Appendix A

Noise Assessment Report

Environment

NextEra Energy Canada, ULC

Goshen Wind Energy Centre – Noise Assessment Report

draft for discussion

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1. Introduction

AECOM was retained by NextEra Energy Canada, ULC (NextEra) to prepare a Noise Assessment Report for the proposed Goshen Wind Energy Centre (Goshen). This report has been prepared in accordance with the Ontario Ministry of the Environment (MOE) guideline "Noise Guidelines for Wind Farms – Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities" (October 2008). This report will form part of the Renewable Energy Approval (REA) application for the Facility as required under Ontario Regulation 359/09.

2. Project Layout

Approval is being sought for 72 wind turbines, 71 of which are rated at 1.6 Megawatts maximum generation capacity, and one wind turbine rated at 1.56 Megawatts maximum generation capacity.

However, it is expected that only 63 of the wind turbines will actually be installed in order to achieve the total peak generation target of approximately 102 Megawatts facility wide. All of the wind turbines will feed into a centrally located transformer substation.

The proposed project is located in Huron County, within the Municipalities of Bluewater and South Huron. The Project Study Area consists of the areas being studied for the wind farm components (Wind Energy Centre Study Area), as well as for the interconnection route (i.e., the area being studied for transmission lines to connect the Project to the electrical grid) (Transmission Line Study Area). The Wind Energy Centre Study Area is generally bounded by Klondyke Road to the west, Rogerville Road to the north, Parr Line to the east, and Mount Carmel Drive to the south, in the Municipalities of Bluewater and South Huron. The Transmission Line Study Area is located to the east of the Wind Energy Centre Study Area, and is generally bounded by Parr Line to the west, Thames Road to the north, Perth 164 Road to the east, and Park Road to the south, extending into the Municipality of South Huron.

A figure showing the project location, wind turbine layout and transformer location is provided in Appendix A.

3. Noise Assessment Guideline

Part V.0.1 of the Ontario Environmental Protection Act R.S.O. 1990 (EPA) addresses the approvals process required for renewable energy projects and Ontario Regulation 359/09, which forms part of the EPA, outlines the specific requirements for obtaining a Renewable Energy Approval (REA) from the MOE.

As required by O.Reg. 359/09, noise from wind farm projects requiring approval within Ontario is assessed using the MOE guideline: "Noise Guidelines for Wind Farms – Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities" (PIBS 4709e, October 2008). This guideline sets the definitions, assessment procedures and noise level limits for noise assessments of wind farm projects.

The Project Study Area is best defined as a Class 3 Area, as per MOE Publication 4709e. A Class 3 Area is defined as "a rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic, such as the following: a small community with less than 1000 population; agricultural area; a rural recreational area such as a cottage or a resort area; or a wilderness area." The MOE noise level limits, at integer wind speeds, for points of reception in Class 3 areas are summarized in Table 1 below.

Table 1. Noise Level Limits for Wind Turbines

Point of Reception Classifications	1-hr L_{EQ} Sound Level Limit (dBA) at 10m height Wind Speeds (m/s)				
	Less than or equal to 6 m/s	7 m/s	8 m/s	9 m/s	Greater than or equal to 10 m/s
Class 1 & 2 Areas	45.0	45.0	45.0	49.0	51.0
Class 3 Areas	40.0	43.0	45.0	49.0	51.0

4. Noise Sources

There are two wind turbine models proposed for this project. These are the following:

- 71 GE 1.6-100 with Low-Noise Trailing Edges (LNTEs) wind turbines manufactured by General Electric.
  - Hub height of 80 metres
  - Rotor diameter of 100 metres
  - Operates between 9.75 and 15.33 revolutions per minute
  - Electrical generation rating of 1.6 Megawatts
- One GE 1.56-100 wind turbine manufactured by General Electric.
  - Hub height of 80 metres
  - Rotor diameter of 100 metres
  - Operates between 9.75 and 16.18 revolutions per minute
  - Electrical generation rating of 1.56 Megawatts

Manufacturers' noise data for the wind turbine models are summarized in Table 3 and Table 4 of Section 0 and the original manufacturer's datasheet is provided in Appendix D. The noise datasheets provided have been prepared and reported in accordance with IEC 61400-11[1] (equivalent to CAN/CSA-C61400-11). The calculations used to adjust for site specific wind shear are also presented in Appendix D.

The electricity generated by each wind turbine will be collected at a central transformer substation. The performance specification of the transformer will require that the noise emissions be measured in accordance with ANSI C57.12.90 at the highest (MVA) rating with all fans in operation and at the tap position that creates the highest current. The performance specification will require that the average sound pressure level measured in accordance with Section 13 of ANSI C57.12.90[2] shall not exceed 80 dBA over the measurement surface (as defined in the ANSI standard). An estimate of the noise emissions expected from the transformer is provided in Table 6. Appendix D includes a detailed calculation to support the transformer emission estimate. Note that a 5dB penalty has been added to the transformer emission level in the noise prediction modelling as per the requirements of PIBS 4709e[3].

The MOE requires that the cumulative noise impact of existing or proposed[4] wind farms also be included in the noise impact analysis. To that end all existing or proposed wind farms within 5 kilometres of the Goshen Wind Energy Centre were included in the noise impact analysis. There is one such facility which is named The Zurich Wind Farm. The Zurich Wind Farm consists of one (1) Enercon E-48 model turbine which has a rated generation capacity of 800 kilowatts. Manufacturer's noise data for the E-48 are summarized in Table 5 of Section 8 and the original

1. *IEC 61400-11, Wind turbine generator systems – Part 11: Acoustic noise measurement techniques, International Electrotechnical Commission, 2006.*
2. *ANSI C57.12.90 (IEEE C57.12.90-1993), IEEE Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers and IEEE Guide for Short-Circuit Testing of Distribution and Power Transformers, Institute of Electrical and Electronics Engineers, Inc., 1993.*
3. *PIBS 4709e, Noise Guidelines for Wind Farms – Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities, Ontario Ministry of the Environment, Queens Printer for Ontario, October 2008.*
4. *Proposed projects which have not yet published a site plan do not have to be accounted for in the noise impact analysis as insufficient information would be available to do so.*

manufacturer's datasheet is provided in Appendix D. The noise datasheets have been prepared and reported in accordance with IEC 61400-11 (equivalent to CAN/CSA-C61400-11). The calculations used to adjust for site specific wind shear are also presented in Appendix D.

