APPENDIX 5-5

SHADOW FLICKER SUMMARY TABLES AND SENSITIVE RECEPTORS

1. SHADOW FLICKER SUMMARY TABLES

1.1 Maximum Potential Daily and Annual Shadow Flicker from the Proposed Wind Farm

Table 1-1 Maximum Potential Daily and Annual Shadow Flicker from the Proposed Wind Farm

House ID	ITM Coordinates (Easting)	ITM Coordinates (Northing)	Description	Distance to Nearest Turbine (metres)	Nearest Proposed Turbine No.	Max. Daily Shadow Flicker: Pre-Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker: Pre-Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker Adjusted for Average Regional Sunshine (hrs:min:sec)	Proposed Turbine(s) Giving Rise to Daly Shadow Flicker Exceedance	Mitigation Strategy Required (Daily)	Mitigation Strategy Required (Annual)
H001	669010	722571	Commercial	489.16	T03	00:36:00	19:11:00	6:05:17	T02	Yes	No
H002	665959	721629	Commercial	855.25	T14	00:59:00	95:37:00	30:20:42	T04, T14	Yes	Yes
H003	666572	721653	Dwelling	919.89	T04	00:26:00	23:04:00	7:19:14	N/A	No	No
H004	665984	721584	Commercial	891.25	T14	00:54:00	82:18:00	26:07:08	T14	Yes	No
H005	663725	723372	Dwelling	894.75	T16	00:36:00	79:19:00	25:10:19	T15	Yes	No
H007	670002	722624	Dwelling	900.38	T01	00:28:00	12:28:00	3:57:23	N/A	No	No
H008	669987	722611	Dwelling	904.97	T01	00:29:00	13:04:00	4:08:49	N/A	No	No
H009	669858	722556	Dwelling	906.47	T01	00:32:00	17:55:00	5:41:10	T03	Yes	No
H010	664367	721343	Dwelling	908.83	T14	00:47:00	41:35:00	13:11:49	T14	Yes	No
H011	663994	723085	Dwelling	908.82	T15	00:47:00	126:36:00	40:10:41	T11, T13, T15	Yes	Yes
H012	666578	721602	Dwelling	957.82	T04	00:26:00	24:02:00	7:37:38	N/A	No	No

H013	667567	721497	Dwelling	914.10	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H014	665328	729135	Dwelling	944.14	T23	00:30:00	33:00:00	10:28:23	N/A	No	No
H015	665082	730011	Dwelling	915.84	T32	00:46:00	76:00:00	24:07:10	T32	Yes	No
H016	670149	722703	Dwelling	915.41	T01	00:25:00	9:17:00	2:56:46	N/A	No	No
H017	667862	721409	Dwelling	915.97	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H018	667862	721409	Dwelling	915.97	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H019	667862	721409	Dwelling	915.97	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H020	668452	729256	Dwelling	918.27	T29	00:55:00	65:39:00	20:50:05	T28, T29	Yes	No
H021	669858	722544	Dwelling	917.89	T01	00:32:00	18:06:00	5:44:39	T03	Yes	No
H022	662086	726173	Dwelling	991.69	T22	00:40:00	38:51:00	12:19:46	T22	Yes	No
H023	670172	722707	Dwelling	926.88	T01	00:25:00	8:52:00	2:48:50	N/A	No	No
H024	666052	721730	Dwelling	928.74	T14	00:52:00	83:41:00	26:33:28	T04, T14	Yes	No
H029	667752	721389	Dwelling	954.47	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H030	666610	721528	Dwelling	1002.84	T04	00:26:00	30:47:00	9:46:10	N/A	No	No
H031	666071	721674	Dwelling	955.58	T14	00:46:00	77:32:00	24:36:22	T04, T14	Yes	No
H032	666006	721453	Dwelling	957.05	T14	00:47:00	65:11:00	20:41:12	T14	Yes	No
H033	662069	725991	Dwelling	1017.20	T22	00:39:00	39:26:00	12:30:53	T22	Yes	No
H034	669863	722493	Dwelling	968.04	T01	00:32:00	18:36:00	5:54:11	T03	Yes	No
H036	666008	721424	Dwelling	970.87	T14	00:45:00	60:23:00	19:09:48	T14	Yes	No
H037	664599	721022	Dwelling	972.78	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H039	666596	721503	Dwelling	1031.49	T04	00:25:00	31:25:00	9:58:14	N/A	No	No
H042	669718	729242	Dwelling	988.04	T46	00:00:00	0:00:00	0:00:00	N/A	No	No
H043	670339	729425	Dwelling	989.00	T47	00:27:00	14:47:00	4:41:30	N/A	No	No
H044	665560	729238	Dwelling	1015.96	T23	00:33:00	30:42:00	9:44:35	T27	Yes	No
H047	665588	729243	Dwelling	1021.10	T23	00:34:00	28:37:00	9:04:55	T27	Yes	No
H048	665280	729205	Dwelling	1024.48	T23	00:32:00	42:31:00	13:29:35	T31	Yes	No
H049	670225	729428	Dwelling	1004.06	T47	00:16:00	4:32:00	1:26:19	N/A	No	No

H050	666028	721388	Dwelling	1004.58	T14	00:43:00	54:26:00	17:16:30	T14	Yes	No
H052	665105	729795	Dwelling	1006.95	T32	00:29:00	30:24:00	9:38:52	N/A	No	No
H055	666580	721479	Dwelling	1060.30	T04	00:26:00	31:49:00	10:05:51	N/A	No	No
H056	664329	721215	Dwelling	1014.06	T14	00:22:00	11:15:00	3:34:13	N/A	No	No
H057	666022	721352	Dwelling	1015.91	T14	00:42:00	47:53:00	15:11:47	T14	Yes	No
H058	670234	729442	Dwelling	1016.48	T47	00:14:00	3:42:00	1:10:27	N/A	No	No
H061	670495	723872	Dwelling	1024.06	T01	00:39:00	23:35:00	7:29:04	T01	Yes	No
H062	668343	730132	Dwelling	1026.18	T30	00:39:00	56:11:00	17:49:49	T29,T30	Yes	No
H064	665278	729239	Dwelling	1057.70	T23	00:32:00	43:40:00	13:51:29	T32	Yes	No
H065	661991	726017	Dwelling	1091.55	T22	00:36:00	33:07:00	10:30:36	T22	Yes	No
H066	666073	721414	Dwelling	1034.12	T14	00:41:00	57:12:00	18:09:11	T14	Yes	No
H067	670226	729461	Dwelling	1036.48	T47	00:07:00	0:49:00	0:15:33	N/A	No	No
H068	664999	729904	Dwelling	1037.99	T32	00:41:00	61:07:00	19:23:46	T32	Yes	No
H070	666569	721452	Dwelling	1089.14	T04	00:26:00	32:06:00	10:11:14	N/A	No	No
H071	668318	730444	Dwelling	1042.88	T30	00:38:00	39:48:00	12:37:52	T30	Yes	No
H072	665036	729832	Dwelling	1042.66	T32	00:41:00	48:39:00	15:26:23	T32	Yes	No
H073	668362	730160	Dwelling	1045.04	T30	00:38:00	53:56:00	17:06:59	T29,T30	Yes	No
H074	668355	730028	Dwelling	1045.32	T30	00:38:00	51:51:00	16:27:19	T29,T30	Yes	No
H075	670186	729465	Dwelling	1047.39	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H076	665011	729863	Dwelling	1047.68	T32	00:41:00	55:50:00	17:43:10	T32	Yes	No
H077	666040	721311	Dwelling	1051.67	T14	00:41:00	41:20:00	13:07:03	T14	Yes	No
H078	665998	721242	Commercial	1052.94	T14	00:31:00	19:32:00	6:11:57	T14	Yes	No
H079	666016	721258	Dwelling	1059.00	T14	00:36:00	26:09:00	8:17:56	T14	Yes	No
H080	668377	730188	Dwelling	1060.63	T30	00:37:00	52:35:00	16:41:16	T29,T30	Yes	No
H081	670157	729474	Dwelling	1062.14	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H082	666575	721421	Dwelling	1112.99	T04	00:26:00	31:28:00	9:59:11	N/A	No	No
H083	663588	723270	Dwelling	1064.34	T16	00:32:00	40:47:00	12:56:35	T15	Yes	No

