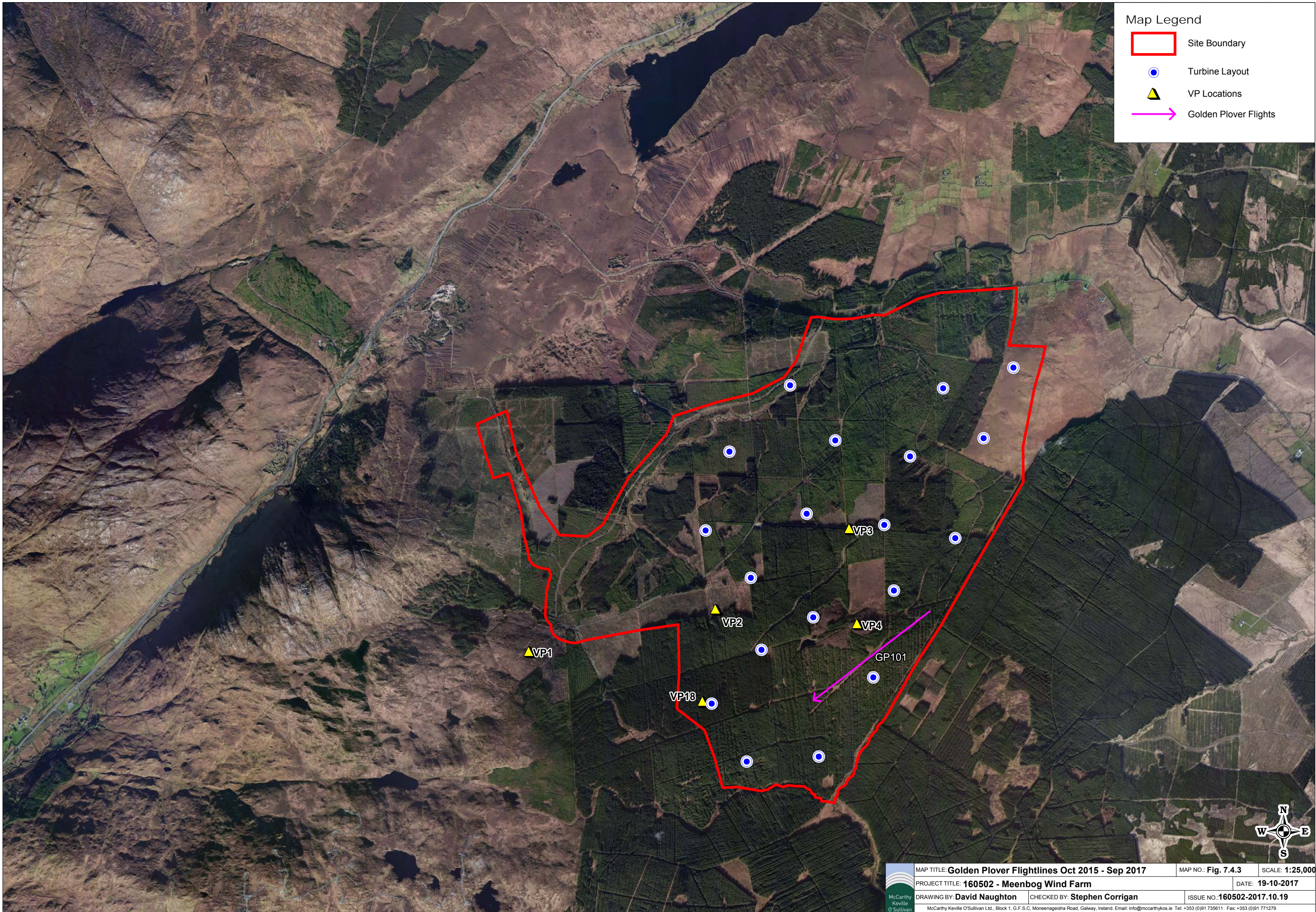
Incidental Observations														
Survey Type	Date	Location	N/A	Species	No. of Birds	N/A	N/A	N/A	GPS	X	Y	Notes	N/A	N/A
Breeding Raptor Survey	17/04/2015	South of Trusk Lough		Golden Plover	6							Golden Plover, Flock observed in flight, turning to head SW		
Breeding Raptor Survey	17/04/2015	South of Trusk Lough		Golden Plover								Flock roosting on bog		
Hen Harrier Roost Survey	21/04/2015	HHVP3		Golden Plover	1							Golden plover, HEARD CALLING A NUMBER OF TIMES NEAR LOUGH MOURNE. NO VISUAL.		
Hen Harrier Roost Survey	21/04/2015	HHVP4		Golden Plover	126							Golden Plover, FEEDING IN ARABLE FIELD		
Hen Harrier Roost Survey	23/04/2015	HHVP6		Golden Plover	111							111 Golden Plover, FEEDING IN SHORT CROPPED GRASSLAND		
Hen Harrier Roost Survey	23/04/2015	HHVP6		Golden Plover								HEARD ON MOORLAND NO VISUAL		
Breeding Raptor Survey	04/04/2017	Lough Mourne Hill Top		Golden Plover	18							Circling over Lough Mourne hill top		
Breeding Raptor Survey	18/04/2017	Near Croagh Bridge		Golden Plover	55							Flushed from bog		

Table 2: Golden Plover Survey Data

Incidental Observations														
Survey Type	Date	Location	N/A	Species	No. of Birds	N/A	N/A	N/A	GPS	X	Y	Notes	N/A	N/A
Breeding Raptor Survey	23/04/2017	North of Barnesmore Gap		Golden Plover	11							Flushed from Croaghnageer Mountain		
Breeding Raptor Survey	06/05/2017	Barnesmore Gap		Golden Plover	1							Flushed from edge of small bog pool and landed on rocky knoll uphill. Preseumed to be on a breeding territory		





Map Legend

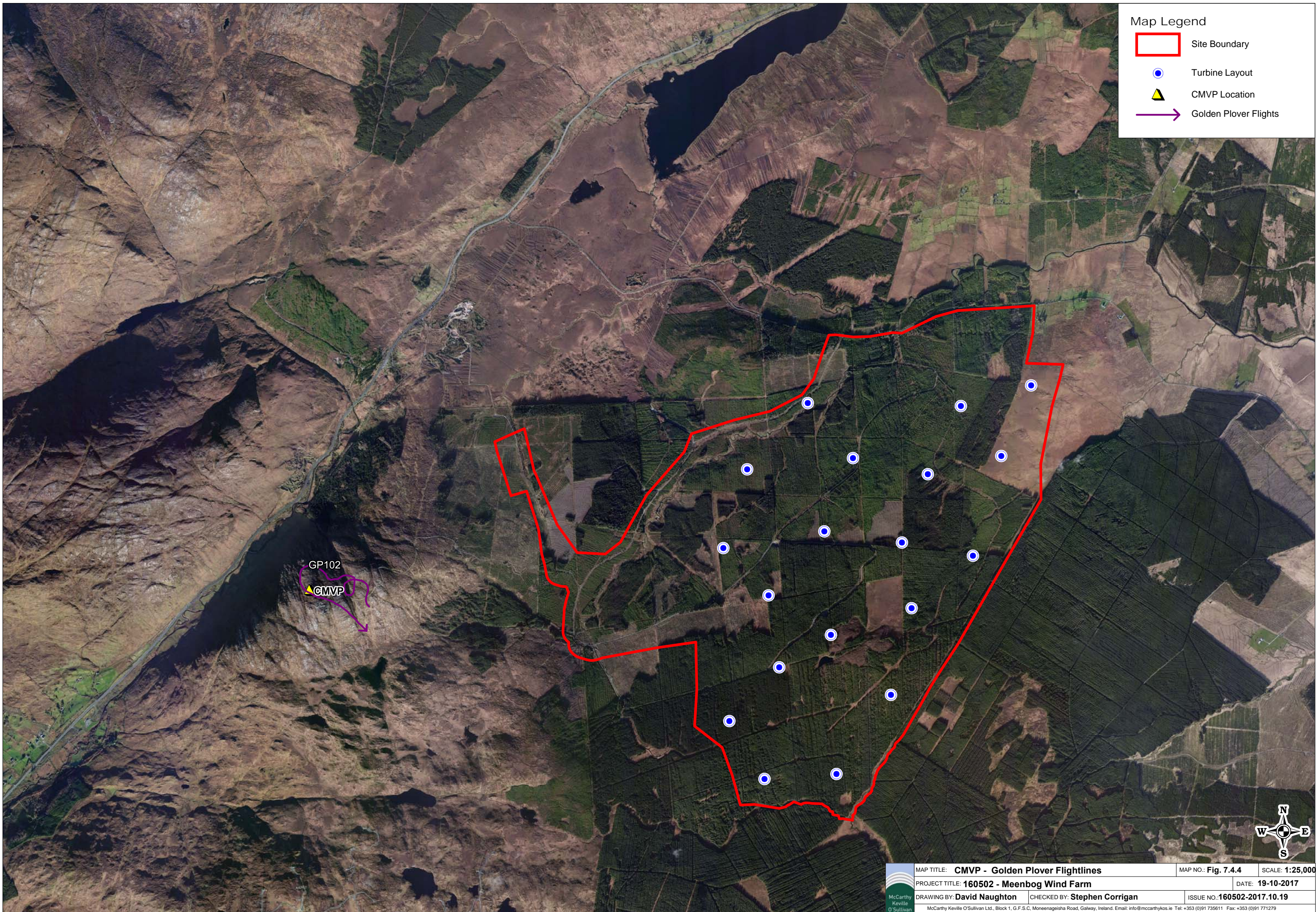
-  Site Boundary
-  Turbine Layout
-  VP Locations
-  Golden Plover Flights



	MAP TITLE: Golden Plover Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.3	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm		DATE: 19-10-2017
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Map Legend

-  Site Boundary
-  Turbine Layout
-  CMVP Location
-  Golden Plover Flights







GP102
CMVP

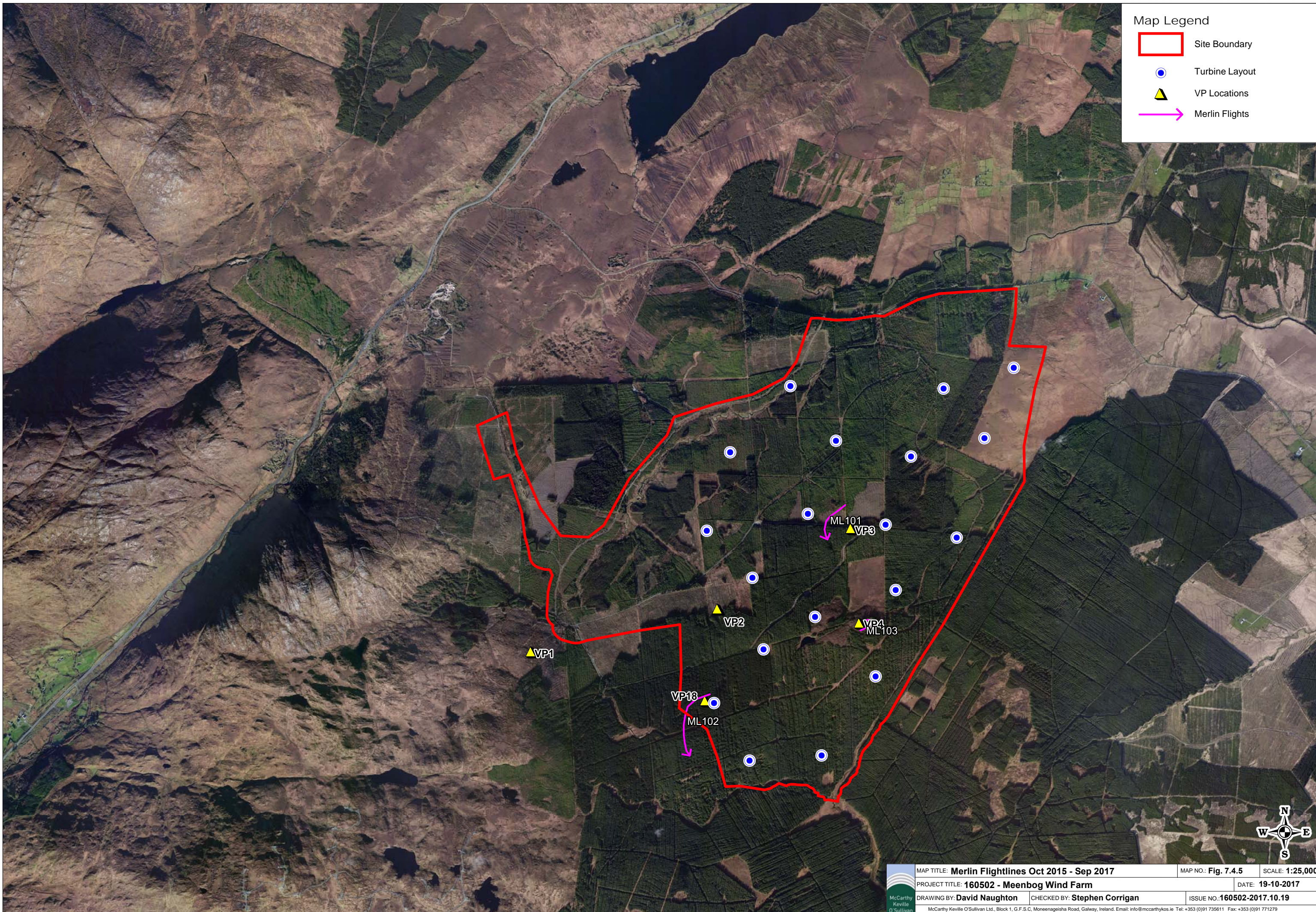
	MAP TITLE: CMVP - Golden Plover Flightlines	MAP NO.: Fig. 7.4.4	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Table 3: Merlin Survey Data

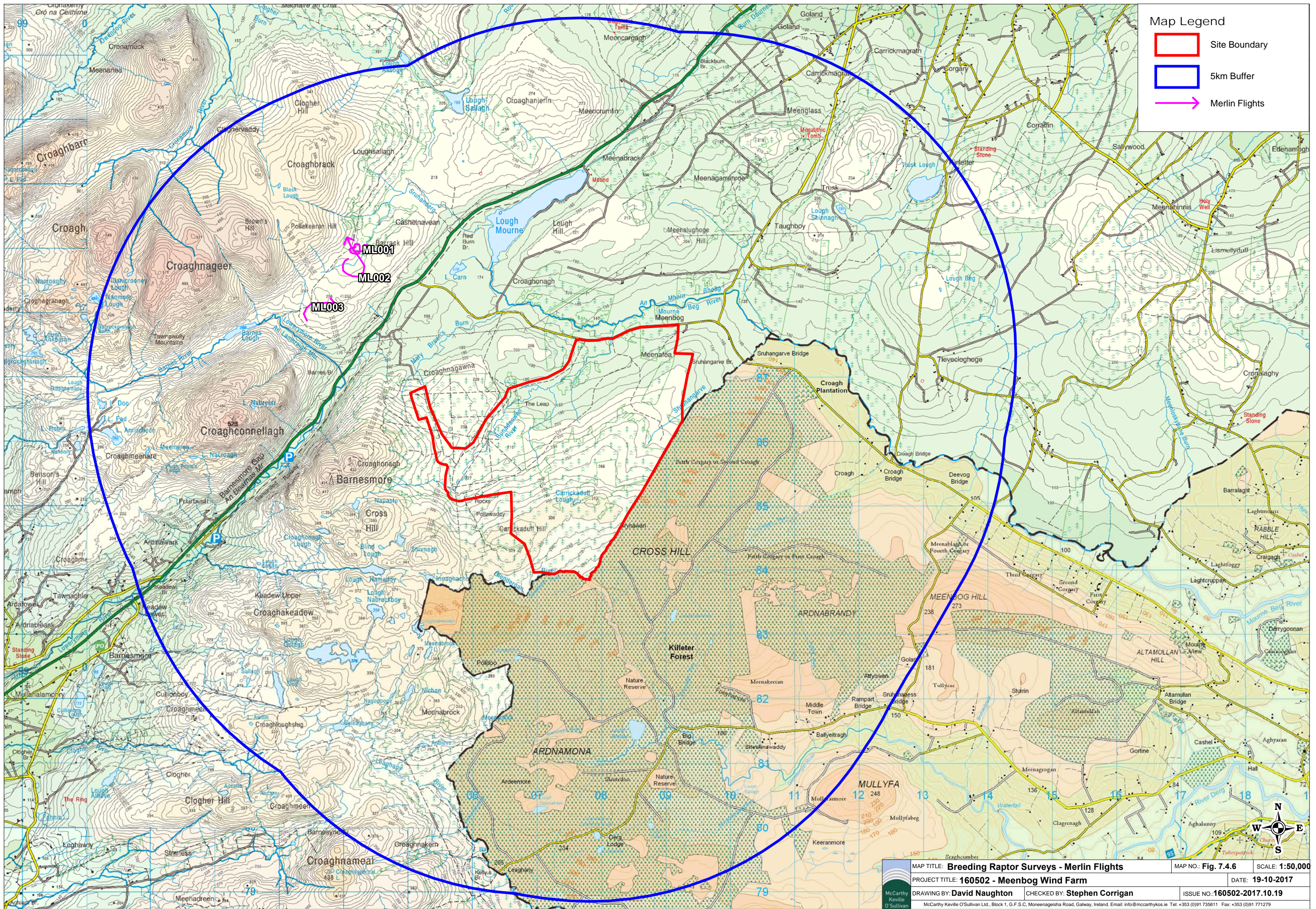
Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5m-175)	Band 4 (>175m)	Notes on habitat and activity	Comments	Inside /Outside Focus Area
ML101	17/07/2016	3	Breeding	1	Merlin	1	15:14:00	9	9				WD4, (Conifer plantation) Male ML flew SW up slope past VP at 5-10m.		In
ML102	18/08/2016	18	Breeding	3	Merlin	1	14:26:00	32	7	25			WD4, (Conifer plantation) WS5, (Recently-felled woodland) Flying from forestry over clearfell and taking perch for 5 seconds, continuing flight over tree line		In
ML103	18/10/2016	4	Non-breeding	2031	Merlin	1	15:23:00	10	10				WD4, (Conifer plantation) PB2, (Upland blanket bog)		In
Breeding Raptor Surveys															
Map Reference No.	Date	VP	Season	Obs no.	Species	No. of Birds	Time of observation	N/A	N/A	GPS	X	Y	Habitat and Activity	Comments	N/A
ML001	29/04/2016	4		32	Merlin	1	10:35:00			H	204090	388950	Alarm-called on approach to forestry and circled around me twice before flying E over forestry block		
ML002	23/04/2017	1			Merlin	1	10:28:00							Agitated behaviour or anxiety calls ; Probable breeding	
ML003	06/07/2017				Merlin	1	16:53:00								

Map Legend

-  Site Boundary
-  Turbine Layout
-  VP Locations
-  Merlin Flights



	MAP TITLE: Merlin Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.5	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm		DATE: 19-10-2017
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Map Legend

- Site Boundary
- 5km Buffer
- Merlin Flights

MAP TITLE: Breeding Raptor Surveys - Merlin Flights	MAP NO.: Fig. 7.4.6	SCALE: 1:50,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Table 4: Peregrine Falcon Survey Data

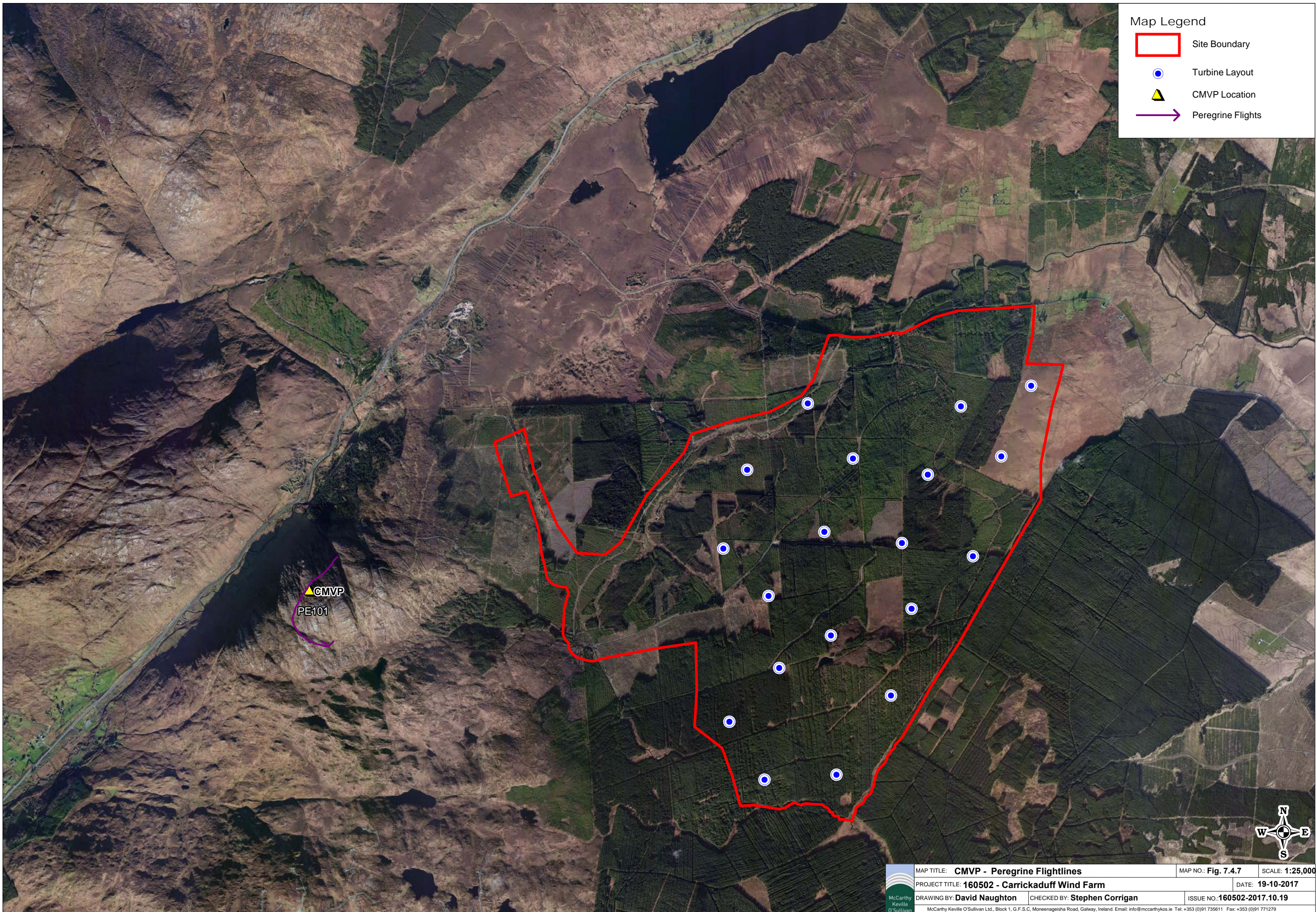
Commuting/Migratory Bird Vantage Point Survey of Barnesmore Gap															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5m-175)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
PE101	22/02/2017	CMVP	Non-breeding	2	Peregrine Falcon	1	12:50:00	20				20	PB2, (Upland blanket bog) Soaring	Individual hanging on wind tight to mountains edge	Out
Brown & Shepherd Walkovers															
Breeding Territory Map Reference	Date	Trans /Quad No.	Season	Obs No.	Species	No. of Birds	Time of observation	N/A	Sex/age	GPS	X	Y	Habitat and Activity	Comments	N/A
	18/05/2017		Breeding		Peregrine Falcon	1	15:58:00		Adult						
Breeding Raptor Surveys															
Map Reference No.	Date	VP	Season	Obs no.	Species Name	No. of Birds	Time of observation	N/A	N/A	GPS	X	Y	Habitat and Activity	Comments	N/A
PE001	06/05/2017	2	Breeding		Peregrine Falcon	1	18:02:00							Flying over; Non-breeding	
PE002	14/06/2017		Breeding		Peregrine Falcon	2	12:00:00			H	203233	385417		See Grid Ref	
PE003	04/07/2017		Breeding		Peregrine Falcon	1	15:54:00								

Table 4: Peregrine Falcon Survey Data

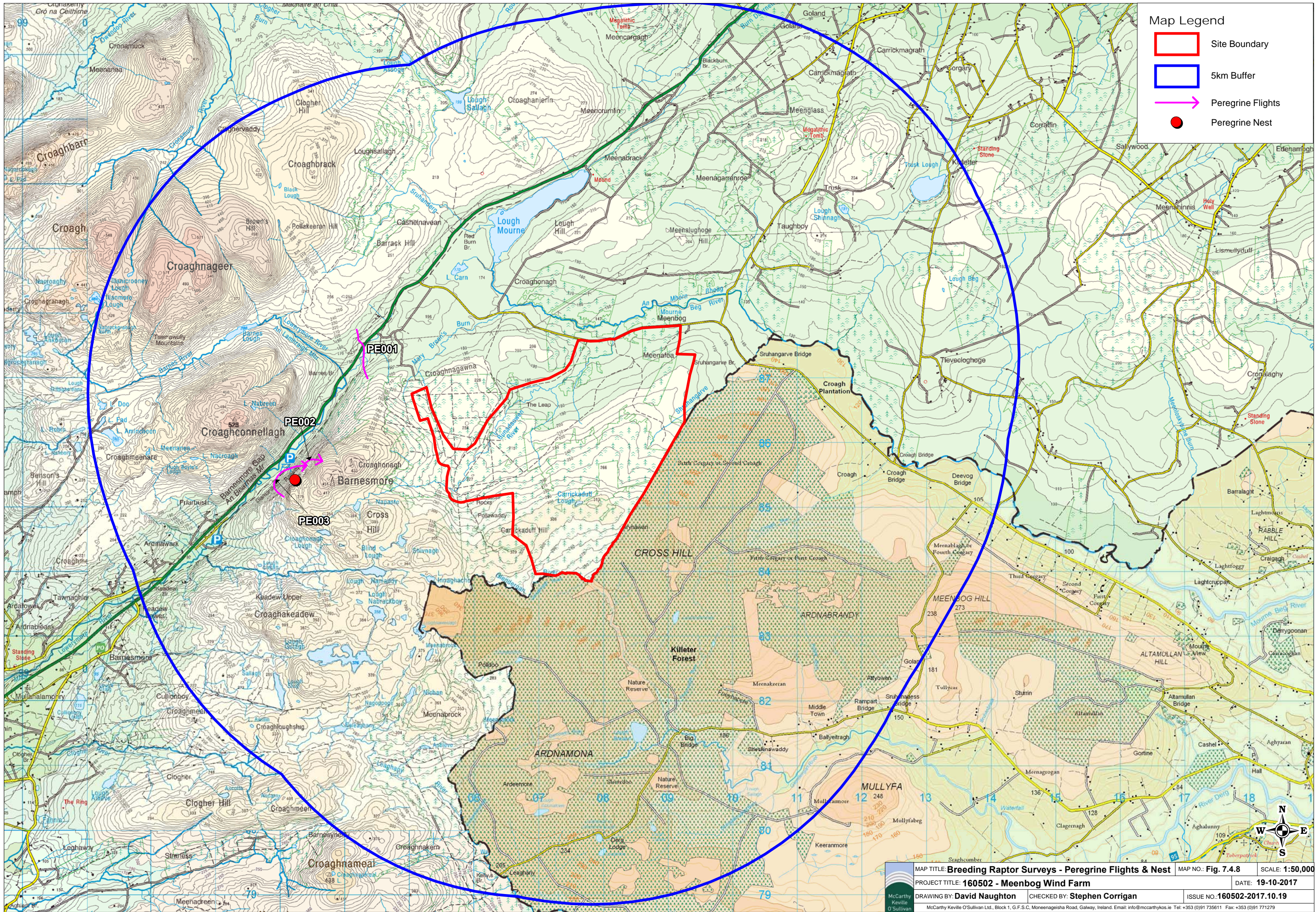
Waterfowl Survey Data														
Season	Date	Location	N/A	Species	No. of Birds	N/A	Waterbird Activity	Feeding /Roosting	GPS	X	Y	Notes on habitat and activity	Comments	N/A
Breeding	13/04/2016	Croghnameal		Peregrine Falcon	1							FLY OVER		
Incidental Observations														
Survey Type	Date	Location	N/A	Species	No. of Birds	N/A	N/A	N/A	GPS	X	Y	Notes	N/A	N/A
Vantage Point Survey	18/08/2016	VP18		Peregrine Falcon					H	208361	387508	Observed onsite whilst leaving VP		

Map Legend

-  Site Boundary
-  Turbine Layout
-  CMVP Location
-  Peregrine Flights



	MAP TITLE: CMVP - Peregrine Flightlines	MAP NO.: Fig. 7.4.7	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Carrickaduff Wind Farm		DATE: 19-10-2017
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Map Legend

- Site Boundary
- 5km Buffer
- Peregrine Flights
- Peregrine Nest

MAP TITLE: Breeding Raptor Surveys - Peregrine Flights & Nest	MAP NO.: Fig. 7.4.8	SCALE: 1:50,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
McCarthy Keville O'Sullivan McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenagaisha Road, Galway, Ireland. Email: info@mccarthycos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279		

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Table 5: Hen Harrier Survey Data

Vantage Point Surveys														
Map Reference No.	Date	VP	Season	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5m-175)	Band 4 (>175m)	Habitat and activity	Comments	Inside /Outside Focus Area
HH101	20/04/2015	4	Breeding	Hen Harrier	1	15:55:00	50	25	25	40		Flew from N to S in gap in forestry close to Carrickaduff Lough. Female		In
HH102	20/04/2015	4	Breeding	Hen Harrier	1	17:55:00	20	5	5	70		Flew from S to N just above height of trees. She then perched on top of a spruce for a minute. Lost sight of her shortly after. Female		In
HH103	13/10/2016	2	Non-breeding	Hen Harrier	1	15:56:00	30	30				WD4, (Conifer plantation) HH3, (Wet heath) In flight	Adult male	In
HH104	21/12/2016	18	Non-breeding	Hen Harrier	1	13:31:00	27		27			WD4, (Conifer plantation) WS5, (Recently-felled woodland) In flight	Adult male	In
HH105	18/07/2017	3	Breeding	Hen Harrier	1	10:36:00	25		5	20		WD4, (Conifer plantation) Soaring high over forestry over 2km away	Ringtail Possible Juvenile	Out
Brown & Shepherd Walkovers														
Flight Ref	Date	Trans/Quad No.	Season	Species	No. of Birds	Time of observation	N/A	N/A	N/A	N/A	N/A	Habitat and Activity	Sex/age	
HH001	26/04/2017		Breeding	Hen Harrier	2	13:43:00						WD4, (Conifer plantation) flying close together	male and female	
HH002	26/04/2017		Breeding	Hen Harrier	1	17:12:00						WD4, (Conifer plantation) flying	male	

Table 5: Hen Harrier Survey Data

Hen Harrier Roost Surveys														
Map Reference No.	Date	VP	Season	Species	No. of Birds	Time of observation	N/A	N/A	N/A	N/A	N/A	Habitat and Activity	Comments	Inside /Outside Focus Area
	20/04/2015	HHVP1	Both Overlap										NO HH OBSERVED	In
	20/04/2015	HHVP2	Both Overlap										NO HH OBSERVED	In
	21/04/2015	HHVP3	Both Overlap										NO HH OBSERVED	In
	21/04/2015	HHVP4	Both Overlap										NO HH OBSERVED	In
	21/04/2015	HHVP5	Both Overlap										NO HH OBSERVED	In
	23/04/2015	HHVP6	Both Overlap										NO HH OBSERVED	In
HH1	22/11/2015	3	Non-breeding	Hen Harrier	1	16:29:00						1 male flew E at 1-5m and landed quickly in heather	Roost	Out
HH2	25/11/2015	2	Non-breeding	Hen Harrier	1	16:26:00						1 male flew W over cut-over bog before turning N and landed in heather	Roost	Out
HH5	11/12/2015	2	Non-breeding	Hen Harrier	1	15:36:00						1 male hunted over bog for 6 minutes heading E		Out
HH6	11/12/2015	2	Non-breeding	Hen Harrier	1	15:36:00						2nd Bird quartered West for 14 minutes		Out
HH7	21/12/2015	3	Non-breeding	Hen Harrier	1	15:53:00						1 male hunted SE at 10-20m against wind for 4 mins		Out
HH8	30/12/2015	5	Non-breeding	Hen Harrier	1	16:23:00						1 male circled over fields at 1-2m before dropping into a large patch of rushes	Roost	Out

Table 5: Hen Harrier Survey Data

Hen Harrier Roost Surveys														
Map Reference No.	Date	VP	Season	Species	No. of Birds	Time of observation	N/A	N/A	N/A	N/A	N/A	Habitat and Activity	Comments	Inside /Outside Focus Area
HH9	08/01/2016	2	Non-breeding	Hen Harrier	1	15:19:00						1 male quartered over bog and fields for 6 minutes while heading E		Out
HH10	12/01/2016	5	Non-breeding	Hen Harrier	1	14:33:00						1 adult male flew E at 1-30m over bog and forestry for 5 mins		Out
HH11	12/01/2016	5	Non-breeding	Hen Harrier	1	14:33:00						2nd adult male flew NE then SE at 1-10m for 120 seconds		Out
HH12	04/02/2016	2	Non-breeding	Hen Harrier	1	15:35:00						1 male quartered over bog for 3 mins while heading E		Out
HH13	09/03/2016	5	Non-breeding	Hen Harrier	1	16:40:00						1 male quartered W over bog at 1-5m for 30 seconds		Out
HH14	09/03/2016	5	Non-breeding	Hen Harrier	1	16:40:00						2nd male flew N for 100 seconds		Out
HH15	23/03/2016	3	Non-breeding	Hen Harrier	1	18:18:00						1 male flew along edge of Mourne Beg river below hillside at 10-20m before crossing road S		Out
2	06/11/2016	5	Non-breeding	Hen Harrier	1	16:26:00						Viewed distantly against skyline, heading W but exact position and route was indeterminable from the VP location, flying at ~30-40m	H 213900 386800	Out
HH1	19/11/2016	2	Non-breeding	Hen Harrier		15:39:00						WD4, (Conifer plantation) Observed hunting at 1-2m for 115 seconds, ENE parallel to forestry before turning N. It flew between the houses and was lost from sight.		Out

Table 5: Hen Harrier Survey Data

Hen Harrier Roost Surveys														
Map Reference No.	Date	VP	Season	Species	No. of Birds	Time of observation	N/A	N/A	N/A	N/A	N/A	Habitat and Activity	Comments	Inside /Outside Focus Area
HH2	19/11/2016	2	Non-breeding	Hen Harrier		15:49:00						Probably the same male was resighted 9 mins later, see flying SE away from the houses , then S up-slope and out of sight after 138 seconds		Out
HH3	19/11/2016	2	Non-breeding	Hen Harrier		15:56:00						PB, (Bogs) Same/different male moving ENE along forestry edge at 1-10m, turning N and hunted over the bog, moving W in to forestry after 718 seconds		Out
HH4	19/11/2016	2	Non-breeding	Hen Harrier		16:36:00						PB, (Bogs) Observed after sunset quartering over the rushes along the S edge of the bog at 1-2m, apparently in a prelude to roosting. Final location was not observed due to distance and the appearance of a second male, closer to VP	H 214820 387570 ROOST	Out
HH5	19/11/2016	2	Non-breeding	Hen Harrier		16:39:00						HH, (Heath) Moved into same field of view as previous bird, flying around 2 locations before roosting in heather and rushes after 23 seconds	H 214350 389010 ROOST	Out
1	08/12/2016	5	Non-breeding	Hen Harrier	1	16:28:00						ROOST	H 214489 387684	Out
1	01/01/2017	5	Non-breeding	Hen Harrier	1	16:28:00						ROOST	H 214485 387565	Out