Table 7 of Section 0 provides the coordinates of all noise sources considered in the noise impact analysis and assessment.

5. Points of Reception

Table 8 in Section 8 lists all of the points of reception considered in the noise impact analysis as well as their coordinates. The points of reception have been classified into four (4) different categories which are outlined in Table 2, below.

Table 2. Point of Reception Classifications

Class	Number of Points of Reception	Description	Remarks
POR	419	Non-participating	MOE Limits Apply
PR	52	Participating	MOE Limits Do Not Apply
VPO	382	Vacant Lot Non-participating	MOE Limits Apply
VPR	57	Vacant Lot Participating	MOE Limits Do Not Apply

The classifications POR and VPO are both non-participating and are subject to the noise level limits outlined in the MOE noise guideline (PIBS 4709e, see Table 1).

Vacant lots are defined as receptors under PIBS 4709e as any that have been zoned by the local municipality to permit residential or similar noise sensitive uses. Where the receptor location is unknown at the time of the proposal, it is to be assumed to be based on a 1 hectare building envelope within the vacant lot property that would reasonably be expected to contain a noise sensitive use.

The classifications PR and VPR are both participating and are not subject to the noise level limits outlined in the MOE noise guideline. Participating points of reception are associated with the wind farm development via a legal agreement with the owner of the subject property to allow the installation and operation of wind turbines or related equipment.

6. Detailed Noise Impact Assessment

The noise analysis for the Goshen Wind Energy Centre was completed using SoundPLAN 7.1 environmental noise modelling software. The noise modelling was conducted in accordance with the international standard ISO 9613-2. The noise predictions were calculated using downwind propagation from each source to each point of reception, which produces a theoretical worst case prediction at each point of reception. The noise impact calculations were completed using octave band spectral values in the range of 63 to 8000Hz for each integer wind speed from 6 to 10 m/s.

The noise model was configured to calculate the contribution of each noise source within 5 kilometres from each point of reception. The air attenuation and ground attenuation calculation within the model were configured according to Section 6.4.10 of the MOE noise guideline (PIBS 4709e).

The noise impact at each point of reception, for each integer wind speed from 6 to 10m/s, is presented in Table 8 within Section 8. All of the noise predictions were completed in accordance with the detailed requirements of the MOE noise guideline (PIBS 4709e).

7. Results and Compliance

The results of the noise modelling in Table 8 within Section 8 show that the wind energy centre is in compliance with the MOE noise level limits at all points of reception within 1500 metres of turbines associated with the project.

Therefore, the 419 non-participating and 382 vacant lot non-participating points of reception assessed comply with the MOE sound level limits for Wind Turbines in Class 3 areas (See Table 1). Appendix B includes noise contour maps for each integer wind speed from 6 to 10m/s and a sample calculation is provided in Appendix C. In order to achieve compliance with the MOE noise limits in the vicinity of the transformer substation a five (5) metre high noise barrier is required surrounding this source of noise.

8. Summary Tables

Table 3. Wind Turbine Acoustic Emission Summary – GE 1.6-100 LNTE

Make: General Electric Model: GE 1.6-100 LNTE Electrical Rating: 1.6 Megawatts Hub Height (m): 80 metres Wind Shear Coefficient: 0.2627											
		Octave Band Sound Power Level (dBA)									
		Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed (m/s)		6	7	8	9	10	6	7	8	9	10
Frequency (Hz)	63	85.5	89.2	89.6	89.7	89.6	89.2	89.7	89.6	89.6	89.6
	125	90.8	93.9	94.3	94.4	94.3	93.9	94.4	94.3	94.3	94.3
	250	94.4	95.0	95.1	95.2	95.2	95.0	95.2	95.2	95.2	95.2
	500	95.0	96.3	96.1	96.2	96.5	96.3	96.2	96.5	96.5	96.5
	1000	91.2	96.4	96.9	97.0	97.2	96.4	97.0	97.2	97.2	97.2
	2000	91.9	95.0	95.2	94.9	94.3	95.0	94.9	94.3	94.3	94.3
	4000	88.4	89.0	88.6	87.9	87.1	89.0	87.9	87.1	87.1	87.1
	8000	69.7	69.7	70.0	68.8	68.7	69.7	68.8	68.7	68.7	68.7
Overall		101.6	102.8	103.0	103.0	103.0	102.8	103.0	103.0	103.0	103.0

Table 4. Wind Turbine Acoustic Emission Summary – GE 1.56-100

Make: General Electric Model: GE 1.56-100 Electrical Rating: 1.56 Megawatts Hub Height (m): 80 metres Wind Shear Coefficient: 0.2627											
		Octave Band Sound Power Level (dBA)									
		Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed (m/s)		6	7	8	9	10	6	7	8	9	10
Frequency (Hz)	63	86.2	90.5	91.2	91.2	91.2	90.5	91.2	91.2	91.2	91.2
	125	90.1	94.2	94.8	94.9	94.8	94.2	94.8	94.8	94.8	94.8
	250	91.9	93.9	94.2	94.2	94.2	93.9	94.2	94.2	94.2	94.2
	500	94.6	95.7	94.6	94.5	94.5	95.7	94.6	94.5	94.5	94.5
	1000	95.2	99.6	99.1	98.9	98.8	99.6	99.1	98.8	98.8	98.8
	2000	91.3	97.2	98	98.1	98.2	97.2	98	98.2	98.2	98.2
	4000	84.6	88.4	88.8	89.2	89.5	88.4	88.8	89.5	89.5	89.5
	8000	68	71.1	71.2	70.7	70.5	71.1	71.2	70.5	70.5	70.5
Overall		100.4	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0