H084	666075	721337	Dwelling	1069.72	T14	00:40:00	46:43:00	14:49:34	T14	Yes	No
H085	661965	725932	Dwelling	1129.14	T22	00:35:00	32:14:00	10:13:47	T22	Yes	No
H086	669734	729328	Dwelling	1075.50	T46	00:00:00	0:00:00	0:00:00	N/A	No	No
H087	666020	721233	Dwelling	1076.19	T14	00:31:00	20:22:00	6:27:49	T14	Yes	No
H088	670129	729483	Dwelling	1077.31	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H089	662467	724446	Dwelling	1085.87	T19	00:37:00	22:41:00	7:11:56	T45	Yes	No
H092	666555	721396	Dwelling	1144.61	T04	00:26:00	30:58:00	9:49:39	N/A	No	No
H094	669697	729355	Dwelling	1096.96	T46	00:00:00	0:00:00	0:00:00	N/A	No	No
H095	668345	730546	Dwelling	1101.13	T30	00:36:00	29:09:00	9:15:04	T30	Yes	No
H096	661941	725904	Dwelling	1157.91	T22	00:35:00	30:54:00	9:48:23	T22	Yes	No
H097	661926	725967	Dwelling	1162.16	T22	00:34:00	29:16:00	9:17:17	T22	Yes	No
H099	670087	729503	Dwelling	1107.39	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H100	669737	729361	Dwelling	1108.56	T46	00:00:00	0:00:00	0:00:00	N/A	No	No
H101	670295	722570	Dwelling	1110.92	T01	00:22:00	7:13:00	2:17:25	N/A	No	No
H103	665018	729736	Dwelling	1111.99	T32	00:28:00	27:53:00	8:50:57	N/A	No	No
H104	664896	729940	Dwelling	1114.57	T32	00:37:00	43:16:00	13:43:52	T32	Yes	No
H106	665287	729337	Dwelling	1150.01	T23	00:33:00	36:30:00	11:35:01	T31	Yes	No
H107	666535	721370	Dwelling	1177.11	T04	00:27:00	11:49:00	3:45:01	N/A	No	No
H108	664608	720833	Dwelling	1131.72	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H110	661913	725881	Dwelling	1189.98	T22	00:33:00	29:21:00	9:18:52	T22	Yes	No
H111	669748	729390	Dwelling	1138.96	T46	00:00:00	0:00:00	0:00:00	N/A	No	No
H113	669592	722236	Dwelling	1153.44	T03	00:23:00	19:28:00	6:10:41	N/A	No	No
H114	669699	729412	Dwelling	1153.79	T46	00:00:00	0:00:00	0:00:00	N/A	No	No
H115	669997	729525	Dwelling	1155.82	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H116	668474	730242	Dwelling	1160.55	T30	00:34:00	39:28:00	12:31:31	T29,T30	Yes	No
H117	669974	729523	Dwelling	1161.92	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H118	669745	729419	Dwelling	1167.10	T46	00:00:00	0:00:00	0:00:00	N/A	No	No

H119	669950	729521	Dwelling	1168.83	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H120	665098	731234	Dwelling	1169.35	T32	00:36:00	38:18:00	12:09:18	T32	Yes	No
H122	668727	721427	Dwelling	1171.88	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H123	669916	729511	Dwelling	1172.82	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H124	665055	729596	Dwelling	1173.03	T32	00:28:00	11:56:00	3:47:14	N/A	No	No
H126	669701	729434	Dwelling	1175.87	T46	00:00:00	0:00:00	0:00:00	N/A	No	No
H127	666514	721328	Dwelling	1224.00	T04	00:27:00	12:49:00	4:04:03	N/A	No	No
H128	670032	729566	Dwelling	1183.51	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H129	668488	730326	Dwelling	1183.96	T30	00:33:00	41:00:00	13:00:43	T29,T30	Yes	No
H130	669882	729511	Dwelling	1186.90	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H131	666108	721159	Dwelling	1190.63	T14	00:26:00	15:32:00	4:55:47	N/A	No	No
H132	668487	730377	Dwelling	1191.56	T30	00:32:00	41:26:00	13:08:58	T30	Yes	No
H133	666043	721071	Dwelling	1192.37	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H134	669748	729445	Dwelling	1193.25	T46	00:00:00	0:00:00	0:00:00	N/A	No	No
H137	669992	729568	Dwelling	1198.02	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H138	669853	729511	Dwelling	1199.54	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H139	662386	724297	Dwelling	1203.95	T19	00:34:00	20:05:00	6:22:25	T19	Yes	No
H140	669979	729569	Dwelling	1203.32	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H141	666494	721305	Dwelling	1253.92	T04	00:27:00	13:40:00	4:20:14	N/A	No	No
H143	664920	729701	Dwelling	1212.03	T32	00:32:00	31:25:00	9:58:14	T32	Yes	No
H144	669947	729570	Dwelling	1215.49	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H145	666045	721037	Dwelling	1216.01	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H146	669748	729473	Dwelling	1217.39	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H147	669935	729569	Dwelling	1218.97	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H148	668495	721214	Dwelling	1224.66	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H149	669808	729522	Dwelling	1229.96	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H150	669901	729570	Dwelling	1232.91	T47	00:00:00	0:00:00	0:00:00	N/A	No	No

H153	669890	729569	Dwelling	1236.38	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H154	669752	729499	Dwelling	1237.53	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H155	668290	721123	Commercial	1238.83	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H156	668543	730330	Dwelling	1238.96	T30	00:31:00	34:14:00	10:51:52	T30	Yes	No
H157	670238	729668	Dwelling	1239.89	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H158	668322	721127	Dwelling	1243.72	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H159	664626	720692	Dwelling	1251.19	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H160	669858	729574	Dwelling	1254.14	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H161	669845	729574	Dwelling	1259.68	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H162	666059	720981	Dwelling	1263.84	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H163	668451	721151	Dwelling	1264.30	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H164	668563	730373	Dwelling	1265.57	T30	00:31:00	33:38:00	10:40:26	T30	Yes	No
H165	669750	729532	Dwelling	1266.96	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H166	666117	721040	Dwelling	1269.22	T14	00:01:00	0:02:00	0:00:38	N/A	No	No
H168	664842	720600	Dwelling	1270.34	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H169	669809	729572	Dwelling	1273.82	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H170	669799	729572	Dwelling	1278.40	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H171	666456	721243	Dwelling	1326.62	T04	00:28:00	16:23:00	5:11:58	N/A	No	No
H173	666112	721006	Dwelling	1287.03	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H175	669765	729573	Dwelling	1295.28	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H176	668480	730729	Dwelling	1298.56	T30	00:31:00	13:28:00	4:16:26	T30	Yes	No
H177	666071	720941	Dwelling	1299.94	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H178	668722	721261	Dwelling	1299.79	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H179	669754	729573	Dwelling	1300.61	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H181	668869	721372	Dwelling	1307.87	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H182	668891	721393	Dwelling	1308.19	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H183	666432	721220	Dwelling	1358.60	T04	00:29:00	18:30:00	5:52:16	N/A	No	No