Table 5: Hen Harrier Survey Data

Hen Harrier Roost Surveys														
Map Reference No.	Date	VP	Season	Species	No. of Birds	Time of observation	N/A	N/A	N/A	N/A	N/A	Habitat and Activity	Comments	Inside /Outside Focus Area
2	02/01/2017	2	Non-breeding	Hen Harrier	1	16:44:00						ROOST	H 214335 389007	Out
3	21/01/2017	1	Non-breeding	Hen Harrier	1	15:35:00							H 212200 389800	Out
4	21/01/2017	1	Non-breeding	Hen Harrier	1	16:35:00							H 211600 389300	Out
1	12/02/2017	5	Non-breeding	Hen Harrier	1	16:42:00						Male hunted over bog and forestry. Interacted with 2nd male whilst meandering between trees before heading S. Flight time: 512 seconds)	WD4, (Conifer plantation) PB4, (Cutover bog) Flying	Out
2	12/02/2017	5	Non-breeding	Hen Harrier	1	16:44:00						2nd male appeared and interacted with 1st male, viewed intermittently in forestry. Flew S after 362 seconds	WD4, (Conifer plantation) PB4, (Cutover bog) Flying	Out
3	12/02/2017	5	Non-breeding	Hen Harrier	1	17:32:00						Male flew out from forestry, hunting over bog. It roosted in rushes after 219 seconds	WD4, (Conifer plantation) PB4, (Cutover bog) Flying & Roosted	Out
1	05/03/2017	5	Non-breeding	Hen Harrier	1	17:43:00						Male flew S over track before circling over bog and landed in a large area of rushes after 42 seconds.	PB4, (Cutover bog) Flying & Roosted	Out

Table 5: Hen Harrier Survey Data

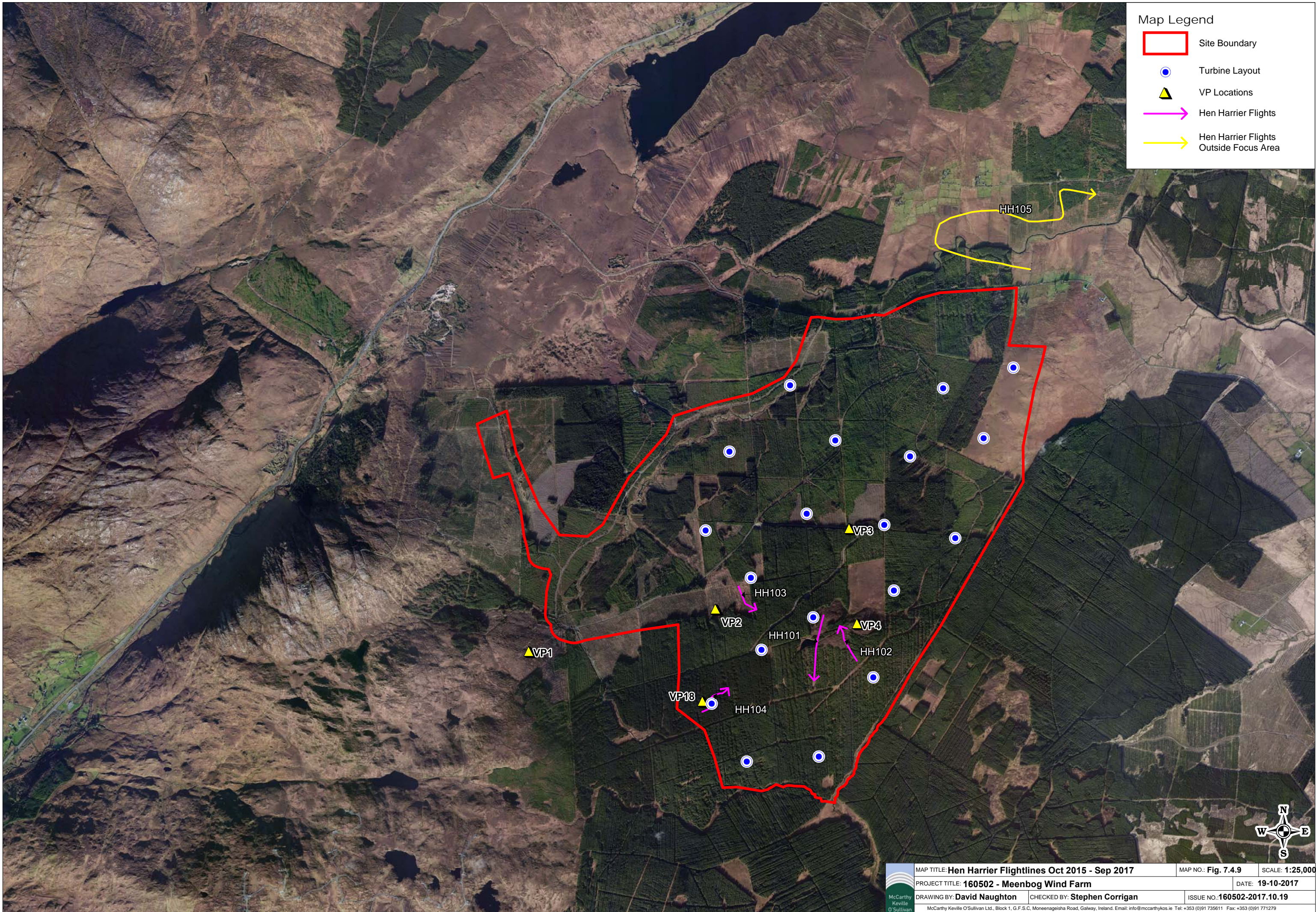
Breeding Raptor Surveys														
Map Reference No.	Date	VP	Season	Species	No. of Birds	Time of observation	N/A	N/A	N/A	N/A	N/A	Habitat and Activity	Comments	N/A
HH001	29/07/2015		Breeding	Hen Harrier	1	11:40:00						1 Male flew along forestry ride in Carrickaduff, flying fast in tail wind		
HH002	19/04/2016	2	Breeding	Hen Harrier	1	09:12:00						Flew SE up-slope at 1-2m before moving over ridge	H 11026 89300	
HH003	25/04/2016	3	Breeding	Hen Harrier	1	12:40:00						Ringtail flew E over ridge on Barnesmore Hill at 50-60m, briefly interacting with the BZ pair before gliding ENE over forestry and rose up to 150m in far distance	H 04451 86044	
HH004	03/07/2017		Breeding	Hen Harrier	1	16:28:00						Hunting low on Meewbog Hill		
Waterfowl Survey														
Season	Date	Location	Species	No. of Birds	Sex/Age	Waterbird Activity	Feeding/Roosting	GPS	X	Y	Notes on habitat and activity	Comments	N/A	
Breeding	08/05/2016	Lough Derg	Hen Harrier	2			Pair	Two different Locations			Male HH perched on conifer at G 207241 - 373329. Female HH seen and heard calling briefly at 209674 - 372127	INDIVIDUALS OVER 2.7KM APART ON OPPOSITE SHORES OF LAKE		
Both Overlap	26/09/2017	Lough Golagh (South)	Hen Harrier	1	Adult Female			H	202423	374983	Hunting along lake edge	Flew south along the west side of lough Golagh into forestry		

Table 5: Hen Harrier Survey Data

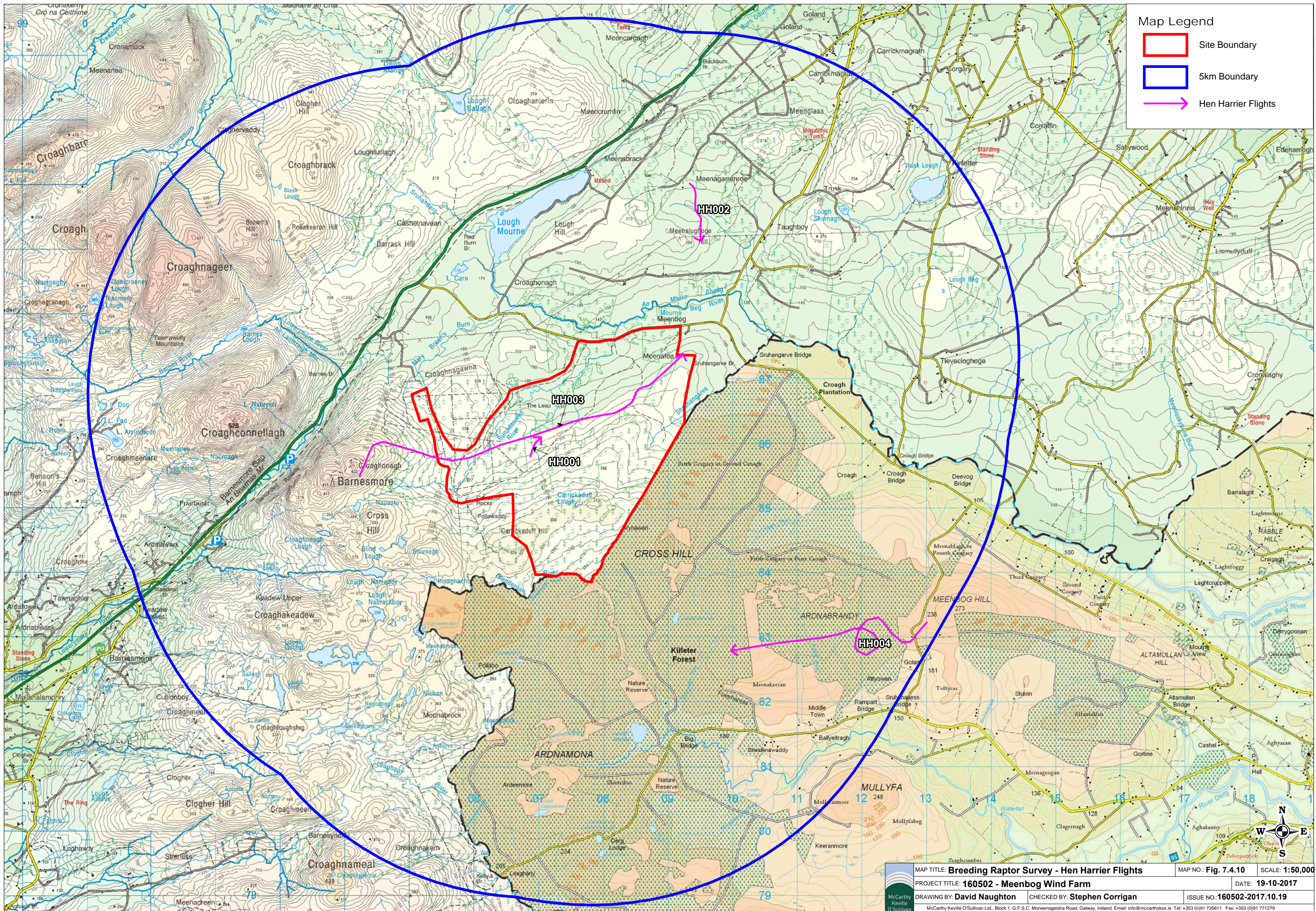
Incidental Observations													
Survey Type	Date	Location	Species	No. of Birds	N/A	N/A	N/A	GPS	X	Y	Notes	Comments	N/A
Goshawk Survey	30/03/2017	Survey 3	Hen Harrier	1							Male observed (from vehicle) in flight heading South below PCH. Approx 4 km away from site boundary		
Waterfowl Survey	25/09/2017	Access road to Barnesmore windfarm	Hen Harrier	1				H	201666	381130	Immature female judged by size. Hunting along access road all the way to the gate of windfarm then turning back out the same road West.	SEEN ON WAY TO SURVEY	

Map Legend

- Site Boundary
- Turbine Layout
- VP Locations
- Hen Harrier Flights
- Hen Harrier Flights Outside Focus Area



MAP TITLE: Hen Harrier Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.9	SCALE: 1:25,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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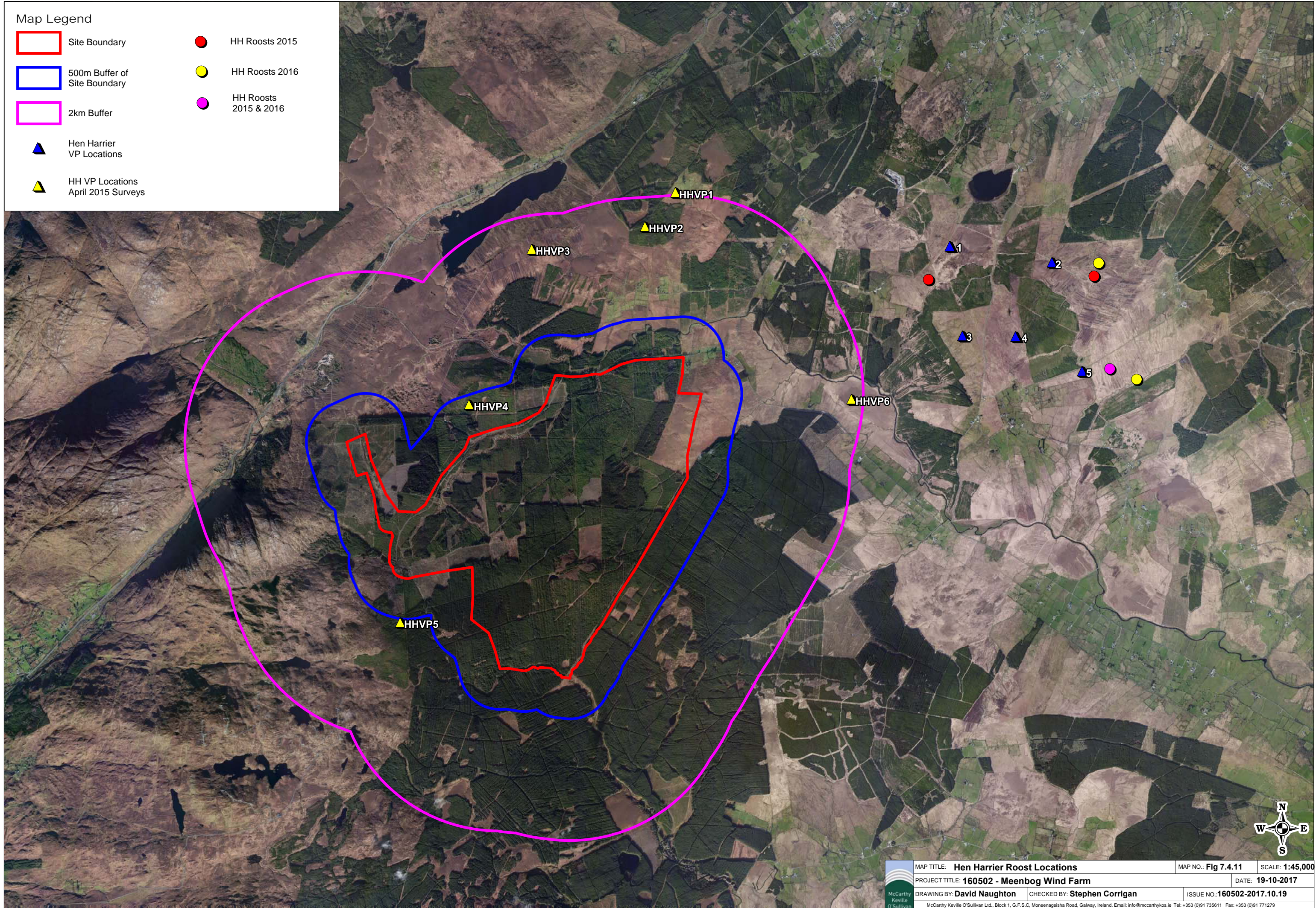
Map Legend

- Site Boundary
- 5km Boundary
- Hen Harrier Flights

MAP TITLE: Breeding Raptor Survey - Hen Harrier Flights	MAP NO.: Fig. 7.4.10	SCALE: 1:50,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Map Legend

- Site Boundary
- 500m Buffer of Site Boundary
- 2km Buffer
- HH Roosts 2015
- HH Roosts 2016
- HH Roosts 2015 & 2016
- ▲ Hen Harrier VP Locations
- ▲ HH VP Locations April 2015 Surveys







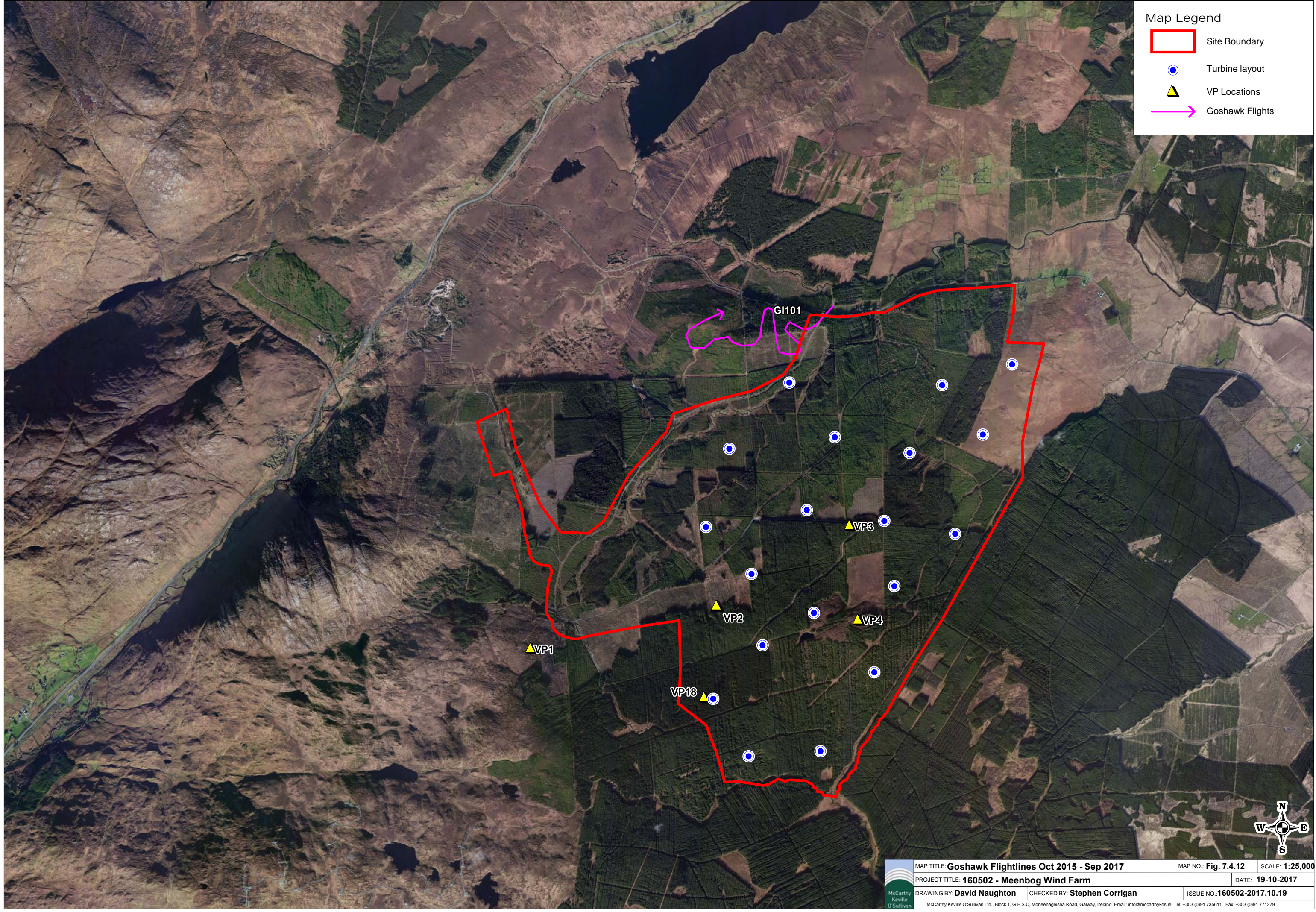
MAP TITLE: Hen Harrier Roost Locations	MAP NO.: Fig 7.4.11	SCALE: 1:45,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Table 6: Goshawk Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside/Outside Focus Area
GI101	21/03/2017	3	Non-breeding	1	Goshawk	1	15:45:00	130					WD4, (Conifer plantation) Travelling, hunting	Large, long wings and characteristic wing beat and glide	In
Goshawk Survey															
Map Reference No.	Date	VP	Season	Obs no.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	N/A
	27/03/2017		Non-Breeding											NO SIGHTINGS	
	30/03/2017		Non-Breeding											NO SIGHTINGS	

Map Legend

-  Site Boundary
-  Turbine layout
-  VP Locations
-  Goshawk Flights







	MAP TITLE: Goshawk Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.12	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton		CHECKED BY: Stephen Corrigan	
<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthycos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		ISSUE NO.: 160502-2017.10.19	

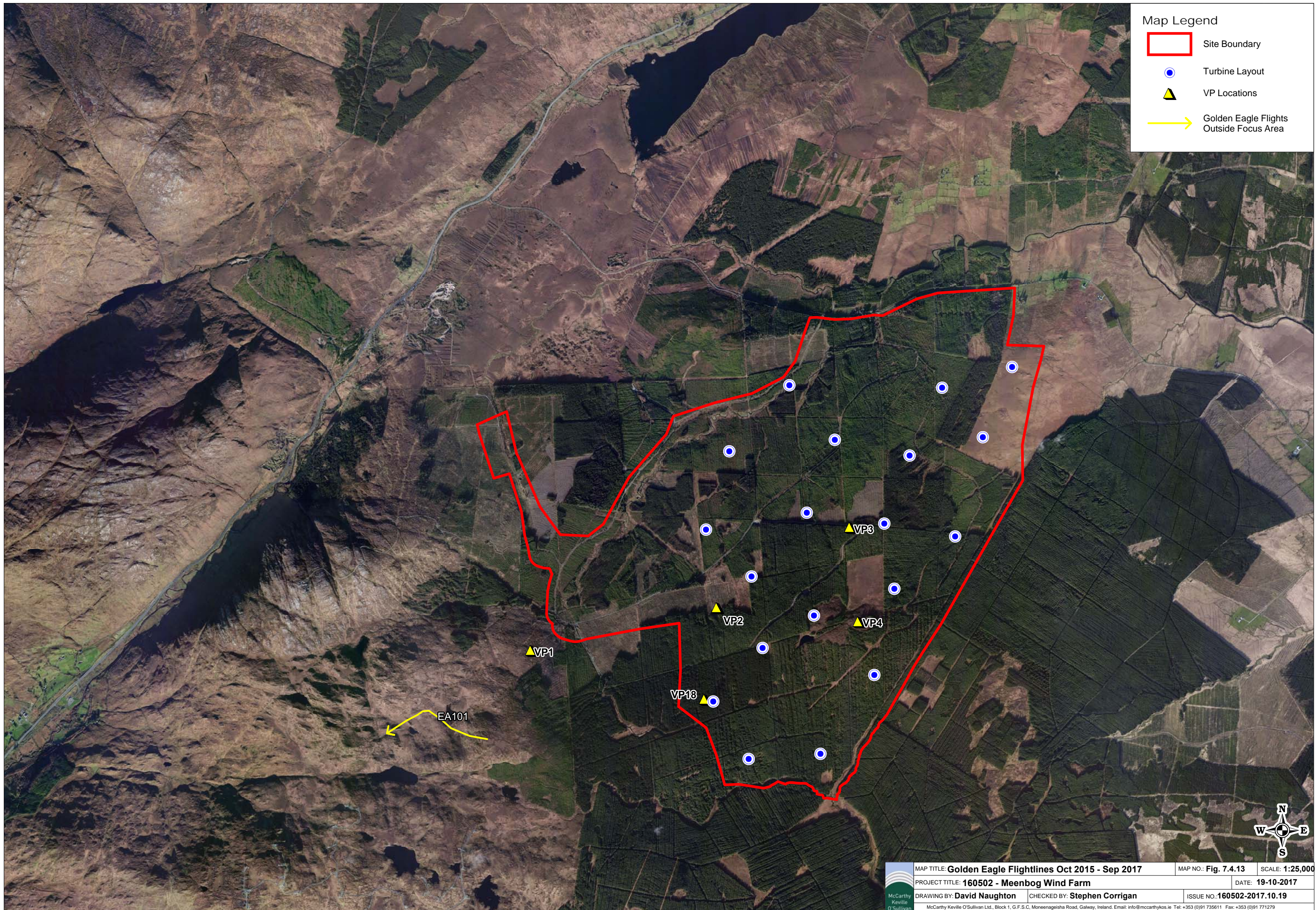
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Table 7: Golden Eagle Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Inside /Outside Focus Area
EA101	27/04/2016	1	Breeding	1	Golden Eagle	1	19:05:00	86	86				PB, (Bogs) 1 EA seen on top of the ridge behind the VP at 1-4m. It flew slowly whilst being mobbed by 3 HC before moving out of sight.		Out
Breeding Raptor Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of observation	N/A	N/A	GPS	X	Y	Habitat and Activity	Comments	N/A
EA001	14/06/2017		Breeding		Golden Eagle	1	14:38:00							Yellow tag on right wing	
EA002	04/07/2017		Breeding		Golden Eagle	1	15:46:00								
EA003	04/07/2017		Breeding		Golden Eagle	1	15:54:00								
Waterfowl Survey Data															
Season	Date	Location	N/A	Species	No. of Birds	N/A	Waterbird Activity	Feeding /Roosting	GPS	X	Y	Notes on habitat and activity	Comments	N/A	
Breeding	13/04/2016	Croghnameal		Golden Eagle	1							PERCHED ON BOG FLUSHED BY MY APPROACH			
Both Overlap	26/09/2017	Pettigo Plateau SPA		Golden Eagle	1				H	204757	376232	Watched for 100s at long distance could not determine age or any tags	Soaring in wind		

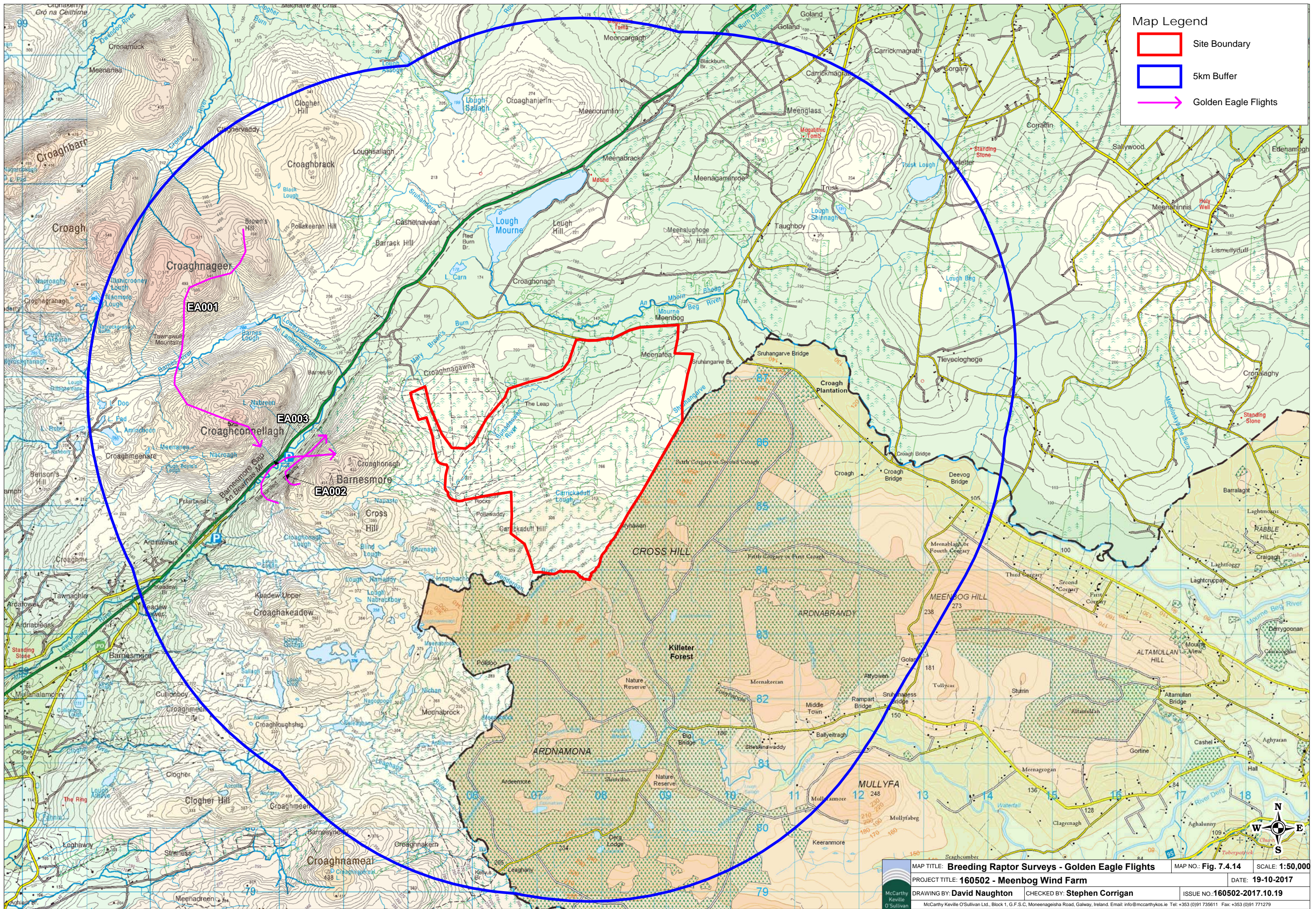
Map Legend

-  Site Boundary
-  Turbine Layout
-  VP Locations
-  Golden Eagle Flights Outside Focus Area



	MAP TITLE: Golden Eagle Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.13	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm		DATE: 19-10-2017
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
<small>McCarthy Keville O'Sullivan McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthycos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>			

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Map Legend





- Site Boundary
- 5km Buffer
- Golden Eagle Flights

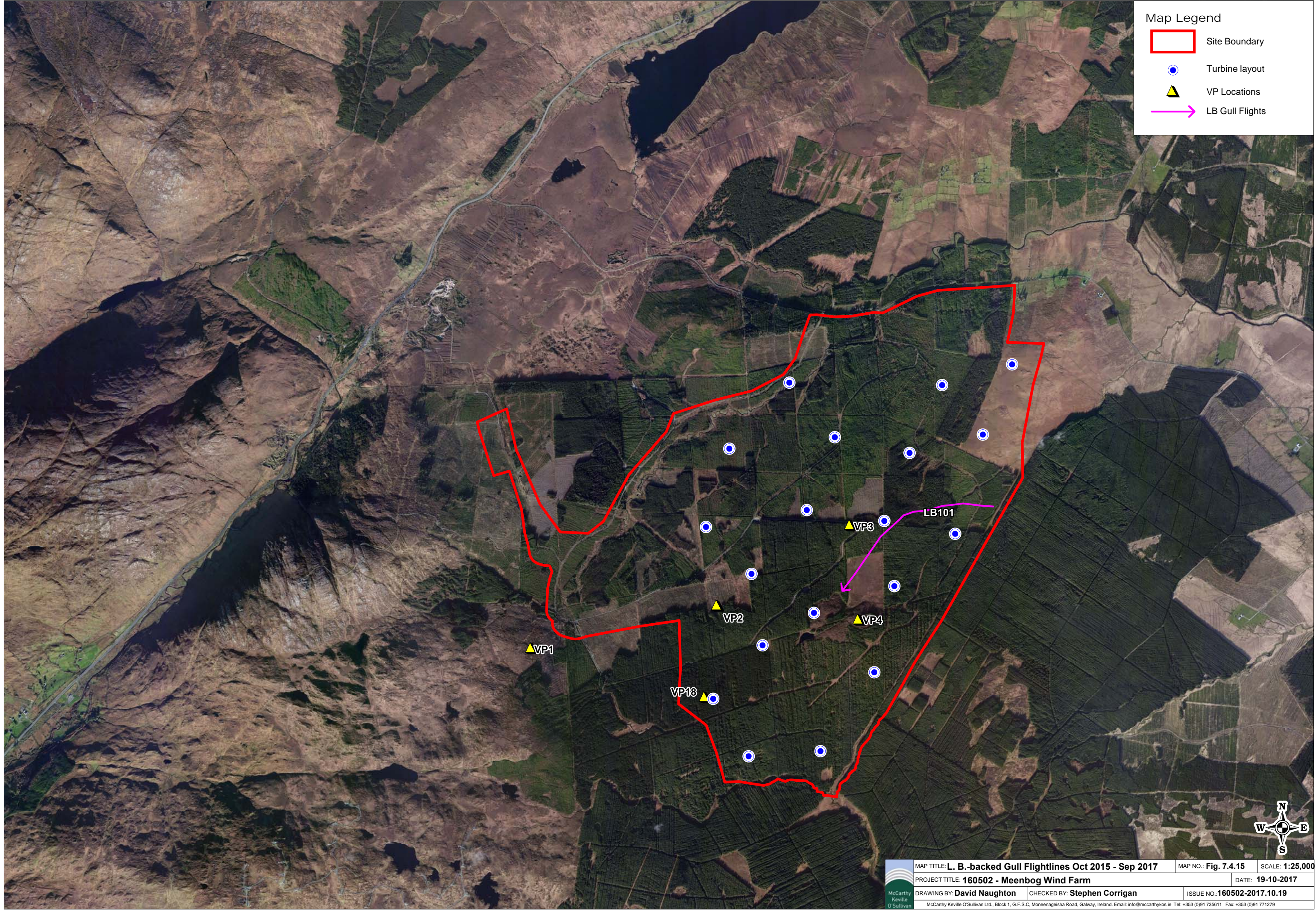
	MAP TITLE: Breeding Raptor Surveys - Golden Eagle Flights PROJECT TITLE: 160502 - Meenbog Wind Farm DRAWING BY: David Naughton CHECKED BY: Stephen Corrigan	MAP NO.: Fig. 7.4.14 SCALE: 1:50,000 DATE: 19-10-2017 ISSUE NO.: 160502-2017.10.19
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Table 8: Lesser Black-backed Gull Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Notes on habitat and activity	Comments	Inside /Outside Focus Area
LB101	06/06/2017	3	Breeding	2	Lesser Black-backed Gull	1	17:00:00	80			80		WD4, (Conifer plantation) Travelling over forestry	Adult	In
Waterfowl Survey Data															
Season	Date	Location	N/A	Species	No. of Birds	N/A	Waterbird Activity	Feeding/ Roosting	GPS	X	Y	Notes on habitat and activity	Comments	N/A	
Breeding	08/04/2017	Lough Eske		Lesser Black-backed Gull	1		Flying					Possible one of breeding pair			
Breeding	08/04/2017	Lough Eske		Lesser Black-backed Gull	2		Above Water					on islet / rock. Probably breeding			
Breeding	01/05/2017	Lough Eske		Lesser Black-backed Gull	4		Above Water								
Breeding	13/05/2017	Lough Eske		Lesser Black-backed Gull	1		Flying					flying over west shore area			
Breeding	13/05/2017	Lough Eske		Lesser Black-backed Gull	1		Above Water	Feeding/Roosting				on islet / rock			
Breeding	28/05/2017	Lough Eske		Lesser Black-backed Gull	1		Flying					west side			
Breeding	10/05/2016	Lough Slug		Lesser Black-backed Gull	10			FO							
Breeding	01/05/2017	Trusk Lough		Lesser Black-backed Gull	2		Above Water	Roosting				ON SHORE			
Breeding	28/05/2017	Trusk Lough		Lesser Black-backed Gull	1		Above Water	Roosting				ON SHORE			
Breeding	08/05/2016	Lough Derg		Lesser Black-backed Gull	11			A							
Breeding	19/05/2016	Lough Derg		Lesser Black-backed Gull	6			ON		207604	372712	4 flying over but one pair nesting on one of the v. small islands			
Breeding	24/05/2016	Lough Derg		Lesser Black-backed Gull	4			H				poss ON			