Table 5. Wind Turbine Acoustic Emission Summary – E-48

Make: ENERCON Model: E-48 Electrical Rating: 800 Kilowatts Hub Height (m): 76 metres Wind Shear Coefficient: 0.2627											
		Octave Band Sound Power Level (dBA)									
		Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed (m/s)		6	7	8	9	10	6	7	8	9	10
Frequency (Hz)	63	79.5	81.6	79.6	79.8	78.6	81.6	79.8	78.6	78.6	78.6
	125	83.6	86.3	86.0	87.3	84.4	86.3	87.3	84.4	84.4	84.4
	250	90.5	93.8	95.1	96.1	93.3	93.8	96.1	93.3	93.3	93.3
	500	92.8	95.7	97.1	97.5	96.8	95.7	97.5	96.8	96.8	96.8
	1000	92.6	94.1	95.5	95.1	97.9	94.1	95.1	97.9	97.9	97.9
	2000	87.4	89.0	89.1	90.0	92.7	89.0	90.0	92.7	92.7	92.7
	4000	83.6	86.1	85.8	88.8	87.6	86.1	88.8	87.6	87.6	87.6
	8000	80.2	83.6	83.6	87.1	84.6	83.6	87.1	84.6	84.6	84.6
Overall		97.8	100.3	101.4	102.0	102.1	100.3	102.0	102.1	102.1	102.1

Table 6. Transformer Acoustic Emission Summary

Octave Band Centre Frequency (Hz)	31	63	125	250	500	1000	2000	4000	8000	Overall
Transformer Sound Power (dBA)	91.0	97.0	99.0	94.0	94.0	88.0	83.0	78.0	71.0	103.0
Tonal Penalty[1] (dB)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Resultant Transformer Sound Power (dBA)	**96.0**	**102.0**	**104.0**	**99.0**	**99.0**	**93.0**	**88.0**	**83.0**	**76.0**	**108.0**

Notes: 1. The tonal penalty is required for transformers serving more than one wind turbine as per MOE PIBS 4709e.

Table 7. Wind Turbine and Transformer Locations

Identifier	Equipment Make & Model	UTM Coordinates		Remarks
		X	Y	
Project Name: Goshen Wind Energy Facility				
SUB	Unknown	454558	4794974	Transformer
G_02	GE 1.6-100 LNTE	450520	4805782	-
G_03	GE 1.6-100 LNTE	451051	4805361	-
G_04	GE 1.6-100 LNTE	450524	4804972	-
G_05	GE 1.6-100 LNTE	451300	4804616	-
G_06	GE 1.6-100 LNTE	451203	4803770	-
G_07	GE 1.6-100 LNTE	446869	4804385	-
G_08	GE 1.6-100 LNTE	447071	4803417	-
G_09	GE 1.6-100 LNTE	446830	4802090	-
G_10	GE 1.6-100 LNTE	448722	4804602	-
G_11	GE 1.6-100 LNTE	448568	4803670	-
G_12	GE 1.6-100 LNTE	449241	4803328	-
G_13	GE 1.6-100 LNTE	448911	4802237	-
G_14	GE 1.6-100 LNTE	448875	4801624	-
G_15	GE 1.6-100 LNTE	449226	4800450	-
G_16	GE 1.6-100 LNTE	444383	4793947	-
G_17	GE 1.6-100 LNTE	443972	4792675	-
G_19	GE 1.6-100 LNTE	445549	4795811	-

Identifier	Equipment Make & Model	UTM Coordinates		Remarks
		X	Y	
G_20	GE 1.6-100 LNTE	445679	4795219	-
G_21	GE 1.6-100 LNTE	445847	4794126	-
G_22	GE 1.6-100 LNTE	447530	4795721	-
G_23	GE 1.6-100 LNTE	447843	4796331	-
G_31	GE 1.6-100 LNTE	452335	4797930	-
G_32	GE 1.6-100 LNTE	452553	4796971	-
G_33	GE 1.6-100 LNTE	452366	4796399	-
G_34	GE 1.6-100 LNTE	453108	4799573	-
G_35	GE 1.6-100 LNTE	454089	4796605	-
G_36	GE 1.6-100 LNTE	446196	4792203	-
G_37	GE 1.6-100 LNTE	446287	4791638	-
G_38	GE 1.6-100 LNTE	446167	4791042	-
G_39	GE 1.6-100 LNTE	447984	4793710	-
G_41	GE 1.6-100 LNTE	448895	4791606	-
G_42	GE 1.6-100 LNTE	448990	4790737	-
G_46	GE 1.6-100 LNTE	452699	4790500	-
G_47	GE 1.6-100 LNTE	452425	4792588	-
G_48	GE 1.6-100 LNTE	452825	4793244	-
G_49	GE 1.6-100 LNTE	454586	4792838	-
G_50	GE 1.6-100 LNTE	455040	4793271	-
G_52	GE 1.56-100	440156	4788373	-
G_53	GE 1.6-100 LNTE	442135	4790871	-
G_54	GE 1.6-100 LNTE	439792	4790436	-
G_55	GE 1.6-100 LNTE	440005	4789811	-
G_56	GE 1.6-100 LNTE	439925	4788922	-
G_57	GE 1.6-100 LNTE	438121	4790232	-
G_58	GE 1.6-100 LNTE	437973	4789428	-
G_59	GE 1.6-100 LNTE	438098	4788616	-
G_60	GE 1.6-100 LNTE	437501	4789050	-
G_61	GE 1.6-100 LNTE	437294	4788459	-
G_62	GE 1.6-100 LNTE	437743	4788017	-
G_63	GE 1.6-100 LNTE	438227	4787615	-
G_64	GE 1.6-100 LNTE	446988	4791822	-
G_65	GE 1.6-100 LNTE	454014	4798992	-
G_66	GE 1.6-100 LNTE	446376	4794650	-
G_67	GE 1.6-100 LNTE	453955	4799707	-
G_68	GE 1.6-100 LNTE	450577	4790696	-
G_69	GE 1.6-100 LNTE	450788	4791504	-
G_70	GE 1.6-100 LNTE	450838	4792170	-
G_71	GE 1.6-100 LNTE	451847	4795547	-
G_72	GE 1.6-100 LNTE	450670	4804345	-
G_73	GE 1.6-100 LNTE	453192	4800669	-
G_74	GE 1.6-100 LNTE	453886	4795484	-
G_75	GE 1.6-100 LNTE	454731	4795014	-
G_76	GE 1.6-100 LNTE	454137	4793736	-
G_77	GE 1.6-100 LNTE	453186	4791237	-
G_78	GE 1.6-100 LNTE	447027	4790721	-
G_79	GE 1.6-100 LNTE	441914	4791634	-
G_80	GE 1.6-100 LNTE	445510	4796315	-
G_81	GE 1.6-100 LNTE	450167	4794140	-
G_82	GE 1.6-100 LNTE	452242	4793145	-
G_83	GE 1.6-100 LNTE	441815	4792131	-
G_84	GE 1.6-100 LNTE	438410	4790647	-
G_85	GE 1.6-100 LNTE	446173	4795111	-
G_86	GE 1.6-100 LNTE	446578	4793447	-
Project Name: Zurich Wind Farm				
Z_1	E-48	446741	4808398	Existing Turbine

