



APPENDIX 5-2

COMPARATIVE SHADOW FLICKER REPORT

House ID	ITM Coordinates (Easting)	ITM Coordinates (Northing)	Distance to Nearest Turbine (metres)	Nearest Proposed Turbine No.	Max. Daily Shadow Flicker: Pre-Mitigation (hrs:min:sec)			Max. Annual Shadow Flicker Adjusted for Average Regional Sunshine (hrs:min:sec)			Daily Mitigation			Annual Mitigation		
					Scenario 1 (Maximum)	Scenario 2 (Median)	Scenario 3 (Minimum)	Scenario 1 (Maximum)	Scenario 2 (Median)	Scenario 3 (Minimum)	Scenario 1 (Maximum)	Scenario 2 (Median)	Scenario 3 (Minimum)	Scenario 1 (Maximum)	Scenario 2 (Median)	Scenario 3 (Minimum)
					TH: 180 RD: 150 HH: 105	TH: 179.2 RD: 149 HH: 105	TH: 176.6 RD: 133.2 HH: 110	TH: 180 RD: 150 HH: 105	TH: 179.2 RD: 149 HH: 105	TH: 176.6 RD: 133.2 HH: 110	Mitigation Required	Mitigation Required	Mitigation Required	Mitigation Required	Mitigation Required	Mitigation Required
1	544958	829578	730	T7	01:24:00	01:23:00	01:13:00	26:19:21	26:05:55	22:54:45	No	No	No	No	No	No
2	545934	829097	728	T10	01:28:00	01:28:00	01:18:00	42:42:31	42:15:52	36:09:41	Yes	Yes	Yes	Yes	Yes	Yes
3	545958	829173	800	T10	01:20:00	01:19:00	01:11:00	37:10:19	36:42:56	31:11:28	No	No	No	No	No	No
4	545241	829434	815	T8	00:52:00	00:51:00	00:41:00	20:07:19	19:50:41	16:14:36	Yes	Yes	Yes	No	No	No
5	543464	829087	812	T6	00:44:00	00:44:00	00:39:00	14:22:39	14:11:09	11:13:41	No	No	No	No	No	No
6	547375	830027	731	T13	01:02:00	01:01:00	00:51:00	15:43:19	15:33:03	13:22:31	Yes	Yes	Yes	No	No	No
7	545149	829608	879	T7	00:41:00	00:41:00	00:37:00	11:50:36	11:35:41	8:56:33	Yes	Yes	Yes	No	No	No
8	547849	829933	772	T13	00:57:00	00:57:00	00:51:00	20:29:04	20:18:33	16:18:01	Yes	Yes	Yes	No	No	No
9	547815	829970	785	T13	00:53:00	00:52:00	00:47:00	18:12:25	18:03:37	15:52:07	Yes	Yes	Yes	No	No	No
10	546932	829944	806	T13	00:44:00	00:43:00	00:39:00	15:26:41	15:13:44	12:13:20	Yes	Yes	Yes	No	No	No
11	544874	829810	889	T7	00:56:00	00:55:00	00:48:00	9:38:51	9:28:35	8:08:39	Yes	Yes	Yes	No	No	No
12	545964	829256	882	T10	01:09:00	01:09:00	01:02:00	32:03:32	31:42:16	26:24:59	Yes	Yes	Yes	Yes	Yes	No
13	546624	829710	890	T13	00:39:00	00:38:00	00:34:00	16:24:23	16:04:49	12:24:35	Yes	Yes	Yes	No	No	No
14	545883	829358	968	T8	01:12:00	01:11:00	00:54:00	26:40:52	26:18:23	21:27:44	No	No	No	No	No	No
15	543312	829194	994	T6	00:36:00	00:36:00	00:32:00	10:03:47	9:56:41	7:53:00	Yes	Yes	Yes	No	No	No