Map Legend

-  Site Boundary
-  Turbine layout
-  VP Locations
-  LB Gull Flights







	MAP TITLE: L. B.-backed Gull Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.15	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm		DATE: 19-10-2017
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
<small>McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthynos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>			

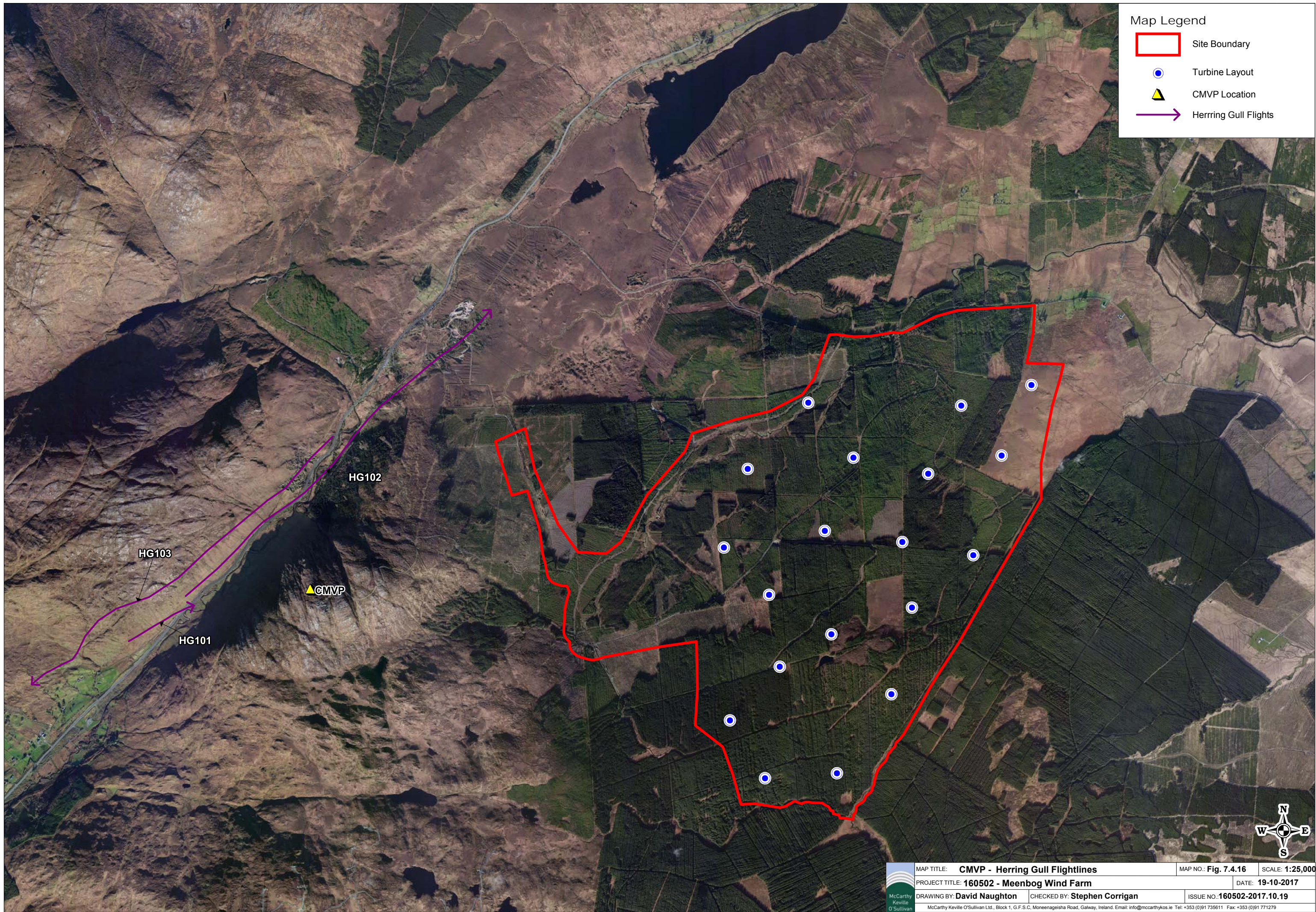
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Table 9: Herring Gull Survey Data

Commuting/Migratory Bird Vantage Point Survey of Barnesmore Gap															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside/Outside Focus Area
HG101	28/04/2017	CMVP	Breeding	2	Herring Gull	8	06:54:00	25				25	PB2, (Upland blanket bog) Travelling		Out
HG102	28/04/2017	CMVP	Breeding	3	Herring Gull	1	08:07:00	39				39	PB2, (Upland blanket bog) Travelling		Out
HG103	28/04/2017	CMVP	Breeding	4	Herring Gull	1	08:14:00	18				18	PB2, (Upland blanket bog) Travelling		Out
Waterfowl Survey Data															
Season	Date	Location	N/A	Species	No. of Birds	N/A	Waterbird Activity	Feeding /Roosting	GPS	X	Y	Notes on habitat and activity	Comments	N/A	
Non-breeding	14/03/2017	Lough Eske		Herring Gull	2		Terrestrial	Loafing	G	196570	383002	Loafing on stone jetty by hotel			

Map Legend

-  Site Boundary
-  Turbine Layout
-  CMVP Location
-  Herring Gull Flights



	MAP TITLE: CMVP - Herring Gull Flightlines	MAP NO.: Fig. 7.4.16	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
<small>McCarthy Keville O'Sullivan, Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mcCarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>			

Table 10: Red Grouse Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
RG101	21/10/2016	1	Non-breeding	2	Red Grouse	2	10:14:00	15	15				WD4, (Conifer plantation) PB2, (Upland blanket bog) Birds rose from heather		Out
Vantage Point Survey Incidentals															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	N/A
	14/10/2016	1	Non-breeding		Red Grouse	1							WD4, (Conifer plantation) PB4, (Cutover bog) Perched		
2041	18/02/2017	1	Non-breeding	1	Red Grouse	1	07:05:00	Calling					GA1, (Improved agricultural grassland)		
2042	18/02/2017	1	Non-breeding	2	Red Grouse	1	07:30:00	Calling					GA1, (Improved agricultural grassland)		
	21/03/2017	1			Red Grouse	2								NO OTHER INFO GIVEN	
Brown & Shepherd Walkovers															
Breeding Territory Map Reference	Date	Trans/Quad No.	Season	Obs No.	Species	No. of Birds	Time of observation	N/A	Sex/age	GPS	X	Y	Habitat and Activity	Comments	N/A
RG01	27/05/2016	-	Breeding	10	Red Grouse	1	15:37:00		Male	H	204407	384747	Flushed from NE slope of Cross Hill	Displaying	

Table 10: Red Grouse Survey Data

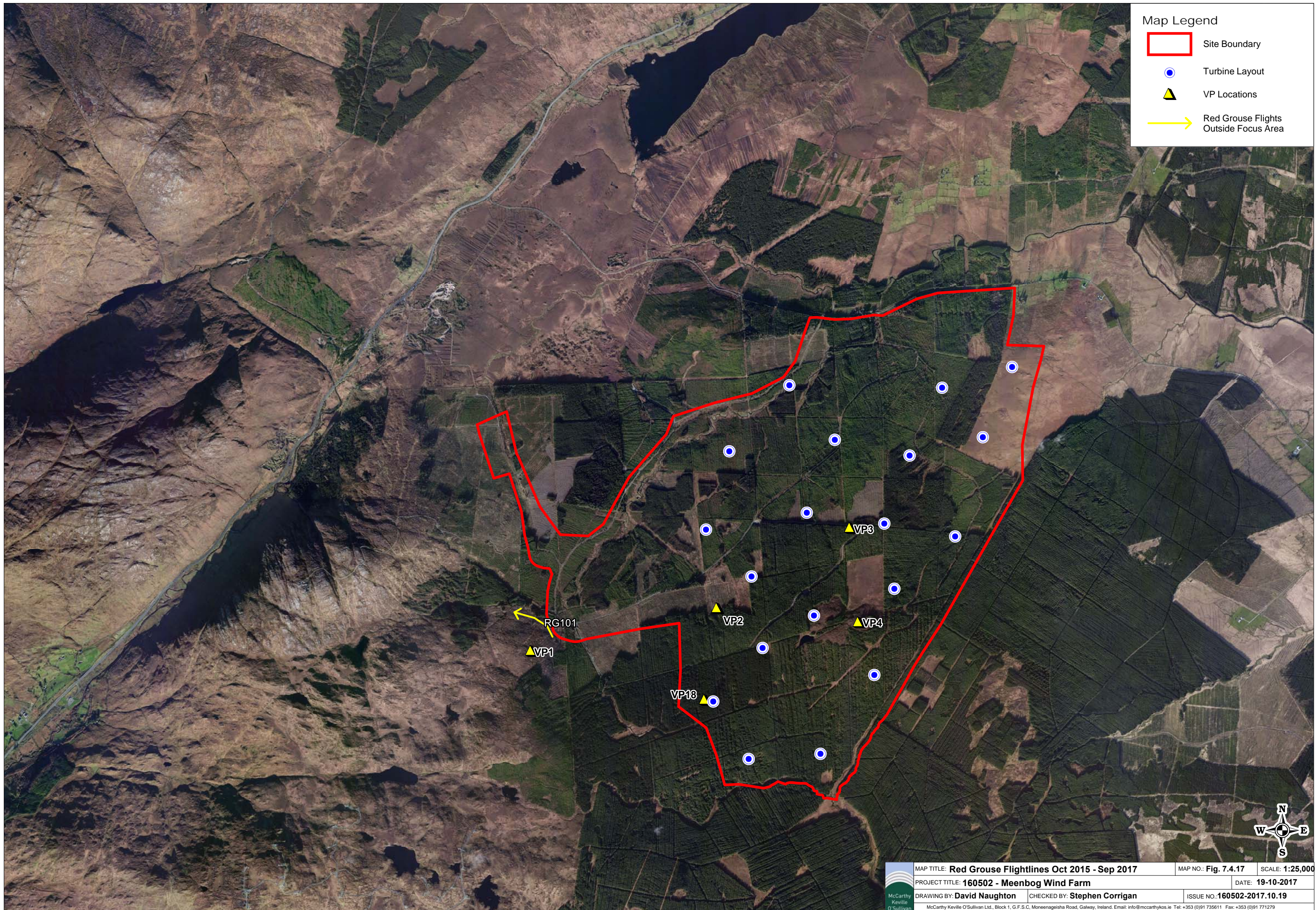
Red Grouse Survey															
Map Reference No.	Date	Transect No.	Season	Obs no.	Species Name	No. of Birds	Time of observation	N/A	N/A	N/A	N/A	N/A	Habitat and Activity	Comments	N/A
	16/03/2015		Non-breeding										NO sightings		
	17/03/2015		Non-breeding										NO sightings		
RG01	29/03/2016		Non-breeding	3	Red Grouse	1	14:44:00						Flushed on Approach before broadcast, one male calling	Flushed	
RG02	29/03/2016		Non-breeding	3	Red Grouse	1	14:44:00						Flushed on Approach before broadcast, Second silent bird	Flushed	
RG03	29/03/2016		Non-breeding	4	Red Grouse	1	14:50:00						Flushed on return from end of transect line, possible same bird as earlier. Male call while flying away.	Flushed	
	14/03/2017		Non-breeding										NO sightings		
	15/03/2017		Non-breeding										NO sightings		
Waterfowl Survey Data															
Season	Date	Location	N/A	Species	No. of Birds	N/A	Water bird Activity	Feeding /Roosting	GPS	X	Y	Habitat and Activity	Comments	N/A	
Breeding	07/04/2017	Meenabrock Lough		Red Grouse	1		Terrestrial					Put up walking; RG dropping piles			
Breeding	29/04/2017	Dunragh Lough		Red Grouse	1		Terrestrial					Red Grouse. Put up. Walking over Croaghadalough Hill			

Table 10: Red Grouse Survey Data

Waterfowl Survey Data														
Season	Date	Location	N/A	Species	No. of Birds	N/A	Water bird Activity	Feeding /Roosting	GPS	X	Y	Habitat and Activity	Comments	N/A
Breeding	09/04/2017	Lough Golagh (South)		Red Grouse	2		Flying					2 Red Grouse put up on breeding territories between Flughra Hill and Croaghadalough; frequent piles of droppings also indicative.		
Breeding	14/04/2016	Pettigo Plateau SPA		Red Grouse	2									

Map Legend





- Site Boundary
- Turbine Layout
- ▲ VP Locations
- Red Grouse Flights Outside Focus Area

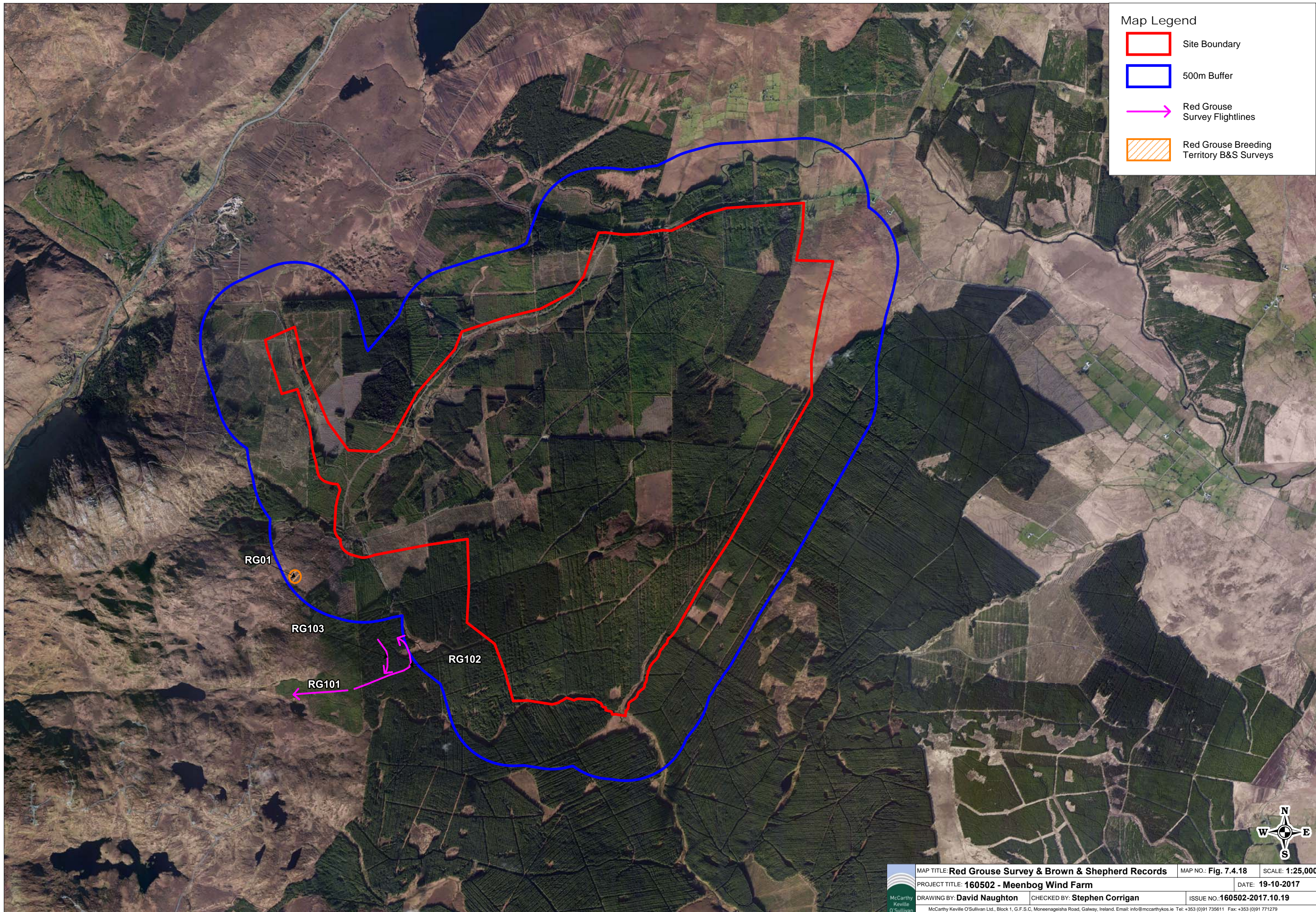


MAP TITLE: Red Grouse Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.17	SCALE: 1:25,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Map Legend

-  Site Boundary
-  500m Buffer
-  Red Grouse Survey Flightlines
-  Red Grouse Breeding Territory B&S Surveys



	MAP TITLE: Red Grouse Survey & Brown & Shepherd Records	MAP NO.: Fig. 7.4.18	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Table 11: Woodcock Survey Data

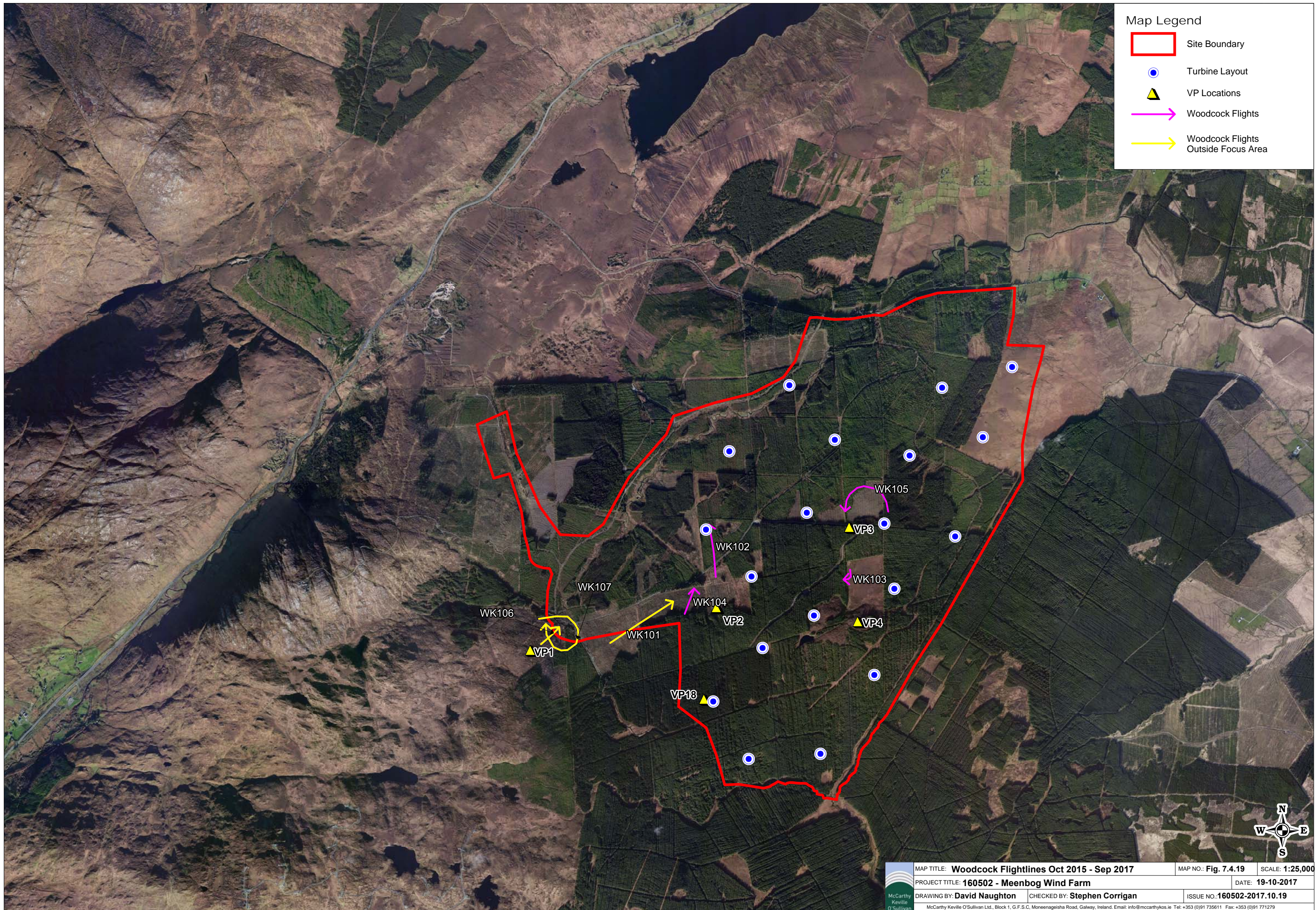
Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside/ Outside Focus Area
WK101	09/12/2015	2	Non-breeding	Red	Woodcock	1	08:20:00	5	5				flushed by passing vehicle		Out
WK102	09/12/2015	2	Non-breeding	Purple	Woodcock	1	13:44:00	5	5				flushed by passing vehicle		In
WK103	20/06/2016	4	Breeding	1	Woodcock	1	08:33:00	16	9	7			WD4, (Conifer plantation) WS5, (Recently-felled woodland) Flushed from vegetation when walking along edge of plantation		In
WK104	18/01/2017	2	Non-breeding	1	Woodcock	1	08:06:00	5	5				WD4, (Conifer plantation) Observed on return flight at dawn		In
WK105	13/04/2017	3	Breeding	1	Woodcock	1	06:00:00	5	5				WD4, (Conifer plantation) Roding	Calling male	In
WK106	13/04/2017	1	Breeding	1	Woodcock	1	05:35:00	4	4				PB2, (Upland blanket bog) flushed out		Out
WK107	08/05/2017	1	Breeding	1	Woodcock	1	21:50:00	600					Mixed broadleaved/conifer woodland WD4, (Conifer plantation) PB2, (Upland blanket bog) Roding , calling	Male	Out
Woodcock Survey															
Map Reference No.	Date	Transect	Season	Obs no.	Species	No. of Birds	Time of observation	N/A	N/A	N/A	N/A	N/A	Habitat and Activity	Comments	Inside/ Outside Focus Area
WK01	27/05/2016		Breeding	1	Woodcock	1	21:10:00						WD4, (Conifer plantation)	Roding and calling over mature woodland around vp18	In

Table 11: Woodcock Survey Data

Incidental Observations														
Survey Type	Date	Location	N/A	Species	No. of Birds	N/A	N/A	N/A	GPS	X	Y	Notes	N/A	N/A
Vantage Point Survey	26/01/2017	Forest roadway near VP 1		Woodcock	1							Woodcock on forest roadway near vp 1, perched on roadway flushed by vehicle		
Vantage Point Survey	26/01/2017	Forest roadway near VP 1		Woodcock	1							Woodcock. Perched on roadway, flushed by vehicle		
Vantage Point Survey	01/02/2017	Forest roadway near VP 18		Woodcock	1							Woodcock resting on road, flushed by vehicle		
Vantage Point Survey	17/02/2017	Forest track near VP3		Woodcock	2							Woodcock flushed by vehicle 06:30		
Vantage Point Survey	18/02/2017	Forest track near VP1		Woodcock	1							Woodcock flushed by vehicle		
Vantage Point Survey	18/02/2017	Forest track near VP1		Woodcock	1							Woodcock flushed by vehicle		




Map Legend

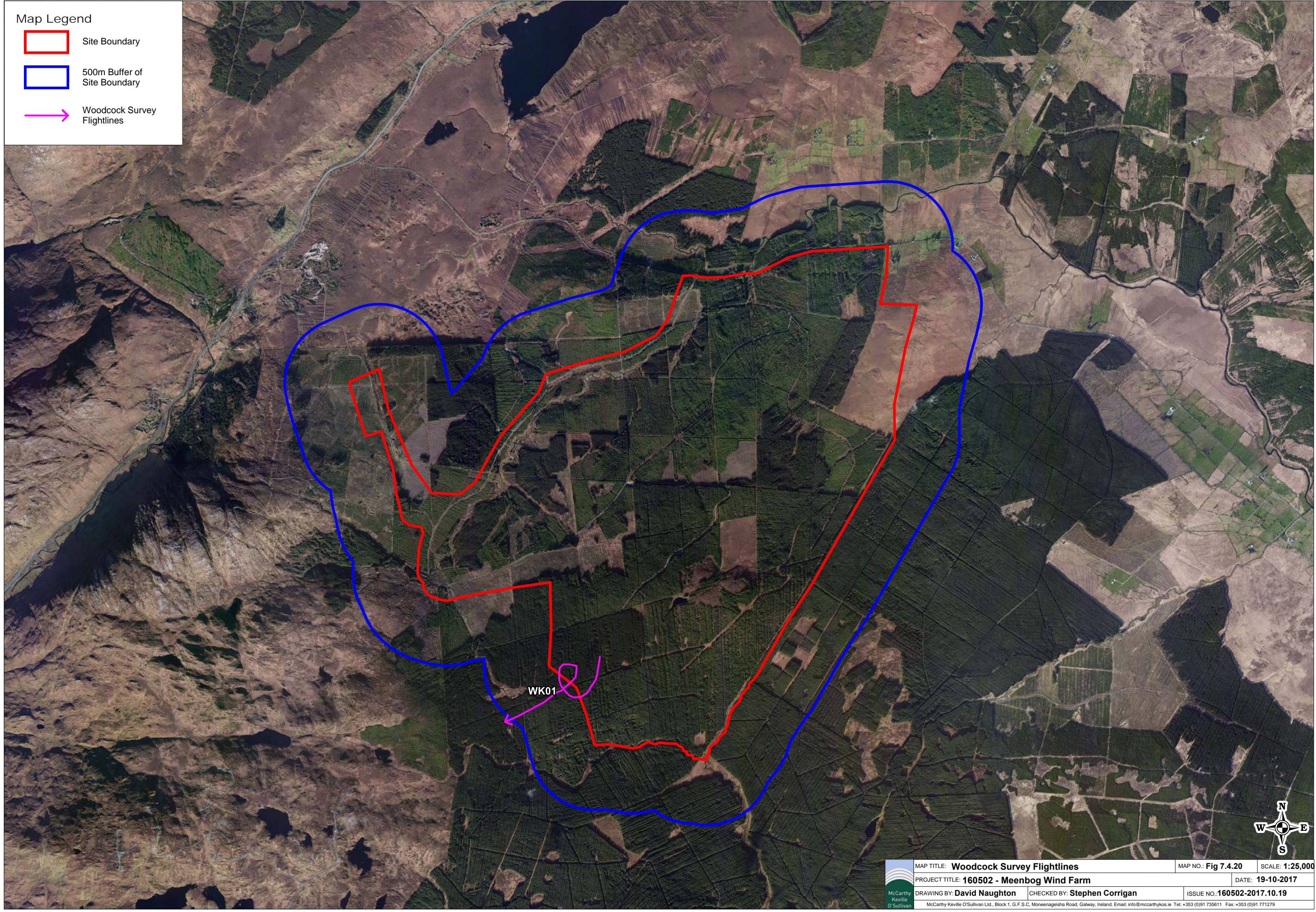
- Site Boundary
- Turbine Layout
- ▲ VP Locations
- Woodcock Flights
- Woodcock Flights Outside Focus Area



	MAP TITLE: Woodcock Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.19	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Map Legend

-  Site Boundary
-  500m Buffer of Site Boundary
-  Woodcock Survey Flightlines







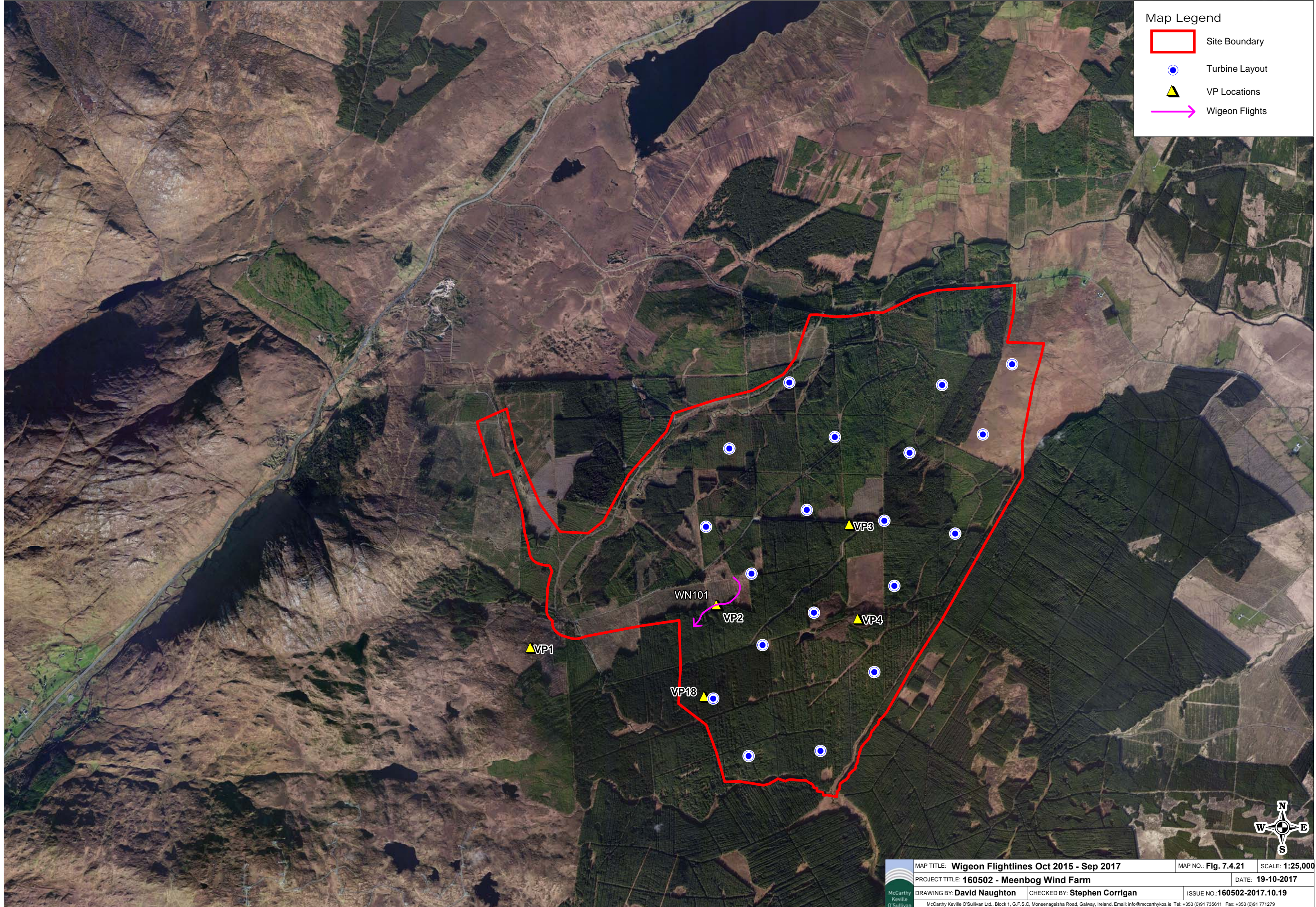
	MAP TITLE: Woodcock Survey Flightlines	MAP NO.: Fig 7.4.20	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm		DATE: 19-10-2017
	DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Table 12: Wigeon Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
WN101	21/02/2017	2	Non-breeding	1	Wigeon	2	06:50:00	20	5	15			WS5, (Recently-felled woodland) WD4, (Conifer plantation) Travelling	Pair flying over trees and settling in pool within forestry	In
Waterfowl Survey Data															
Season	Date	Location	N/A	Species	No. of Birds	N/A	Waterbird Activity	Feeding /Roosting	GPS	X	Y	Habitat and Activity	Comments	N/A	
Non-breeding	08/10/2016	Lough Mourne		Wigeon	1				H	206440	389165	Loafing on open water in SW area of L. Mourne			
Non-breeding	08/10/2016	Lough Mourne		Wigeon	1				H	206614	389336	Loafing in open water adjacent to SP			
Both-Overlap	23/09/2016	Trusk Lough		Wigeon	1				H	213297	390097	Roosting with Mallard flock			

Map Legend

-  Site Boundary
-  Turbine Layout
-  VP Locations
-  Wigeon Flights



MAP TITLE: Wigeon Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.21	SCALE: 1:25,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
<small>McCarthy Keville O'Sullivan McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthynos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		

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Table 13: Buzzard Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
BZ101	15/08/2015	1	Breeding		Buzzard	1	18:06:00	6			6		Flew from Perch		
BZ102	16/08/2015	3	Breeding		Buzzard	1	09:37:00	300			300		Calling from Perch	No Flight	
BZ103	16/08/2015	3	Breeding		Buzzard	1	11:28:00	5			5		Diving Flight		
BZ104	16/08/2015	3	Breeding		Buzzard	1	14:04:00	300			300		Circling overhead.		
BZ105	18/08/2015	4	Breeding		Buzzard	2	14:41:00	540			540		Dive bombing each other		
BZ106	18/08/2015	4	Breeding		Buzzard	1	15:39:00	20			20		Flew from Perch		
BZ107	16/09/2015	1	Breeding		Buzzard	1	14:23:00	180			180		Hunting over young forestry close to met tower		
BZ108	24/04/2016	2	Breeding	1	Buzzard	1	16:23:00	6	6				WD4, (Conifer plantation) Perched on a tree from 15:21, it took off and landed on another tree after flying at 2-5m		
BZ109	24/04/2016	2	Breeding	2	Buzzard	1	17:57:00	106			106		WD4, (Conifer plantation) 1 BZ soared into the wind at 120m while hunting over the secondary plantation to the W of the VP. It circled and moved behind nearby trees.		Out
BZ110	24/04/2016	2	Breeding	1	Buzzard	1	19:13:00	101			101		WD4, (Conifer plantation) 1 BZ soared into wind at 50-80m before dropping behind trees		
BZ111	24/04/2016	2	Breeding	2	Buzzard	1	19:32:00	5		5			WD4, (Conifer plantation) 1 BZ flew into sight at 20m and landed on a dead conifer		Out
BZ112	24/04/2016	2	Breeding	4	Buzzard	1	20:08:00	88			88		WD4, (Conifer plantation) 1 BZ soared into wind at 30-40m before moving S in front of a shower		