Table 8. Noise Impact Summary

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_0042	POR	4.5	435880	4787164	1917	G_61	20248	28.9	29.1	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0043	POR	4.5	435890	4787195	1889	G_61	20227	29.1	29.2	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_0044	POR	4.5	435919	4787234	1842	G_61	20185	29.3	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0047	POR	4.5	435823	4787163	1960	G_61	20301	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0050	POR	4.5	435804	4787584	1728	G_61	20161	29.7	29.9	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_0051	POR	4.5	435974	4787456	1658	G_61	20050	30.1	30.3	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0052	POR	4.5	435980	4787481	1638	G_61	20035	30.2	30.4	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0054	POR	4.5	436116	4787567	1478	G_61	19877	31.1	31.3	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_0056	POR	4.5	436220	4787609	1370	G_61	19765	31.7	31.9	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0057	POR	4.5	436266	4787656	1304	G_61	19705	32.1	32.3	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0061	POR	4.5	436378	4787821	1116	G_61	19540	33.3	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0064	POR	4.5	436562	4788408	734	G_61	19160	36.3	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0065	POR	4.5	436572	4788596	735	G_61	19087	36.5	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_0070	POR	4.5	436664	4788807	720	G_61	18930	37.1	37.3	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0073	POR	4.5	436756	4789096	746	G_60	18751	37.2	37.4	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0077	POR	4.5	436868	4789554	809	G_60	18505	36.4	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0078	POR	4.5	436577	4789928	1275	G_60	18679	33.3	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0082	POR	4.5	437059	4790173	1064	G_57	18149	35.1	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0083	POR	4.5	437095	4790318	1030	G_57	18076	34.9	35.1	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0084	POR	4.5	437088	4790351	1040	G_57	18075	34.8	34.9	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0085	POR	4.5	437079	4790357	1049	G_57	18082	34.7	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_0087	POR	4.5	437216	4790664	1003	G_57	17873	34.5	34.7	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0088	POR	4.5	437402	4790656	835	G_57	17694	35.8	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0092	POR	4.5	437475	4791235	1105	G_84	17491	33.4	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0118	POR	4.5	436991	4791820	1841	G_84	17851	29.0	29.2	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0120	POR	4.5	437031	4791797	1796	G_84	17816	29.2	29.4	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0201	POR	4.5	445500	4805823	1985	G_07	14134	25.7	26.7	26.6	26.6	26.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0202	POR	4.5	445601	4805856	1942	G_07	14095	26.1	27.1	27.0	27.0	27.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0204	POR	4.5	445566	4805372	1635	G_07	13747	27.2	27.8	27.8	27.8	27.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0206	POR	4.5	445738	4805399	1519	G_07	13656	27.5	28.2	28.2	28.2	28.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0219	POR	4.5	445798	4804521	1080	G_07	12958	31.2	31.5	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0220	POR	4.5	445613	4804500	1261	G_07	13068	29.9	30.2	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_0227	POR	4.5	445861	4804092	1050	G_07	12601	32.2	32.5	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0237	POR	4.5	445756	4803670	1323	G_07	12374	31.4	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0242	POR	4.5	445800	4803380	1272	G_08	12140	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0243	POR	4.5	445976	4802403	910	G_09	11352	32.9	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0244	POR	4.5	446129	4802319	737	G_09	11181	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_0250	POR	4.5	446226	4801292	1001	G_09	10458	31.4	31.6	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_0259	POR	4.5	446061	4800875	1438	G_09	10347	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0260	POR	4.5	446375	4800948	1229	G_09	10133	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0270	POR	4.5	446423	4800560	1583	G_09	9870	28.5	28.7	28.8	28.8	28.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0274	POR	4.5	446152	4800361	1857	G_09	9986	27.5	27.7	27.7	27.7	27.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_0275	POR	4.5	446400	4800302	1839	G_09	9745	27.8	28.0	28.1	28.1	28.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0329	POR	4.5	446629	4797579	1688	G_80	8348	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_0330	POR	4.5	446745	4797565	1652	G_23	8234	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_0332	POR	4.5	446791	4797288	1422	G_23	8107	32.1	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_0335	POR	4.5	446801	4797100	1295	G_23	8045	32.9	33.1	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0337	POR	4.5	446917	4796983	1133	G_23	7903	33.5	33.7	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0342	POR	4.5	446758	4796597	1117	G_23	7970	35.0	35.2	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_0344	POR	4.5	446860	4796191	818	G_22	7796	36.9	37.1	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0350	POR	4.5	446911	4795634	625	G_22	7678	38.6	38.9	38.9	38.9	38.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_0358	POR	4.5	447121	4794355	801	G_66	7466	37.6	37.8	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_0365	POR	4.5	447206	4793902	776	G_86	7433	37.9	38.1	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0366	POR	4.5	447368	4793656	618	G_39	7313	38.3	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0370	POR	4.5	447294	4793224	750	G_86	7475	37.5	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_0371	POR	4.5	447223	4792987	792	G_86	7603	37.1	37.4	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0380	POR	4.5	447548	4791410	695	G_64	7867	37.8	38.0	38.1	38.1	38.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0382	POR	4.5	447606	4791043	663	G_78	7990	37.5	37.7	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0385	POR	4.5	447885	4790558	873	G_78	8005	35.5	35.7	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0388	POR	4.5	447354	4788916	1834	G_78	9416	28.4	28.6	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0393	POR	4.5	446788	4788826	1910	G_78	9911	27.9	28.1	28.1	28.1	28.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0395	POR	4.5	448464	4788902	1909	G_42	8606	28.6	28.8	28.8	28.8	28.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0401	POR	4.5	448821	4789182	1564	G_42	8155	29.4	29.7	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_0402	POR	4.5	448706	4789013	1747	G_42	8357	28.6	28.8	28.9	28.9	28.