H185	663505	722877	Dwelling	1312.99	T13	00:30:00	35:52:00	11:22:58	N/A	No	No
H188	668488	721111	Dwelling	1315.56	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H189	668944	721438	Dwelling	1315.61	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H190	666073	720919	Dwelling	1316.64	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H191	668785	721286	Dwelling	1317.68	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H192	662222	724386	Dwelling	1338.09	T19	00:30:00	13:12:00	4:11:21	N/A	No	No
H193	666122	720967	Dwelling	1320.06	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H196	668771	721266	Dwelling	1324.88	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H199	668457	721084	Dwelling	1328.66	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H201	668416	721067	Dwelling	1330.07	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H202	668437	721075	Dwelling	1329.82	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H203	668394	721059	Dwelling	1330.38	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H204	669375	721784	Dwelling	1333.51	T03	00:26:00	12:37:00	4:00:15	N/A	No	No
H205	666066	720887	Dwelling	1334.24	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H207	668578	721127	Dwelling	1339.48	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H208	668815	721281	Dwelling	1340.39	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H211	664794	729649	Dwelling	1345.42	T32	00:32:00	32:54:00	10:26:28	T32	Yes	No
H212	668639	730408	Dwelling	1346.70	T30	00:29:00	27:09:00	8:36:59	N/A	No	No
H213	669110	721602	Commercial	1349.35	T02	00:32:00	25:01:00	7:56:22	T02	Yes	No
H214	668628	730473	Dwelling	1349.90	T30	00:29:00	30:06:00	9:33:09	N/A	No	No
H216	665318	720494	Dwelling	1356.52	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H217	666085	720858	Dwelling	1368.25	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H219	666394	721168	Dwelling	1422.72	T04	00:29:00	27:39:00	8:46:30	N/A	No	No
H220	666909	720977	Dwelling	1429.08	T04	00:00:00	0:00:00	0:00:00	N/A	No	No
H222	669155	721605	Commercial	1386.14	T02	00:31:00	27:38:00	8:46:11	T02	Yes	No
H223	668157	720942	Dwelling	1390.04	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H228	668694	730402	Dwelling	1399.66	T30	00:28:00	23:17:00	7:23:21	N/A	No	No

H231	666331	721108	Dwelling	1405.57	T14	00:30:00	26:23:00	8:22:23	N/A	No	No
H232	666376	721142	Dwelling	1427.36	T14	00:29:00	28:51:00	9:09:21	N/A	No	No
H233	666854	720953	Dwelling	1461.91	T04	00:00:00	0:00:00	0:00:00	N/A	No	No
H234	662013	724492	Dwelling	1448.47	T20	00:29:00	34:42:00	11:00:45	N/A	No	No
H235	669200	721602	Commercial	1413.10	T03	00:30:00	28:19:00	8:59:12	N/A	No	No
H236	664150	728824	Dwelling	1508.47	T24	00:25:00	8:39:00	2:44:43	N/A	No	No
H237	669698	729679	Dwelling	1419.16	T46	00:00:00	0:00:00	0:00:00	N/A	No	No
H238	668677	730566	Dwelling	1421.83	T30	00:27:00	27:37:00	8:45:52	N/A	No	No
H239	668110	720902	Dwelling	1424.19	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H240	666789	720951	Dwelling	1477.18	T04	00:00:00	0:00:00	0:00:00	N/A	No	No
H241	666106	720797	Dwelling	1426.85	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H243	669707	721937	Dwelling	1431.47	T03	00:00:00	0:00:00	0:00:00	N/A	No	No
H244	668735	730400	Dwelling	1439.67	T30	00:27:00	21:06:00	6:41:47	N/A	No	No
H245	666751	720944	Dwelling	1493.01	T04	00:00:00	0:00:00	0:00:00	N/A	No	No
H246	666370	721101	Dwelling	1442.61	T14	00:29:00	26:43:00	8:28:44	N/A	No	No
H247	669920	729802	Dwelling	1442.73	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H248	670955	723847	Dwelling	1443.17	T01	00:27:00	9:32:00	3:01:32	N/A	No	No
H249	669706	729713	Dwelling	1446.51	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H251	669744	721954	Dwelling	1447.74	T03	00:00:00	0:00:00	0:00:00	N/A	No	No
H252	664044	720878	Dwelling	1448.82	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H253	664015	720909	Dwelling	1450.65	T14	00:04:00	0:52:00	0:16:30	N/A	No	No
H254	669699	721900	Dwelling	1450.95	T03	00:00:00	0:00:00	0:00:00	N/A	No	No
H255	663993	720931	Dwelling	1453.81	T14	00:11:00	4:10:00	1:19:20	N/A	No	No
H256	669171	721501	Commercial	1455.68	T02	00:24:00	14:16:00	4:31:40	N/A	No	No
H257	670988	723781	Dwelling	1456.87	T01	00:27:00	9:08:00	2:53:55	N/A	No	No
H259	671003	723738	Dwelling	1461.38	T01	00:26:00	9:00:00	2:51:23	N/A	No	No
H260	665386	720396	Dwelling	1464.01	T14	00:00:00	0:00:00	0:00:00	N/A	No	No

H261	666705	720934	Dwelling	1514.73	T04	00:00:00	0:00:00	0:00:00	N/A	No	No
H262	669891	729818	Dwelling	1467.44	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H264	665012	720373	Dwelling	1469.09	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H265	663956	720953	Dwelling	1469.58	T14	00:18:00	9:35:00	3:02:29	N/A	No	No
H266	669705	729739	Dwelling	1469.96	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H267	661698	725518	Dwelling	1508.30	T22	00:27:00	23:50:00	7:33:50	N/A	No	No
H268	669958	729845	Dwelling	1471.94	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H269	671020	723709	Dwelling	1471.96	T01	00:26:00	8:51:00	2:48:31	N/A	No	No
H270	664809	731370	Dwelling	1472.65	T32	00:29:00	16:55:00	5:22:07	N/A	No	No
H272	663538	721516	Dwelling	1476.55	T13	00:23:00	19:32:00	6:11:57	N/A	No	No
H274	668111	720846	Dwelling	1480.03	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H275	666139	720752	Dwelling	1482.27	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H276	663905	720999	Dwelling	1484.16	T14	00:28:00	20:19:00	6:26:52	N/A	No	No
H278	664275	729001	Dwelling	1510.31	T23	00:27:00	10:27:00	3:18:59	N/A	No	No
H280	669898	729844	Dwelling	1489.62	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H281	671048	723186	Dwelling	1489.02	T01	00:26:00	9:54:00	3:08:31	N/A	No	No
H282	671053	723213	Dwelling	1490.01	T01	00:26:00	9:40:00	3:04:04	N/A	No	No
H283	669705	729761	Dwelling	1489.48	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H284	668790	730391	Dwelling	1492.41	T30	00:25:00	18:56:00	6:00:31	N/A	No	No
H285	668779	730459	Dwelling	1494.06	T30	00:26:00	19:14:00	6:06:14	N/A	No	No
H286	669779	721924	Dwelling	1493.84	T03	00:00:00	0:00:00	0:00:00	N/A	No	No
H287	669741	721876	Dwelling	1497.92	T03	00:00:00	0:00:00	0:00:00	N/A	No	No
H289	664659	729574	Dwelling	1499.42	T32	00:28:00	25:29:00	8:05:15	N/A	No	No
H292	666664	720905	Dwelling	1554.23	T04	00:00:00	0:00:00	0:00:00	N/A	No	No
H297	670926	724098	Dwelling	1510.69	T01	00:26:00	9:07:00	2:53:36	N/A	No	No
H298	666529	720946	Dwelling	1561.27	T04	00:25:00	18:12:00	5:46:34	N/A	No	No
H301	663855	721023	Dwelling	1512.64	T14	00:28:00	24:53:00	7:53:49	N/A	No	No