Table 13: Buzzard Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
BZ113	27/04/2016	1	Breeding	1	Buzzard	1	18:12:00	410		34	376		WD4, (Conifer plantation) 1 BZ soared over dense and open forestry at 50-90m while hunting. It dipped down to 15-20m before landing on a tree of similar height.		
BZ114	23/05/2016	18	Breeding	2	Buzzard	1	15:17:00	65			65				
BZ115	24/05/2016	18	Breeding	3	Buzzard	1	09:15:00	26			26				
BZ116	31/05/2016	4	Breeding	1	Buzzard	1	16:49:00	103			103		HH, (Heath) WD4, (Conifer plantation) Flying over open heath at a constant height NE until out of sight		
BZ117	31/05/2016	4	Breeding	3	Buzzard	1	22:12:00	91	28	28	35		HH, (Heath) WD4, (Conifer plantation) Flying east over heath and perching on plantation edge next to clearfell		
BZ118	18/06/2016	1	Breeding	2	Buzzard	1	15:45:00	238	5	183	50		WD4, (Conifer plantation) 1 BZ soaring over forestry between 15 and 130m. It climbed up to 130 briefly near the end before dropping quickly behind trees to locate potential prey		
BZ119	18/06/2016	1	Breeding	1	Buzzard	1	17:26:00	8	8				WD4, (Conifer plantation) 1 BZ seen flying NE along river at 5m, turning right after 8 seconds into a gap in the forestry		Out

Table 13: Buzzard Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
BZ120	20/06/2016	4	Breeding	4	Buzzard	1	13:40:00	72		47	25		WD4, (Conifer plantation) WS5, (Recently-felled woodland) Perched at the edge of clearfell before taking flight across site. Approx. 25 seconds in band 3 before descending over forest.		
BZ121	21/06/2016	18	Breeding	2	Buzzard	1	12:15:00	19			19		WD4, (Conifer plantation) Circling over forestry to the south, out of sight possibly taking perch.		
BZ122	03/07/2016	2	Breeding	1	Buzzard	1	13:52:00	113		113			WD4, (Conifer plantation) 1 BZ circled over secondary rotation to the east of VP and moved S over forestry block		
BZ123	04/07/2016	4	Breeding	1	Buzzard	1	16:05:00	55		4	51		WD4, (Conifer plantation) Circling forestry to the east before descending below the tree line.		
BZ124	04/07/2016	4	Breeding	2	Buzzard	1	18:50:00	72			72		WS5, (Recently-felled woodland) Flying west over clearfell for approximately 72 seconds		
BZ125	25/07/2016	18	Breeding	2	Buzzard	1	17:01:00	33		15	18		WD4, (Conifer plantation) Flying in band 3 for approx. 12 seconds, losing sight behind forestry		
BZ126	25/07/2016	18	Breeding	3	Buzzard	1	17:58:00	66			66		WS5, (Recently-felled woodland) Circling before flying eastward over clearfell in band 3		

Table 13: Buzzard Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
BZ127	25/07/2016	18	Breeding	4	Buzzard	1	19:41:00	30		30			WD4, (Conifer plantation) Gradually descending south eastward over plantation until out of sight		
BZ128	11/08/2016	4	Breeding	1	Buzzard	1	10:41:00	40			40		WD4, (Conifer plantation) Flying northeast in Band 3 for approx. 40 seconds over clearfell before flying over forestry offsite.		
BZ129	17/09/2016	2	Non-breeding	1	Buzzard	1	14:14:00	16	16				1 BZ flew SE over forestry at 10m, seen only briefly between trees whilst flying up slope		
BZ130	06/06/2017	3	Breeding	1	Buzzard	1	12:55:00	140	40	50	50		WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Hunting		
BZ131	06/06/2017	3	Breeding	3	Buzzard	1	17:15:00	200		100	100		WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Hunting, Soaring		
BZ132	27/06/2017	4	Breeding	1	Buzzard	1	17:10:00	120	20	100			WD4, (Conifer plantation) WS5, (Recently-felled woodland) Hunting, Soaring		
BZ133	30/06/2017	1	Breeding	1	Buzzard	1	12:40:00	100			100		WD4, (Conifer plantation) WS5, (Recently-felled woodland) Soaring over trees		
BZ134	30/06/2017	1	Breeding	3	Buzzard	1	14:10:00	70		50	20		WD4, (Conifer plantation) WS5, (Recently-felled woodland) Hunting, Soaring		
BZ135	30/06/2017	1	Breeding	4	Buzzard	1	14:11:00	120		90	30		WD4, (Conifer plantation) WS5, (Recently-felled woodland) Soaring over trees		

Table 13: Buzzard Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
BZ136	30/06/2017	1	Breeding	5	Buzzard	1	14:16:00	840	100	100	540	100	WD4, (Conifer plantation) WS5, (Recently-felled woodland) Soaring over trees		
BZ137	20/07/2017	2	Breeding	1	Buzzard	1	10:10:00	5	5				WD4, (Conifer plantation) Flying low between trees		
BZ138	24/07/2017	18	Breeding	1	Buzzard	1	13:02:00	20	20				WS5, (Recently-felled woodland) WD4, (Conifer plantation) Hunting low		
BZ139	27/08/2017	3	Breeding	1	Buzzard	1	07:48:00	69			69		(Mixed) Conifer woodland Flew East		
BZ140	06/09/2017	2	Breeding	1	Buzzard	1	14:20:00	360	360				Mixed broadleaved/conifer woodland Eating frog, hunting flying tree to tree		
BBS Walkover															
Map ref No.	Date	Trans/Quad No.	Season	Obs no.	Species	No. of birds	Time Spotted	N/A	N/A	GPS	X	Y	Habitat & Activity	Comments	N/A
	20/07/2015				Buzzard	1	15:23:00						hunting over clearfell close to river at H 211225 387961	Outside Site	
	16/08/2015				Buzzard	1	18:45:00			H	208755	386381	Flew from ground after being spooked by me. Flew off over thick forestry		
	15/08/2015				Buzzard	1	16:40:00						pch in forestry	Unsure of Location	
Brown & Shepherd Walkovers															
Breeding Territory Map Reference	Date	Trans/Quad No.	Season	Obs No.	Species	No. of Birds	Time of observation	N/A	Sex/age	GPS	X	Y	Habitat and Activity	Comments	N/A
	05/07/2016		Breeding	1	Buzzard	1	10:07:00			H	210652	387706			

Table 13: Buzzard Survey Data

Brown & Shepherd Walkovers															
Breeding Territory Map Reference	Date	Trans/Quad No.	Season	Obs No.	Species	No. of Birds	Time of observation	N/A	Sex/age	GPS	X	Y	Habitat and Activity	Comments	N/A
	27/04/2017		Breeding		Buzzard	1	10:51:00						WD4, (Conifer plantation) soaring		
	28/04/2017		Breeding		Buzzard	2	15:33:00						GA1, (Improved agricultural grassland) soaring		
	18/05/2017		Breeding		Buzzard	1	15:32:00								
	20/06/2017		Breeding		Buzzard	1	14:30:00								
	12/07/2017		Breeding		Buzzard	1	14:20:00								
	17/07/2017		Breeding		Buzzard	1	13:30:00								
	17/07/2017		Breeding		Buzzard	1	13:50:00								
Breeding Raptor Surveys															
Map Reference No.	Date	VP	Season	Obs no.	Species	No. of Birds	Time of observation	N/A	N/A	GPS	X	Y	Habitat and Activity	Comments	N/A
BZ001	25/04/2016	3	Breeding	28	Buzzard	1	12:13:00			H	204705	386422	Soaring over upper slope of secondary rotation at 60m		
BZ002	25/04/2016	3	Breeding	29	Buzzard	2	12:38:00			H	204827	386188	Pair soaring over forestry at 30-80m		
BZ003	25/04/2016	3	Breeding	31	Buzzard	1	16:28:00			H	210986	386504	Flew SE along secondary rotation at 30m		
BZ004	20/06/2016	-	Breeding	6	Buzzard	1	10:56:00			H	211169	386306	Flew up from edge of secondary rotation, landing on a dead tree for 1 minute. It then circled off to the E at 10-15m		

Table 13: Buzzard Survey Data

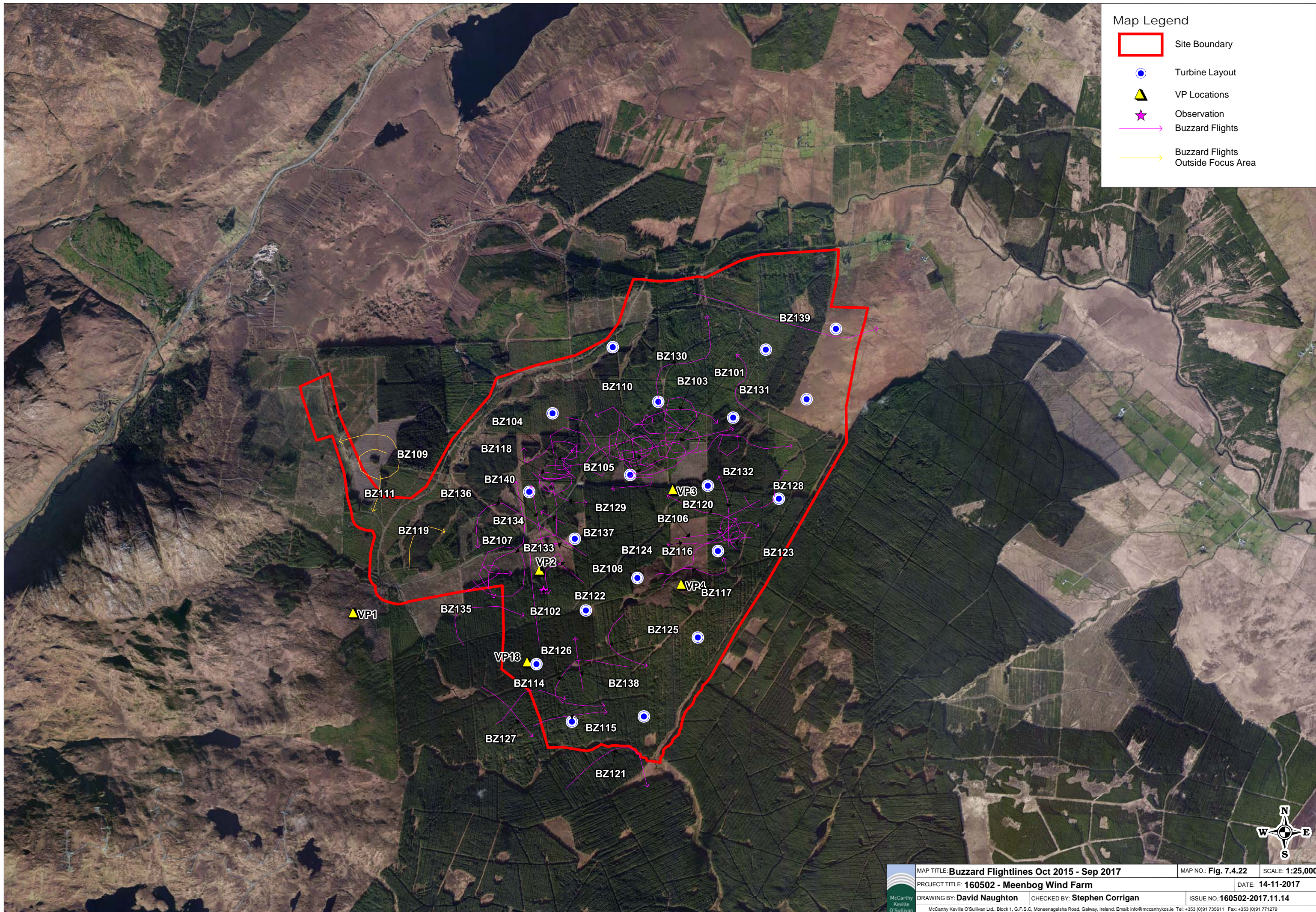
Breeding Raptor Surveys															
Map Reference No.	Date	VP	Season	Obs no.	Species	No. of Birds	Time of observation	N/A	N/A	GPS	X	Y	Habitat and Activity	Comments	N/A
BZ005	12/07/2016	40	Breeding	3	Buzzard	1	09:20:00			H	213080	388940	Flew W over road at 10m		
BZ006	06/04/2017	1	Breeding		Buzzard	1	11:36:00						ON EDGE OF 5KM BUFFER	Flying over; Non-breeding	
BZ007	23/04/2017	1	Breeding		Buzzard	1	11:53:00						NORTH OF 2KM BUFFER ON EDGE OF 5KM BUFFER	Flying over; Non-breeding	
BZ008	04/05/2017	2	Breeding		Buzzard	1	15:45:00							Flying over; Non-breeding	
BZ009	05/05/2017	2	Breeding		Buzzard	1	12:43:00						Just East of 2km Buffer	Flying over; Non-breeding	
BZ010	05/05/2017	2	Breeding		Buzzard	1	16:23:00							Flying over; Non-breeding	
BZ011	10/05/2017	2	Breeding		Buzzard		15:42:00							Flying over; Non-breeding	
BZ012	02/07/2017		Breeding		Buzzard	1	15:42:00								
BZ013	03/07/2017		Breeding		Buzzard	1	13:10:00								
Incidental Observations															
Survey Type	Date	Location	N/A	Species	No. of Birds	N/A	N/A	N/A	GPS	X	Y	Notes	N/A	N/A	
Hen Harrier Roost Survey	20/04/2015	HHVP1		Buzzard	1							HUNTING OVER CONIFERS			
Hen Harrier Roost Survey	20/04/2015	HHVP2		Buzzard	1							HUNTING OVER CONIFERS			
Hen Harrier Roost Survey	21/04/2015	HHVP5		Buzzard	1							SOARING			

Table 13: Buzzard Survey Data

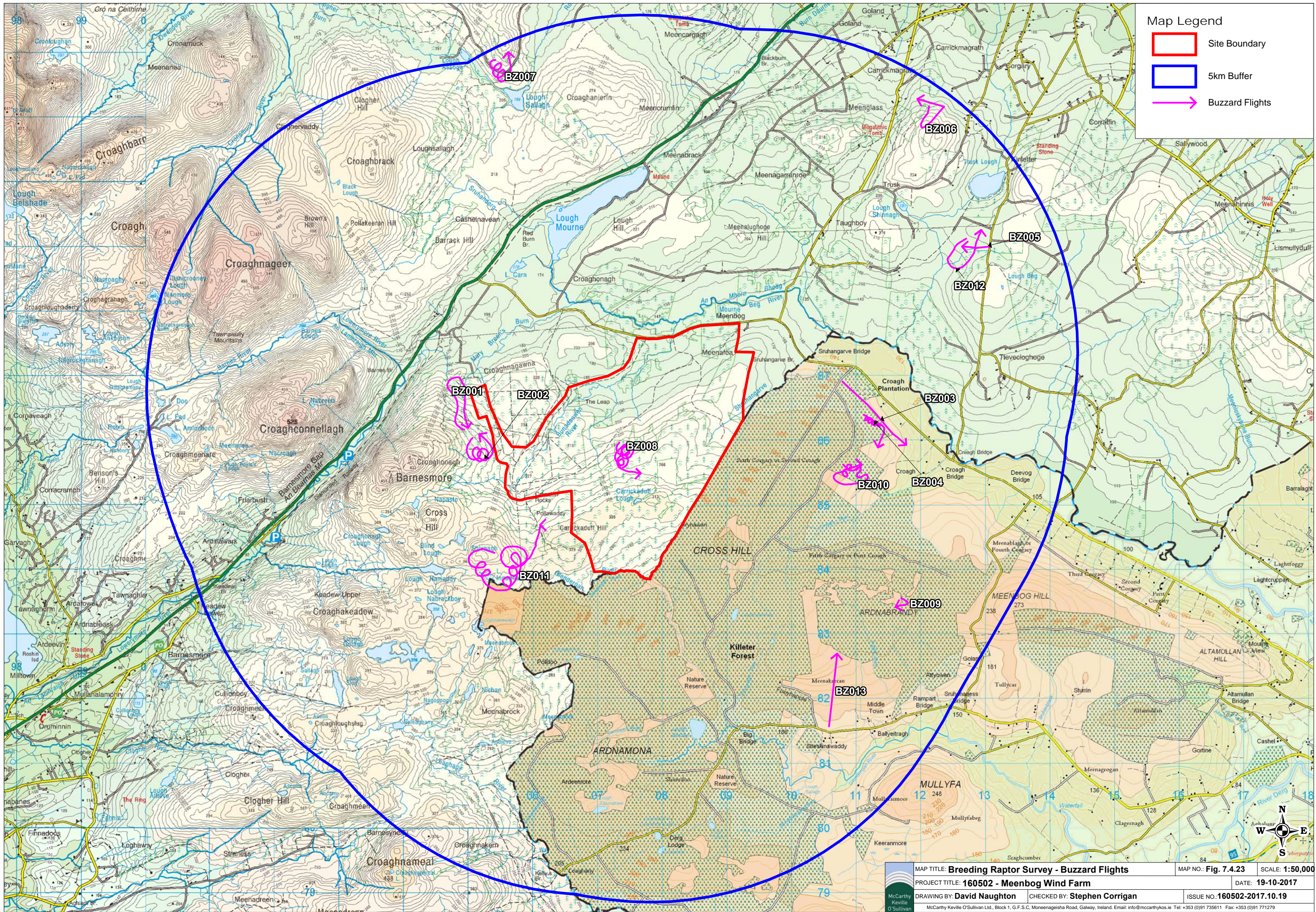
Incidental Observations														
Hen Harrier Roost Survey	21/04/2015	HHVP5		Buzzard	1							SOARING		
Hen Harrier Roost Survey	21/04/2015	HHVP5		Buzzard	1							HUNTING OVER CONIFERS		
Hen Harrier Roost Survey	23/04/2015	HHVP6		Buzzard	1							SOARING		
Hen Harrier Roost Survey	23/04/2015	HHVP6		Buzzard	2							SOARING		
Vantage Point Survey	20/06/2016	VP4		Buzzard				H	206400	386100		Over coniferous forest		
Woodcock Survey	22/06/2016	See GPS ref.		Buzzard				H	207757	387416		Perched at site entrance		
Red-Throated Diver Survey	27/06/2016	RHVP1		Buzzard				H	206100	385400		Flying Southward		
Vantage Point Survey	18/08/2016	VP19		Buzzard				H	207100	387000		In flight on route to VP		
Goshawk Survey	30/03/2017	Survey 3		Buzzard	2							Both displaying overhead VP		
Vantage Point Survey	30/05/2017	VP1		Buzzard	1							In flight over entrance at 11:15		

Map Legend

- Site Boundary
- Turbine Layout
- ▲ VP Locations
- ★ Observation
- Buzzard Flights
- Buzzard Flights Outside Focus Area



MAP TITLE: Buzzard Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.22	SCALE: 1:25,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 14-11-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.11.14
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Map Legend

- Site Boundary
- 5km Buffer
- ↗ Buzzard Flights

MAP TITLE: Breeding Raptor Survey - Buzzard Flights	MAP NO.: Fig. 7.4.23	SCALE: 1:50,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Table 14: Sparrowhawk Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
SH101	24/04/2016	2	Breeding	3	Sparrowhawk	1	20:04:00	15		15			WD4, (Conifer plantation) 1 SH flew at 15m over secondary rotation area.		
SH102	31/05/2016	4	Breeding	2	Sparrowhawk	1	18:18:00	23	12	11			(WL2), Treelines Flying along woodland edge south before going out of sight		
SH103	18/06/2016	1	Breeding	1	Sparrowhawk	1	14:27:00	17	17				PB2, (Upland blanket bog) 1 SH flew past VP heading down slope at 5-15m, banking left into forestry		Out
SH104	21/06/2016	18	Breeding	3	Sparrowhawk	1	12:31:00	22	12	10			WD4, (Conifer plantation) WS5, (Recently-felled woodland) Male in flight observed hunting after a pipit. Lost sight behind trees. East of vp over clearfell.		
SH105	11/08/2016	4	Breeding	2	Sparrowhawk	1	11:37:00	21	21				WS5, (Recently-felled woodland) Flying low over clearfell along track possibly hunting		
SH106	11/08/2016	4	Breeding	3	Sparrowhawk	1	12:13:00	47	31	16			WS5, (Recently-felled woodland) HH, (Heath) Flying south over clearfell/heath before taking perch in plantation east of vp		
SH107	18/08/2016	18	Breeding	2	Sparrowhawk	1	12:01:00	16		16			WD4, (Conifer plantation) Hunting along forest inspection track before losing sight		

Table 14: Sparrowhawk Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
SH108	15/11/2016	3	Non-breeding	1	Sparrowhawk	1	15:09:00	10	10				WD4, (Conifer plantation) WS5, (Recently-felled woodland) In flight and perched		
SH109	17/01/2017	18	Non-breeding	1	Sparrowhawk	1	12:45:00	7	7				WD4, (Conifer plantation) Travelling	Male	
SH110	17/01/2017	18	Non-breeding	2	Sparrowhawk	1	13:50:00	8	8				WD4, (Conifer plantation) Observed briefly in a hunting flight.	Male	
SH111	20/03/2017	2	Non-breeding	1	Sparrowhawk	1	13:40:00	15					WD4, (Conifer plantation) Hunting	male	
SH112	20/03/2017	2	Non-breeding	2	Sparrowhawk	1	17:50:00	25					WD4, (Conifer plantation)	female	
SH113	29/05/2017	2	Breeding	2	Sparrowhawk	1	18:41:00	20	10	10			WD4, (Conifer plantation) In flight	Observed in flight for a short time near site entrance	
SH114	27/07/2017	4	Breeding	1	Sparrowhawk	1	12:50:00	5	5				WS5, (Recently-felled woodland) WD4, (Conifer plantation) Flew from clearfell into forest	Female	
SH115	27/07/2017	4	Breeding	2	Sparrowhawk	1	13:50:00	120	20	100			WD4, (Conifer plantation) Flying over forestry hunting	Female	
SH116	27/08/2017	18	Breeding	1	Sparrowhawk	1	11:06:00	45		10	35		WD4, (Conifer plantation) WS5, (Recently-felled woodland) Male hunting over treetops and clearfell	Male	
SH117	15/09/2017	3	Breeding	1	Sparrowhawk	1	16:35:00	140	140				WD4, (Conifer plantation) Hunting low near road	Female	
SH118	15/09/2017	3	Breeding	2	Sparrowhawk	1	18:30:00	120	120				WD4, (Conifer plantation) Hunting low in front of VP between young forestry	Male	






Table 14: Sparrowhawk Survey Data

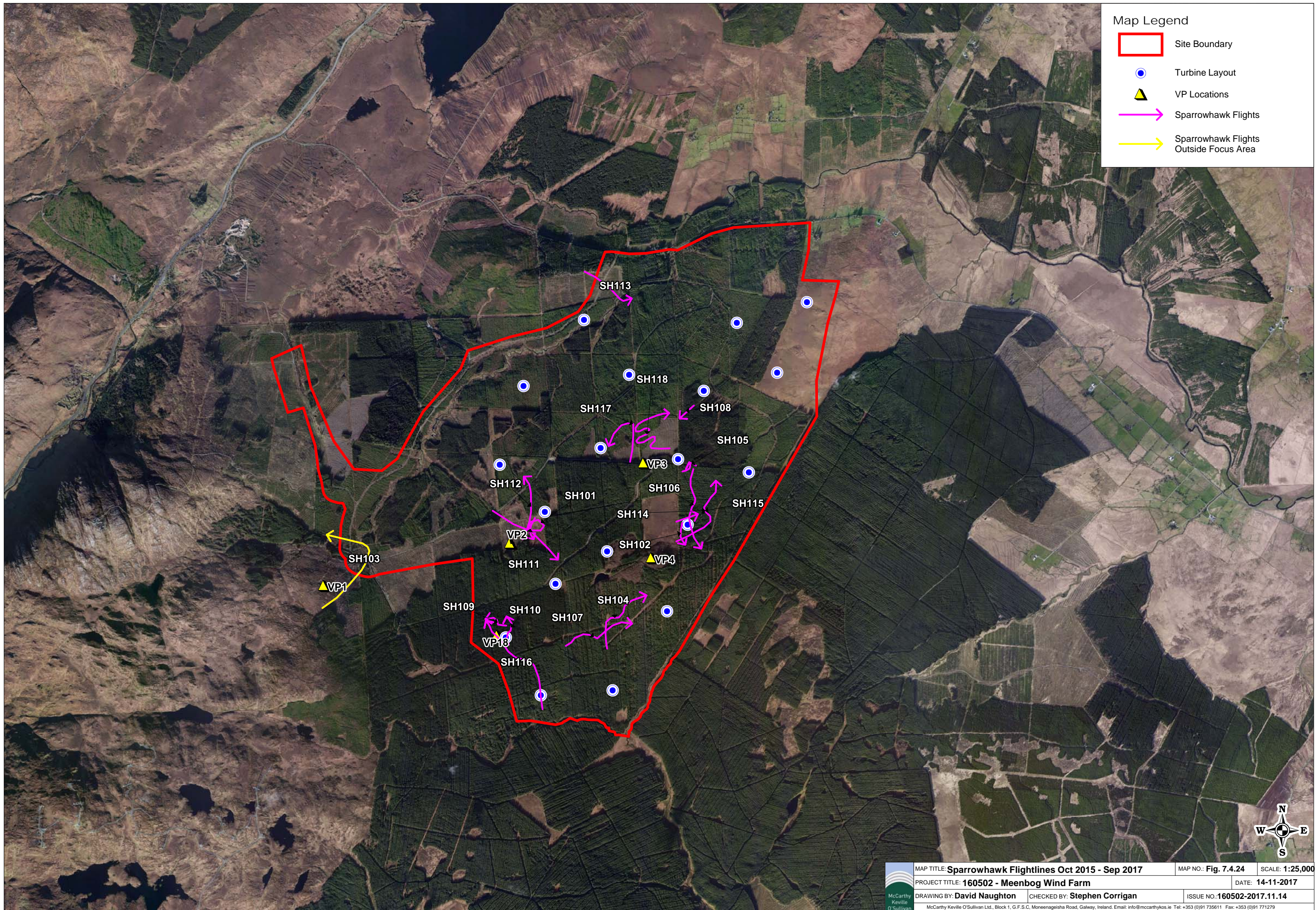
Brown & Shepherd Walkovers															
Breeding Territory Map Reference	Date	Transects/Quad No.	Season	Obs No.	Species	No. of Birds	Time of observation	N/A	Sex/age	GPS	X	Y	Habitat and Activity	Comments	N/A
	27/04/2017		Breeding		Sparrowhawk	1	15:08:00						GA1, (Improved agricultural grassland) soaring		
	28/04/2017		Breeding		Sparrowhawk	1	16:13:00		adult female				WD4, (Conifer plantation) flew into trees		
Breeding Raptor Surveys															
Map Reference No.	Date	VP	Season	Obs no.	Species Name	No. of Birds	Time of observation	N/A	Sex/age	GPS	X	Y	Habitat and Activity	Comments	N/A
SH001	11/04/2016	1	Breeding	4	Sparrowhawk	1	16:47:00			H	206563	388027	Flew over road		
SH002	18/04/2017	1	Breeding		Sparrowhawk	1	16:25:00							Flying over; Non-breeding	
SH003	23/04/2017	1	Breeding		Sparrowhawk	1	09:56:00							Flying over; Non-breeding	
SH004	04/05/2017	2	Breeding		Sparrowhawk	1	15:13:00							Flying over; Non-breeding	

Table 14: Sparrowhawk Survey Data

Waterfowl Survey Data														
Season	Date	Location	N/A	Species	No. of Birds	N/A	Waterbird Activity	Feeding /Roosting	GPS	X	Y	Habitat and Activity	Comments	N/A
Breeding	31/05/2017	Lough Derg		Sparrowhawk	3		Above Water					Fledged juveniles on wooded fringing of L. Derg South end		
Incidental Observations														
Survey Type	Date	Location	N/A	Species	No. of Birds	N/A	N/A	N/A	GPS	X	Y	Notes	N/A	N/A
Hen Harrier Roost Survey	21/04/2015	HHVP5		Sparrowhawk	2							SOARING		
Vantage Point Survey	24/05/2016	Track Near VP 18		Sparrowhawk								Crossing forestry track inside site boundary, outside of VP18		
Goshawk Survey	27/03/2017	Survey 2		Sparrowhawk	1							Male observed flying SE over Carrickaduff entrance		

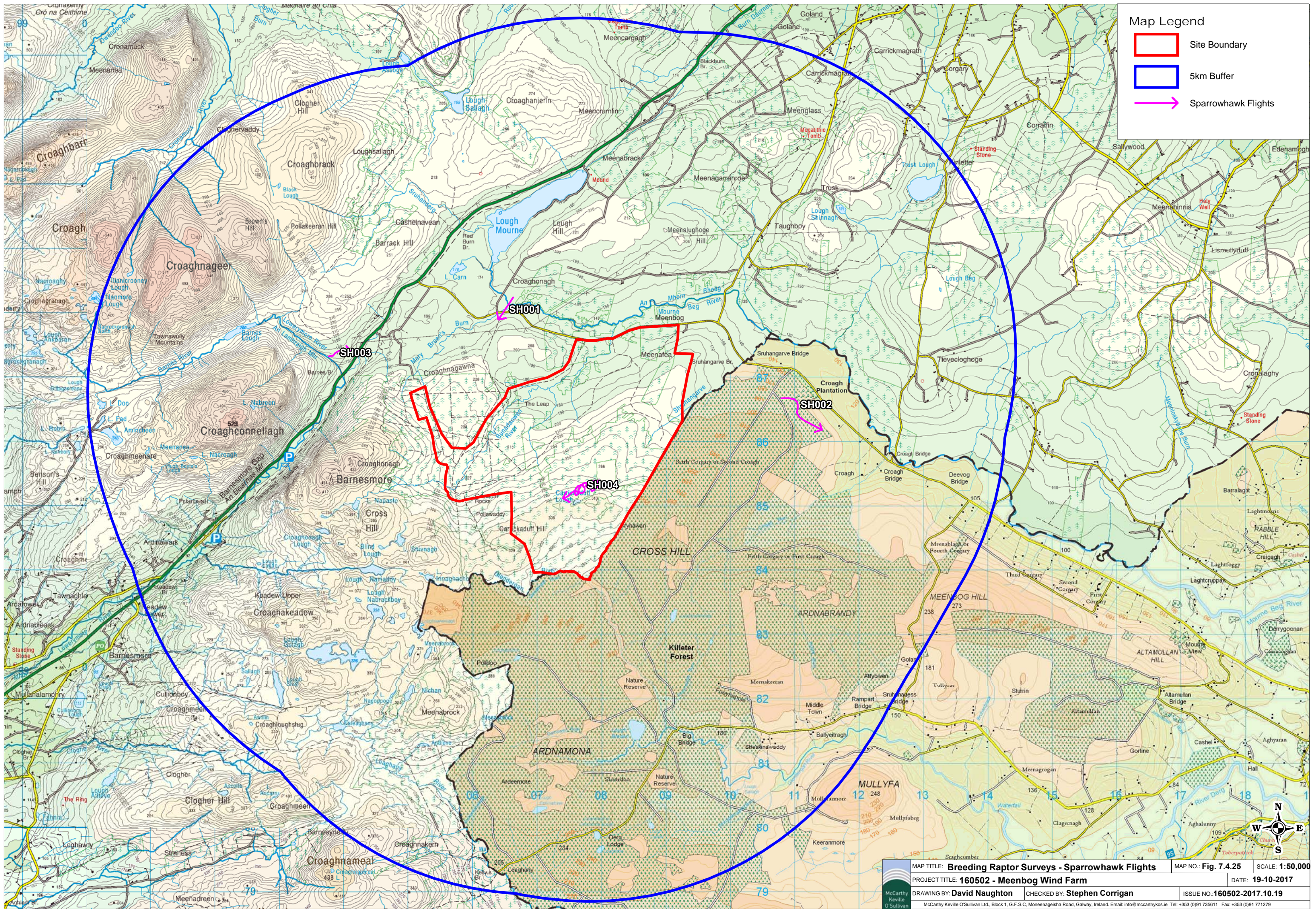
Map Legend

-  Site Boundary
-  Turbine Layout
-  VP Locations
-  Sparrowhawk Flights
-  Sparrowhawk Flights Outside Focus Area



	MAP TITLE: Sparrowhawk Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.24	SCALE: 1:25,000
	PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 14-11-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.11.14	
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Map Legend

- Site Boundary
- 5km Buffer
- Sparrowhawk Flights

MAP TITLE: Breeding Raptor Surveys - Sparrowhawk Flights	MAP NO.: Fig. 7.4.25	SCALE: 1:50,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19

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Table 15: Kestrel Survey Data

Vantage Point Surveys															
Map Reference No.	Date	VP	Season	Obs No.	Species Name	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-30.5m)	Band 3 PCH (30.5-175m)	Band 4 (>175m)	Habitat and Activity	Comments	Inside /Outside Focus Area
K101	07/06/2015	4	Breeding		Kestrel	1	13:20:00	5			5		Spooked by noise then flew from perch on spruce across loch to cover in forestry		
K102	16/08/2015	3	Breeding		Kestrel	1	09:36:00	5			5				
K103	19/09/2015	4	Breeding		Kestrel	1	10:16:00	6			6		Flying over moor		
K104	08/12/2015	1	Non-breeding	Red	Kestrel	1	09:17:00	8			8		flushed by passing vehicle		
K105	30/05/2016	4	Breeding	1	Kestrel	1	08:41:00	50	25	25					
K106	20/06/2016	4	Breeding	3	Kestrel	1	11:01:00	31		31			WS5, (Recently-felled woodland) Flying east over clearfell between plantations.		
K107	21/10/2016	1	Non-breeding	3	Kestrel	1	11:20:00	300		120	180		WD4, (Conifer plantation) PB2, (Upland blanket bog)		Out
K108	28/04/2017	2	Breeding	1	Kestrel	1	10:35:00	75	15	20	40		WD4, (Conifer plantation) Mixed broadleaved/conifer woodland Hunting perched briefly	Male	
K109	19/09/2017	18	Breeding	1	Kestrel	1	16:32:00	60	10	50			WD4, (Conifer plantation) Hunting, hovering	Female	
K110	20/09/2017	1	Breeding	1	Kestrel	1	17:10:00	1900	400	1500			WD4, (Conifer plantation) PB2, (Upland blanket bog) Hunting, hovering then perched in dead tree dropping to ground numerous times	Female	Out