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_0456	POR	4.5	445858	4789646	1430	G_38	10205	31.1	31.3	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0470	POR	4.5	445625	4790039	1140	G_38	10209	32.6	32.7	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0474	POR	4.5	445741	4790142	996	G_38	10058	33.6	33.8	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_0475	POR	4.5	445532	4790613	766	G_38	10028	35.5	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_0479	POR	4.5	445542	4790920	637	G_38	9889	37.1	37.3	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0481	POR	4.5	445500	4791311	719	G_38	9774	37.3	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0495	POR	4.5	445487	4791940	756	G_36	9568	37.3	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0507	POR	4.5	445354	4792202	842	G_36	9616	36.3	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0508	POR	4.5	445321	4792198	875	G_36	9648	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0509	POR	4.5	445698	4792822	794	G_36	9121	37.0	37.2	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_0512	POR	4.5	445216	4793124	1171	G_16	9527	35.7	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0513	POR	4.5	445320	4793008	1190	G_36	9448	35.7	35.9	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0521	POR	4.5	445162	4793358	977	G_16	9537	36.2	36.4	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0522	POR	4.5	445102	4793796	735	G_16	9532	37.7	37.9	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0523	POR	4.5	445244	4793778	696	G_21	9394	37.8	38.0	38.1	38.1	38.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0524	POR	4.5	445268	4793737	698	G_21	9375	37.7	37.9	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0533	POR	4.5	445158	4794251	700	G_21	9431	38.3	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0537	POR	4.5	445127	4794547	834	G_21	9444	38.0	38.2	38.3	38.3	38.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_0539	POR	4.5	445006	4794507	838	G_16	9566	37.6	37.8	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_0541	POR	4.5	444946	4795496	680	G_19	9629	38.2	38.4	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0544	POR	4.5	444765	4796014	804	G_80	9851	36.7	36.9	37.0	37.0	37.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0550	POR	4.5	444751	4796385	762	G_80	9911	35.7	35.9	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0553	POR	4.5	444852	4796297	658	G_80	9798	37.0	37.2	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_0556	POR	4.5	444800	4796584	759	G_80	9893	35.4	35.6	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_0559	POR	4.5	444673	4796896	1019	G_80	10073	32.9	33.1	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0563	POR	4.5	445345	4796844	554	G_80	9403	37.4	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0564	POR	4.5	444506	4797953	1921	G_80	10486	27.5	27.7	27.8	27.8	27.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0567	POR	4.5	444605	4798053	1960	G_80	10421	27.3	27.4	27.5	27.5	27.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0568	POR	4.5	444626	4797735	1673	G_80	10311	28.6	28.8	28.8	28.8	28.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0769	POR	4.5	439554	4788402	603	G_52	16383	39.4	39.5	39.5	39.5	39.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0772	POR	4.5	439315	4787271	1141	G_63	17082	33.6	33.7	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0782	POR	4.5	439723	4787786	729	G_52	16488	36.5	36.5	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0784	POR	4.5	439779	4787697	774	G_52	16477	36.0	36.0	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_0785	POR	4.5	440033	4787833	554	G_52	16189	38.2	38.2	38.1	38.1	38.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0791	POR	4.5	440415	4787786	642	G_52	15868	36.7	36.7	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0792	POR	4.5	440700	4787826	771	G_52	15596	35.2	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0801	POR	4.5	439036	4791109	778	G_84	15999	36.2	36.4	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0802	POR	4.5	439353	4790837	595	G_54	15761	37.9	38.1	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0803	POR	4.5	439378	4790850	585	G_54	15733	37.9	38.1	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0807	POR	4.5	439500	4791426	1032	G_54	15474	33.8	34.0	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0811	POR	4.5	439014	4791841	1338	G_84	15860	31.9	32.1	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0821	POR	4.5	439541	4792115	1698	G_54	15290	30.7	30.9	30.9	30.9	30.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_0851	POR	4.5	441384	4793142	1099	G_83	13304	31.6	31.8	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0854	POR	4.5	441042	4793130	1263	G_83	13644	30.5	30.7	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0862	POR	4.5	441673	4793563	1439	G_83	12965	30.1	30.3	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0864	POR	4.5	441678	4793548	1424	G_83	12962	30.2	30.4	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0865	POR	4.5	440955	4792734	1050	G_83	13789	32.1	32.4	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0871	POR	4.5	441292	4792345	565	G_83	13527	37.3	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0874	POR	4.5	441208	4792035	615	G_83	13673	37.3	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0879	POR	4.5	441161	4791860	708	G_83	13757	36.8	37.0	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_0885	POR	4.5	441225	4791607	690	G_79	13755	37.2	37.4	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_0890	POR	4.5	441332	4790705	820	G_53	13901	35.6	35.8	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_0895	POR	4.5	441394	4790518	821	G_53	13901	35.3	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_0896	POR	4.5	441587	4790457	687	G_53	13738	36.1	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_0898	POR	4.5	441597	4790069	966	G_53	13861	33.9	34.1	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0900	POR	4.5	441483	4789804	1250	G_53	14063	33.1	33.3	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0904	POR	4.5	441473	4789473	1506	G_55	14198	32.6	32.7	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_0906	POR	4.5	441663	4789566	1388	G_53	13986	32.2	32.3	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_0909	POR	4.5	441705	4789334	1596	G_53	14039	31.8	31.9	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0911	POR	4.5	441754	4789162	1751	G_53	14065	31.0	31.1	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_0918	POR	4.5	441334	4788992	1331	G_52	14517	32.9	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0936	POR	4.5	441612	4788459	1459	G_52	14496	30.9	31.0	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_0937	POR	4.5	441825	4788441	1670	G_52	14314	30.0	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1001	POR	4.5	443655	4789604	1979	G_53	12157	28.1	28.3	28.3	28.3	28.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1004	POR	4.5	443765	4789815	1942	G_53	11966	28.5	28.7	28.8	28.8	28.8	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_1005	POR	4.5	443625	4789873	1793	G_53	12068	28.8	29.0	29.1	29.1	29.