H302	671090	723388	Dwelling	1513.16	T01	00:25:00	8:37:00	2:44:05	N/A	No	No
H303	669772	729820	Church	1513.70	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H304	669917	729877	Dwelling	1514.82	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H305	666123	720694	Commercial	1514.71	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H306	665486	720364	Dwelling	1515.89	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H308	665288	720323	Dwelling	1522.65	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H310	671091	723242	Dwelling	1524.05	T01	00:25:00	8:55:00	2:49:47	N/A	No	No
H311	669688	729792	Dwelling	1524.83	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H312	668736	730711	Dwelling	1525.41	T30	00:25:00	8:23:00	2:39:38	N/A	No	No
H313	668812	730456	Dwelling	1525.77	T30	00:25:00	7:56:00	2:31:04	N/A	No	No
H314	663946	720873	Dwelling	1526.81	T14	00:07:00	2:02:00	0:38:43	N/A	No	No
H315	663967	720844	Dwelling	1529.26	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H316	663920	720899	Dwelling	1530.98	T14	00:14:00	6:13:00	1:58:23	N/A	No	No
H317	669682	721768	Dwelling	1533.81	T03	00:00:00	0:00:00	0:00:00	N/A	No	No
H318	668190	720800	Dwelling	1535.29	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H320	663901	720916	Dwelling	1535.78	T14	00:18:00	9:33:00	3:01:51	N/A	No	No
H322	669898	729896	Dwelling	1538.83	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H324	661630	725478	Dwelling	1586.71	T22	00:26:00	21:38:00	6:51:56	N/A	No	No
H325	669720	721789	Dwelling	1544.35	T03	00:00:00	0:00:00	0:00:00	N/A	No	No
H326	671107	723633	Dwelling	1544.94	T01	00:24:00	7:42:00	2:26:37	N/A	No	No
H327	665734	720415	Dwelling	1545.50	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H329	663869	720940	Dwelling	1547.46	T14	00:23:00	15:01:00	4:45:57	N/A	No	No
H330	666669	720857	Dwelling	1598.73	T04	00:00:00	0:00:00	0:00:00	N/A	No	No
H331	669261	721468	Dwelling	1548.86	T02	00:25:00	16:38:00	5:16:44	N/A	No	No
H332	668162	720780	Dwelling	1551.32	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H333	661889	724419	Dwelling	1592.27	T20	00:27:00	30:59:00	9:49:58	N/A	No	No
H334	663250	722891	Dwelling	1557.34	T13	00:25:00	19:38:00	6:13:51	N/A	No	No

H336	669299	721474	Dwelling	1570.04	T03	00:27:00	19:57:00	6:19:53	N/A	No	No
H337	663742	721101	Dwelling	1570.99	T14	00:26:00	15:48:00	5:00:52	N/A	No	No
H338	668148	720756	Dwelling	1573.46	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H339	661484	725790	Dwelling	1628.58	T22	00:24:00	9:02:00	2:52:01	N/A	No	No
H340	669784	721809	Dwelling	1575.31	T03	00:00:00	0:00:00	0:00:00	N/A	No	No
H342	663192	722010	Commercial	1580.82	T13	00:25:00	9:07:00	2:53:36	N/A	No	No
H343	661468	725822	Dwelling	1637.93	T22	00:24:00	8:41:00	2:45:21	N/A	No	No
H344	665549	720310	Dwelling	1583.94	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H346	669987	721884	Dwelling	1587.76	T01	00:06:00	1:35:00	0:30:09	N/A	No	No
H347	661789	724506	Dwelling	1634.37	T20	00:26:00	16:21:00	5:11:20	N/A	No	No
H349	668124	720732	Dwelling	1594.76	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H350	664556	729558	Dwelling	1594.93	T32	00:26:00	33:32:00	10:38:32	N/A	No	No
H352	669897	721850	Dwelling	1600.26	T01	00:00:00	0:00:00	0:00:00	N/A	No	No
H353	671183	723413	Dwelling	1605.89	T01	00:24:00	7:06:00	2:15:12	N/A	No	No
H354	668106	720716	Dwelling	1609.03	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H355	666275	720702	Dwelling	1612.85	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H356	669692	729892	Dwelling	1612.62	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H357	671189	723346	Dwelling	1613.48	T01	00:23:00	7:12:00	2:17:06	N/A	No	No
H360	661408	725915	Dwelling	1682.54	T22	00:23:00	7:41:00	2:26:18	N/A	No	No
H362	670043	721859	Dwelling	1627.07	T01	00:00:00	0:00:00	0:00:00	N/A	No	No
H363	666409	720832	Dwelling	1627.26	T14	00:03:00	0:23:00	0:07:18	N/A	No	No
H364	670017	725002	Dwelling	1639.10	T37	00:24:00	9:25:00	2:59:19	N/A	No	No
H365	670033	725056	Dwelling	1642.26	T37	00:24:00	8:58:00	2:50:44	N/A	No	No
H366	666317	720715	Dwelling	1634.00	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H367	670028	725012	Commercial	1647.35	T37	00:24:00	9:16:00	2:56:27	N/A	No	No
H368	663710	721019	Dwelling	1638.70	T14	00:25:00	17:34:00	5:34:30	N/A	No	No
H369	670057	724985	Dwelling	1639.17	T01	00:23:00	8:44:00	2:46:18	N/A	No	No

H372	669684	729924	Dwelling	1644.95	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H374	666372	720758	Dwelling	1645.89	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H375	671224	723368	Dwelling	1647.64	T01	00:22:00	6:40:00	2:06:57	N/A	No	No
H376	668914	730559	Dwelling	1648.26	T30	00:22:00	6:26:00	2:02:30	N/A	No	No
H377	663653	721101	Dwelling	1650.15	T14	00:24:00	12:05:00	3:50:05	N/A	No	No
H379	663145	722874	Dwelling	1652.16	T13	00:23:00	6:59:00	2:12:58	N/A	No	No
H383	669985	721810	Dwelling	1658.88	T01	00:00:00	0:00:00	0:00:00	N/A	No	No
H385	669907	721788	Dwelling	1663.01	T01	00:00:00	0:00:00	0:00:00	N/A	No	No
H386	666416	720783	Dwelling	1663.40	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H389	669680	729951	Dwelling	1671.09	T47	00:00:00	0:00:00	0:00:00	N/A	No	No
H392	663561	721189	Dwelling	1675.39	T13	00:23:00	8:59:00	2:51:03	N/A	No	No
H394	668123	720650	Dwelling	1676.30	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H395	666454	720796	Dwelling	1684.90	T14	00:02:00	0:12:00	0:03:49	N/A	No	No
H399	668028	720638	Dwelling	1682.13	T02	00:00:00	0:00:00	0:00:00	N/A	No	No
H401	669882	721751	Dwelling	1686.29	T03	00:00:00	0:00:00	0:00:00	N/A	No	No
H402	668874	730801	Dwelling	1687.15	T30	00:22:00	6:22:00	2:01:14	N/A	No	No
H403	666266	720590	Dwelling	1687.50	T14	00:00:00	0:00:00	0:00:00	N/A	No	No
H404	663683	720968	Dwelling	1687.85	T14	00:24:00	19:55:00	6:19:15	N/A	No	No
H408	668994	730364	Dwelling	1690.50	T30	00:21:00	5:57:00	1:53:18	N/A	No	No
H409	670103	725025	Dwelling	1691.19	T01	00:00:00	0:00:00	0:00:00	N/A	No	No
H410	663310	721468	Dwelling	1691.26	T13	00:24:00	20:17:00	6:26:14	N/A	No	No
H413	669000	730345	Dwelling	1694.17	T30	00:21:00	5:55:00	1:52:40	N/A	No	No
H1120	665731	726734	Dwelling	969.08	T41	01:06:00	107:24:00	34:05:05	T25,T39,T41	Yes	Yes
H2903	668497	729153	Dwelling	974.56	T29	00:51:00	62:36:00	19:52:01	T28,T29	Yes	No
H2904	668445	728713	Dwelling	908.76	T45	01:12:00	112:20:00	35:39:01	T28,T29,T46	Yes	Yes
H417	668891	730789	Dwelling	1698.46	T30	00:22:00	6:16:00	1:59:20	N/A	No	No
H418	669008	730325	Dwelling	1699.54	T30	00:21:00	5:52:00	1:51:43	N/A	No	No