16	547509	830188	897	T13	00:41:00	00:41:00	00:37:00	8:43:21	8:35:47	7:38:49	No	No	No	No	No	No
17	545878	829392	991	T8	01:02:00	01:01:00	00:51:00	22:24:12	22:05:37	18:30:16	Yes	Yes	Yes	No	No	No
18	545359	829653	1038	T8	00:34:00	00:34:00	00:30:00	10:22:21	10:16:00	8:53:08	Yes	Yes	No	No	No	No
19	547669	830217	956	T13	00:39:00	00:39:00	00:35:00	8:33:35	8:26:59	7:29:17	Yes	Yes	Yes	No	No	No
20	544709	830068	1090	T7	00:00:00	00:00:00	00:00:00	0:00:00	0:00:00	0:00:00	No	No	No	No	No	No
21	545909	829518	1110	T8	00:49:00	00:48:00	00:40:00	16:55:25	16:38:04	13:49:09	Yes	Yes	Yes	No	No	No
22	547747	830300	1058	T13	00:35:00	00:35:00	00:31:00	7:00:12	6:55:04	6:08:37	Yes	Yes	Yes	No	No	No
23	545248	829955	1205	T7	00:31:00	00:31:00	00:28:00	7:54:57	7:48:21	6:50:25	Yes	Yes	No	No	No	No
24	545917	829602	1183	T8	00:48:00	00:48:00	00:39:00	12:50:00	12:40:28	10:31:09	Yes	Yes	Yes	No	No	No
25	547832	830352	1136	T13	00:33:00	00:33:00	00:30:00	6:27:41	6:24:31	5:40:16	Yes	Yes	No	No	No	No
26	547357	830453	1158	T13	00:20:00	00:19:00	00:16:00	1:40:57	1:36:19	1:13:05	No	No	No	No	No	No
27	543804	830011	1243	T7	00:30:00	00:30:00	00:27:00	7:43:28	7:38:20	6:36:44	No	No	No	No	No	No
28	547757	830440	1194	T13	00:28:00	00:27:00	00:25:00	3:55:09	3:51:29	3:21:11	No	No	No	No	No	No
29	543117	829458	1320	T6	00:28:00	00:28:00	00:24:00	7:01:25	6:55:04	5:30:00	No	No	No	No	No	No
30	547001	830458	1232	T13	00:29:00	00:29:00	00:26:00	4:46:15	4:42:49	4:08:07	No	No	No	No	No	No
31	545122	830183	1332	T7	00:19:00	00:18:00	00:15:00	1:39:29	1:37:17	1:15:32	No	No	No	No	No	No
32	545119	830242	1384	T7	00:08:00	00:07:00	00:00:00	0:18:49	0:14:55	0:00:00	No	No	No	No	No	No
33	545108	830272	1406	T7	00:00:00	00:00:00	00:00:00	0:00:00	0:00:00	0:00:00	No	No	No	No	No	No
34	543122	829581	1409	T6	00:27:00	00:26:00	00:24:00	6:24:31	6:19:37	4:31:20	No	No	No	No	No	No
35	547832	830540	1312	T13	00:25:00	00:25:00	00:22:00	3:12:37	3:09:27	2:42:33	No	No	No	No	No	No
36	543170	829643	1429	T6	00:26:00	00:26:00	00:23:00	8:36:16	8:30:09	7:16:49	No	No	No	No	No	No
37	545216	830261	1445	T7	00:17:00	00:17:00	00:14:00	1:22:23	1:19:56	1:01:07	No	No	No	No	No	No
38	546907	830588	1387	T13	00:24:00	00:24:00	00:21:00	3:15:04	3:12:08	2:45:44	No	No	No	No	No	No
39	543102	829650	1476	T6	00:25:00	00:25:00	00:23:00	6:14:59	6:10:35	4:59:41	No	No	No	No	No	No
42	547884	830718	1498	T13	00:14:00	00:14:00	00:11:00	0:58:55	0:57:12	0:41:33	No	No	No	No	No	No