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1009	POR	4.5	443678	4790126	1713	G_53	11915	29.5	29.7	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1010	POR	4.5	443583	4790175	1607	G_53	11982	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1011	POR	4.5	443570	4790177	1594	G_53	11993	29.9	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1012	POR	4.5	443566	4790146	1604	G_53	12009	29.8	30.0	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1015	POR	4.5	443546	4790322	1514	G_53	11958	30.2	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1016	POR	4.5	443562	4790344	1521	G_53	11934	30.2	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1017	POR	4.5	443458	4790531	1366	G_53	11959	30.9	31.1	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1020	POR	4.5	443618	4790648	1500	G_53	11768	30.5	30.7	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1022	POR	4.5	443626	4790691	1502	G_53	11744	30.7	31.0	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1024	POR	4.5	443423	4791787	1044	G_17	11585	33.7	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1025	POR	4.5	443429	4791737	1084	G_17	11593	33.5	33.7	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1028	POR	4.5	442477	4791796	586	G_79	12495	38.3	38.5	38.6	38.6	38.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1029	POR	4.5	443303	4793567	1115	G_17	11346	33.4	33.6	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1092	POR	4.5	448333	4793131	676	G_39	6495	36.2	36.4	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1100	POR	4.5	448145	4797329	1043	G_23	6834	31.8	32.0	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1110	POR	4.5	446055	4801759	843	G_09	10880	32.7	32.9	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1111	POR	4.5	446149	4801788	745	G_09	10824	33.8	34.0	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1115	POR	4.5	445863	4802981	1284	G_08	11821	31.7	31.9	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1116	POR	4.5	446097	4802942	1084	G_08	11623	33.1	33.3	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1177	POR	4.5	447524	4806107	1842	G_07	13169	29.2	30.0	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1179	POR	4.5	447791	4806137	1795	G_10	13054	29.6	30.3	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1185	POR	4.5	447574	4805699	1491	G_07	12799	31.0	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1187	POR	4.5	447853	4805649	1361	G_10	12606	31.3	31.7	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1190	POR	4.5	447593	4804867	870	G_07	12099	34.7	35.0	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1196	POR	4.5	447631	4804870	903	G_07	12080	34.7	35.0	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1197	POR	4.5	447639	4804908	931	G_07	12106	34.6	34.8	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1198	POR	4.5	447657	4804842	911	G_07	12042	34.8	35.1	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1208	POR	4.5	447826	4804135	876	G_11	11369	36.9	37.1	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1211	POR	4.5	447991	4804128	737	G_11	11266	37.4	37.6	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1215	POR	4.5	447911	4803622	659	G_11	10908	37.9	38.1	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1218	POR	4.5	447891	4803865	705	G_11	11113	37.6	37.8	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1223	POR	4.5	447984	4802763	1066	G_13	10193	36.1	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1224	POR	4.5	448327	4802884	822	G_11	10070	37.3	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1227	POR	4.5	448206	4802484	747	G_13	9837	36.9	37.1	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1231	POR	4.5	448207	4801884	717	G_14	9386	37.2	37.4	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1247	POR	4.5	448188	4801555	690	G_14	9160	36.5	36.8	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1251	POR	4.5	448338	4801383	589	G_14	8932	37.4	37.6	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1255	POR	4.5	448070	4800513	1158	G_15	8532	32.3	32.5	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1256	POR	4.5	448185	4800434	1041	G_15	8393	32.5	32.7	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1259	POR	4.5	448356	4800382	873	G_15	8230	33.5	33.7	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1261	POR	4.5	448491	4800563	744	G_15	8250	35.1	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1264	POR	4.5	448421	4800769	866	G_15	8442	35.0	35.2	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1271	POR	4.5	447833	4799267	1828	G_15	7980	28.0	28.2	28.3	28.3	28.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1286	POR	4.5	447824	4799376	1766	G_15	8047	28.5	28.7	28.7	28.7	28.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1287	POR	4.5	447977	4799311	1690	G_15	7883	28.2	28.4	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1289	POR	4.5	449768	4799683	939	G_15	6718	32.0	32.2	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1297	POR	4.5	449917	4799463	1205	G_15	6458	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1300	POR	4.5	448601	4798579	1973	G_15	6965	28.3	28.4	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1301	POR	4.5	448689	4798634	1894	G_15	6918	28.3	28.5	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1305	POR	4.5	449264	4799573	878	G_15	7014	32.6	32.8	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1309	POR	4.5	449298	4799442	1011	G_15	6903	31.5	31.8	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1310	POR	4.5	449393	4799500	965	G_15	6869	31.8	32.0	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1314	POR	4.5	448765	4798028	1931	G_23	6551	28.3	28.5	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1324	POR	4.5	449065	4797535	1715	G_23	6063	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1325	POR	4.5	449046	4797555	1716	G_23	6088	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1328	POR	4.5	448977	4797281	1479	G_23	6041	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1331	POR	4.5	448858	4796745	1096	G_23	5971	31.9	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1334	POR	4.5	449086	4796816	1334	G_23	5776	30.3	30.5	30.6	30.6	30.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1339	POR	4.5	448865	4796453	1029	G_23	5884	32.5	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1341	POR	4.5	449025	4796399	1184	G_23	5716	31.7	31.9	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1345	POR	4.5	448934	4796032	1131	G_23	5725	32.8	33.0	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1346	POR	4.5	448959	4795875	1206	G_23	5674	32.7	32.9	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1350	POR	4.5	448914	4795779	1205	G_23	5704	32.9	33.1	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1351	POR	4.5	449319	4794762	1052	G_81	5246	33.5	33.6	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1354	POR	4.5	449196	4794305	985	G_81	5407	33.8	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_1355	POR	4.5	449450	4794316	738	G_81	5153	35.3	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1356	POR	4.5	449244	4793939	945	G_81	5417	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1369	POR	4.5	449479	4793473	958	G_81	5299	34.2	34.4	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1370	POR	4.5	449433	4793526	957	G_81	5329	34.4	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1371	POR	4.5	449520	4793226	1120	G_81	5336	33.8	34.0	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1374	POR	4.5	449423	4793049	1321	G_81	5487	33.6	33.8	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1376	POR	