H422	669551	729966	Dwelling	1699.60	T46	00:00:00	0:00:00	0:00:00	N/A	No	No
H420	668070	720624	Dwelling	1697.79	T02	00:00:00	0:00:00	0:00:00	N/A	No	No

**Involved landowner*

1.2 Shadow Flicker Mitigation Strategy for the Proposed Wind Farm

Table 2 Shadow Flicker Mitigation Strategy for Daily Shadow Flicker Exceedance – Turbine Numbers and Days

Property No.	No. of Days 30min/day Threshold is Exceeded	Turbine(s) Producing Shadow Flicker Exceedence	Days of Year When Mitigation May be Required (Day No's)*	Days of Year When Mitigation May be Required (Dates)*	Post-mitigation Maximum Daily Shadow Flicker (hrs:mins:sec)
H001	18	T02	70-78, 268-276	11th-19th of March, 25th of September-3rd of October	00:28:00
H002	106	T14, T13 T04	111-136, 147-199, 209-235	21st of April - 16th of May, 27th of May-18th of July, 28th of July-23rd of August	00:28:00
H004	97	T14, T04, T13	116-141, 146, 152-193, 199-200, 205-230	26th of April-21st of May, 26th of May, 1st of June-12th of July, 18th - 19th of July, 24th of July-18th of August	00:28:00
H005	28	T15	99-112, 234-247	9th-22nd of April, 22nd of August-4th of September	00:28:00
H009	10	T03	119-123, 223-227	29th of April - 3rd of May, 11th-15th of August	00:28:00
H010	49	T14	149-197	29th of May - 16th of July	00:28:00
H011	139	T13, T11, T15, T14	11-37, 89-93, 136-210, 254-258, 310-336	11th of January-6th of February, 30th of March-3rd of April, 16th of May-29th of July, 11th-15th of September, 6th of November-2nd December	00:28:00
H015	90	T32	128-217	8th of May- 5th of August	00:28:00
H020	67	T28, T29, T46	18-33, 95-111, 235-252, 314-329	18th of January-2nd of February, 5th-21st of April, 23rd of August-9th of September, 10th-25th of November	00:28:00
H021	9	T03	120-123, 222-226	30th of April-3rd of May, 10th-14th of August	00:28:00
H022	27	T22	84-96, 250-263	25th of March-6th of April, 7th-20th of September	00:28:00
H024	107	T04, T13, T14	100-116, 138-208	10th-26th of April, 18th of May- 27th of July	00:28:00

H031	95	T04, T13, T14,	105-122, 144-202, 224-241	15th of April-2nd of May, 24th of May- 21st of July, 12th-29th of August	00:28:00
H032	86	T14	130-215	10th of May-3rd of August	00:28:00
H033	27	T22	99-112, 233-246	9th-22nd of April, 21st of August-3rd of September	00:28:00
H034	7	T03	125-127, 219-222	5th-7th of May, 7th-10th of August	00:28:00
H036	79	T14	134-212	14th of May-31st of July	00:28:00
H044	11	T27	56-60, 286-291	25th of February-1st of March, 13th-18th of October	00:28:00
H047	14	T27	54-60, 287-293	23rd of February-1st of March, 14th-20th of October	00:28:00
H048	12	T31	150-154, 190-196	30th of May-3rd of June, 9th-15th of July	00:28:00
H050	72	T14	137-208	17th of May-27th of July	00:28:00
H057	62	T14	142-203	22nd of May-22nd of July	00:28:00
H061	25	T01	50-62, 285-296	19th of February-3rd of March, 12th-23rd of October	00:28:00
H062	54	T29, T30	16-30, 92-103, 243-254, 317-331	16th-30th of January, 2nd-13th of April, 31st of August-11th of September, 13th-27th of November	00:28:00
H064	12	T31	146-151, 195-200	26th-31st of May, 14th-19th of July	00:28:00
H065	22	T22	97-107, 239-249	7-17th of April, 27th of August - 6th of September	00:28:00
H066	83	T14, T13	132-214	12th of May- 2nd of August	00:28:00
H068	71	T32	138-208	18th of May-27th of July	00:28:00
H071	21	T30	66-76, 271-280	7th-17th of March, 28th of September-7th of October	00:28:00
H072	46	T32	150-195	30th of May-14th of July	00:28:00
H073	47	T29, T30	15-28, 90-99, 247-256, 319-331	15th of January-28th of January, 31st of March-9th of April, 4th-13th of September, 15th-27th of November	00:28:00
H074	54	T29, T30	25-39, 101-112, 234-245, 308-322	25th of January- 8th of February, 11th-22nd of April, 22nd of August-2nd of September, 4th-18th of November	00:28:00
H076	59	T32	144-202	24th of May-21st of July	00:28:00
H077	52	T14	147-198	27th of May-17th of July	00:28:00
H078	2	T14	172-173	21st-22nd of June	00:28:00
H079	26	T14	160-185	9th of June-4th of July	00:28:00

H080	45	T29, T30	15-26, 88-97, 249-259, 321-332	15th-26th of January, 29th of March- 7th of April, 6th-16th of September, 17th-28th of November	00:28:00
H083	13	T15	107-112, 233-239	17th-22nd of April, 21st-27th of August	00:28:00
H084	64	T14	141-204	21st of May-23rd of July	00:28:00
H085	20	T22	104-113,233-242	14th-23rd of April, 21st-30th of August	00:28:00
H087	3	T14	172-173, 177	21st-22nd June, 26th June	00:28:00
H089	22	T19	108-118, 228-238	18th-28th of April, 16th-26th of August	00:28:00
H095	17	T30	59-67, 280-287	28th of February-8th of March, 7th-14th of October	00:28:00
H096	16	T22	107-114, 232-239	17th-24th of April, 20th-27th of August	00:28:00
H097	16	T22	101-108, 238-245	11th-18th of April, 26th of August-2nd of September	00:28:00
H104	34	T32	129-145, 200-216	9th-25th of May, 19th of July-4th of August	00:28:00
H106	15	T31	135-142, 204-210	15th-22nd of May, 23rd-29th of July	00:28:00
H110	15	T22	108-114, 231-238	18th-24th of April, 19th-26th of August	00:28:00
H116	20	T29, T30	20-23, 85-89, 256-262, 324-327	20th-23rd of January, 26th-30th of March, 13th-19th of September, 20th-23rd of November	00:28:00
H120	35	T32	11-27, 320-337	11th-27th of January, 16th of November-3rd of December	00:28:00
H129	12	T29, T30	16, 79-83, 263-268	16th of January, 20th-24th of March, 20th-25th of September	00:28:00
H132	9	T30	76-79, 267-271	17th-20th of March, 24th-28th of September	00:28:00
H139	13	T19	120-125, 220-226,	30th of April-5th of May, 8th-14th of August	00:28:00
H143	13	T32	167-179	16th-28th of June	00:28:00
H156	5	T30	80-81, 265-267	21st-22nd of March, 22nd-24th of September	00:28:00
H164	2	T30	67, 269	8th of March, 26th of September	00:28:00
H176	1	T30	294	21st of October	00:28:00
H211	22	T32	162-183	11th of June-2nd of July	00:28:00
H213	19	T02	164-181, 183	13th-30th of June, 2nd of July	00:28:00
H222	1	T02	159	8th of June	00:28:00
H1120	101	T25, T39, T41	1-18, 85-107, 239-261, 329-365	1st-18th of January, 26th of March-17th of April, 27th of August- 18th of September, 25th of November-31st of December	00:28:00