Table 15: Kestrel Survey Data

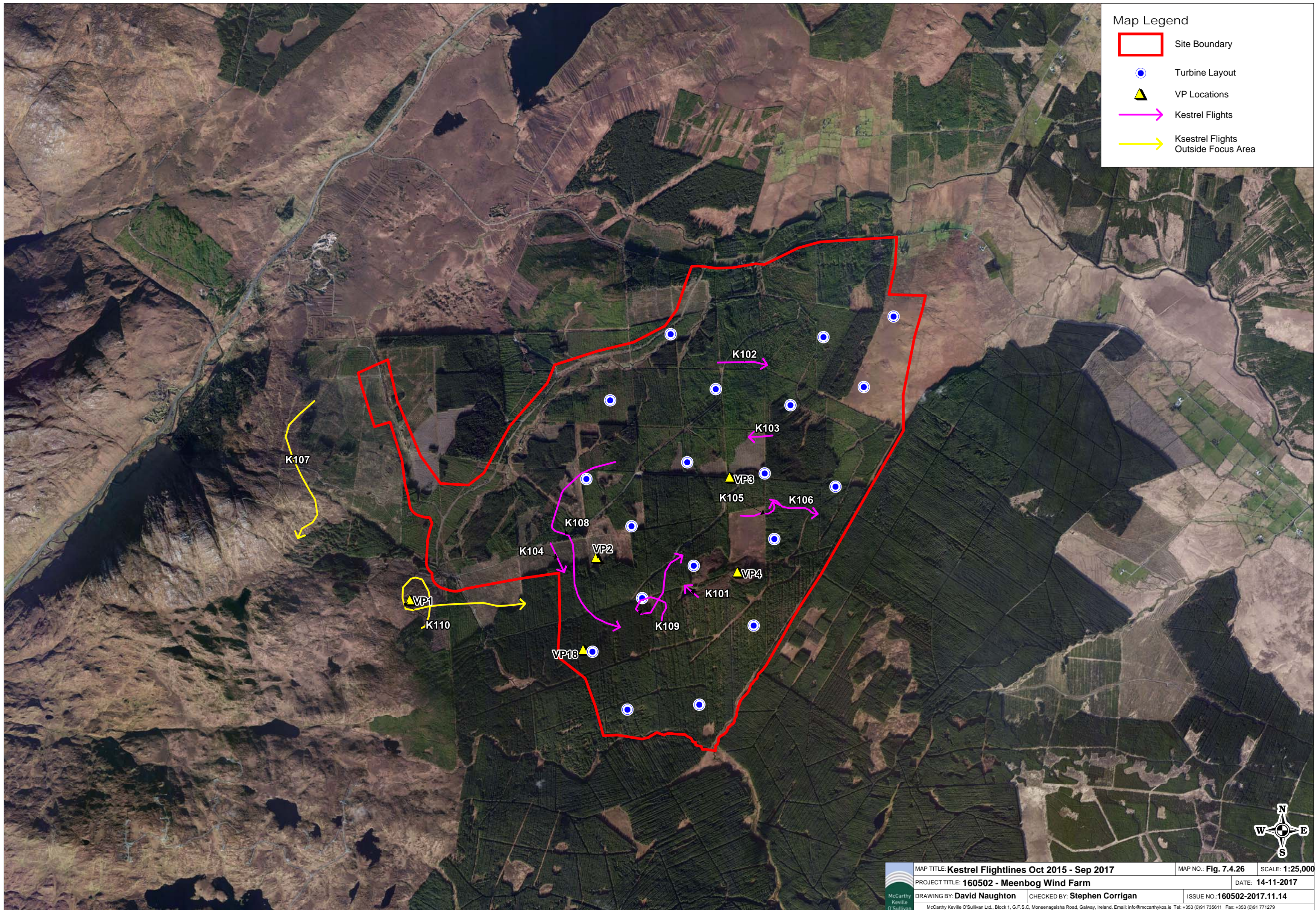
Brown & Shepherd Walkovers															
Breeding Territory Map Reference	Date	Trans/Quad No.	Season	Obs No.	Species	No. of Birds	Time of observation	N/A	Sex/age	GPS	X	Y	Habitat and Activity	Comments	N/A
	27/05/2016	-	Breeding	9	Kestrel	1	13:18:00		Male	H	204730	383851			
Breeding Raptor Surveys															
Map Reference No.	Date	VP	Season	Obs no.	Species Name	No. of Birds	Time of observation	N/A	Sex/age	GPS	X	Y	Habitat and Activity	Comments	N/A
K001	13/06/2017		Breeding		Kestrel	2	17:40:00								
K002	04/07/2017		Breeding		Kestrel	1	15:49:00								
K003	06/07/2017		Breeding		Kestrel	1	16:37:00								
Waterfowl Survey Data															
Season	Date	Location	N/A	Species	No. of Birds	N/A	Waterbird Activity	Feeding /Roosting	GPS	X	Y	Habitat and Activity	Comments	N/A	
Breeding	14/04/2016	Pettigo Plateau SPA		Kestrel	1							HUNTING			
Incidental Observations															
Survey Type	Date	Location	N/A	Species	No. of Birds	N/A	N/A	N/A	GPS	X	Y	Notes	N/A	N/A	
Hen Harrier Roost Survey	23/04/2015	HHVP6		Kestrel	1							Hunting in rough grassland			
Vantage Point Survey	28/05/2016	VP2		Kestrel								Hovering over grassland before flying behind woodland			

Table 15: Kestrel Survey Data

Incidental Observations														
Survey Type	Date	Location	N/A	Species	No. of Birds	N/A	N/A	N/A	GPS	X	Y	Notes	N/A	N/A
Red-Throated Diver Survey	27/06/2016	RHVP1		Kestrel					H	207200	387200	Male perched before taking flight		
Goshawk Survey	30/03/2017	Survey 3		Kestrel	1							Hunting over scrub		

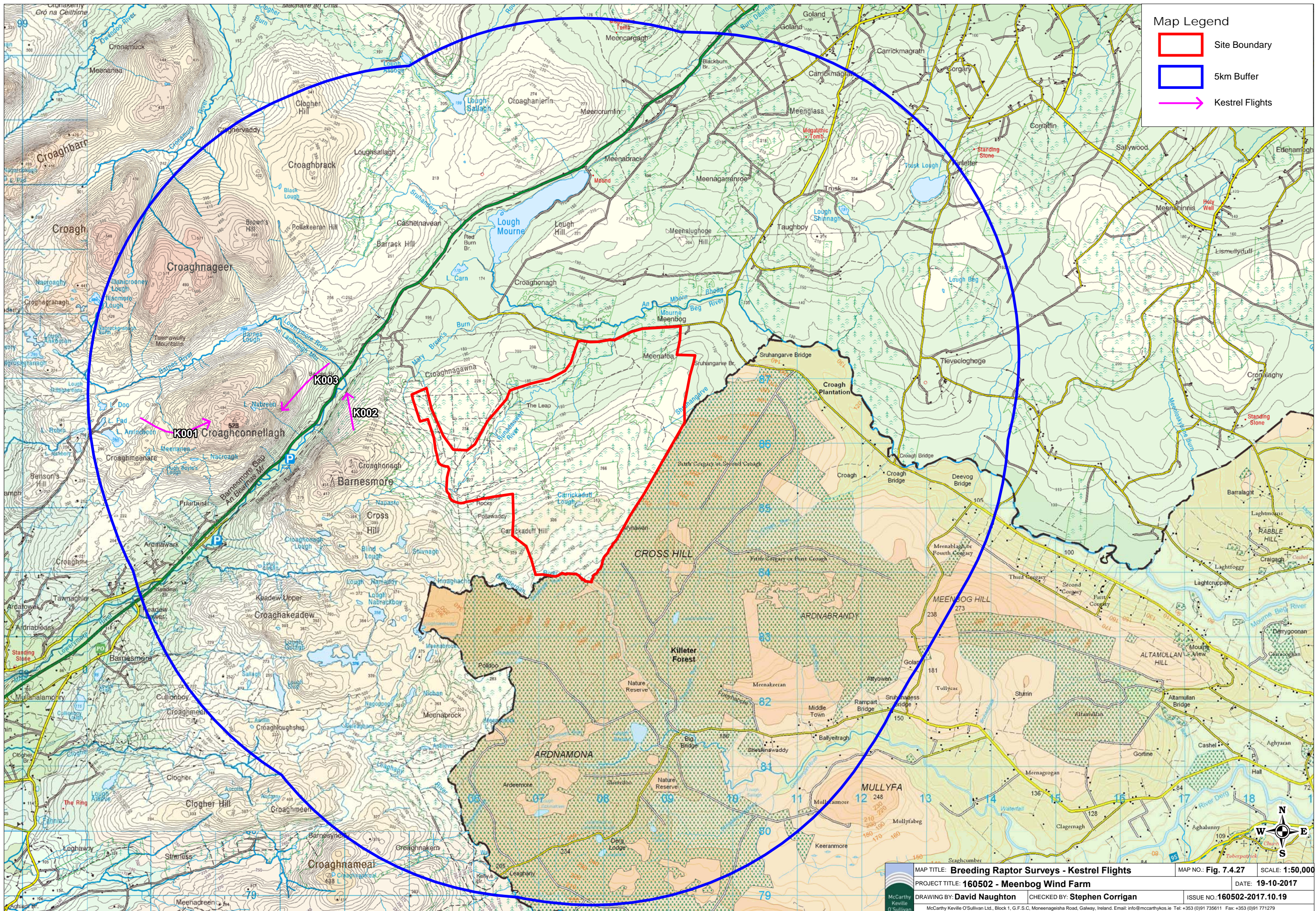
Map Legend

-  Site Boundary
-  Turbine Layout
-  VP Locations
-  Kestrel Flights
-  Kestrel Flights Outside Focus Area



MAP TITLE: Kestrel Flightlines Oct 2015 - Sep 2017	MAP NO.: Fig. 7.4.26	SCALE: 1:25,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 14-11-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.11.14
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Map Legend

- Site Boundary
- 5km Buffer
- Kestrel Flights

MAP TITLE: Breeding Raptor Surveys - Kestrel Flights	MAP NO.: Fig. 7.4.27	SCALE: 1:50,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
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Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
30/06/2017	1	Barn Swallow		
16/06/2017	2	Barn Swallow		
08/05/2017	3	Barn Swallow		
18/07/2017	3	Barn Swallow		
27/08/2017	3	Barn Swallow		
27/07/2017	4	Barn Swallow		
08/05/2016	17	Barn Swallow		Spp found on site
08/05/2016	17	Barn Swallow		Spp found on site
21/03/2017	1	Blackbird	1	
13/04/2017	1	Blackbird	2	singing
08/05/2017	1	Blackbird		
12/08/2017	1	Blackbird	2	Calling
20/09/2017	1	Blackbird		
13/10/2016	2	Blackbird	2	
13/10/2016	2	Blackbird	2	
21/02/2017	2	Blackbird	1	
28/04/2017	2	Blackbird		
29/05/2017	2	Blackbird	2	Calling
16/06/2017	2	Blackbird		
19/07/2017	2	Blackbird		
20/07/2017	2	Blackbird		
06/09/2017	2	Blackbird		
13/04/2017	3	Blackbird		
08/05/2017	3	Blackbird		
06/06/2017	3	Blackbird		
12/09/2017	3	Blackbird		
11/08/2016	4	Blackbird	2	Calling
11/08/2016	4	Blackbird	2	Calling
19/01/2017	4	Blackbird	2	na
19/01/2017	4	Blackbird	2	na
23/03/2017	4	Blackbird	1	
18/04/2017	4	Blackbird	1	singing
09/05/2017	4	Blackbird		
30/05/2017	4	Blackbird		
27/07/2017	4	Blackbird		
08/05/2016	17	Blackbird		Spp found on site
08/05/2016	17	Blackbird		Spp found on site
15/06/2017	18	Blackbird		
20/07/2017	18	Blackbird		
27/08/2017	18	Blackbird		
19/02/2017		Blackbird	2	
19/02/2017		Blackbird	2	

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
20/04/2016	17	Blackcap		Spp found on site
20/04/2016	17	Blackcap		Spp found on site
10/05/2016	18	Blackcap		Spp found on site
10/05/2016	18	Blackcap		Spp found on site
14/10/2016	1	Blue Tit	1	
14/10/2016	1	Blue Tit	1	
18/02/2017	1	Blue Tit	3	
18/02/2017	1	Blue Tit	3	
12/08/2017	1	Blue Tit	4	Perched/Feeding
13/10/2016	2	Blue Tit	1	
13/10/2016	2	Blue Tit	1	
21/02/2017	2	Blue Tit	3	
29/05/2017	2	Blue Tit	2	Foraging
06/09/2017	2	Blue Tit		
04/07/2016	4	Blue Tit	3	
04/07/2016	4	Blue Tit	3	
20/02/2017	4	Blue Tit	1	
25/07/2016	18	Blue Tit	1	
25/07/2016	18	Blue Tit	1	
18/08/2016	18	Blue Tit	3	1 juvenile
18/08/2016	18	Blue Tit	3	1 juvenile
28/10/2016	18	Blue Tit	1	
28/10/2016	18	Blue Tit	1	
20/02/2017		Blue Tit	2	
20/02/2017		Blue Tit	2	
21/02/2017		Blue Tit	3	
21/02/2017		Blue Tit	3	
16/06/2017	2	Bullfinch		
04/07/2016	4	Bullfinch	1	Perched on top of scots pine
04/07/2016	4	Bullfinch	1	Perched on top of scots pine
13/04/2017	1	Chaffinch	2	singing
08/05/2017	1	Chaffinch		
12/08/2017	1	Chaffinch	7	Travelling
18/01/2017	2	Chaffinch	3	
18/01/2017	2	Chaffinch	3	
21/02/2017	2	Chaffinch	1	
28/04/2017	2	Chaffinch		
16/06/2017	2	Chaffinch		
19/07/2017	2	Chaffinch		
20/07/2017	2	Chaffinch		
17/02/2017	3	Chaffinch	3	
17/02/2017	3	Chaffinch	3	

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
08/05/2017	3	Chaffinch		
04/07/2016	4	Chaffinch	2	Perched
04/07/2016	4	Chaffinch	2	Perched
11/08/2016	4	Chaffinch	3	
11/08/2016	4	Chaffinch	3	
23/03/2017	4	Chaffinch	1	
18/04/2017	4	Chaffinch	2	singing
27/06/2017	4	Chaffinch		
27/07/2017	4	Chaffinch		
10/08/2017	4	Chaffinch	7	Flying/Travelling
20/04/2016	17	Chaffinch		Spp found on site
20/04/2016	17	Chaffinch		Spp found on site
08/05/2016	17	Chaffinch		Spp found on site
08/05/2016	17	Chaffinch		Spp found on site
10/05/2016	18	Chaffinch		Spp found on site
10/05/2016	18	Chaffinch		Spp found on site
25/07/2016	18	Chaffinch	3	1 juvenile
25/07/2016	18	Chaffinch	3	1 juvenile
18/08/2016	18	Chaffinch	8	3 juvenile present
18/08/2016	18	Chaffinch	8	3 juvenile present
17/01/2017	18	Chaffinch	1	
17/01/2017	18	Chaffinch	1	
30/03/2017	18	Chaffinch	10	
30/03/2017	18	Chaffinch	10	
16/04/2017	18	Chaffinch	4	singing
30/05/2017	18	Chaffinch	2	Calling
15/06/2017	18	Chaffinch		
20/02/2017		Chaffinch	6	
20/02/2017		Chaffinch	6	
21/02/2017		Chaffinch	2	
21/02/2017		Chaffinch	2	
29/05/2017	2	Chiffchaff	2	Foraging
04/07/2016	4	Chiffchaff	1	Male calling
04/07/2016	4	Chiffchaff	1	Male calling
11/08/2016	4	Chiffchaff	2	
11/08/2016	4	Chiffchaff	2	
14/10/2016	1	Coal Tit	1	
14/10/2016	1	Coal Tit	1	
12/08/2017	1	Coal Tit	5	Feeding
13/10/2016	2	Coal Tit	3	
13/10/2016	2	Coal Tit	3	
18/01/2017	2	Coal Tit	2	

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
18/01/2017	2	Coal Tit	2	
23/02/2017	2	Coal Tit	1	
16/06/2017	2	Coal Tit		
19/07/2017	2	Coal Tit		
14/10/2016	3	Coal Tit	2	
14/10/2016	3	Coal Tit	2	
26/01/2017	3	Coal Tit	2	na
26/01/2017	3	Coal Tit	2	na
08/05/2017	3	Coal Tit		
11/08/2016	4	Coal Tit	2	Feeding
11/08/2016	4	Coal Tit	2	Feeding
19/01/2017	4	Coal Tit	2	na
19/01/2017	4	Coal Tit	2	na
18/04/2017	4	Coal Tit	1	singing
10/08/2017	4	Coal Tit	2	Travelling/Perched
10/05/2016	18	Coal Tit		Spp found on site
10/05/2016	18	Coal Tit		Spp found on site
01/02/2017	18	Coal Tit	4	
01/02/2017	18	Coal Tit	4	
27/08/2017	18	Coal Tit		
04/07/2016	4	Cormorant	1	WD4, (Conifer plantation) WS5, (Recently-felled woodland) Flying westward along the south of vp4 in a straight line for 51 seconds in band 3
08/05/2017	1	Crossbill		
20/09/2017	1	Crossbill		
13/10/2016	2	Crossbill	1	
13/10/2016	2	Crossbill	1	
21/02/2017	2	Crossbill	3	
16/06/2017	2	Crossbill		
19/07/2017	2	Crossbill		
14/11/2016	3	Crossbill	10	
14/11/2016	3	Crossbill	10	
17/02/2017	3	Crossbill	1	
17/02/2017	3	Crossbill	1	
13/04/2017	3	Crossbill		
18/07/2017	3	Crossbill		
20/02/2017	4	Crossbill	2	
18/04/2017	4	Crossbill	2	perched
09/05/2017	4	Crossbill		
30/05/2017	4	Crossbill		
27/07/2017	4	Crossbill		

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
10/05/2016	18	Crossbill		Spp found on site
10/05/2016	18	Crossbill		Spp found on site
28/10/2016	18	Crossbill	3	
28/10/2016	18	Crossbill	3	
17/01/2017	18	Crossbill	2	
17/01/2017	18	Crossbill	2	
22/03/2017	18	Crossbill	2	Male and female
22/03/2017	18	Crossbill	2	Male and female
20/07/2017	18	Crossbill		
24/07/2017	18	Crossbill		
19/09/2017	18	Crossbill		
29/05/2017	2	Cuckoo	1	
29/05/2017	2	Cuckoo	1	
16/06/2017	2	Cuckoo		
08/05/2017	3	Cuckoo		
30/05/2016	4	Cuckoo	1	
09/05/2017	4	Cuckoo		
08/05/2016	17	Cuckoo		Spp found on site
08/05/2016	17	Cuckoo		Spp found on site
23/05/2016	18	Cuckoo	1	
24/05/2016	18	Cuckoo	1	
30/05/2017	18	Cuckoo	1	
14/10/2016	1	Dunnock	1	
14/10/2016	1	Dunnock	1	
13/10/2016	2	Dunnock	1	
13/10/2016	2	Dunnock	1	
06/06/2017	3	Dunnock		
10/08/2017	4	Dunnock	2	Perched
25/07/2016	18	Dunnock	2	Calling and perched on tree top
25/07/2016	18	Dunnock	2	Calling and perched on tree top
16/01/2017	3	Eurasian Treecreeper	1	
16/01/2017	3	Eurasian Treecreeper	1	
15/11/2016	3	Fieldfare	6	
15/11/2016	3	Fieldfare	6	
23/11/2016	4	Fieldfare	44	
23/11/2016	4	Fieldfare	44	
14/12/2016	4	Fieldfare	7	
14/12/2016	4	Fieldfare	7	
22/11/2016	18	Fieldfare	50	
22/11/2016	18	Fieldfare	50	
19/02/2017		Fieldfare	3	
19/02/2017		Fieldfare	3	

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
12/08/2017	1	Goldcrest	10	Travelling/Perched
13/10/2016	2	Goldcrest	2	
13/10/2016	2	Goldcrest	2	
19/07/2017	2	Goldcrest		
06/06/2017	3	Goldcrest		
10/08/2017	4	Goldcrest	4	Calling
10/05/2016	18	Goldcrest		Spp found on site
10/05/2016	18	Goldcrest		Spp found on site
18/08/2016	18	Goldcrest	3	Feeding
18/08/2016	18	Goldcrest	3	Feeding
30/05/2017	18	Goldcrest	1	Feeding
27/08/2017	18	Goldcrest		
20/03/2017	2	Great Black-backed Gull	5	WD4, (Conifer plantation) PB2, (Upland blanket bog) travelling
21/06/2016	18	Great Black-backed Gull	2	WD4, (Conifer plantation) Observed flying SW at the edge of VP18 over plantation before going out of sight.
29/05/2017	2	Great Tit	4	Foraging
26/01/2017	3	Great Tit	2	na
26/01/2017	3	Great Tit	2	na
13/04/2017	3	Great Tit		
04/07/2016	4	Great Tit	4	1 juvenile noted
04/07/2016	4	Great Tit	4	1 juvenile noted
11/08/2016	4	Great Tit	4	Young observed
11/08/2016	4	Great Tit	4	Young observed
27/06/2017	4	Great Tit		
10/08/2017	4	Great Tit	2	Feeding
08/05/2016	17	Great Tit		Spp found on site
08/05/2016	17	Great Tit		Spp found on site
25/07/2016	18	Great Tit	3	
25/07/2016	18	Great Tit	3	
18/08/2016	18	Great Tit	5	2 juvenile present
18/08/2016	18	Great Tit	5	2 juvenile present
30/05/2017	18	Great Tit	2	Foraging
21/10/2016	1	Grey Heron	1	WD4, (Conifer plantation) PB2, (Upland blanket bog)
26/01/2017	1	Grey Heron	1	WD4, (Conifer plantation) PB2, (Upland blanket bog)
30/06/2017	1	Grey Heron	1	WD4, (Conifer plantation) WS5, (Recently-felled woodland) Mixed broadleaved/conifer woodland Travelling across viewshed

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
22/03/2017	3	Grey Heron	1	WD4, (Conifer plantation) Travelling
20/06/2016	4	Grey Heron	1	WD4, (Conifer plantation) Flying west over site for 55 seconds before going out of sight. Approx. 40 seconds in Band 3
24/05/2016	18	Grey Heron	1	Flying SW over forestry continuing SW offsite
18/08/2016	18	Grey Heron	1	WD4, (Conifer plantation) Flying south over forestry for 31 seconds in band 3
21/02/2017	2	Grey Wagtail	1	
23/02/2017	2	Grey Wagtail	2	
11/08/2016	4	Grey Wagtail	5	Juveniles feeding on crane flies
11/08/2016	4	Grey Wagtail	5	Juveniles feeding on crane flies
30/05/2017	4	Grey Wagtail		
27/06/2017	4	Grey Wagtail		
25/07/2017	4	Grey Wagtail		
16/04/2017	18	Grey Wagtail	2	flying
15/06/2017	18	Grey Wagtail		
14/10/2016	1	Hooded Crow	1	
14/10/2016	1	Hooded Crow	1	
21/10/2016	1	Hooded Crow	4	
21/10/2016	1	Hooded Crow	4	
18/02/2017	1	Hooded Crow	3	
18/02/2017	1	Hooded Crow	3	
21/03/2017	1	Hooded Crow	2	
13/04/2017	1	Hooded Crow	1	flying
30/06/2017	1	Hooded Crow		
26/07/2017	1	Hooded Crow		
12/08/2017	1	Hooded Crow	5	Foraging
13/10/2016	2	Hooded Crow	1	
13/10/2016	2	Hooded Crow	1	
21/02/2017	2	Hooded Crow	1	
23/02/2017	2	Hooded Crow	1	
28/04/2017	2	Hooded Crow		
29/05/2017	2	Hooded Crow	1	Flying north over site
16/06/2017	2	Hooded Crow		
06/09/2017	2	Hooded Crow		
14/11/2016	3	Hooded Crow	27	
14/11/2016	3	Hooded Crow	27	
16/12/2016	3	Hooded Crow	1	In flight
16/12/2016	3	Hooded Crow	1	In flight
16/12/2016	3	Hooded Crow	1	In flight

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
16/12/2016	3	Hooded Crow	1	In flight
26/01/2017	3	Hooded Crow	1	na
26/01/2017	3	Hooded Crow	1	na
17/02/2017	3	Hooded Crow	2	
17/02/2017	3	Hooded Crow	2	
06/06/2017	3	Hooded Crow		
27/08/2017	3	Hooded Crow		
12/09/2017	3	Hooded Crow		
15/09/2017	3	Hooded Crow		
18/10/2016	4	Hooded Crow	4	
18/10/2016	4	Hooded Crow	4	
20/02/2017	4	Hooded Crow	2	
24/02/2017	4	Hooded Crow	1	
23/03/2017	4	Hooded Crow	2	
18/04/2017	4	Hooded Crow	1	flying
09/05/2017	4	Hooded Crow		
27/06/2017	4	Hooded Crow		
25/07/2017	4	Hooded Crow		
10/08/2017	4	Hooded Crow	5	Travelling
07/09/2017	4	Hooded Crow		
26/09/2017	4	Hooded Crow		
20/04/2016	17	Hooded Crow		Spp found on site
20/04/2016	17	Hooded Crow		Spp found on site
08/05/2016	17	Hooded Crow		Spp found on site
08/05/2016	17	Hooded Crow		Spp found on site
13/10/2016	17	Hooded Crow	7	
13/10/2016	17	Hooded Crow	7	
16/02/2017	17	Hooded Crow	2	
16/02/2017	17	Hooded Crow	2	
29/05/2017	17	Hooded Crow		
25/07/2016	18	Hooded Crow	1	Calling
25/07/2016	18	Hooded Crow	1	Calling
27/09/2016	18	Hooded Crow	1	
27/09/2016	18	Hooded Crow	1	
16/04/2017	18	Hooded Crow	2	flying
30/05/2017	18	Hooded Crow	1	Flying east carrying nest material
15/06/2017	18	Hooded Crow		
20/07/2017	18	Hooded Crow		
19/09/2017	18	Hooded Crow		
19/02/2017		Hooded Crow	10	
19/02/2017		Hooded Crow	10	

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
20/02/2017		Hooded Crow	2	
20/02/2017		Hooded Crow	2	
21/02/2017		Hooded Crow	7	
21/02/2017		Hooded Crow	7	
18/07/2017	3	House Martin		
20/04/2016	17	House Martin		Spp found on site
20/04/2016	17	House Martin		Spp found on site
24/07/2017	18	House Martin		
18/08/2016	18	Jackdaw	2	In flight
18/08/2016	18	Jackdaw	2	In flight
19/02/2017		Jackdaw	11	
19/02/2017		Jackdaw	11	
16/06/2017	2	Jay		
18/08/2016	18	Jay	3	Calling
15/06/2017	18	Jay		
14/10/2016	1	Lesser Redpoll	1	
14/10/2016	1	Lesser Redpoll	1	
30/06/2017	1	Lesser Redpoll		
19/07/2017	2	Lesser Redpoll		
20/07/2017	2	Lesser Redpoll		
30/05/2017	4	Lesser Redpoll		
27/08/2017	18	Lesser Redpoll		
10/08/2017	4	Linnet	2	Travelling
17/02/2017	3	Long-tailed Tit	2	
17/02/2017	3	Long-tailed Tit	2	
21/03/2017	1	Magpie	1	
20/09/2017	1	Magpie		
06/06/2017	3	Magpie		
15/09/2017	3	Magpie		
15/09/2017	3	Magpie		
04/07/2016	4	Magpie	1	Heard calling
04/07/2016	4	Magpie	1	Heard calling
11/08/2016	4	Magpie	2	
11/08/2016	4	Magpie	2	
26/09/2017	4	Magpie		
21/09/2017	17	Magpie		
25/07/2016	18	Magpie	1	In flight before perching
25/07/2016	18	Magpie	1	In flight before perching
30/05/2017	18	Magpie	1	Flying along forest edge
19/02/2017		Magpie	4	
19/02/2017		Magpie	4	
29/05/2017	2	Mallard	1	Flew overhead, calling.

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
20/04/2016	17	Mallard		Spp found on site
20/04/2016	17	Mallard		Spp found on site
28/04/2017	17	Mallard	1	Travelling
18/08/2016	18	Mallard	2	In flight
18/08/2016	18	Mallard	2	In flight
16/04/2017	18	Mallard	2	Travelling
16/04/2017	18	Mallard	3	Travelling
14/10/2016	1	Meadow Pipit	5	
14/10/2016	1	Meadow Pipit	5	
21/10/2016	1	Meadow Pipit	3	
21/10/2016	1	Meadow Pipit	3	
16/01/2017	1	Meadow Pipit	1	na
16/01/2017	1	Meadow Pipit	1	na
18/02/2017	1	Meadow Pipit	4	
18/02/2017	1	Meadow Pipit	4	
21/03/2017	1	Meadow Pipit	1	
22/03/2017	1	Meadow Pipit	1	
22/03/2017	1	Meadow Pipit	1	
13/04/2017	1	Meadow Pipit	3	flying
08/05/2017	1	Meadow Pipit		
30/06/2017	1	Meadow Pipit		
26/07/2017	1	Meadow Pipit		
12/08/2017	1	Meadow Pipit	10	Flying/Perched
28/04/2017	2	Meadow Pipit		
29/05/2017	2	Meadow Pipit	5	Song flight
16/06/2017	2	Meadow Pipit		
06/09/2017	2	Meadow Pipit		
26/10/2016	3	Meadow Pipit	2	
26/10/2016	3	Meadow Pipit	2	
13/04/2017	3	Meadow Pipit		
08/05/2017	3	Meadow Pipit		
06/06/2017	3	Meadow Pipit		
18/07/2017	3	Meadow Pipit		
18/07/2017	3	Meadow Pipit		
27/08/2017	3	Meadow Pipit		
04/07/2016	4	Meadow Pipit	3	Song flight
04/07/2016	4	Meadow Pipit	3	Song flight
11/08/2016	4	Meadow Pipit	9	2 juveniles recorded
11/08/2016	4	Meadow Pipit	9	2 juveniles recorded
28/09/2016	4	Meadow Pipit	4	
28/09/2016	4	Meadow Pipit	4	
24/02/2017	4	Meadow Pipit	1	

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
23/03/2017	4	Meadow Pipit	2	
18/04/2017	4	Meadow Pipit	5	flying
09/05/2017	4	Meadow Pipit		
30/05/2017	4	Meadow Pipit		
27/06/2017	4	Meadow Pipit		
25/07/2017	4	Meadow Pipit		
27/07/2017	4	Meadow Pipit		
10/08/2017	4	Meadow Pipit	4	Perched
07/09/2017	4	Meadow Pipit		
08/05/2016	17	Meadow Pipit		Spp found on site
08/05/2016	17	Meadow Pipit		Spp found on site
16/11/2016	17	Meadow Pipit	1	
16/11/2016	17	Meadow Pipit	1	
22/02/2017	17	Meadow Pipit	1	
29/05/2017	17	Meadow Pipit		
30/05/2017	17	Meadow Pipit		
25/07/2016	18	Meadow Pipit	2	Song flight
25/07/2016	18	Meadow Pipit	2	Song flight
18/08/2016	18	Meadow Pipit	54	Large flock present
18/08/2016	18	Meadow Pipit	54	Large flock present
30/03/2017	18	Meadow Pipit	4	
30/03/2017	18	Meadow Pipit	4	
16/04/2017	18	Meadow Pipit	25	flying
30/05/2017	18	Meadow Pipit	5	Song flight
15/06/2017	18	Meadow Pipit		
20/07/2017	18	Meadow Pipit		
24/07/2017	18	Meadow Pipit		
19/09/2017	18	Meadow Pipit		
21/02/2017		Meadow Pipit	2	
21/02/2017		Meadow Pipit	2	
21/10/2016	1	Mistle Thrush	465	
21/10/2016	1	Mistle Thrush	465	
18/02/2017	1	Mistle Thrush	2	
18/02/2017	1	Mistle Thrush	2	
21/03/2017	1	Mistle Thrush	1	
30/06/2017	1	Mistle Thrush		
20/09/2017	1	Mistle Thrush		
13/04/2017	3	Mistle Thrush		
24/02/2017	4	Mistle Thrush	1	
27/06/2017	4	Mistle Thrush		
28/10/2016	18	Mistle Thrush	4	
28/10/2016	18	Mistle Thrush	4	

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
20/07/2017	18	Mistle Thrush		
27/08/2017	18	Mistle Thrush		
08/05/2017	3	Northern Wheatear		
29/05/2017	17	Northern Wheatear		
30/05/2017	17	Northern Wheatear		
21/09/2017	17	Northern Wheatear		
25/07/2016	18	Northern Wheatear	2	Perched and feeding
25/07/2016	18	Northern Wheatear	2	Perched and feeding
25/07/2016	18	Pied Wagtail	2	Feeding
25/07/2016	18	Pied Wagtail	2	Feeding
30/05/2017	18	Pied Wagtail	2	Feeding
14/10/2016	1	Raven	6	
14/10/2016	1	Raven	6	
21/10/2016	1	Raven	1	
21/10/2016	1	Raven	1	
16/12/2016	1	Raven	1	
16/12/2016	1	Raven	1	
16/01/2017	1	Raven	2	na
16/01/2017	1	Raven	2	na
26/01/2017	1	Raven	3	
26/01/2017	1	Raven	3	
18/02/2017	1	Raven	3	
18/02/2017	1	Raven	3	
21/03/2017	1	Raven	1	
26/07/2017	1	Raven		
20/09/2017	1	Raven		
19/07/2015	2	Raven		Calling and flying in clear fell area.
19/07/2015	2	Raven		Calling and flying in clear fell area.
03/11/2015	2	Raven		flying over
03/11/2015	2	Raven		flying over
09/12/2015	2	Raven		calling from pch
09/12/2015	2	Raven		calling from pch
13/10/2016	2	Raven	23	
13/10/2016	2	Raven	23	
12/12/2016	2	Raven	2	In flight
12/12/2016	2	Raven	2	In flight
18/01/2017	2	Raven	4	
18/01/2017	2	Raven	4	
19/07/2017	2	Raven		
20/07/2017	2	Raven		
06/09/2017	2	Raven		

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
16/08/2015	3	Raven		
16/08/2015	3	Raven		
24/11/2015	3	Raven		soaring
24/11/2015	3	Raven		soaring
08/12/2015	3	Raven		fly past
08/12/2015	3	Raven		fly past
16/12/2016	3	Raven	1	In flight
16/12/2016	3	Raven	1	In flight
16/12/2016	3	Raven	1	In flight
16/12/2016	3	Raven	1	In flight
16/12/2016	3	Raven	1	In flight
16/12/2016	3	Raven	1	In flight
16/01/2017	3	Raven	2	
16/01/2017	3	Raven	2	
26/01/2017	3	Raven	1	na
26/01/2017	3	Raven	1	na
17/02/2017	3	Raven	2	
17/02/2017	3	Raven	2	
22/03/2017	3	Raven	2	
22/03/2017	3	Raven	2	
08/05/2017	3	Raven		
18/07/2017	3	Raven		
27/08/2017	3	Raven		
12/09/2017	3	Raven		
15/09/2017	3	Raven		
18/08/2015	4	Raven		
18/08/2015	4	Raven		
19/09/2015	4	Raven		Flying around moor
19/09/2015	4	Raven		Flew past
19/09/2015	4	Raven		Flew past
19/09/2015	4	Raven		Flying around moor
19/09/2015	4	Raven		Flew past
28/09/2016	4	Raven	3	
28/09/2016	4	Raven	3	
18/10/2016	4	Raven	9	
18/10/2016	4	Raven	9	
23/11/2016	4	Raven	7	
23/11/2016	4	Raven	7	
14/12/2016	4	Raven	1	
14/12/2016	4	Raven	1	
14/12/2016	4	Raven	1	
14/12/2016	4	Raven	1	
19/01/2017	4	Raven	3	na
19/01/2017	4	Raven	3	na
20/02/2017	4	Raven	2	