4.5	450461	4793490	713	G_81	4361	35.9	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1377	POR	4.5	450502	4793501	721	G_81	4318	35.8	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1380	POR	4.5	449303	4792729	1195	G_41	5718	34.0	34.2	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1381	POR	4.5	449632	4792329	1032	G_41	5595	35.0	35.2	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1400	POR	4.5	449776	4791323	925	G_41	6020	36.9	37.1	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1416	POR	4.5	449764	4790256	911	G_42	6729	35.2	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1418	POR	4.5	450000	4790292	704	G_68	6537	35.9	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1419	POR	4.5	449979	4790099	845	G_68	6691	34.8	35.0	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1422	POR	4.5	449348	4789170	1607	G_42	7803	29.6	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1427	POR	4.5	450683	4789376	1324	G_68	6811	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1428	POR	4.5	450862	4789245	1479	G_68	6821	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1434	POR	4.5	451325	4789474	1433	G_68	6383	30.6	30.8	30.9	30.9	30.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1435	POR	4.5	451343	4789362	1538	G_68	6470	30.1	30.3	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1440	POR	4.5	451545	4789493	1532	G_46	6257	30.5	30.7	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1461	POR	4.5	452178	4789465	1159	G_46	6004	31.0	31.2	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1462	POR	4.5	452339	4789605	965	G_46	5812	32.4	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1465	POR	4.5	452556	4789627	885	G_46	5712	33.0	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1466	POR	4.5	452700	4789647	853	G_46	5644	33.2	33.4	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1471	POR	4.5	452824	4789565	943	G_46	5683	32.4	32.6	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1479	POR	4.5	453316	4789759	964	G_46	5363	32.3	32.5	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1489	POR	4.5	451390	4792571	682	G_70	3980	37.8	38.0	38.1	38.1	38.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1491	POR	4.5	451490	4793025	762	G_82	3638	37.2	37.4	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1492	POR	4.5	451488	4793057	759	G_82	3623	37.2	37.4	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1493	POR	4.5	451480	4793090	764	G_82	3612	37.1	37.3	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1494	POR	4.5	451473	4793154	769	G_82	3585	37.0	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1500	POR	4.5	451396	4793534	931	G_82	3478	35.7	35.9	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1504	POR	4.5	451614	4793578	763	G_82	3262	36.5	36.7	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1505	POR	4.5	451493	4793832	1016	G_82	3274	35.2	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1506	POR	4.5	451405	4793696	1002	G_82	3405	35.4	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1507	POR	4.5	451673	4793697	793	G_82	3158	36.3	36.5	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1511	POR	4.5	451313	4794212	1148	G_81	3336	34.5	34.7	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1514	POR	4.5	451128	4794533	1038	G_81	3461	34.3	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1515	POR	4.5	451423	4794636	1005	G_71	3156	34.7	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1516	POR	4.5	451488	4794619	995	G_71	3094	34.7	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1517	POR	4.5	451513	4794653	954	G_71	3065	34.8	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1519	POR	4.5	451133	4794971	917	G_71	3428	34.6	34.8	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1521	POR	4.5	451281	4795140	697	G_71	3284	36.0	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1523	POR	4.5	451143	4795331	736	G_71	3436	35.5	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1530	POR	4.5	451124	4795721	744	G_71	3517	35.5	35.7	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1532	POR	4.5	451001	4796251	1101	G_71	3781	33.5	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1535	POR	4.5	451187	4796239	956	G_71	3603	34.6	34.8	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1539	POR	4.5	450942	4796645	1423	G_71	3985	32.7	32.9	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1540	POR	4.5	450770	4797603	1599	G_31	4612	30.8	30.9	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1542	POR	4.5	450824	4797565	1554	G_31	4546	30.8	31.0	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1543	POR	4.5	450784	4797512	1606	G_31	4550	30.6	30.8	30.9	30.9	30.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1550	POR	4.5	450736	4798244	1630	G_31	5031	29.3	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1551	POR	4.5	450884	4798279	1492	G_31	4943	30.7	30.9	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1556	POR	4.5	450788	4798464	1637	G_31	5138	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1558	POR	4.5	450782	4798700	1733	G_31	5306	29.3	29.5	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1561	POR	4.5	450288	4799607	1356	G_15	6301	30.1	30.3	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1562	POR	4.5	450472	4799714	1447	G_15	6259	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1563	POR	4.5	450531	4799604	1555	G_15	6137	29.2	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1568	POR	4.5	450653	4799892	1532	G_15	6280	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1569	POR	4.5	450826	4799522	1850	G_15	5884	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1573	POR	4.5	450466	4800782	1284	G_15	7105	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1578	POR	4.5	450196	4801119	1178	G_15	7536	32.1	32.3	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1579	POR	4.5	450205	4801132	1193	G_15	7542	32.0	32.2	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1581	POR	4.5	450182	4801079	1144	G_15	7512	32.0	32.2	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1583	POR	4.5	449944	4801637	1069	G_14	8105	34.1	34.3	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1584	POR	4.5	450063	4801592	1188	G_14	8000	33.5	33.7	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_1585	POR	4.5	450058	4801625	1183	G_14	8031	33.6	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1586	POR	4.5	450077	4801635	1202	G_14	8028	33.5	33.7	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1588	POR	4.5	450148	4802369	1244	G_13	8610	33.8	34.0	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1590	POR	4.5	450399	4801516	1528	G_14	7752	31.8	32.1	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1594	POR	4.5	450011	4802721	980	G_12	8983	35.2	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1596	POR	4.5	450260	4802750	1172	G_12	8885	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1598	POR	4.5	449937	4803090	736	G_12	9339	36.5	36.7	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1599	POR	4.5	450121	4803517	900	G_12	9626	36.8	37.0	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1603	POR	4.5	449884	4804003	857	G_72	10167	37.5	37.7	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1611	POR	4.5	449731	4804304	