H2903	61	T28, T46, T29	26-38, 104-120, 226-242, 309-322	26th of January-7th of February, 14th-30th of April, 14th-30th of August, 5th-18th of November	00:28:00
H2904	108	T45, T46, T28, T29	1-14, 56-73, 161-184, 273-291, 333-365	1st-14th of January, 25th of February-14th of March, 10th of June-3rd of July, 30th of September-18th of October, 29th of November-31st of December	00:28:00

**Involved landowner*

2. SENSITIVE RECEPTORS

The Shadow Flicker Study area adopted is 10 rotor diameters of the Proposed Turbine locations (for the Proposed Project, this is assumed at 1.70 km based on a rotor diameter of 170 metres) in line with the Wind Energy Development Guidelines (2006). Sensitive Receptors within the 'Shadow Flicker Study Area' are identified in Figure 5-2 of Chapter 5.

The location of all sensitive receptors within the Shadow Flicker Study Area are shown below in Figure 5-5, encompassing Figures 5-5A to 5-5Q.

660000 665000 670000 675000

730000 725000 720000

N W E S

5D 5C 5A 5E 5B 5G 5F 5P 5O 5Q 5H 5K 5L 5N 5J 5M 5I

T32 T30 T31 T29 T27 T28 T23 T46 T45 T44 T24 T26 T42 T25 T43 T41 T22 T40 T39 T36 T37 T21 T20 T10 T38 T17 T35 T19 T18 T09 T07 T34 T16 T33 T06 T15 T01 T08 T11 T03 T05 T12 T13 T04 T02 T1

0 1.25 2.5 5 7.5 10 Kilometers

660000 665000 670000 675000

Legend

- Project Site
- Proposed Turbine Layout
  - 220
  - 200
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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N

SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5	1:90,000
Drawn By	Checked By	Date
LPM	EC	21/10/2026

MKO
Email: info@mkoireland.ie/ Website: www.mkoireland.ie

670000

730000

N
W
E
S

H422
H389
H372
H356
H322
H304
H280
H268
H303
H262
H247
H311
H283
H266
H249
H237
H157
H179
H170
H161
H150
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H137
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H099
H154
H146
H088
H081
H075
H067
H134
H126
H058
H114
H118
H049
H043
H111
H100
H094
H086
H042

0 0.05 0.1 0.2 0.3 0.4
Kilometers

670000

Legend

- Shadow Flicker Study Area
- Sensitive Receptors

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Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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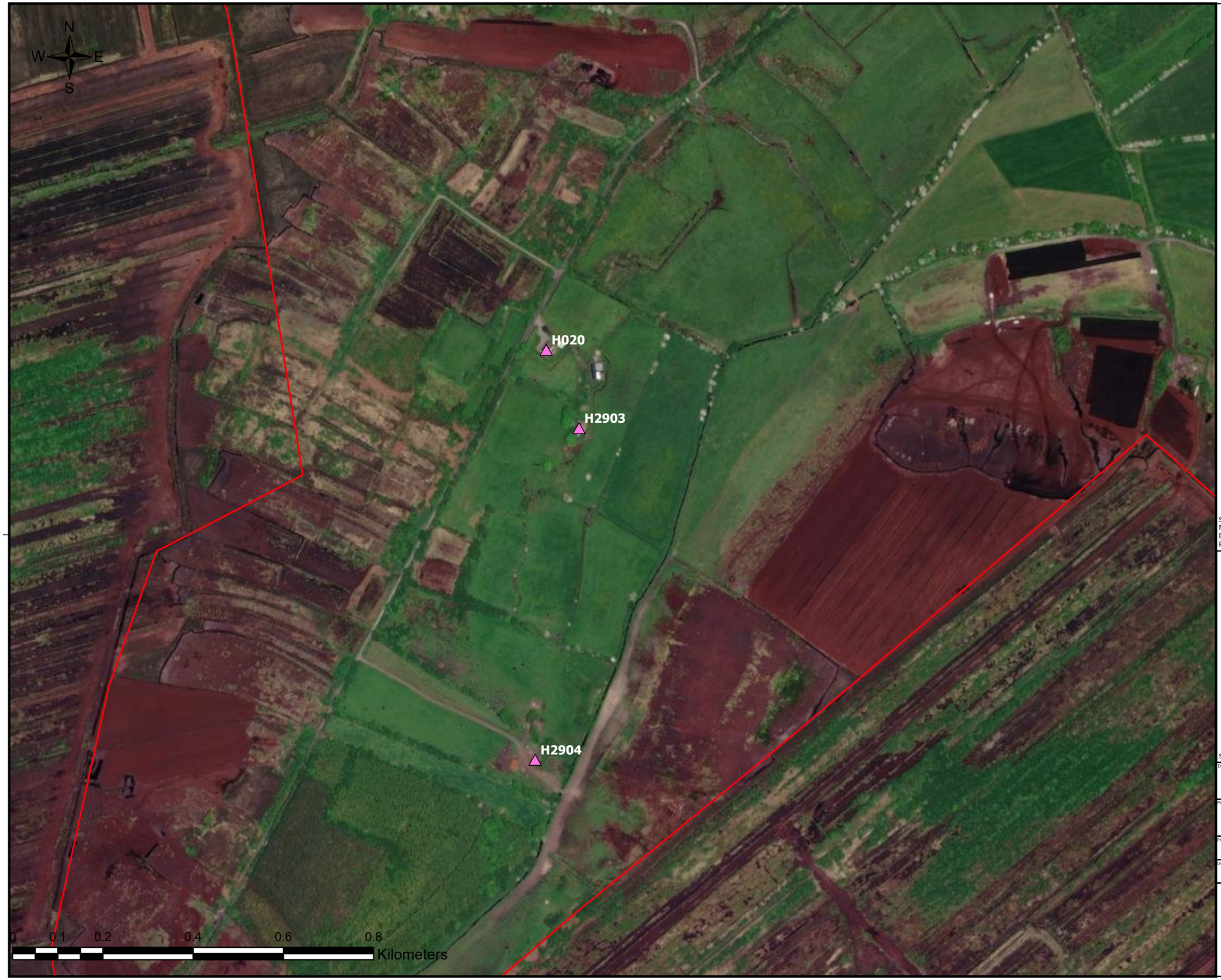
SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

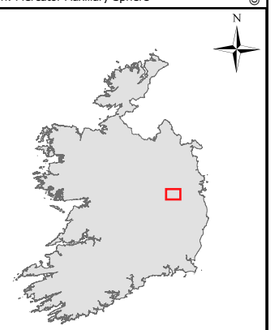


Legend

- Project Site
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

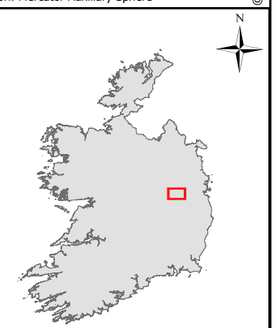


Legend

- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5C	1:6,000
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