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
23/03/2017	4	Raven	1	
27/06/2017	4	Raven		
25/07/2017	4	Raven		
27/07/2017	4	Raven		
10/08/2017	4	Raven	15	Travelling
07/09/2017	4	Raven		
26/09/2017	4	Raven		
02/12/2015	17	Raven		fly past
02/12/2015	17	Raven		fly past
08/05/2016	17	Raven		Spp found on site
08/05/2016	17	Raven		Spp found on site
13/10/2016	17	Raven	7	
13/10/2016	17	Raven	7	
15/11/2016	17	Raven	3	
15/11/2016	17	Raven	3	
19/01/2017	17	Raven	2	
19/01/2017	17	Raven	2	
16/02/2017	17	Raven	5	
16/02/2017	17	Raven	5	
22/02/2017	17	Raven	2	
23/03/2017	17	Raven	4	
23/03/2017	17	Raven	4	
29/05/2017	17	Raven		
21/09/2017	17	Raven		
25/07/2016	18	Raven	1	Coniferous
25/07/2016	18	Raven	1	Coniferous
18/08/2016	18	Raven	4	In flight
18/08/2016	18	Raven	4	In flight
27/09/2016	18	Raven	7	
27/09/2016	18	Raven	7	
28/10/2016	18	Raven	3	
28/10/2016	18	Raven	3	
22/11/2016	18	Raven	2	
22/11/2016	18	Raven	2	
21/12/2016	18	Raven	1	In flight
21/12/2016	18	Raven	2	In flight
21/12/2016	18	Raven	1	In flight
21/12/2016	18	Raven	2	In flight
17/01/2017	18	Raven	3	
17/01/2017	18	Raven	3	
01/02/2017	18	Raven	5	
01/02/2017	18	Raven	5	
22/03/2017	18	Raven	4	
22/03/2017	18	Raven	4	
15/06/2017	18	Raven		
20/07/2017	18	Raven		
19/09/2017	18	Raven		
19/02/2017		Raven	3	
19/02/2017		Raven	3	
20/02/2017		Raven	15	
20/02/2017		Raven	15	
21/02/2017		Raven	3	
21/02/2017		Raven	3	
13/10/2016	2	Redwing	6	
13/10/2016	2	Redwing	6	

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
14/10/2016	1	Reed Bunting	1	
14/10/2016	1	Reed Bunting	1	
28/10/2016	18	Reed Bunting	2	
28/10/2016	18	Reed Bunting	2	
14/10/2016	1	Robin	2	
14/10/2016	1	Robin	2	
13/04/2017	1	Robin	1	singing
26/07/2017	1	Robin		
12/08/2017	1	Robin		Calling
13/10/2016	2	Robin	7	
13/10/2016	2	Robin	7	
21/02/2017	2	Robin	1	
28/04/2017	2	Robin		
29/05/2017	2	Robin	3	In song
16/06/2017	2	Robin		
20/07/2017	2	Robin		
06/09/2017	2	Robin		
14/10/2016	3	Robin	4	
14/10/2016	3	Robin	4	
08/05/2017	3	Robin		
06/06/2017	3	Robin		
12/09/2017	3	Robin		
15/09/2017	3	Robin		
04/07/2016	4	Robin	1	Feeding along woodland edge
04/07/2016	4	Robin	1	Feeding along woodland edge
11/08/2016	4	Robin	8	Calling/foraging along woodland edge
11/08/2016	4	Robin	8	Calling/foraging along woodland edge
19/01/2017	4	Robin	1	na
19/01/2017	4	Robin	1	na
18/04/2017	4	Robin	1	singing
25/07/2017	4	Robin		
27/07/2017	4	Robin		
10/08/2017	4	Robin	3	Calling
07/09/2017	4	Robin		
26/09/2017	4	Robin		
20/04/2016	17	Robin		Spp found on site
20/04/2016	17	Robin		Spp found on site
08/05/2016	17	Robin		Spp found on site
08/05/2016	17	Robin		Spp found on site
10/05/2016	18	Robin		Spp found on site
10/05/2016	18	Robin		Spp found on site
25/07/2016	18	Robin	1	Along clearfell
25/07/2016	18	Robin	1	Along clearfell
18/08/2016	18	Robin	2	1 juvenile
18/08/2016	18	Robin	2	1 juvenile
16/04/2017	18	Robin	1	singing
30/05/2017	18	Robin	5	Foraging
15/06/2017	18	Robin		
24/07/2017	18	Robin		
27/08/2017	18	Robin		
19/09/2017	18	Robin		
14/10/2016	1	Siskin	1	
14/10/2016	1	Siskin	1	

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
30/06/2017	1	Siskin		
12/08/2017	1	Siskin	8	Travelling
13/10/2016	2	Siskin	2	
13/10/2016	2	Siskin	2	
16/06/2017	2	Siskin		
19/07/2017	2	Siskin		
20/07/2017	2	Siskin		
06/06/2017	3	Siskin		
06/06/2017	3	Siskin		
18/07/2017	3	Siskin		
09/05/2017	4	Siskin		
30/05/2017	4	Siskin		
27/06/2017	4	Siskin		
25/07/2017	4	Siskin		
27/07/2017	4	Siskin		
10/05/2016	18	Siskin		Spp found on site
10/05/2016	18	Siskin		Spp found on site
15/06/2017	18	Siskin		
27/08/2017	18	Siskin		
21/03/2017	1	Skylark	1	
22/03/2017	1	Skylark	2	
22/03/2017	1	Skylark	2	
08/05/2017	1	Skylark		
16/06/2017	2	Skylark		
13/04/2017	3	Skylark		
23/03/2017	4	Skylark	2	
09/05/2017	4	Skylark		
30/05/2017	4	Skylark		
27/06/2017	4	Skylark		
29/05/2017	17	Skylark		
30/05/2017	17	Skylark		
25/07/2016	18	Skylark	1	Calling
25/07/2016	18	Skylark	1	Calling
30/03/2017	18	Skylark	2	
30/03/2017	18	Skylark	2	
20/02/2017		Skylark	1	
20/02/2017		Skylark	1	
08/05/2017	3	Snipe	1	WS5, (Recently-felled woodland) WD4, (Conifer plantation) Drumming
20/02/2017	4	Snipe	2	
23/03/2017	4	Snipe		Calling
16/04/2017	18	Snipe	1	WS5, (Recently-felled woodland)
13/04/2017	1	Song Thrush	1	singing
30/06/2017	1	Song Thrush		
21/02/2017	2	Song Thrush	1	
08/05/2017	3	Song Thrush		
04/07/2016	4	Song Thrush	1	Calling
04/07/2016	4	Song Thrush	1	Calling
11/08/2016	4	Song Thrush	1	Calling
11/08/2016	4	Song Thrush	1	Calling
20/02/2017	4	Song Thrush	2	
24/02/2017	4	Song Thrush	1	
23/03/2017	4	Song Thrush	1	
18/04/2017	4	Song Thrush	2	singing

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
27/06/2017	4	Song Thrush		
20/04/2016	17	Song Thrush		Spp found on site
20/04/2016	17	Song Thrush		Spp found on site
08/05/2016	17	Song Thrush		Spp found on site
08/05/2016	17	Song Thrush		Spp found on site
25/07/2016	18	Song Thrush	3	Heard calling
25/07/2016	18	Song Thrush	3	Heard calling
16/04/2017	18	Song Thrush	1	singing
30/05/2017	18	Song Thrush	2	In song
19/02/2017		Song Thrush	2	
19/02/2017		Song Thrush	2	
19/02/2017		Starling	10	
19/02/2017		Starling	10	
20/02/2017		Starling	60	
20/02/2017		Starling	60	
26/01/2017	3	Stonechat	1	na
26/01/2017	3	Stonechat	1	na
13/04/2017	3	Stonechat		
25/07/2017	4	Stonechat		
23/03/2017	17	Stonechat	1	
23/03/2017	17	Stonechat	1	
04/07/2016	4	Swift	1	In flight amongst Swallows
04/07/2016	4	Swift	5	In flight
04/07/2016	4	Swift	1	In flight amongst Swallows
04/07/2016	4	Swift	5	In flight
13/10/2016	2	Teal	2	WD4, (Conifer plantation) HH3, (Wet heath) In flight
18/08/2016	18	Tree Pipit	2	Perched along clearfell
18/08/2016	18	Tree Pipit	2	Perched along clearfell
25/07/2016	18	Twite	1	Perched
25/07/2016	18	Twite	1	Perched
13/04/2017	1	Willow Warbler	2	singing
28/04/2017	2	Willow Warbler		
16/06/2017	2	Willow Warbler		
20/07/2017	2	Willow Warbler		
08/05/2017	3	Willow Warbler		
18/07/2017	3	Willow Warbler		
11/08/2016	4	Willow Warbler	1	
11/08/2016	4	Willow Warbler	1	
18/04/2017	4	Willow Warbler	1	singing
10/08/2017	4	Willow Warbler	3	Flying/Perched
20/04/2016	17	Willow Warbler		Spp found on site
20/04/2016	17	Willow Warbler		Spp found on site
08/05/2016	17	Willow Warbler		Spp found on site
08/05/2016	17	Willow Warbler		Spp found on site
10/05/2016	18	Willow Warbler		Spp found on site
10/05/2016	18	Willow Warbler		Spp found on site
16/04/2017	18	Willow Warbler	2	singing, foraging
30/05/2017	18	Willow Warbler	2	Calling
15/06/2017	18	Willow Warbler		
21/03/2017	1	Wood Pigeon	2	
13/04/2017	1	Wood Pigeon	2	flying
08/05/2017	1	Wood Pigeon		
26/07/2017	1	Wood Pigeon		
12/08/2017	1	Wood Pigeon	3	Travelling

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
15/11/2016	2	Wood Pigeon	9	
15/11/2016	2	Wood Pigeon	9	
28/04/2017	2	Wood Pigeon		
29/05/2017	2	Wood Pigeon	2	In flight,calling.
16/06/2017	2	Wood Pigeon		
06/09/2017	2	Wood Pigeon		
14/10/2016	3	Wood Pigeon	5	
14/10/2016	3	Wood Pigeon	5	
06/06/2017	3	Wood Pigeon		
15/09/2017	3	Wood Pigeon		
18/04/2017	4	Wood Pigeon	2	flying
09/05/2017	4	Wood Pigeon		
27/06/2017	4	Wood Pigeon		
10/08/2017	4	Wood Pigeon	3	Travelling
07/09/2017	4	Wood Pigeon		
15/11/2016	17	Wood Pigeon	34	
15/11/2016	17	Wood Pigeon	34	
16/04/2017	18	Wood Pigeon	1	flying
30/05/2017	18	Wood Pigeon	3	Flying over plantations
15/06/2017	18	Wood Pigeon		
20/07/2017	18	Wood Pigeon		
22/03/2017		Wood Pigeon	1	
22/03/2017		Wood Pigeon	1	
14/10/2016	1	Wren	1	
14/10/2016	1	Wren	1	
21/03/2017	1	Wren	1	
13/04/2017	1	Wren	1	singing
08/05/2017	1	Wren		
30/06/2017	1	Wren		
26/07/2017	1	Wren		
12/08/2017	1	Wren	2	Calling
20/09/2017	1	Wren		
13/10/2016	2	Wren	6	
13/10/2016	2	Wren	6	
21/02/2017	2	Wren	1	
28/04/2017	2	Wren		
16/06/2017	2	Wren		
19/07/2017	2	Wren		
20/07/2017	2	Wren		
06/09/2017	2	Wren		
14/10/2016	3	Wren	11	
14/10/2016	3	Wren	11	
16/01/2017	3	Wren	1	
16/01/2017	3	Wren	1	
17/02/2017	3	Wren	1	
17/02/2017	3	Wren	1	
13/04/2017	3	Wren		
08/05/2017	3	Wren		
06/06/2017	3	Wren		
18/07/2017	3	Wren		
27/08/2017	3	Wren		
12/09/2017	3	Wren		

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
04/07/2016	4	Wren	1	Heard calling
04/07/2016	4	Wren	1	Heard calling
11/08/2016	4	Wren	5	Territorial displays against juvenile robin
11/08/2016	4	Wren	5	Territorial displays against juvenile robin
23/11/2016	4	Wren	1	
23/11/2016	4	Wren	1	
19/01/2017	4	Wren	1	na
19/01/2017	4	Wren	1	na
30/05/2017	4	Wren		
25/07/2017	4	Wren		
10/08/2017	4	Wren	5	Calling
07/09/2017	4	Wren		
20/04/2016	17	Wren		Spp found on site
20/04/2016	17	Wren		Spp found on site
08/05/2016	17	Wren		Spp found on site
08/05/2016	17	Wren		Spp found on site
10/05/2016	18	Wren		Spp found on site
10/05/2016	18	Wren		Spp found on site
25/07/2016	18	Wren	2	Calling
25/07/2016	18	Wren	2	Calling
18/08/2016	18	Wren	8	3 juvenile present
18/08/2016	18	Wren	8	3 juvenile present
28/10/2016	18	Wren	5	
28/10/2016	18	Wren	5	
17/01/2017	18	Wren	1	
17/01/2017	18	Wren	1	
09/02/2017	18	Wren	1	
09/02/2017	18	Wren	1	
29/03/2017	18	Wren	4	
29/03/2017	18	Wren	4	
30/03/2017	18	Wren	1	
30/03/2017	18	Wren	1	
16/04/2017	18	Wren	2	singing
30/05/2017	18	Wren	3	Alarm calls
15/06/2017	18	Wren		
15/06/2017	18	Wren		
20/07/2017	18	Wren		
27/08/2017	18	Wren		
19/09/2017	18	Wren		
18/08/2016		Wren		

Table 16: Vantage Point Non-Target Species Data

Date	VP No.	Species	Est no. individuals (if recorded)	Notes
18/08/2016		Wren		
19/02/2017		Wren	1	
19/02/2017		Wren	1	
03/11/2015	1	Yellowhammer		flew to scrub and was foraging
03/11/2015	1	Yellowhammer		flew to scrub and was foraging
25/07/2016	18	Yellowhammer	1	Calling
25/07/2016	18	Yellowhammer	1	Calling
28/10/2016	18	Yellowhammer	2	
28/10/2016	18	Yellowhammer	2	

Table 20: Breeding Bird Survey Walkover Data

Map ref No.	Date	VP/Trans/Quad No.	Time Spotted	Species Name	Target Spp (N/Y)	No. of birds	Habitat & Activity	Comments
	10/05/2015		19:01:00	Cuckoo	N	1	Bird flushed from hedgerow and into field when I walked past. Was unable to fly however as it had a broken wing.	




Table 21: Brown & Shepherd Walkover Data

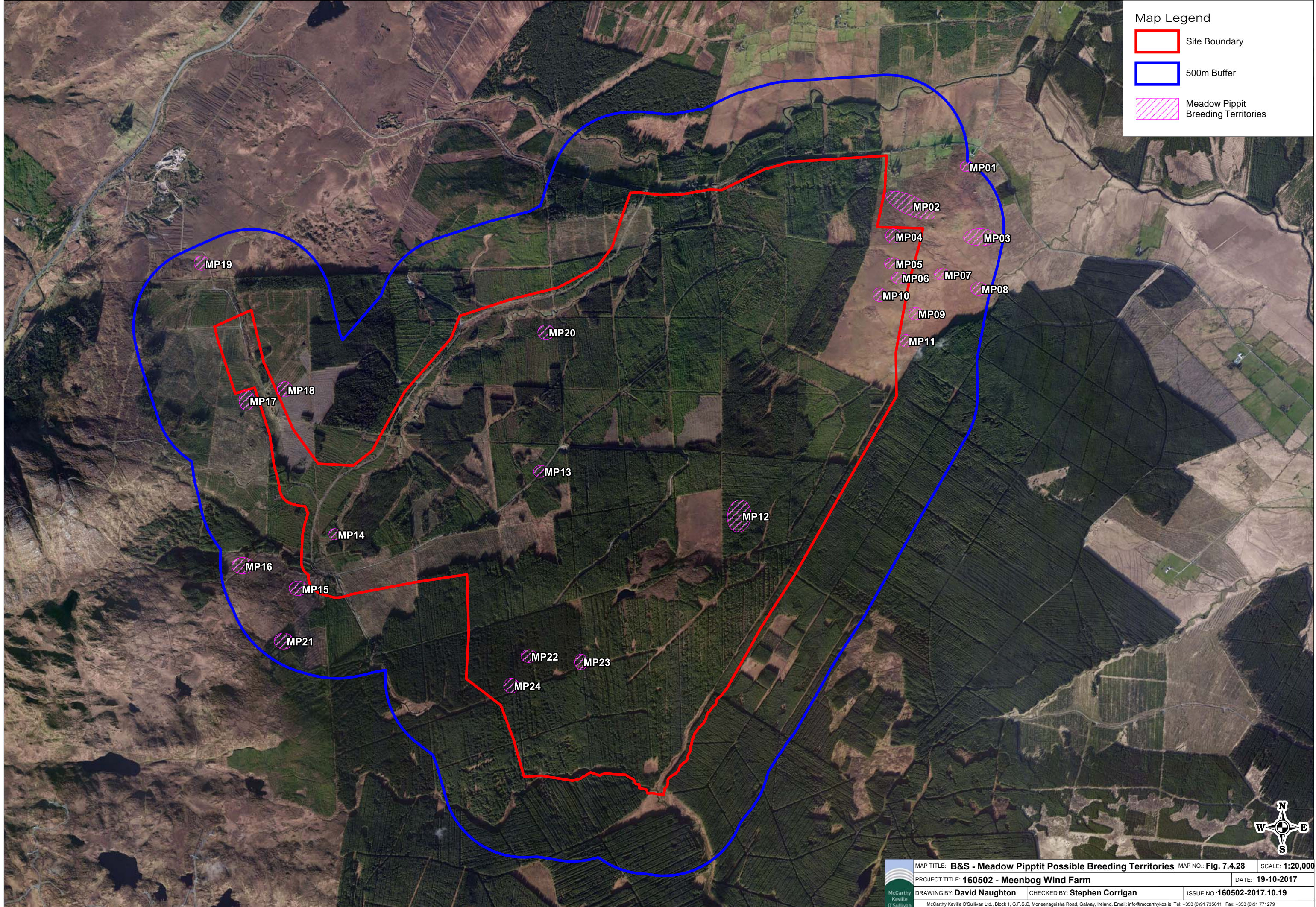
Breeding Territory Map Reference	Survey Date	VP/Trans/Quad No.	Flight Ref	Time of observation	Species	No. of birds	Sex/age	Habitat and Activity	GPS Coordinates	Breeding Status
	13/04/2016	5	5	09:50:00	Snipe	1			H 208393 388046	
	05/07/2016	14	2	10:10:00	Snipe	1			H 209686 387095	
	26/04/2017			17:33:00	Mallard	1	male	WD4, (Conifer plantation) travelling		#N/A
	27/04/2017			14:34:00	Mallard	4	adult males	FW1, (Eroding/upland rivers) flushed up, flew off west		#N/A
	12/07/2017			12:50:00	Mallard	1	Male			

Table 22: B&S Breeding Territories

Territory ID	Species	Activity April	Activity May	Activity June	Activity July
MP01	Meadow Pipit		Displaying		
MP02	Meadow Pipit	Alarm Call	Displaying		Alarm Call
MP03	Meadow Pipit		Alarm Call	Alarm Call	
MP04	Meadow Pipit				Alarm Call
MP05	Meadow Pipit		Displaying		
MP06	Meadow Pipit		Displaying		
MP07	Meadow Pipit		Displaying		
MP08	Meadow Pipit				Displaying
MP09	Meadow Pipit			Alarm Call	
MP10	Meadow Pipit				Alarm Call
MP11	Meadow Pipit			Alarm Call	
MP12	Meadow Pipit			Displaying/Alarm	
MP13	Meadow Pipit		Displaying		
MP14	Meadow Pipit		Alarm Call		
MP15	Meadow Pipit		Pair Alarm		
MP16	Meadow Pipit	2 Pairs Alarm			
MP17	Meadow Pipit				Displaying
MP18	Meadow Pipit				Pair Alarm Call
MP19	Meadow Pipit				Displaying
MP20	Meadow Pipit		Displaying		
MP21	Meadow Pipit				Three Alarm Calls
MP22	Meadow Pipit			Alarm Call	
MP23	Meadow Pipit				Alarm Call
MP24	Meadow Pipit				Displaying

Map Legend

-  Site Boundary
-  500m Buffer
-  Meadow Pippit Breeding Territories



MAP TITLE: B&S - Meadow Pippit Possible Breeding Territories	MAP NO.: Fig. 7.4.28	SCALE: 1:20,000
PROJECT TITLE: 160502 - Meenbog Wind Farm	DATE: 19-10-2017	
DRAWING BY: David Naughton	CHECKED BY: Stephen Corrigan	ISSUE NO.: 160502-2017.10.19
<small>McCarthy Keville O'Sullivan McCarthy Keville O'Sullivan Ltd., Block 1, G.F.S.C. Moneenageisha Road, Galway, Ireland. Email: info@mccarthykos.ie Tel: +353 (0)91 735611 Fax: +353 (0)91 771279</small>		

Table 23: Red-throated Diver Survey Data

Map Reference No.	Date	VP	Obs no.	Time of observation	Species Name	Number of birds	Habitat and Activity	Comments
RH101	18/07/2016	1	1	19:08:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL , (Lakes and ponds) Adult flying to nearby lough nasheeoge. Territorial call in flight. Off site. Forages on lake.	
RH102	18/07/2016	1	2	21:03:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL , (Lakes and ponds) Adult returning from lough nasheeoge to breeding site. Direct flight over blanket bog. Territorial call during flight. On landing this bird takes over brooding chick while the other adult forages on the lough.	
RH103	19/07/2016	1	4	07:32:00	Red-throated Diver	1	PB2, (Upland blanket bog) Adult leaving breeding site and flying over blanket bog off site before returning to breeding site. Territorial call in flight.	
RH104	19/07/2016	1	5	08:03:00	Red-throated Diver	1	PB2, (Upland blanket bog) Adult leaving breeding site on direct flight in w direction. Off site - Likely on foraging trip.	
RH105	26/07/2016	1	1	19:31:00	Red-throated Diver	1	PB2, (Upland blanket bog) Adult flying into breeding grounds with fish in bill. On landing it feeds it immediately to the chick (off site) (fl)	
RH106	26/07/2016	1	2	20:53:00	Red-throated Diver	1	PB2, (Upland blanket bog) Adults leaves breeding site in sw direction (off site) (fl)	
RH107	27/07/2016	1	3	06:51:00	Red-throated Diver	1	PB2, (Upland blanket bog) Adult flying into breeding site with fish in bill which it feeds to chick on landing (fl) (off site)	
RH108	27/07/2016	1	4	07:47:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL , (Lakes and ponds) Adult flying off breeding site (leaving chick alone) (off site) (fl)	
RH109	27/07/2016	1	5	07:58:00	Red-throated Diver	1	PB2, (Upland blanket bog) Adult returning with fish and feeding to chick on landing. (off site) (fl)	
RH110	27/07/2016	1	6	08:22:00	Red-throated Diver	1	PB2, (Upland blanket bog) Adult returning with fish and feeding to chick on landing. (off site) (fl)	
RH111	27/07/2016	1	7	08:33:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL , (Lakes and ponds) Adult leaves breeding site in w direction. (off site) (fl)	
	02/08/2016	1	1	19:11:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL , (Lakes and ponds) Adult flying in from w with fish and feeding to chick on landing. (off site)	
	02/08/2016	1	2	19:57:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL , (Lakes and ponds) Adult leaving lough (leaving chick alone) and flying w.	
	02/08/2016	1	3	21:08:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL , (Lakes and ponds) Adult flying in from feeding flight and feeding chick on arrival.	

Table 23: Red-throated Diver Survey Data

Map Reference No.	Date	VP	Obs no.	Time of observation	Species Name	Number of birds	Habitat and Activity	Comments
RH115	03/08/2016	1	4	06:06:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying w off breeding lough (leaving chick alone) (off site)	
RH116	03/08/2016	1	5	06:09:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying in from w and feeding chick on arrival. (off site)	
RH117	03/08/2016	1	6	06:38:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying w off breeding lough. (off site)	
RH118	03/08/2016	1	7	07:00:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying in from w and feeding chick on arrival (off site)	
RH119	03/08/2016	1	8	07:53:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying in from w and feeding chick on arrival (off site)	
RH120	03/08/2016	1	9	08:40:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying w off breeding lough. (off site)	
RH121	08/08/2016	1	1	18:53:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying in from e. non feeding flight - landing without fish for chick.	
RH122	08/08/2016	1	3	19:38:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying w. chick left alone (off site)	
RH123	08/08/2016	1	4	19:58:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying in from sw from feeding flight and feeding chick on arrival. (off site)	
RH124	08/08/2016	1	5	20:03:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying in from sw from non feeding flight. (off site)	
RH125	08/08/2016	1	6	20:28:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult leaving breeding site in w direction. (off site)	
RH126	08/08/2016	1	7	21:02:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying in from feeding flight and feeding chick on arrival. (off site)	
RH127	09/08/2016	1	9	06:41:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying in from feeding flight and feeding chick on arrival (both Adults on lough now) (off site)	
RH128	09/08/2016	1	10	07:03:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult leaving in w direction. (off site)	
RH129	09/08/2016	1	11	07:21:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult leaving in w direction (off site)	
RH130	09/08/2016	1	12	07:55:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying in from feedin flight and feeding chick on arrival (off site)	

Table 23: Red-throated Diver Survey Data

Map Reference No.	Date	VP	Obs no.	Time of observation	Species Name	Number of birds	Habitat and Activity	Comments
RH131	09/08/2016	1	13	08:32:00	Red-throated Diver	1	PB2, (Upland blanket bog) FL, (Lakes and ponds) Adult flying in from feeding flight and feeding chick on arrival (off site)	

Table 24: Winter Walkover Data

Map Reference No.	Survey Date	Season	VP/Trans/Quad No.	Time of observation	Species	Number of birds	Habitat and Activity	GPS
	25/10/2016	Non-breeding	WW01	09:30:00	Meadow Pipit	4	PB2, (Upland blanket bog) Calling and flying	
2001	25/10/2016	Non-breeding	WW01	09:30:00	Snipe	4	Flushed from wet marsh	
	08/11/2016	Non-breeding	WW01		Meadow Pipit	5	PB2, (Upland blanket bog)	
	08/11/2016	Non-breeding	WW01		Raven	2	PB2, (Upland blanket bog)	
2009	08/11/2016	Non-breeding	WW01		Snipe	1	PB2, (Upland blanket bog)	
	26/01/2017	Non-breeding		12:08:00	Snipe	1		H 209298 387336

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	17/05/2016	Lough Eske	1	Black-headed Gull	6		H					
Breeding	01/05/2017	Lough Eske	1	Black-headed Gull	12	Above Water		MAINLY ROOSTING ON SHORE AT ARDEEVIN				
Breeding	07/05/2016	Lough Eske	1	Common Gull	2		H					
Breeding	17/05/2016	Lough Eske	1	Common Gull	3		P					
Breeding	23/05/2016	Lough Eske	1	Common Gull	16		P					
Non-breeding	03/03/2017	Lough Eske	1	Common Gull	1	Terrestrial	Loafing	Loafing on rock		G	196424	83005
Non-breeding	14/03/2017	Lough Eske	1	Common Gull	2	Terrestrial	Loafing	Loafing in tree in island near hotel		G	196963	83079
Breeding	08/04/2017	Lough Eske	1	Common Gull	25	On Water		Breeders and non-breeders: At least two pairs prob. Nesting on islets, though likely more.				
Breeding	01/05/2017	Lough Eske	1	Common Gull	86	Above Water		MAINLY ROOSTING ON SHORE AT ARDEEVIN				
Breeding	13/05/2017	Lough Eske	1	Common Gull	4	Flying		MOBILE OVER LAKE IN SE AND SW				
Breeding	28/05/2017	Lough Eske	1	Common Gull	2	Above Water		ON ROCKY ISLETS, DIFFERENT LOCATIONS IN SE AND SW				
Breeding	17/05/2016	Lough Eske	1	Common Sandpiper	2		P					
Breeding	01/05/2017	Lough Eske	1	Common Sandpiper	4	Above Water		TERRITORIAL, 3 pairs				
Breeding	13/05/2017	Lough Eske	1	Common Sandpiper	2	Above Water	Feeding/Roosting	PAIR NEAR WEST SHORE / ISLANDS				
Breeding	28/05/2017	Lough Eske	1	Common Sandpiper	2	Above Water		SEPARATE BIRDS / PAIRS AT EAST AND SE OF LAKE				
Breeding	07/05/2016	Lough Eske	1	Cormorant	2		H					

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	23/05/2016	Lough Eske	1	Cormorant	1		U					
Breeding	05/08/2016	Lough Eske	1	Cormorant	1			Foraging on open water		G	197890	383165
Breeding	19/08/2016	Lough Eske	1	Cormorant	1			Roosting on island		G	197139	384822
Both-Overlap	10/09/2016	Lough Eske	1	Cormorant	1			Roosting on rocky islet		G	196957	383086
Both-Overlap	10/09/2016	Lough Eske	1	Cormorant	2			Roosting on rocks		G	197150	384822
Both-Overlap	23/09/2016	Lough Eske	1	Cormorant	1			Roosting on rocks		G	197208	382462
Both-Overlap	23/09/2016	Lough Eske	1	Cormorant	1			Roosting on rocky islet		G	198228	382758
Both-Overlap	23/09/2016	Lough Eske	1	Cormorant	2			Roosting on rocky island		G	196968	383083
Both-Overlap	23/09/2016	Lough Eske	1	Cormorant	3			Roosting on rocky island		G	197150	384822
Non-breeding	08/10/2016	Lough Eske	1	Cormorant	3			Roosting on rocky island		G	196957	383086
Non-breeding	08/10/2016	Lough Eske	1	Cormorant	3			Roosting on rocky island		G	197150	384822
Non-breeding	24/10/2016	Lough Eske	1	Cormorant	1			Loafing on island		G	196709	382126
Non-breeding	24/10/2016	Lough Eske	1	Cormorant	3			Roosting on rocky island		G	197150	384822
Non-breeding	09/11/2016	Lough Eske	1	Cormorant	3			Roosting on rocky island		G	197150	384822
Non-breeding	21/11/2016	Lough Eske	1	Cormorant	1			Roosting on rocky island		G	197150	384822
Non-breeding	21/11/2016	Lough Eske	1	Cormorant	3			Roosting on rocks in SW corner		G	196711	382121
Non-breeding	04/12/2016	Lough Eske	1	Cormorant	1			Roosting on rocks in SW corner		G	196711	382121
Non-breeding	04/12/2016	Lough Eske	1	Cormorant	1			Roosting on rocky island		G	196961	383084
Non-breeding	04/12/2016	Lough Eske	1	Cormorant	1			Foraging in N area of lake		G	197439	385460

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	04/12/2016	Lough Eske	1	Cormorant	2			Roosting on rocky island		G	197150	384822
Non-breeding	02/01/2017	Lough Eske	1	Cormorant	1			Foraging in water near Harvey's Point Hotel		G	196961	383084
Non-breeding	03/03/2017	Lough Eske	1	Cormorant	1	Terrestrial	Roosting	Roosting on rocky islet		G	197145	84806
Non-breeding	28/03/2017	Lough Eske	1	Cormorant	1	Terrestrial	Loafing	On rocky islet on N of lough		G	97153	84812
Breeding	08/04/2017	Lough Eske	1	Cormorant	2	On Water						
Breeding	01/05/2017	Lough Eske	1	Cormorant	3	On Water		Feeding or roosting on wooded islands				
Breeding	13/05/2017	Lough Eske	1	Cormorant	1	On Water	Feeding/Roosting	Feeding				
Breeding	28/05/2017	Lough Eske	1	Cormorant	1	Flying						
Non-breeding	10/08/2017	Lough Eske	1	Cormorant	1	On Water	Feeding	Foraging on water near Harvey's Point Hotel		G	96736	82795
Non-breeding	29/08/2017	Lough Eske	1	Cormorant	1	Terrestrial	Roosting	Roosting in tree on NW edge		G	96741	84638
Non-breeding	29/08/2017	Lough Eske	1	Cormorant	11	Terrestrial	Roosting	Roosting on islet in N of lake		G	97134	84823
Both Overlap	04/09/2017	Lough Eske	1	Cormorant	6			Roosting on rock		G	196900	383100
Both Overlap	04/09/2017	Lough Eske	1	Cormorant	12			All perched in oak tree at lakes edge		G	196700	384600
Both Overlap	22/09/2017	Lough Eske	1	Cormorant	13			All roosting in oak tree		G	196691	383923
Non-breeding	09/11/2016	Lough Eske	1	Goldeneye	1			Preening		G	196446	383122
Non-breeding	31/01/2017	Lough Eske	1	Goldeneye	2			Roosting in reeds on W fringes		G	196676	383990
Non-breeding	31/01/2017	Lough Eske	1	Goldeneye	2			Roosting in reeds on W fringes		G	196676	383990

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	19/08/2016	Lough Eske	1	Great Black-backed Gull	1			Loafing on island		G	196461	382739
Non-breeding	24/10/2016	Lough Eske	1	Great Black-backed Gull	1			Loafing on island		G	196709	382126
Breeding	17/05/2016	Lough Eske	1	Great Crested Grebe	1		H					
Non-breeding	28/03/2017	Lough Eske	1	Great Crested Grebe	1	On Water	Feeding	Diving off W fringe of lough		G	97012	84393
Breeding	01/05/2017	Lough Eske	1	Great Crested Grebe	2	On Water		Two pairs. Prob. Breeding				
Breeding	13/05/2017	Lough Eske	1	Great Crested Grebe	1	On Water	Feeding/Roosting					
Breeding	13/04/2016	Lough Eske	1	Great Northern Diver	2							
Non-breeding	19/12/2016	Lough Eske	1	Great Northern Diver	1			Foraging in SW area of lake		G	196405	382472
Non-breeding	02/01/2017	Lough Eske	1	Great Northern Diver	1			Foraging in SW area of lake		G	196486	382698
Non-breeding	17/01/2017	Lough Eske	1	Great Northern Diver	1			Preening in open water		G	197428	383189
Non-breeding	31/01/2017	Lough Eske	1	Great Northern Diver	1			On water in SW corner of lough		G	196631	382090
Non-breeding	31/01/2017	Lough Eske	1	Great Northern Diver	1			On water in SW corner of lough		G	196631	382090
Non-breeding	14/02/2017	Lough Eske	1	Great Northern Diver	1	On Water	Feeding	Resting on water near S edge		G	197206	82709
Non-breeding	03/03/2017	Lough Eske	1	Great Northern Diver	1	On Water	Feeding	Feeding near Harvey's Point Hotel		G	196649	82905
Breeding	08/04/2017	Lough Eske	1	Great Northern Diver	1	On Water		In late winter / non-breeding plummage				
Breeding	01/05/2017	Lough Eske	1	Great Northern Diver	1	On Water		Seen on last visit; now changing plummage, in transition to breeding plummage				

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	13/05/2017	Lough Eske	1	Great Northern Diver	1	On Water	Feeding/Roosting	PRESUMED SAME BIRD AS RECORDED ON PREVIOUS VISIT, NOW IN SUMMER PLUMMAGE				
Breeding	07/05/2016	Lough Eske	1	Grey Heron	1		H					
Breeding	17/05/2016	Lough Eske	1	Grey Heron	2		H					
Breeding	05/08/2016	Lough Eske	1	Grey Heron	1			Foraging along water's edge		G	198031	382650
Non-breeding	24/10/2016	Lough Eske	1	Grey Heron	1			Flew along SE lake shore and landed on peninsula		G	197498	382380
Non-breeding	02/01/2017	Lough Eske	1	Grey Heron	1			Hunting in reeds near Harvey's Point Hotel		G	196437	383101
Breeding	08/04/2017	Lough Eske	1	Grey Heron	3	Above Water		At bay shore / exit of River Eske				
Breeding	01/05/2017	Lough Eske	1	Grey Heron	1	Above Water		MAINLY ROOSTING ON SHORE AT ARDEEVIN				
Both Overlap	04/09/2017	Lough Eske	1	Grey Heron	1			Hunting at edge		G	197300	385700
Both Overlap	22/09/2017	Lough Eske	1	Grey Heron	2			Hunting		G	197371	385403
Non-breeding	14/03/2017	Lough Eske	1	Herring Gull	2	Terrestrial	Loafing	Loafing on stone jetty by hotel		G	196570	83002
Breeding	08/04/2017	Lough Eske	1	Lesser Black-backed Gull	1	Flying		Possible one of breeding pair				
Breeding	08/04/2017	Lough Eske	1	Lesser Black-backed Gull	2	Above Water		on islet / rock. Probably breeding				
Breeding	01/05/2017	Lough Eske	1	Lesser Black-backed Gull	4	Above Water						
Breeding	13/05/2017	Lough Eske	1	Lesser Black-backed Gull	1	Flying		flying over west shore area				
Breeding	13/05/2017	Lough Eske	1	Lesser Black-backed Gull	1	Above Water	Feeding/Roosting	on islet / rock				

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	28/05/2017	Lough Eske	1	Lesser Black-backed Gull	1	Flying		west side				
Breeding	17/05/2016	Lough Eske	1	Little Grebe	2		P					
Breeding	23/05/2016	Lough Eske	1	Little Grebe	2		P					
Breeding	05/08/2016	Lough Eske	1	Little Grebe	3			On water by Harvey's Point Hotel		G	196369	382905
Breeding	19/08/2016	Lough Eske	1	Little Grebe	2			Foraging in open water		G	196501	382873
Breeding	19/08/2016	Lough Eske	1	Little Grebe	2			Foraging near lake shore		G	196609	382376
Both-Overlap	10/09/2016	Lough Eske	1	Little Grebe	1			Foraging near water's edge		G	196643	382425
Both-Overlap	10/09/2016	Lough Eske	1	Little Grebe	1			Foraging in open water		G	196760	383062
Both-Overlap	10/09/2016	Lough Eske	1	Little Grebe	2			Pair foraging		G	196513	383038
Both-Overlap	10/09/2016	Lough Eske	1	Little Grebe	2			Foraging at North edge of lake		G	197304	385717
Both-Overlap	10/09/2016	Lough Eske	1	Little Grebe	2			Foraging along lake shore		G	198115	382520
Both-Overlap	23/09/2016	Lough Eske	1	Little Grebe	1			Foraging along lake shore		G	196410	382952
Both-Overlap	23/09/2016	Lough Eske	1	Little Grebe	1			Diving in SW corner of lough		G	196454	382364
Both-Overlap	23/09/2016	Lough Eske	1	Little Grebe	1			Foraging close to Harvey's Point		G	196463	383090
Both-Overlap	23/09/2016	Lough Eske	1	Little Grebe	1			Foraging along W lake shore		G	196808	384002
Non-breeding	08/10/2016	Lough Eske	1	Little Grebe	3			Foraging along lake shore		G	196416	382971
Non-breeding	24/10/2016	Lough Eske	1	Little Grebe	6			Foraging by Harvey's Point Hotel		G	196452	383076
Non-breeding	09/11/2016	Lough Eske	1	Little Grebe	1			Foraging along lake shore by Harvey's Point Hotel		G	196537	382964

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	09/11/2016	Lough Eske	1	Little Grebe	3			Foraging along lake shore by Harvey's Point Hotel		G	196409	383107
Non-breeding	19/12/2016	Lough Eske	1	Little Grebe	1			Foraging in SW area of lake		G	196344	382764
Non-breeding	02/01/2017	Lough Eske	1	Little Grebe	1			Diving in SW corner of lough		G	196392	382433
Non-breeding	31/01/2017	Lough Eske	1	Little Grebe	2			Foraging along fringe at Harvey's Point Hotel		G	196467	383009
Non-breeding	31/01/2017	Lough Eske	1	Little Grebe	2			Foraging along fringe at Harvey's Point Hotel		G	196467	383009
Non-breeding	14/02/2017	Lough Eske	1	Little Grebe	2	On Water	Feeding	Feeding near Harvey's Point Hotel		G	196344	383021
Non-breeding	03/03/2017	Lough Eske	1	Little Grebe	2	On Water	Feeding	Feeding along reeded fringes at Harvey's Point Hotel		G	196463	83090
Non-breeding	28/03/2017	Lough Eske	1	Little Grebe	1	On Water	Feeding	Feeding by Harvey's Point Hotel		G	96502	83043
Breeding	13/05/2017	Lough Eske	1	Little Grebe	2	On Water	Feeding/Roosting	2 SEPARATELY AT SE AND W OF LAKE				
Breeding	28/05/2017	Lough Eske	1	Little Grebe	9	On Water		2 at Ardeevin (E/SE); 6 in bay S of Harvey's point (SW); 1 in west part				
Both Overlap	04/09/2017	Lough Eske	1	Little Grebe	2			Swimming		G	197300	385700
Both Overlap	04/09/2017	Lough Eske	1	Little Grebe	4			Swimming		G	196800	383900
Both Overlap	22/09/2017	Lough Eske	1	Little Grebe	3			Swimming loose flock		G	197371	385403
Both Overlap	22/09/2017	Lough Eske	1	Little Grebe	6			Swimming loose flock		G	196691	383923
Breeding	13/04/2016	Lough Eske	1	Mallard	4							
Breeding	07/05/2016	Lough Eske	1	Mallard	11		3 (P)					
Breeding	17/05/2016	Lough Eske	1	Mallard	7		FL	FEMALE WITH 12 CHICKS				

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	23/05/2016	Lough Eske	1	Mallard	8		P					
Breeding	05/08/2016	Lough Eske	1	Mallard	1			Resting on water		G	198004	383033
Breeding	05/08/2016	Lough Eske	1	Mallard	13			On water by Harvey's Point Hotel		G	196459	383104
Breeding	19/08/2016	Lough Eske	1	Mallard	14			On water by Harvey's Point Hotel		G	196549	383028
Both-Overlap	10/09/2016	Lough Eske	1	Mallard	1			Feeding in reeded area		G	196667	383957
Both-Overlap	10/09/2016	Lough Eske	1	Mallard	16			Feeding and roosting along rocks by Harvey's Point		G	196513	383038
Both-Overlap	23/09/2016	Lough Eske	1	Mallard	7			Feeding and roosting along rocks by Harvey's Point		G	196475	383101
Non-breeding	08/10/2016	Lough Eske	1	Mallard	1			Foraging alongside MS		G	196741	383913
Non-breeding	08/10/2016	Lough Eske	1	Mallard	9			Roosting on lake shore by Harvey's Point Hotel		G	196480	383060
Non-breeding	24/10/2016	Lough Eske	1	Mallard	1			Roosting on lake shore by Harvey's Point Hotel		G	196527	383054
Non-breeding	09/11/2016	Lough Eske	1	Mallard	1			Foraging along lake shore by Harvey's Point Hotel		G	196409	383107
Non-breeding	09/11/2016	Lough Eske	1	Mallard	3			Foraging along lake shore by Harvey's Point Hotel		G	196547	383026
Non-breeding	21/11/2016	Lough Eske	1	Mallard	14			Foraging along fringe at Harvey's Point Hotel		G	196472	383094
Non-breeding	04/12/2016	Lough Eske	1	Mallard	4			Loafing around Harvey's Point Hotel		G	196402	383013
Non-breeding	19/12/2016	Lough Eske	1	Mallard	36			Loafing around Harvey's Point Hotel		G	196560	382958
Non-breeding	02/01/2017	Lough Eske	1	Mallard	2			Flushed from reeds on western shoreline		G	196897	384304

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	17/01/2017	Lough Eske	1	Mallard	2			Loafing around Harvey's Point Hotel		G	196370	382947
Non-breeding	17/01/2017	Lough Eske	1	Mallard	2			Foraging in reeds on W shoreline		G	196873	384306
Non-breeding	17/01/2017	Lough Eske	1	Mallard	3			Loafing around Harvey's Point Hotel		G	196479	383065
Non-breeding	17/01/2017	Lough Eske	1	Mallard	20			Loafing around Harvey's Point Hotel		G	196555	383011
Non-breeding	31/01/2017	Lough Eske	1	Mallard	9			Loafing around Harvey's Point Hotel		G	196581	382951
Non-breeding	31/01/2017	Lough Eske	1	Mallard	9			Loafing around Harvey's Point Hotel		G	196581	382951
Non-breeding	14/02/2017	Lough Eske	1	Mallard	2	On Water	Feeding	Feeding near Harvey's Point Hotel		G	196417	383100
Non-breeding	14/02/2017	Lough Eske	1	Mallard	7	On Water	Loafing	Loafing adjacent to Harvey's Point		G	196528	383039
Non-breeding	03/03/2017	Lough Eske	1	Mallard	14	On Water	Loafing	Resting near Harvey's Point Hotel		G	196524	83038
Non-breeding	28/03/2017	Lough Eske	1	Mallard	2	On Water	Feeding	Feeding by Harvey's Point Hotel		G	96502	83043
Non-breeding	28/03/2017	Lough Eske	1	Mallard	3	Terrestrial	Roosting	Roosting on rocky edge of island		G	97213	82557
Breeding	08/04/2017	Lough Eske	1	Mallard	5	On Water		Prob breeding				
Breeding	01/05/2017	Lough Eske	1	Mallard	7	On Water		mainly SE and SW of lake				
Breeding	01/05/2017	Lough Eske	1	Mallard	7	On Water						
Breeding	01/05/2017	Lough Eske	1	Mallard	7	On Water						
Breeding	01/05/2017	Lough Eske	1	Mallard	7	On Water						

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	13/05/2017	Lough Eske	1	Mallard	8	On Water		1 FEMALE WITH BROOD, 1 MALE IN W, 1 PAIR AND 2 MALES IN SW, 2 MALES AT RIVER ESKE BRIDGE				
Breeding	28/05/2017	Lough Eske	1	Mallard	21	On Water		Most birds concentrated in bay just south of Harveys Point (hotel). Several adult females with broods of young. Also at Ardeevin on SE side of lake.				
Non-breeding	10/08/2017	Lough Eske	1	Mallard	3	Terrestrial	Roosting	Roosting on rocks at Harvey's Point		G	196443	383125
Non-breeding	29/08/2017	Lough Eske	1	Mallard	6	Terrestrial	Roosting	Roosting on rocks at Harvey's Point		G	96443	83125
Both Overlap	04/09/2017	Lough Eske	1	Mallard	15			Around Harveys point		G	196100	382900
Both Overlap	22/09/2017	Lough Eske	1	Mallard	11			Roosting and swimming		G	196331	382703
Breeding	17/05/2016	Lough Eske	1	Moorhen	1		H					
Breeding	13/04/2016	Lough Eske	1	Mute Swan	5							
Breeding	17/05/2016	Lough Eske	1	Mute Swan	3		P					
Breeding	23/05/2016	Lough Eske	1	Mute Swan	6		P					
Breeding	05/08/2016	Lough Eske	1	Mute Swan	2			On water by Harvey's Point Hotel		G	196480	383076
Breeding	19/08/2016	Lough Eske	1	Mute Swan	2			On water by Harvey's Point Hotel		G	196553	382993
Both-Overlap	23/09/2016	Lough Eske	1	Mute Swan	2			Foraging along lake shore by Harvey's Point Hotel		G	196537	383022
Both-Overlap	23/09/2016	Lough Eske	1	Mute Swan	3			Foraging in reeded area		G	196752	383866

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	08/10/2016	Lough Eske	1	Mute Swan	1			Foraging in reeds on W shoreline		G	196863	384398
Non-breeding	08/10/2016	Lough Eske	1	Mute Swan	1			Loafing in open water		G	196909	382966
Non-breeding	08/10/2016	Lough Eske	1	Mute Swan	1			Loafing in open water		G	197069	382769
Non-breeding	08/10/2016	Lough Eske	1	Mute Swan	1			Loafing in open water		G	197210	383045
Non-breeding	08/10/2016	Lough Eske	1	Mute Swan	2			Foraging in reeded area		G	196710	383885
Non-breeding	24/10/2016	Lough Eske	1	Mute Swan	2			Loafing on water near Harvey's Point Hotel		G	196646	382977
Non-breeding	09/11/2016	Lough Eske	1	Mute Swan	2			Roosting on water by Harvey's Point Hotel		G	196662	383001
Non-breeding	09/11/2016	Lough Eske	1	Mute Swan	2			Foraging in reeded area		G	196888	384340
Non-breeding	09/11/2016	Lough Eske	1	Mute Swan	2			Foraging in reeds on E shore		G	197896	383429
Non-breeding	21/11/2016	Lough Eske	1	Mute Swan	2			Loafing around Harvey's Point Hotel		G	196539	383031
Non-breeding	19/12/2016	Lough Eske	1	Mute Swan	2			Loafing around Harvey's Point Hotel		G	196757	383104
Non-breeding	02/01/2017	Lough Eske	1	Mute Swan	2			Pair loafing near Harvey's Point Hotel		G	196741	383101
Non-breeding	02/01/2017	Lough Eske	1	Mute Swan	2			Pair foraging in SE corner of lough		G	198042	382664
Non-breeding	17/01/2017	Lough Eske	1	Mute Swan	2			Loafing around Harvey's Point Hotel		G	196695	383055
Non-breeding	31/01/2017	Lough Eske	1	Mute Swan	2			Loafing around Harvey's Point Hotel		G	196647	383000
Non-breeding	31/01/2017	Lough Eske	1	Mute Swan	2			Loafing around Harvey's Point Hotel		G	196647	383000
Non-breeding	14/02/2017	Lough Eske	1	Mute Swan	1	On Water	Feeding	Feeding on fringes of S edge		G	197001	82328

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	14/02/2017	Lough Eske	1	Mute Swan	2	On Water	Loafing	Loafing adjacent to Harvey's Point		G	196644	82955
Non-breeding	03/03/2017	Lough Eske	1	Mute Swan	1	On Water	Loafing	Resting near Harvey's Point Hotel		G	196524	83038
Non-breeding	03/03/2017	Lough Eske	1	Mute Swan	1	On Water	Feeding	Feeding in SE corner of lake		G	198007	82576
Non-breeding	03/03/2017	Lough Eske	1	Mute Swan	2	On Water	Feeding	Feeding along wooded fringe in NW		G	196949	84887
Non-breeding	14/03/2017	Lough Eske	1	Mute Swan	2	On Water	Feeding	Feeding by Harvey's Point Hotel		G	196514	82985
Non-breeding	14/03/2017	Lough Eske	1	Mute Swan	2	On Water	Feeding	Feeding along reeded fringe on S shoreline		G	197505	82361
Non-breeding	28/03/2017	Lough Eske	1	Mute Swan	1	On Water	Feeding	Feeding on fringes of S edge		G	97882	82603
Non-breeding	28/03/2017	Lough Eske	1	Mute Swan	1	On Water	Feeding	Feeding in wooded bay in NW of lough		G	96575	85041
Non-breeding	28/03/2017	Lough Eske	1	Mute Swan	2	On Water	Feeding	Feeding by Harvey's Point Hotel		G	96416	83098
Non-breeding	28/03/2017	Lough Eske	1	Mute Swan	2	On Water	Feeding	Feeding in reeded bay N of hotel		G	96647	83940
Breeding	08/04/2017	Lough Eske	1	Mute Swan	4	On Water		Two pairs. Prob. Breeding				
Breeding	01/05/2017	Lough Eske	1	Mute Swan	4	On Water						
Breeding	13/05/2017	Lough Eske	1	Mute Swan	4	On Water		2 BREEDING PAIRS (POSSIBLY 3)				
Breeding	28/05/2017	Lough Eske	1	Mute Swan	2	On Water	Feeding/Roosting	IN SW OF LAKE				
Non-breeding	29/08/2017	Lough Eske	1	Mute Swan	2	On Water	Loafing	Swimming near Harvey's Point Hotel		G	97088	82965
Both Overlap	04/09/2017	Lough Eske	1	Mute Swan	4			Around Harveys point	Adults	G	196100	382900
Non-breeding	11/09/2017	Lough Eske	1	Mute Swan	2	On Water	Feeding	Foraging near Harvey's Point Hotel		G	196469	383093

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Both Overlap	22/09/2017	Lough Eske	1	Mute Swan	3			Swimming	Adult	G	196331	382703
Both-Overlap	10/09/2016	Lough Eske	1	Pallas's Leaf Warbler	1			Roosting on small grass-covered rock, close to Harvey's Point Hotel		G	196331	382954
Both Overlap	04/09/2017	Lough Eske	1	Teal	1			Swimming	Female	G	196100	382900
Non-breeding	31/01/2017	Lough Eske	1	Tufted Duck	1			Preening in same area as GN		G	196658	383977
Non-breeding	31/01/2017	Lough Eske	1	Tufted Duck	1			Preening in same area as GN		G	196658	383977
Breeding	07/05/2016	Lough Eske	1	Turtle Dove	2		P					
Breeding	13/04/2016	Lough Eske	1	Whooper Swan	1							
Breeding	07/05/2016	Lough Eske	1	Whooper Swan	2		P					
Non-breeding	03/03/2017	Lough Eske	1	Whooper Swan	2	On Water	Feeding	Feeding in SE corner of lake		G	198048	82650
Non-breeding	14/03/2017	Lough Eske	1	Whooper Swan	6	On Water	Feeding	Alert before starting to forage in SE corner		G	198069	82636
Non-breeding	29/08/2017	Lough Craig	2	Cormorant	2	On Water	Feeding	Foraging in NE of pond		H	00241	82484
Both Overlap	04/09/2017	Lough Craig	2	Cormorant	2			Swimming		H	200170	382452
Both Overlap	22/09/2017	Lough Craig	2	Cormorant	1			Swimming		H	200172	382453
Both-Overlap	10/09/2016	Lough Craig	2	Grey Heron	1			Foraging from lake shore		H	200120	382427
Breeding	10/05/2016	Lough Craig	2	Little Grebe	1		H					
Breeding	23/05/2016	Lough Craig	2	Little Grebe	2		P					
Breeding	07/04/2017	Lough Craig	2	Mallard	2	On Water		PAIR				

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	28/04/2017	Lough Craig	2	Mallard	2	On Water		PAIR				
Non-breeding	10/08/2017	Lough Craig	2	Mallard	4	On Water	Roosting	Roosting at N edge of pond		H	00250	82519
Breeding	18/05/2016	Lough Craig	2	Nightingale								
Breeding	19/08/2016	Cullionboy Lough	3	Cormorant	1			Roosting on N edge of lake		G	199861	382087
Both Overlap	04/09/2017	Cullionboy Lough	3	Cormorant	2			Swimming		G	199876	382006
Both Overlap	22/09/2017	Cullionboy Lough	3	Cormorant	1			Swimming		G	199892	381908
Non-breeding	24/10/2016	Cullionboy Lough	3	Goldeneye	1			Foraging in southern area of lough		G	199838	381903
Non-breeding	21/11/2016	Cullionboy Lough	3	Goldeneye	1			Foraging on lough		G	199852	381976
Breeding	10/05/2016	Cullionboy Lough	3	Grey Heron	1		H					
Both Overlap	04/09/2017	Cullionboy Lough	3	Grey Heron	1			Hunting at edge		G	199850	382112
Breeding	18/05/2016	Cullionboy Lough	3	Little Grebe	1		H					
Breeding	23/05/2016	Cullionboy Lough	3	Little Grebe	1		H					
Breeding	05/08/2016	Cullionboy Lough	3	Little Grebe	1			Resting on water		G	199862	381889
Breeding	05/08/2016	Cullionboy Lough	3	Little Grebe	1			Resting on water		G	199917	382044
Breeding	19/08/2016	Cullionboy Lough	3	Little Grebe	1			Foraging on water		G	199883	381866
Breeding	19/08/2016	Cullionboy Lough	3	Little Grebe	1			Foraging on water		G	199910	382044
Both-Overlap	10/09/2016	Cullionboy Lough	3	Little Grebe	1			Foraging in open water		G	199873	381897
Non-breeding	19/12/2016	Cullionboy Lough	3	Little Grebe	1			Foraging on lough		G	199835	381919
Breeding	28/04/2017	Cullionboy Lough	3	Little Grebe	2	On Water		FEEDING, DIVING				
Breeding	10/05/2016	Cullionboy Lough	3	Mallard	2		P					
Breeding	18/05/2016	Cullionboy Lough	3	Mallard	1		H					

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	08/10/2016	Cullionboy Lough	3	Mallard	2			Flushed from water and circled over lough at 10-15m		G	199892	381969
Breeding	28/04/2017	Cullionboy Lough	3	Teal	1	On Water						
Breeding	10/05/2017	Cullionboy Lough	3	Teal	2	On Water						
Breeding	18/05/2016	Lough Atlieve	4	Common Sandpiper	2		P					
Breeding	28/04/2017	Lough Atlieve	4	Mallard	1	On Water		MALE MA				
Breeding	10/05/2017	Lough Atlieve	4	Mallard	1			Adult Female with brood of young				
Breeding	10/05/2016	Lough Slug	5	Common Sandpiper	2		P					
Breeding	18/05/2016	Lough Slug	5	Common Sandpiper	2		P					
Breeding	23/05/2016	Lough Slug	5	Common Sandpiper	1		H					
Both Overlap	05/09/2017	Lough Slug	5	Grey Heron	1			Hunting at edge		H	203013	381930
Breeding	10/05/2016	Lough Slug	5	Lesser Black-backed Gull	10		FO					
Breeding	23/05/2016	Lough Slug	5	Mallard	1		F					
Breeding	07/04/2017	Lough Slug	5	Mallard	1	On Water		MALE MA				
Breeding	10/05/2017	Lough Golagh (North)	6	Common Sandpiper	2	Above Water		PAIR ON TERRITORY, islet				

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	26/05/2017	Lough Golagh (North)	6	Common Sandpiper	2	Above Water		PAIR ON TERRITORY, islet				
Breeding	10/05/2016	Lough Golagh (North)	6	Cormorant	1		H					
Breeding	18/05/2016	Lough Golagh (North)	6	Cormorant	1							
Breeding	23/05/2016	Lough Golagh (North)	6	Cormorant	1		U					
Breeding	11/06/2016	Lough Golagh (North)	6	Cormorant	1			Roosting on rocks		H	204174	382636
Non-breeding	12/03/2017	Lough Golagh (North)	6	Golden Plover	18	Terrestrial	Roosting	Roosting on bog S OF Lough Golagh		H	204219	382276
Breeding	06/08/2016	Lough Golagh (North)	6	Grey Heron	1			Flushed from water's edge and landed on S side of lake		H	203954	382670
Non-breeding	01/01/2017	Lough Golagh (North)	6	Grey Heron	1			Flew over bog at 1-4m, heading in the direction of lake 232		H	204651	382462
Non-breeding	06/11/2016	Lough Golagh (North)	6	Greylag Goose	5			Landed briefly on lake after flying in from the S. Departure not observed due to terrain.		H	204252	382692
Breeding	23/05/2016	Lough Golagh (North)	6	Mallard	1		H					
Both-Overlap	11/09/2016	Lough Golagh (North)	6	Mallard	1			Loafing in open water		H	204016	382813
Breeding	10/05/2017	Lough Golagh (North)	6	Mallard	1	On Water		Male in bay near shore, west side				
Non-breeding	12/02/2017	Lough Golagh (North)	6	Snipe	2	Flying	Flying	Flushed from bog on slopes of lough				

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	28/04/2017	Lough Golagh (North)	6	Teal	2	On Water	FEEDING	where stream exits lake to culvert at WF road. Pair Teal feeding, flew up and onto L. Golagh				
Breeding	10/05/2017	Lough Nagoppoge	7	Mallard	2	On Water	FEEDING	2 ADULTS WITH BROOD OF YOUNG				
Breeding	26/05/2017	Lough Nichan	8	Mallard	1	Above Water	ROOSTING	ONLY MALE SEEN ON BANK (SENTRY-LIKE)				
Non-breeding	12/03/2017	Barnesmore	9	Snipe	1	On Water	Flying	Flushed from bog		H	204935	83113
Non-breeding	26/03/2017	Barnesmore	9	Snipe	1	Terrestrial	Flying	Flushed from bog		H	5234	82744
Non-breeding	26/03/2017	Barnesmore	9	Snipe	1	Terrestrial	Flying	Flushed from bog		H	5051	83141
Non-breeding	18/12/2016	Meenabrock Lough	10	Golden Plover	42			Roosting flock flushed from bog between lakes, flying around location before heading NE; 0-40m, 34 seconds		H	205231	382726
Non-breeding	01/01/2017	Meenabrock Lough	10	Golden Plover	14			Flock roosting on bog between the two lakes, flying N at 0-1m in to head wind		H	205179	382766
Non-breeding	12/02/2017	Meenabrock Lough	10	Golden Plover	60	Flying	Flying	Flew up from bog, circling then flew NE				
Non-breeding	01/01/2017	Meenabrock Lough	10	Greater White-fronted Goose	18			Flushed from west of 2 lakes, circling up in stiff breeze before flying E at 50-80m		H	205038	382735
Non-breeding	12/03/2017	Meenabrock Lough	10	Mallard	2	On Water	Flying	Flushed of lough, landing briefly before heading N		H	205024	82652

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	07/04/2017	Meenabrock Lough	10	Red Grouse	1	Terrestrial		PUT UP WALKING; RG DROPPINGS PILES				
Non-breeding	18/12/2016	Meenabrock Lough	10	Snipe	1			Flushed from ground while walking up to 464, flying S at 5-10m		H	204791	382567
Breeding	28/04/2017	Meenabrock Lough	10	Snipe	1	Terrestrial		PUT UP WALKING; RG DROPPINGS PILES				
Breeding	10/05/2016	Loughnaweelagh	11	Common Sandpiper	2		P					
Breeding	18/05/2016	Loughnaweelagh	11	Common Sandpiper	2		P					
Breeding	28/04/2017	Loughnaweelagh	11	Common Sandpiper	2	Above Water		PAIR				
Breeding	10/05/2017	Loughnaweelagh	11	Common Sandpiper	2	Above Water		Pair on islet, territorial, vocal				
Non-breeding	23/10/2016	Loughnaweelagh	11	Cormorant	1			Foraging on open water		H	205170	383092
Non-breeding	29/01/2017	Loughnaweelagh	11	Golden Plover	2			Flushed from bog		H	205019	382871
Both Overlap	05/09/2017	Loughnaweelagh	11	Grey Heron	1			Hunting at edge		H	205147	383178
Breeding	07/04/2017	Loughnaweelagh	11	Mallard	2	On Water						
Breeding	28/04/2017	Loughnaweelagh	11	Mallard	2	On Water		PAIR				
Non-breeding	29/01/2017	Loughnaweelagh	11	Snipe	1			Flushed from edge of track		H	204976	383093
Breeding	28/04/2017	Loughnaweelagh	11	Snipe	2	Terrestrial	FEEDING	ON BOG ADJACENT TO LAKE, PUT UP WALKING				

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	28/04/2017	Loughnaweelagh	11	Teal	2	On Water		PAIR				
Breeding	10/05/2016	Lough Nabrackboy	14	Common Sandpiper	2		P					
Breeding	18/05/2016	Lough Nabrackboy	14	Common Sandpiper	2		P					
Non-breeding	29/01/2017	Lough Innaghacho	18	Golden Plover	1			Flushed from bog		H	205043	383739
Breeding	13/05/2017	Lough Carn	19	Common Sandpiper	2	Above Water		PAIR ON TERRITORY				
Breeding	28/05/2017	Lough Carn	19	Common Sandpiper	2	Above Water		PAIR ON TERRITORY				
Breeding	28/04/2017	Lough Carn	19	Mallard	2	On Water						
Breeding	17/05/2016	Lough Mourne	20	Common Gull	2		H					
Breeding	07/05/2016	Lough Mourne	20	Common Sandpiper	6		3 (P)					
Breeding	17/05/2016	Lough Mourne	20	Common Sandpiper	5		4(P)					
Breeding	28/04/2017	Lough Mourne	20	Common Sandpiper	6	Above Water		TERRITORIAL, 3 pairs				
Breeding	13/05/2017	Lough Mourne	20	Common Sandpiper	4	Above Water		TERRITORIAL, 2 pairs				
Breeding	28/05/2017	Lough Mourne	20	Common Sandpiper	4	Above Water		Two pairs. Territorial, vocal				
Breeding	17/05/2016	Lough Mourne	20	Cormorant	1							
Breeding	04/08/2016	Lough Mourne	20	Cormorant	1			Drying wings on rocks		H	206422	389513
Non-breeding	08/10/2016	Lough Mourne	20	Cormorant	1			Loafing on island		H	206420	389515
Non-breeding	02/01/2017	Lough Mourne	20	Cormorant	1			Loafing on rocky island		H	206423	389515
Non-breeding	20/01/2017	Lough Mourne	20	Cormorant	1			Resting on rocky island		H	206420	389515

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	31/01/2017	Lough Mourne	20	Cormorant	1			Roosting on rock		H	206325	389361
Non-breeding	31/01/2017	Lough Mourne	20	Cormorant	1			Roosting on rock		H	206325	389361
Breeding	08/04/2017	Lough Mourne	20	Cormorant	1	Above Water						
Breeding	28/04/2017	Lough Mourne	20	Cormorant	1	Above Water	Feeding/Roosting	ROOSTING, N END OF LAKE				
Non-breeding	10/08/2017	Lough Mourne	20	Cormorant	1	Terrestrial	Roosting	Roosting on rock in NW edge		H	206414	389522
Non-breeding	11/09/2017	Lough Mourne	20	Cormorant	1	Terrestrial	Loafing	Loafing on rocks on NW edge		H	206414	389522
Both Overlap	22/09/2017	Lough Mourne	20	Cormorant	1			Swimming		H	206842	389588
Non-breeding	08/10/2016	Lough Mourne	20	Greater Scaup	2			2 Females roosting together in open water		H	206595	389312
Breeding	17/05/2016	Lough Mourne	20	Grey Heron	1							
Non-breeding	08/10/2016	Lough Mourne	20	Grey Heron	1			Foraging along S shoreline		H	206595	389312
Both Overlap	22/09/2017	Lough Mourne	20	Grey Heron	1			Hunting		H	207262	390053
Breeding	17/05/2016	Lough Mourne	20	Mallard	2		P					
Non-breeding	24/10/2016	Lough Mourne	20	Mallard	1			Foraging along lake shore		H	206400	388804
Non-breeding	02/01/2017	Lough Mourne	20	Mallard	4			Resting on L. Mourne		H	206498	389102
Non-breeding	20/01/2017	Lough Mourne	20	Mallard	2			Loafing in SW corner of lough		H	206335	388876
Non-breeding	31/01/2017	Lough Mourne	20	Mallard	5			Foraging along SW fringe of lough		H	206254	389273
Non-breeding	31/01/2017	Lough Mourne	20	Mallard	5			Foraging along SW fringe of lough		H	206254	389273
Non-breeding	31/01/2017	Lough Mourne	20	Mallard	7			Swimming on open water		H	206348	389316

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	31/01/2017	Lough Mourne	20	Mallard	7			Swimming on open water		H	206348	389316
Breeding	08/04/2017	Lough Mourne	20	Mallard	2	On Water						
Breeding	28/04/2017	Lough Mourne	20	Mallard	1	On Water						
Both Overlap	22/09/2017	Lough Mourne	20	Mallard	2			Swimming		H	207497	389993
Breeding	17/05/2016	Lough Mourne	20	Raven	1		H					
Breeding	08/04/2017	Lough Mourne	20	Teal	2	On Water						
Non-breeding	24/10/2016	Lough Mourne	20	Whooper Swan	13			6 adults and 7 immatures roosting in SE corner of lough		H	206389	388887
Non-breeding	08/10/2016	Lough Mourne	20	Wigeon	1			Loafing on open water in SW area of L. Mourne		H	206440	389165
Non-breeding	08/10/2016	Lough Mourne	20	Wigeon	1			Loafing in open water adjacent to SP		H	206614	389336
Breeding	10/05/2016	Lough Shinnagh	21	Common Sandpiper	2		P					
Breeding	17/05/2016	Lough Shinnagh	21	Common Sandpiper	2		P					
Breeding	23/05/2016	Lough Shinnagh	21	Grey Heron	1		U					
Breeding	08/04/2017	Lough Shinnagh	21	Grey Heron	1	Above Water	ROOSTING					
Breeding	10/05/2016	Lough Shinnagh	21	Mallard	2		H					
Breeding	23/05/2016	Lough Shinnagh	21	Mallard	2		H					
Breeding	04/08/2016	Lough Shinnagh	21	Mallard	1			Foraging in floating vegetation		H	211711	389649
Breeding	19/08/2016	Lough Shinnagh	21	Mallard	2			Foraging in floating vegetation		H	211758	389590

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	04/12/2016	Lough Shinnagh	21	Mallard	2			Pair loafing on lough		H	211713	389563
Non-breeding	21/12/2016	Lough Shinnagh	21	Mallard	2			Foraging on lough		H	211772	389601
Non-breeding	31/01/2017	Lough Shinnagh	21	Mallard	2			Loafing on open water		H	213197	389959
Non-breeding	31/01/2017	Lough Shinnagh	21	Mallard	2			Loafing on open water		H	213197	389959
Non-breeding	31/01/2017	Lough Shinnagh	21	Mallard	9			Foraging in emergent vegetation		H	211689	389615
Non-breeding	31/01/2017	Lough Shinnagh	21	Mallard	9			Foraging in emergent vegetation		H	211689	389615
Non-breeding	31/01/2017	Lough Shinnagh	21	Mallard	14			Swimming on open water		H	213129	389899
Non-breeding	31/01/2017	Lough Shinnagh	21	Mallard	14			Swimming on open water		H	213129	389899
Breeding	08/04/2017	Lough Shinnagh	21	Mallard	1	On Water						
Non-breeding	09/11/2016	Lough Shinnagh	21	Teal	3			Flew off on approach to lake		H	211721	389633
Breeding	13/05/2017	Lough Shinnagh	21	Teal	1	On Water		male Teal along edge of reeds and into reed cover				
Breeding	23/05/2016	Lough Shinnagh	21	Tufted Duck	1		H					
Non-breeding	17/01/2017	Lough Shinnagh	21	Whooper Swan	2			Flew in from W and landed on lough		H	211713	389587
Non-breeding	17/01/2017	Lough Shinnagh	21	Whooper Swan	4			Loafing on lough		H	211693	389610
Breeding	17/05/2016	Trusk Lough	22	Common Gull	2		D					
Breeding	10/05/2016	Trusk Lough	22	Common Sandpiper	2		P					
Breeding	17/05/2016	Trusk Lough	22	Common Sandpiper	3		P					