665000

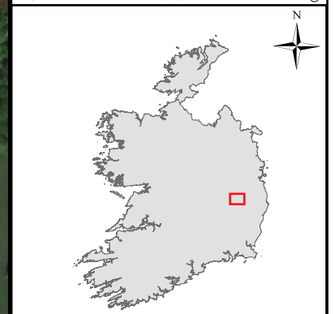


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5D	1:6,000
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

665000

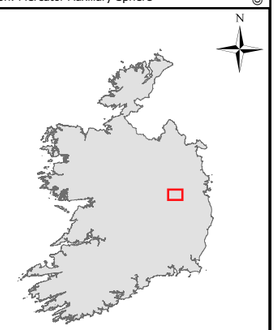


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

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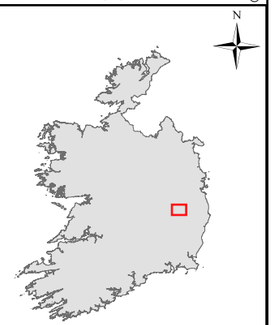


Legend

- Project Site
- Proposed Turbine Layout
  - 200
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

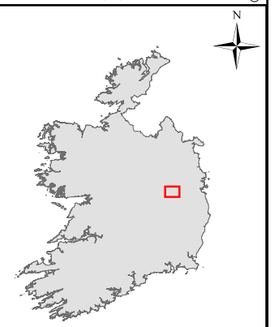


Legend

- Project Site
- Proposed Turbine Layout
  - 220
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

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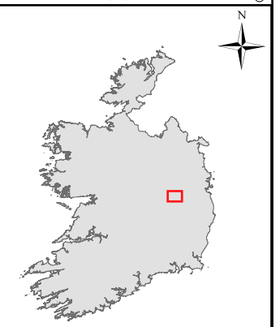


Legend

- Project Site
- Proposed Turbine Layout
  - 220
  - 200
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

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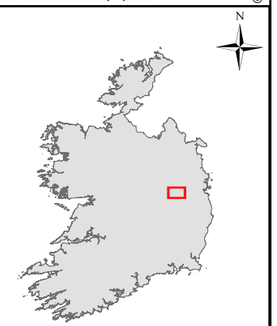


Legend

- Project Site
- Proposed Turbine Layout
  - 200
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
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Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

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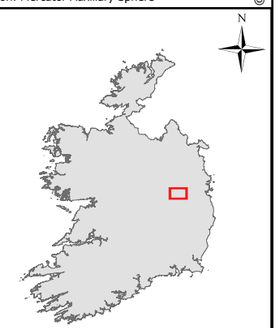


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5J	1:7,680
Drawn By	Checked By	Date
LPM	EC	21/10/2026

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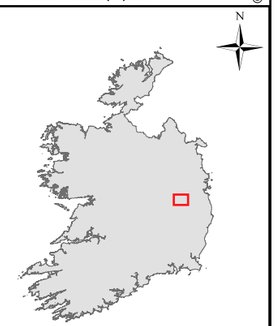


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

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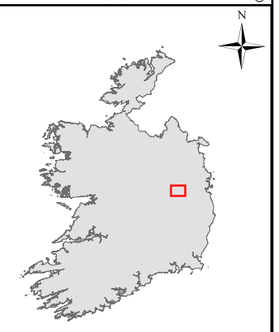


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5L	1:7,680
Drawn By	Checked By	Date
LPM	EC	21/10/2026

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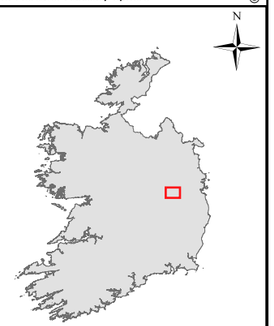


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5M	1:7,680
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

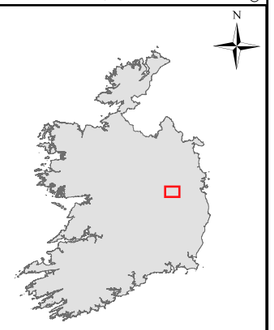


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

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Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere



SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5N	1:7,680
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

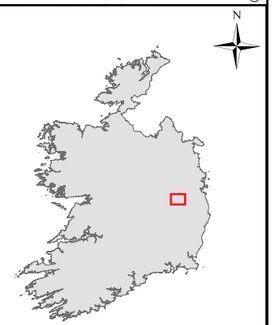


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5O	1:7,000
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

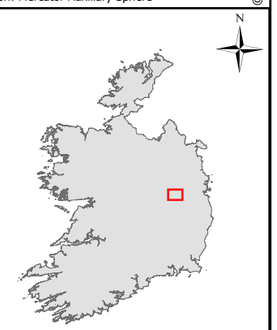


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5P	1:4,480
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

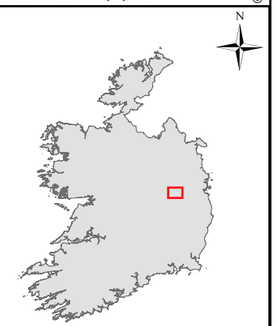


Legend

- Project Site
- Proposed Turbine Layout
  - 220
  - 200
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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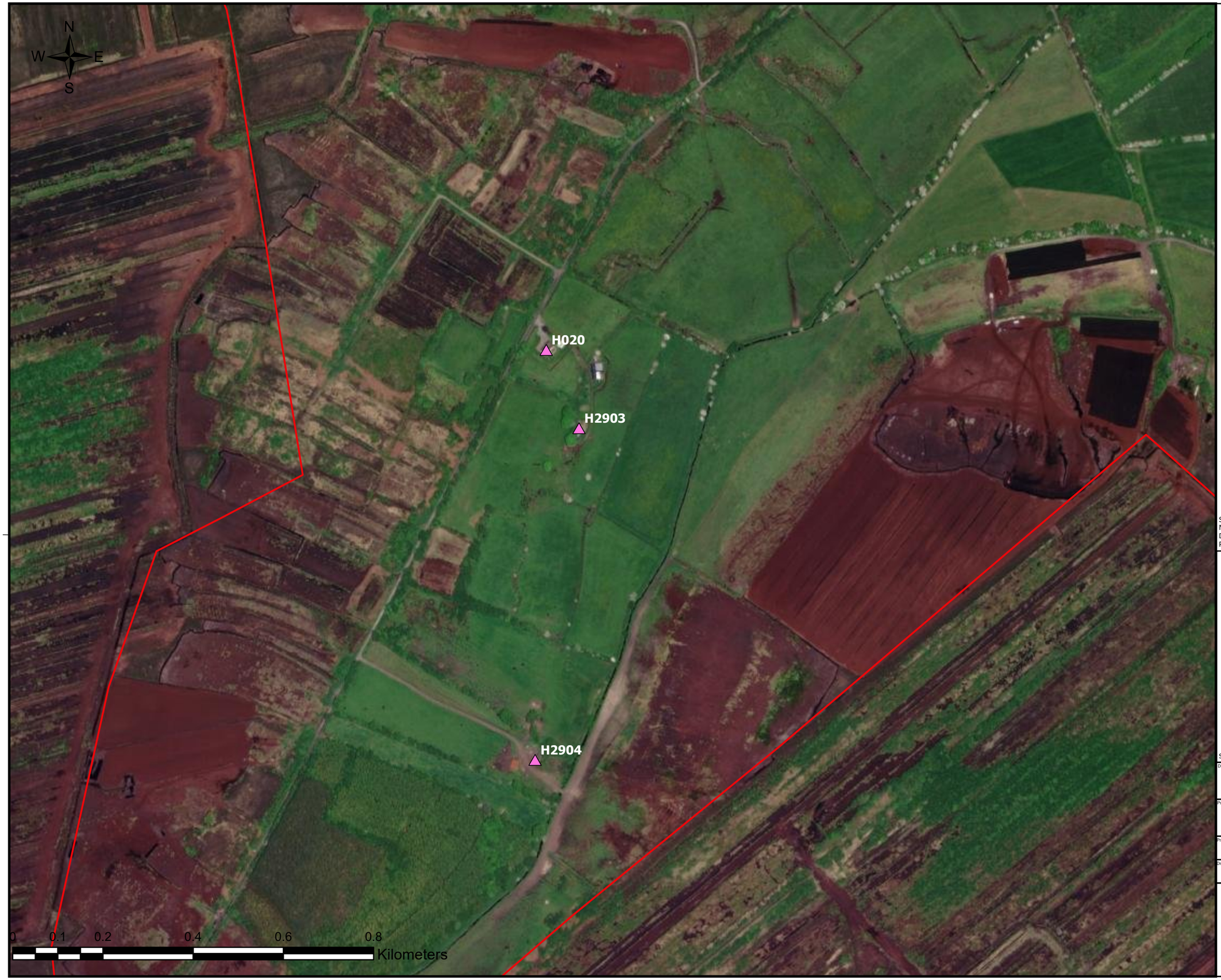
SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5Q	1:7,000
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