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	01/05/2017	Trusk Lough	22	Common Sandpiper	1	Above Water		HOLDING TERRITORY, VOCAL				
Breeding	13/05/2017	Trusk Lough	22	Common Sandpiper	1	Above Water		VOCAL ALONG SHORE TO E & N				
Both Overlap	25/09/2017	Trusk Lough	22	Cormorant	1			Swimming		H	213241	390129
Non-breeding	08/10/2016	Trusk Lough	22	Grey Heron	1			Foraging on W shore		H	212779	389829
Breeding	08/04/2017	Trusk Lough	22	Grey Heron	1	Above Water	ROOSTING					
Non-breeding	10/08/2017	Trusk Lough	22	Grey Heron	1	Terrestrial	Feeding	Hunting near MA flock		H	213302	390131
Breeding	28/05/2017	Trusk Lough	22	Greylag Goose	2	Above Water		Two domestic geese				
Both Overlap	05/09/2017	Trusk Lough	22	Hybrid Goose	2			Calling loudly on eastern shore		H	213241	390129
Both Overlap	25/09/2017	Trusk Lough	22	Hybrid Goose	2			At edge		H	213241	390129
Non-breeding	08/10/2016	Trusk Lough	22	Lapwing	1			Circled over lake at 5m around approximate grid reference before landing to the NW		H	213012	389947
Breeding	01/05/2017	Trusk Lough	22	Lesser Black-backed Gull	2	Above Water	ROOSTING	ON SHORE				
Breeding	28/05/2017	Trusk Lough	22	Lesser Black-backed Gull	1	Above Water	ROOSTING	ON SHORE				
Both Overlap	05/09/2017	Trusk Lough	22	Little Grebe	2			Swimming		H	213241	390129
Breeding	14/04/2016	Trusk Lough	22	Mallard	1							
Breeding	10/05/2016	Trusk Lough	22	Mallard	9		2 (P)					
Breeding	17/05/2016	Trusk Lough	22	Mallard	14		P					
Breeding	23/05/2016	Trusk Lough	22	Mallard	12		H	all males				

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	04/08/2016	Trusk Lough	22	Mallard	47			Spread along southern edge of Trusk Lough around grid reference		H	213073	389800
Breeding	19/08/2016	Trusk Lough	22	Mallard	4			Foraging along lake shore		H	213056	390060
Breeding	19/08/2016	Trusk Lough	22	Mallard	30			Roosting in shallow water and on lake shore		H	213275	390083
Both-Overlap	10/09/2016	Trusk Lough	22	Mallard	8			Loafing on water near car park		H	213273	390101
Both-Overlap	10/09/2016	Trusk Lough	22	Mallard	15			Loafing in open water		H	212840	389863
Both-Overlap	23/09/2016	Trusk Lough	22	Mallard	24			Roosting on edge of parking area		H	213297	390097
Non-breeding	08/10/2016	Trusk Lough	22	Mallard	2			Foraging along S shoreline		H	212972	389744
Non-breeding	08/10/2016	Trusk Lough	22	Mallard	7			Resting on water along NW shoreline		H	212831	390013
Non-breeding	08/10/2016	Trusk Lough	22	Mallard	14			Resting on water near car park		H	213242	390092
Non-breeding	24/10/2016	Trusk Lough	22	Mallard	1			Resting on open water		H	213015	389820
Non-breeding	24/10/2016	Trusk Lough	22	Mallard	8			Resting on open water		H	212915	390003
Non-breeding	24/10/2016	Trusk Lough	22	Mallard	25			Resting on water near car park		H	213288	390098
Non-breeding	09/11/2016	Trusk Lough	22	Mallard	27			Resting on water near car park		H	213288	390098
Non-breeding	21/11/2016	Trusk Lough	22	Mallard	2			Loafing on water		H	212893	390025
Non-breeding	21/11/2016	Trusk Lough	22	Mallard	4			Loafing on water		H	213200	390084
Non-breeding	21/11/2016	Trusk Lough	22	Mallard	15			Loafing around water's edge at the car park		H	213288	390098
Non-breeding	04/12/2016	Trusk Lough	22	Mallard	18			Loafing around water's edge at the car park		H	213272	390053

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	21/12/2016	Trusk Lough	22	Mallard	5			Loafing on water		H	213288	390098
Non-breeding	21/12/2016	Trusk Lough	22	Mallard	20			Loafing around water's edge at the car park		H	212831	389834
Non-breeding	02/01/2017	Trusk Lough	22	Mallard	22			Loafing around water's edge at the car park		H	212831	389834
Non-breeding	17/01/2017	Trusk Lough	22	Mallard	2			Loafing along S edge		H	213083	389855
Non-breeding	17/01/2017	Trusk Lough	22	Mallard	20			Loafing around water's edge at the car park		H	212831	389834
Non-breeding	14/02/2017	Trusk Lough	22	Mallard	22	On Water	Loafing	Loafing on edge of car park		H	212831	389834
Non-breeding	03/03/2017	Trusk Lough	22	Mallard	7	Above Water	Loafing	Loafing besides car park		H	213306	390120
Non-breeding	28/03/2017	Trusk Lough	22	Mallard	7	On Water	Loafing	Loafing in NE corner near car park		H	212831	389834
Breeding	08/04/2017	Trusk Lough	22	Mallard	7	On Water	FEEDING/ROOSTING	FEEDING ON WATER OR RESTING ALONG SHORE				
Breeding	01/05/2017	Trusk Lough	22	Mallard	11	On Water	FEEDING					
Breeding	13/05/2017	Trusk Lough	22	Mallard	13	On Water	FEEDING/ROOSTING	11 MALES & 2 FAMILY BROODS				
Breeding	28/05/2017	Trusk Lough	22	Mallard	10	On Water	FEEDING/ROOSTING	ON WATER AND SHORE. With broods in vegetated area at west shore side				
Non-breeding	10/08/2017	Trusk Lough	22	Mallard	17	On Water	Roosting	Roosting in shallow water by car park		H	213271	390123
Non-breeding	29/08/2017	Trusk Lough	22	Mallard	2	Terrestrial	Roosting	Roosting ndear car park		H	213305	390102
Both Overlap	05/09/2017	Trusk Lough	22	Mallard	19			Swimming	12 Male 7 Female	H	213241	390129
Non-breeding	11/09/2017	Trusk Lough	22	Mallard	9	On Water	Feeding	On fringes near car park		H	213256	390124

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Both Overlap	25/09/2017	Trusk Lough	22	Mallard	42			Roosting at edge		H	213241	390129
Non-breeding	03/02/2017	Trusk Lough	22	Mallard	10	On Water						
Non-breeding	09/11/2016	Trusk Lough	22	Teal	3			Resting on water		H	212792	389869
Breeding	13/05/2017	Trusk Lough	22	Teal	1	On Water	FEEDING/ROOSTING					
Breeding	23/05/2016	Trusk Lough	22	Tufted Duck	1		H					
Both-Overlap	23/09/2016	Trusk Lough	22	Wigeon	1			Roosting with Mallard flock		H	213297	390097
Breeding	29/04/2017	Lough Derg	23		2	Flying		Brief, distant sighting of unidentified duck. Appeared as diving duck sp. On north side seen from south side				
Breeding	16/05/2017	Lough Derg	23	Black-necked Grebe	1	On Water	FEED	Grebe other than GG or LG. Between island and south shore (near island). Diving, feeding				
Breeding	13/04/2016	Lough Derg	23	Common Gull	19							
Breeding	08/05/2016	Lough Derg	23	Common Gull	4		2 (P)					
Breeding	08/05/2016	Lough Derg	23	Common Gull	4		P					
Breeding	19/05/2016	Lough Derg	23	Common Gull	5		ON	ONE PAIR NESTING ON ONE OF THE V SMALL ISLANDS (OBSERVATION POINT AT [OD 07604/ 72712])				
Breeding	29/04/2017	Lough Derg	23	Common Gull	6	Above Water		on islets, rocks or on water				
Breeding	16/05/2017	Lough Derg	23	Common Gull	4	Above Water						

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	31/05/2017	Lough Derg	23	Common Gull	4	Above Water	ROOSTING	ISLETS AND ROCKS				
Breeding	08/05/2016	Lough Derg	23	Common Sandpiper	2		P					
Breeding	19/05/2016	Lough Derg	23	Common Sandpiper	5		P					
Breeding	24/05/2016	Lough Derg	23	Common Sandpiper	8		P	4 pairs				
Breeding	29/04/2017	Lough Derg	23	Common Sandpiper	2	Above Water		Pair of Common Sandpiper, territorial & defensive on north shoreline				
Breeding	31/05/2017	Lough Derg	23	Common Sandpiper	2	Above Water		ALARM CALLS ALONG SHORE, N & S				
Breeding	13/04/2016	Lough Derg	23	Cormorant	7							
Breeding	08/05/2016	Lough Derg	23	Cormorant	1		H					
Breeding	19/05/2016	Lough Derg	23	Cormorant	1		H	ROOSTING				
Breeding	24/05/2016	Lough Derg	23	Cormorant	1		U					
Breeding	10/08/2016	Lough Derg	23	Cormorant	1			Roosting on island		H	208218	372699
Breeding	26/08/2016	Lough Derg	23	Cormorant	1			Foraging on water		H	208400	372582
Breeding	26/08/2016	Lough Derg	23	Cormorant	6			Roosting on rocky island		H	207501	374634
Both-Overlap	13/09/2016	Lough Derg	23	Cormorant	1			Flew around NE area of lough at 1-5m before landing on water again		H	208664	375322
Both-Overlap	13/09/2016	Lough Derg	23	Cormorant	2			Foraging in open water		H	208351	374297
Both-Overlap	13/09/2016	Lough Derg	23	Cormorant	3			Roosting on rocks		H	207661	375187
Both-Overlap	27/09/2016	Lough Derg	23	Cormorant	4			Roosting on rocky island		H	207491	374642

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	25/10/2016	Lough Derg	23	Cormorant	7			Roosting on rocky island		H	207484	374646
Non-breeding	04/01/2017	Lough Derg	23	Cormorant	5			Loafing together on water		H	206853	374672
Non-breeding	21/01/2017	Lough Derg	23	Cormorant	1			Resting on rocks on W side of lough		H	207134	374722
Non-breeding	01/02/2017	Lough Derg	23	Cormorant	2	On Water	Feeding	On open water near island		H	207020	374741
Breeding	09/04/2017	Lough Derg	23	Cormorant	4	Above Water	FEEDING/ROOSTING	Two on rocky islets; two on water				
Breeding	29/04/2017	Lough Derg	23	Cormorant	4	Above Water	FEEDING/ROOSTING	on islets, rocks or on water				
Breeding	16/05/2017	Lough Derg	23	Cormorant	3	Above Water	FEEDING/ROOSTING	ON ROCKY ISLET, SSW				
Breeding	31/05/2017	Lough Derg	23	Cormorant	3	Above Water	ROOSTING	ON ROCKY ISLETS				
Non-breeding	13/08/2017	Lough Derg	23	Cormorant	3	Terrestrial	Roosting	Roosting on rocky islet to the NE of island		H	207186	374835
Both Overlap	01/09/2017	Lough Derg	23	Cormorant	2			Swimming		H	208500	375800
Both Overlap	01/09/2017	Lough Derg	23	Cormorant	5			Roosting on rock		H	208900	373900
Both Overlap	27/09/2017	Lough Derg	23	Cormorant	1			Swimming		H	202423	374983
Both Overlap	27/09/2017	Lough Derg	23	Cormorant	1			Swimming		H	208133	374508
Both Overlap	27/09/2017	Lough Derg	23	Cormorant	3			Swimming		H	208583	374848
Both Overlap	27/09/2017	Lough Derg	23	Cormorant	7			Roosting on rock		H	207733	373653
Breeding	13/04/2016	Lough Derg	23	Golden Plover	21							

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	19/05/2016	Lough Derg	23	Goosander	2		H	2 MALES OBSERVED IN DISTANCE IN AREA OF DERG BEG ISLAND				
Breeding	13/04/2016	Lough Derg	23	Great Crested Grebe	2							
Breeding	24/05/2016	Lough Derg	23	Great Crested Grebe	4		P	2 pairs				
Breeding	09/04/2017	Lough Derg	23	Great Crested Grebe	1	On Water	FEED	Off south shoreline				
Breeding	16/05/2017	Lough Derg	23	Great Crested Grebe	2	On Water	FEEDING					
Breeding	31/05/2017	Lough Derg	23	Great Crested Grebe	1	On Water	FEEDING	SOUTH END				
Breeding	19/05/2016	Lough Derg	23	Great Northern Diver	1		M	FULL BREEDING PLUMAGE				
Breeding	08/05/2016	Lough Derg	23	Greater Canada Goose	1		H					
Breeding	26/08/2016	Lough Derg	23	Grey Heron	1			Foraging from rocky island		H	208218	372704
Both Overlap	01/09/2017	Lough Derg	23	Grey Heron	1			Hunting on North lake edge		H	208500	375800
Breeding	29/04/2017	Lough Derg	23	Grey Wagtail	2	Above Water		Pair territorial & defensive on north shore				
Breeding	08/05/2016	Lough Derg	23	Hen Harrier	2		P	Male HH perched on conifer at G 207241 - 373329. Female HH seen and heard calling briefly at 209674 - 372127	INDIVIDUALS OVER 2.7KM APART ON OPPOSITE SHORES OF LAKE			
Breeding	08/05/2016	Lough Derg	23	Lesser Black-backed Gull	11		A					

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	19/05/2016	Lough Derg	23	Lesser Black-backed Gull	6		ON	FOUR FLYING OVER BUT ONE PAIR NESTING ON ONE OF THE V SMALL ISLANDS (OBSERVATION POINT AT [OD 07604/ 72712])				
Breeding	24/05/2016	Lough Derg	23	Lesser Black-backed Gull	4		H	poss ON				
Both Overlap	01/09/2017	Lough Derg	23	Little Grebe	6			Swimming in tight flock		H	208900	373900
Breeding	13/04/2016	Lough Derg	23	Mallard	2							
Breeding	08/05/2016	Lough Derg	23	Mallard	4		P					
Breeding	19/05/2016	Lough Derg	23	Mallard	10		P					
Breeding	24/05/2016	Lough Derg	23	Mallard	8		FL					
Breeding	09/04/2017	Lough Derg	23	Mallard	1	On Water	FEED	In bay near/before church car-park				
Breeding	29/04/2017	Lough Derg	23	Mallard	1	On Water		Male in bay near retreat / church				
Breeding	16/05/2017	Lough Derg	23	Mallard	5	On Water	FEED					
Breeding	31/05/2017	Lough Derg	23	Mallard	4	On Water	FEEDING	Female with brood of three well grown young				
Both Overlap	27/09/2017	Lough Derg	23	Mallard	2			Swimming		H	202423	374983
Non-breeding	27/02/2017	Lough Derg	23	Mute Swan	5	On Water	Feeding	Foraging in shallow water off one of the western islands		H	207287	374246
Non-breeding	13/03/2017	Lough Derg	23	Mute Swan	2	On Water	Feeding	Feeding in shallow water N of W island		H	207352	374252

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	08/05/2016	Lough Derg	23	Red-breasted Merganser	3		P					
Breeding	19/05/2016	Lough Derg	23	Red-breasted Merganser	4		P	ONE PAIR OBSERVED IN AREA OF BOATS ISLAND AND ANOTHER PAIR AT SAINTS ISLAND				
Breeding	24/05/2016	Lough Derg	23	Red-breasted Merganser	4		P	2 pairs				
Breeding	16/05/2017	Lough Derg	23	Red-breasted Merganser	6	On Water	FEEDING	Observed feeding in south of lake and along near south shore. In moult, but able to fly. Males and females. Pairs and loosely grouped.				
Breeding	31/05/2017	Lough Derg	23	Red-breasted Merganser	6	On Water	FEEDING	SOUTH END, LATTER PART OF MOULT, 3 MALES, 3 FEMALES, LOOSELY GROUPED PAIRS				
Breeding	31/05/2017	Lough Derg	23	Sparrowhawk	3	Above Water		FLEDGED JUVENILES ON WOODED FRINGE OF L. DERG SOUTH END				
Breeding	24/05/2016	Lough Derg	23	Tufted Duck	4		P	2 pairs				
Breeding	18/05/2016	Dunragh Lough	24	Common Gull	6		H	FLYING OVER IN S DIRECTION BUT TWO BIRDS FLEW OVER LAKE IN COURTSHIP DISPLAY FOR APPROX FIVE MINUTES BEFORE CONTINUING SOUTH.				
Non-breeding	27/03/2017	Dunragh Lough	24	Common Gull	1	Terrestrial	Loafing	Loafing on rocky islet		H	4383	73192

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	16/05/2017	Dunragh Lough	24	Common Gull	1	Above Water		sitting on rocky islet; possible nest				
Breeding	08/05/2016	Dunragh Lough	24	Common Sandpiper	8		5 (P)					
Breeding	18/05/2016	Dunragh Lough	24	Common Sandpiper	10		P	FIVE PAIRS				
Breeding	24/05/2016	Dunragh Lough	24	Common Sandpiper	6		P					
Breeding	29/04/2017	Dunragh Lough	24	Common Sandpiper	2	Above Water		vocal, territorial				
Breeding	16/05/2017	Dunragh Lough	24	Common Sandpiper	4	Above Water		on islets and shorelines; two or three pairs, territorial, vocal, flying				
Breeding	31/05/2017	Dunragh Lough	24	Common Sandpiper	4	Above Water		At least two pairs. One pair at shore west, where stream exits, very vocal / defensive, so young possibly hidden				
Both-Overlap	13/09/2016	Dunragh Lough	24	Cormorant	1			Roosting on rocky islet		H	204152	373110
Non-breeding	04/01/2017	Dunragh Lough	24	Cormorant	1			Roosting on rocks exposed by low water level		H	204350	373133
Non-breeding	01/02/2017	Dunragh Lough	24	Cormorant	1	Terrestrial	Roosting	Roosting on rocky islet		H	203350	373133
Non-breeding	13/02/2017	Dunragh Lough	24	Cormorant	1	Terrestrial	Roosting	Roosting on rocky islet		H	203350	373133
Non-breeding	27/03/2017	Dunragh Lough	24	Cormorant	1	Terrestrial	Loafing	Resting on rocky islet		H	4150	73108
Non-breeding	27/03/2017	Dunragh Lough	24	Cormorant	1	On Water	Feeding	Diving in N of lough		H	3978	73108

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	26/08/2017	Dunragh Lough	24	Cormorant	1	On Water	Feeding	Flew in from the W, landing on water and began foraging		H	203842	372906
Non-breeding	12/09/2017	Dunragh Lough	24	Cormorant	1	Terrestrial	Loafing	Loafing on rocks on NW edge		H	204128	373116
Non-breeding	23/11/2016	Dunragh Lough	24	Goldeneye	1			Flushed from W corner and flew over towards a group of rocky islands		H	203405	372863
Breeding	08/05/2016	Dunragh Lough	24	Mallard	2		P					
Breeding	24/05/2016	Dunragh Lough	24	Mallard	5		P					
Breeding	16/05/2017	Dunragh Lough	24	Mallard	1	On Water	F	along mid-south shore in bay,				
Breeding	31/05/2017	Dunragh Lough	24	Mallard	1	On Water		Male Mallard near south-west shore				
Non-breeding	12/09/2017	Dunragh Lough	24	Mallard	1	On Water	Feeding	Foraging in NE edge		H	205071	373889
Breeding	29/04/2017	Dunragh Lough	24	Red Grouse	1	Terrestrial		Red Grouse. Put up. Walking over Croaghadalough Hill				
Breeding	24/05/2016	Dunragh Lough	24	Red-throated Diver	1		H/D	heard wailing				
Breeding	18/05/2016	Dunragh Middle Lough	25	Common Sandpiper	2		P					
Breeding	18/05/2016	Dunragh Middle Lough	25	Common Sandpiper	2		P					
Breeding	18/05/2016	Dunragh Middle Lough	25	Common Sandpiper	2		P					
Breeding	24/05/2016	Dunragh Middle Lough	25	Common Sandpiper	1		H					
Breeding	08/05/2016	Dunragh Middle Lough	25	Cormorant	1		H					

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	18/05/2016	Dunragh Middle Lough	25	Mallard	1		H					
Breeding	08/05/2016	Lough Haderg	26	Common Sandpiper	1		S					
Breeding	18/05/2016	Lough Haderg	26	Common Sandpiper	3		P	TWO PAIRS				
Breeding	24/05/2016	Lough Golagh (South)	27	Common Gull	2		F					
Breeding	18/05/2016	Lough Golagh (South)	27	Common Sandpiper	4		P	TWO PAIRS				
Breeding	26/08/2016	Lough Golagh (South)	27	Cormorant	1			Foraging on Lough Golagh		H	202208	374285
Non-breeding	11/10/2016	Lough Golagh (South)	27	Cormorant	1			Roosting on peninsula		H	202553	374167
Non-breeding	13/02/2017	Lough Golagh (South)	27	Cormorant	1	On Water	Feeding	Feeding in SE corner of lake		H	202690	374129
Breeding	09/04/2017	Lough Golagh (South)	27	Golden Plover	1	Flying		One GP in summer plummage, suitable breeding habitat, flew overhead, calling, walking south of L Golagh (approach to Croaghadalough hill)				
Non-breeding	05/12/2016	Lough Golagh (South)	27	Goldeneye	1			Foraging in SE finger of lough		H	202815	374278
Non-breeding	27/03/2017	Lough Golagh (South)	27	Goldeneye	2	On Water	Feeding	Diving in NE finger of lough		H	202330	374786
Breeding	09/04/2017	Lough Golagh (South)	27	Great Black-backed Gull	2	Flying		Pair of GB flew SE to NW over lake, in transit				
Both Overlap	26/09/2017	Lough Golagh (South)	27	Hen Harrier	1			Hunting along lake edge	Adult Female Flew south along the west side of lough Golagh into forestry	H	202423	374983

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	09/04/2017	Lough Golagh (South)	27	Red Grouse	2	Flying		2 Red Grouse put up on breeding territories between Flughra Hill and Croaghadalough; frequent piles of droppings also indicative.				
Both Overlap	26/09/2017	Lough Golagh (South)	27	Snipe	1			Flying, calling	Flushed by hunting HH	H	202423	374983
Breeding	18/05/2016	Lough Golagh (South)	27	Turtle Dove	2		P					
Both-Overlap	10/09/2016	Lough Mulreavy	28	Cormorant	1			Roosting on rock		H	205023	377843
Non-breeding	28/03/2017	Lough Mulreavy	28	Cormorant	2	On Water	Flying	Flying in circle over lake before landing		H	4972	77908
Breeding	05/08/2016	Lough Mulreavy	28	Grey Heron	1			Foraging along water's edge		H	204817	377975
Breeding	24/05/2016	Lough Mulreavy	28	Mallard	1		H					
Breeding	31/05/2017	Lough Mulreavy	28	Mallard	1	On Water						
Breeding	09/05/2016	Lough Mulreavy	28	Teal	2		P					
Breeding	09/05/2016	Lough Mulreavy	28	Teal	2		P					
Breeding	17/05/2016	Lough Mulreavy	28	Teal	3		P	ONE PAIR AND A SINGLE MALE				
Breeding	09/04/2017	Lough Mulreavy	28	Teal	2	On Water		PAIR IN BREEDING HABITAT				
Breeding	31/05/2017	Lough Mulreavy	28	Teal	1	On Water		Female with 5 chicks				
Breeding	24/05/2016	Lough Mulreavy	28	Tufted Duck	2		P	pair				
Breeding	18/05/2016	Lough Cuill	29	Common Sandpiper	2		P					
Non-breeding	11/09/2017	Lough Cuill	29	Cormorant	1	Terrestrial	Loafing	Loafing on E edge of lough		H	201475	378203
Breeding	18/05/2016	Lough Cuill	29	Grey Heron	1			Feeding by lake edge				
Breeding	14/04/2016	Lough Cuill	29	Mallard	2							

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	05/08/2016	Lough Cuill	29	Mallard	2			Foraging in floating vegetation		H	201261	378231
Breeding	05/08/2016	Lough Cuill	29	Mallard	2			Resting on water		H	201433	378232
Non-breeding	24/10/2016	Lough Cuill	29	Mallard	2			Foraging in NW area of lake		H	201271	378270
Non-breeding	24/10/2016	Lough Cuill	29	Mallard	4			Foraging in SW area of lake		H	201235	378150
Non-breeding	17/01/2017	Lough Cuill	29	Mallard	2			Foraging on W fringes		H	201256	378203
Breeding	01/05/2017	Lough Cuill	29	Mallard	1							
Non-breeding	28/03/2017	Lough Cuill	29	Mute Swan	1	On Water	Feeding	Feeding in shallow water in NW of lake		H	201257	378268
Breeding	14/04/2016	Lough Cuill	29	Teal	1							
Breeding	01/05/2017	Lough Cuill	29	Teal	2	On Water		HEARD AND MALE SEEN AT REEDBED				
Non-breeding	24/10/2016	Lough Cuill	29	Whooper Swan	2			Foraging on NE edge of lake		H	201466	378259
Non-breeding	09/11/2016	Lough Cuill	29	Whooper Swan	2			Foraging along lake fringe		H	201463	378264
Non-breeding	17/01/2017	Lough Cuill	29	Whooper Swan	8			Foraging along NE fringe of lake		H	201379	378306
Non-breeding	27/03/2017	Dunragh Beg	30	Goldeneye	1	On Water	Feeding	Male diving on N of lough		H	4424	74168
Non-breeding	27/03/2017	Dunragh Beg	30	Goldeneye	1	On Water	Feeding	Female diving on S of lough		H	4413	74027
Non-breeding	27/03/2017	First Corgary along Mourne Beg River	31	Curlew	2	Terrestrial	Flying	Pair circling over bog and fields along Mourne Beg river, landing on rushy field whilst calling		H	16002	84044
Non-breeding	28/03/2017	Lough Bradan	32	Cormorant	1	On Water	Flying	Flushed from middle of lough		H	208550	381564
Non-breeding	17/01/2017	Lough Bradan	32	Goldeneye	1			Foraging in open water		H	208575	381515

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	17/05/2016	Lough Bradan	32	Little Grebe	1		H					
Breeding	07/05/2016	Lough Bradan	32	Mallard	2		P					
Breeding	17/05/2016	Lough Bradan	32	Mallard	6		P	FOUR ADULT MALES ONE PAIR				
Both-Overlap	23/09/2016	Lough Bradan	32	Mallard	1			Foraging in floating vegetation		H	208488	381518
Non-breeding	24/10/2016	Lough Bradan	32	Mallard	7			Family group foraging on W edge of lake		H	208472	381541
Non-breeding	19/12/2016	Lough Bradan	32	Mallard	1			Loafing near S edge of lough		H	208567	381425
Non-breeding	17/01/2017	Lough Bradan	32	Mallard	2			Foraging along W fringes		H	208505	381463
Non-breeding	14/02/2017	Lough Bradan	32	Mallard	1	On Water	Roosting	On NW fringe of lough		H	208466	381590
Non-breeding	14/03/2017	Lough Bradan	32	Mallard	2	On Water	Feeding	Feeding along W fringes		H	208488	381511
Non-breeding	14/03/2017	Lough Bradan	32	Mallard	2	On Water	Feeding	Feeding along W fringes		H	208536	381423
Non-breeding	28/03/2017	Lough Bradan	32	Mallard	2	On Water	Feeding	Foraging in NW corner of lough		H	208480	381577
Non-breeding	28/03/2017	Lough Bradan	32	Mallard	4	On Water	Feeding	Foraging in S corner of lough		H	2E+06	381410
Breeding	01/05/2017	Lough Bradan	32	Mallard	1			male at shore / emergent veg				
Breeding	15/05/2017	Lough Bradan	32	Mallard	2	On Water	F					
Non-breeding	10/08/2017	Lough Bradan	32	Mallard	1	On Water	Roosting	Roosting in NW corner		H	208474	381616
Both Overlap	05/09/2017	Lough Bradan	32	Mallard	4			Swimming	1 male 3 female	H	208497	381583
Both Overlap	25/09/2017	Lough Bradan	32	Mallard	4			Swimming		H	208497	381583
Breeding	07/05/2016	Lough Bradan	32	Teal	2		H					

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	17/05/2016	Lough Bradan	32	Teal	5		FL	FEMALE WITH 6 CHICKS, ANOTHER PAIR AND TWO OTHER ADULT MALES				
Non-breeding	21/11/2016	Lough Bradan	32	Teal	11			Foraging in NW corner of pond		H	208507	381585
Non-breeding	19/12/2016	Lough Bradan	32	Teal	3			Roosting on N edge of lough		H	208474	381619
Non-breeding	17/01/2017	Lough Bradan	32	Teal	2			Foraging along W fringes		H	208484	381498
Non-breeding	17/01/2017	Lough Bradan	32	Teal	2			Foraging on N fringes		H	208547	381626
Non-breeding	17/01/2017	Lough Bradan	32	Teal	6			Foraging on E fringes		H	208656	381493
Non-breeding	14/02/2017	Lough Bradan	32	Teal	1	On Water	Roosting	Resting on N fringe of lake		H	208523	381622
Non-breeding	14/03/2017	Lough Bradan	32	Teal	6	On Water	Feeding	Feeding in W fringes		H	208488	381511
Non-breeding	28/03/2017	Lough Bradan	32	Teal	9	On Water	Feeding	Foraging on S edge of lough		H	208640	381446
Non-breeding	14/02/2017	Lough Bradan	32	Whooper Swan	9	On Water	Feeding	Moved from S edge to centre while alert		H	208605	381455
Non-breeding	17/01/2017	Limestone Lough	33	Mallard	2			Foraging along S fringes of Limestone Lough		H	207927	379826
Non-breeding	17/01/2017	Limestone Lough	33	Mallard	2			Foraging along S fringes of Limestone Lough		H	207949	379815
Non-breeding	17/01/2017	Limestone Lough	33	Mallard	2			Foraging along S fringes of Limestone Lough		H	207995	379841
Both Overlap	05/09/2017	Lough Naleaghany	34	Cormorant	1			Swimming		H	203949	381624
Breeding	07/04/2017	Lough Naleaghany	34	Little Grebe								

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Breeding	26/05/2017	Lough Naleaghany	34	Little Grebe	2	On Water	FEEDING	TWO ADULTS AND MANY TINY YOUNG SWIMMING AMONGST EMERGENT / FLOATING VEGETATION. >10; APPEARS LIKE TWO BROODS				
Breeding	13/04/2016	Croghnameal	35	Golden Eagle	1			PERCHED ON BOG FLUSHED BY MY APPROACH				
Breeding	13/04/2016	Croghnameal	35	Peregrine Falcon	1			FLY OVER				
Breeding	13/04/2016	Croghnameal	35	Snipe	1							
Breeding	14/04/2016	Pettigo Plateau SPA	36	Common Gull	5							
Both Overlap	26/09/2017	Pettigo Plateau SPA	36	Golden Eagle	1			Soaring in wind	Watched for 100s at long distance could not determine age or any tags	H	204757	376232
Breeding	14/04/2016	Pettigo Plateau SPA	36	Golden Plover	1			CALLING IN SUITABLE BREEDING HABITAT				
Breeding	14/04/2016	Pettigo Plateau SPA	36	Goldeneye	2							
Breeding	14/04/2016	Pettigo Plateau SPA	36	Kestrel	1			HUNTING				
Breeding	14/04/2016	Pettigo Plateau SPA	36	Mallard	5							
Breeding	14/04/2016	Pettigo Plateau SPA	36	Red Grouse	2							
Breeding	14/04/2016	Pettigo Plateau SPA	36	Snipe	1							

Table 25: Waterfowl Survey Data

Season	Date	Location	GIS Code	Species	No. of birds	Waterbird Activity	Feeding/Roosting	Habitat and Activity	Comments	GPS	X	Y
Non-breeding	05/12/2016	Small lake just to east of Lough Golagh (South)	37	Mallard	2			Pair loafing on smallest of the 2 lakes between 119 and 165		H	202905	374499
Breeding	10/08/2016	Small lake just to east of Lough Golagh (South)	37	Red-throated Diver	3			Pair with well-developed juvenile on small lake at Pettigo Plateau		H	203051	374621
Breeding	26/08/2016	Small lake just to east of Lough Golagh (South)	37	Red-throated Diver	2			1 adult with juvenile at same location as first visit		H	203051	374621

Table 26: Incidental Observation Data

Date	Survey Type	Location	Species	No. of Individuals (If Recorded)	Notes
20/04/2015	Hen Harrier Roost Survey	HHVP1	Raven		
20/04/2015	Hen Harrier Roost Survey	HHVP2	Raven		
21/04/2015	Hen Harrier Roost Survey	HHVP3	Common Sandpiper	2	Sandpipers, HEARD ON ARRIVAL ON LOUGH MOURNE
21/04/2015	Hen Harrier Roost Survey	HHVP4	Raven		
21/04/2015	Hen Harrier Roost Survey	HHVP5	Raven		
23/04/2015	Hen Harrier Roost Survey	HHVP6	Raven		
03/10/2015	Vantage Point Survey	VP2	Otter		road between VPs 4&5
11/04/2016	Breeding Raptor Survey	H 209422 389551	Snipe		Flushed
11/04/2016	Breeding Raptor Survey	H 206352 388953	Great Crested Grebe		Feeding on lake
19/04/2016	Breeding Raptor Survey	H 210952 389502	Snipe		Flushed and flew W
19/04/2016	Breeding Raptor Survey	H 210858 389527	Snipe		Flushed and flew NW
24/06/2016	Woodcock Survey	H 208800 387700	Long-Eared Owl		Crossing over road between area of dense woodland, H 088 877
19/07/2016	Red-Throated Diver Survey	RHVP1	Cormorant		Flying toward sea in W direction. Off site
08/08/2016	Red-Throated Diver Survey	RHVP1	Mallard		female flying from one lough to next (off site)
09/08/2016	Red-Throated Diver Survey	RHVP1	Common Gull		3 Adults flying e toward l derg. (off site)
19/01/2017	Vantage Point Survey	VP 4	Snipe	1	Snipe. Flushed on way to viewshed
27/03/2017	Goshawk Survey	Survey 2	Grey Heron	1	Flying North over site within PCH
30/03/2017	Goshawk Survey	Survey 3	Grey Heron	1	Flying Northeast
04/04/2017	Breeding Raptor Survey	South of Lough Mourne	Snipe	1	Flushed
22/04/2017	Breeding Raptor Survey	H 209085 383322	Little Grebe	3	Pair observed in suitable nesting habitat in breeding season; Probable breeding
23/04/2017	Breeding Raptor Survey	West of Lough Sallagh	Snipe	1	Flushed from bog