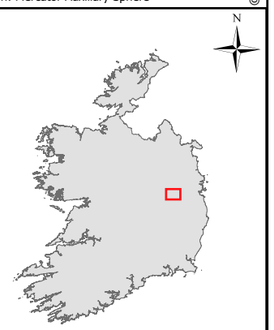


Legend

- Project Site
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5B	1:7,813
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

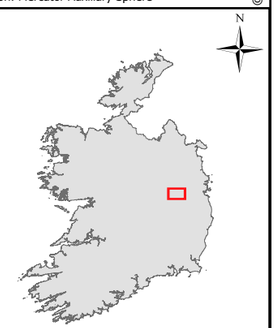


Legend

- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5C	1:6,000
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

665000

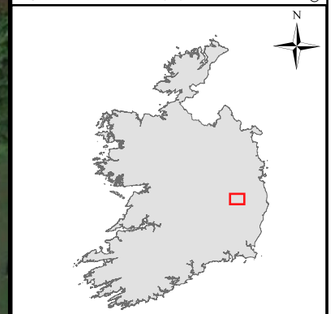


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5D	1:6,000
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

665000

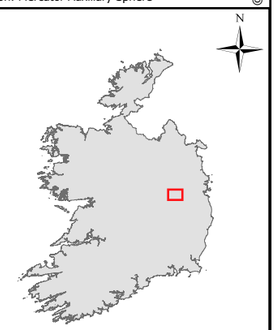


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5E	1:9,375
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

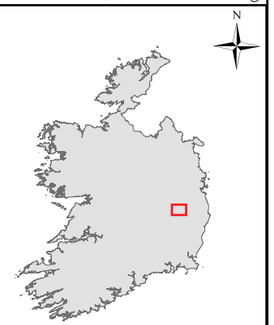


Legend

- Project Site
- Proposed Turbine Layout
  - 200
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5F	1:14,648
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

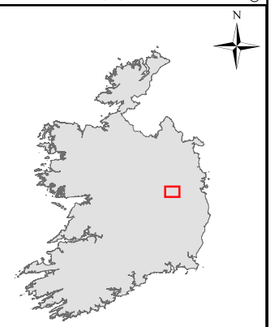


Legend

- Project Site
- Proposed Turbine Layout
  - 220
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5G	1:14,648
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

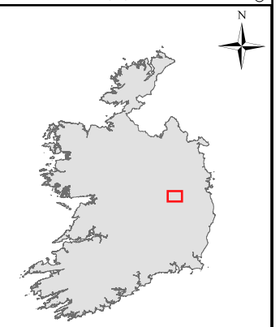


Legend

- Project Site
- Proposed Turbine Layout
  - 220
  - 200
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5H	1:14,648
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

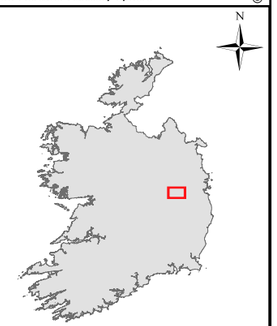


Legend

- Project Site
- Proposed Turbine Layout
- 200
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

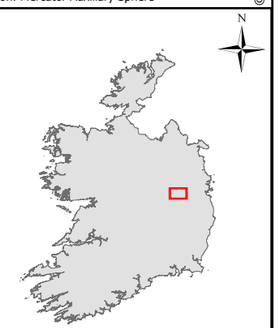


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

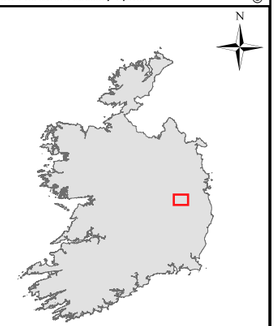


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

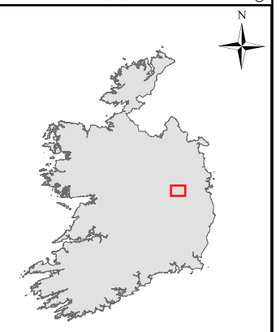


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

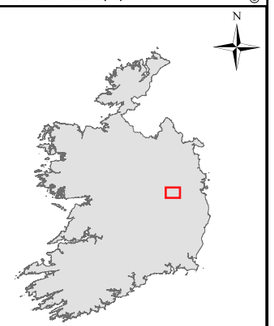


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

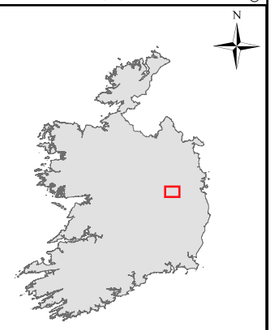


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

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Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere



SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
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Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

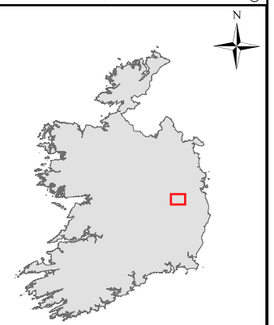


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5O	1:7,000
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

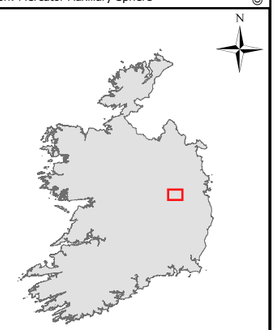


Legend

- Project Site
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5P	1:4,480
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie

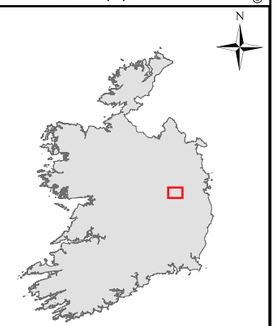


Legend

- Project Site
- Proposed Turbine Layout
  - 220
  - 200
- Shadow Flicker Study Area
- Sensitive Receptors

Spatial Reference
Name: WGS 1984 Web Mercator Auxiliary Sphere
Datum: WGS 1984
Projection: Mercator Auxiliary Sphere

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SITE LOCATION - NOT TO SCALE

Drawing Title
Sensitive Receptors within the Shadow Flicker Study Area

Project Title
Ballydermot Wind Farm
Co. Offaly & Co. Kildare

Project No.	Drawing No.	Scale
250708	5-5Q	1:7,000
Drawn By	Checked By	Date
LPM	EC	21/10/2026

Email: info@mkoireland.ie/ Website: www.mkoireland.ie