940	G_72	10505	37.3	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1615	POR	4.5	449808	4804750	750	G_04	10869	37.7	37.9	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1619	POR	4.5	449763	4805168	786	G_04	11265	37.2	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1621	POR	4.5	449729	4805331	872	G_04	11427	36.7	37.0	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1625	POR	4.5	449678	4805687	847	G_02	11772	35.7	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1631	POR	4.5	449559	4805994	984	G_02	12101	34.0	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1633	POR	4.5	449749	4806022	807	G_02	12049	35.1	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1638	POR	4.5	449687	4806454	1070	G_02	12470	32.6	32.8	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1643	POR	4.5	449511	4806699	1363	G_02	12765	30.7	31.1	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1645	POR	4.5	449713	4806779	1283	G_02	12760	31.1	31.4	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1647	POR	4.5	449577	4806956	1506	G_02	12976	29.8	30.2	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1648	POR	4.5	449480	4807038	1631	G_02	13089	29.3	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1652	POR	4.5	449623	4807103	1597	G_02	13094	29.3	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1723	POR	4.5	451261	4807323	1710	G_02	12781	27.8	28.1	28.2	28.2	28.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1724	POR	4.5	451638	4807219	1821	G_02	12587	27.7	27.9	28.0	28.0	28.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1726	POR	4.5	451610	4807028	1655	G_02	12408	28.8	29.0	29.1	29.1	29.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1728	POR	4.5	451440	4806938	1477	G_02	12363	30.1	30.3	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1733	POR	4.5	451495	4806598	1271	G_02	12020	31.5	31.8	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1734	POR	4.5	451719	4806428	1259	G_03	11800	31.8	32.0	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1739	POR	4.5	451505	4806093	861	G_03	11530	35.0	35.2	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1751	POR	4.5	451686	4805313	637	G_03	10730	37.9	38.1	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1755	POR	4.5	451933	4804437	658	G_05	9820	37.0	37.2	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1759	POR	4.5	451987	4803780	784	G_06	9173	35.3	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1760	POR	4.5	452000	4803776	797	G_06	9165	35.2	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1761	POR	4.5	452107	4803792	904	G_06	9152	33.8	34.0	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1769	POR	4.5	452086	4803053	1137	G_06	8448	32.1	32.3	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1776	POR	4.5	452128	4802506	1566	G_06	7914	30.2	30.4	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1777	POR	4.5	452313	4802512	1678	G_06	7865	29.3	29.5	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1779	POR	4.5	452283	4802059	1661	G_73	7441	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_1783	POR	4.5	452328	4801730	1368	G_73	7114	30.0	30.2	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1786	POR	4.5	452232	4801322	1161	G_73	6760	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1792	POR	4.5	452325	4800984	922	G_73	6411	32.9	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1795	POR	4.5	452605	4800407	643	G_73	5773	36.5	36.7	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1800	POR	4.5	451496	4799880	1641	G_34	5783	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1802	POR	4.5	451890	4799945	1274	G_34	5642	31.8	32.1	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1803	POR	4.5	451915	4799802	1215	G_34	5504	32.0	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1807	POR	4.5	452364	4799975	846	G_34	5461	34.8	35.0	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1808	POR	4.5	452449	4799790	694	G_34	5257	35.9	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1830	POR	4.5	452751	4798768	881	G_34	4202	35.9	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1831	POR	4.5	452900	4798934	672	G_34	4293	37.0	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1837	POR	4.5	452804	4798234	559	G_31	3702	37.7	37.9	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1839	POR	4.5	453407	4798162	1028	G_65	3389	35.3	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_1843	POR	4.5	453664	4797983	1068	G_65	3138	34.8	35.0	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_1845	POR	4.5	452978	4797983	645	G_31	3399	37.1	37.3	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1849	POR	4.5	453086	4797320	637	G_32	2770	37.7	37.9	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1851	POR	4.5	453105	4797378	686	G_32	2809	37.4	37.6	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1856	POR	4.5	453171	4796987	618	G_32	2445	38.1	38.3	38.4	38.4	38.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_1859	POR	4.5	453365	4796520	729	G_35	1953	37.8	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1868	POR	4.5	453418	4795994	692	G_74	1531	38.0	38.2	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1871	POR	4.5	453272	4795396	620	G_74	1356	37.8	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1879	POR	4.5	453350	4794838	839	G_74	1219	36.6	36.8	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1883	POR	4.5	453421	4794949	709	G_74	1140	37.2	37.4	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1884	POR	4.5	453528	4794481	962	G_76	1145	36.7	36.9	37.0	37.0	37.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1891	POR	4.5	453494	4794358	895	G_76	1233	36.8	37.0	37.0	37.0	37.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1895	POR	4.5	453511	4793740	626	G_76	1621	38.4	38.6	38.7	38.7	38.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1900	POR	4.5	453620	4793474	580	G_76	1772	38.9	39.1	39.2	39.2	39.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_1909	POR	4.5	453630	4792937	862	G_48	2241	37.7	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_1911	POR	4.5	453737	4792690	862	G_49	2430	37.1	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_1914	POR	4.5	453550	4792409	1106	G_48	2758	36.5	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1919	POR	4.5	453747	4792041	980	G_77	3045	35.7	35.9	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1923	POR	4.5	454327	4791934	940	G_49	3051	34.7	34.9	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1924	POR	4.5	453908	4791640	827	G_77	3399	35.2	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1929	POR	4.5	454030	4791272	845	G_77	3741	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1933	POR	4.5	454141	4791000	984	G_77	3998	33.3	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_1934	POR	4.5	453781	4789819	1278	G_46	5215	30.7	30.9	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1937	POR	4.5	453881	4789655	1453	G_46	5364	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_1938	POR	4.5	453904	4789661	1468	G_46	5355	29.5	29.7	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_1941	POR	4.5	453894	4789720	1427	G_46	5298	29.7	30.0	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1943	POR	4.5	454068	4790392	1221	G_77	4610	31.8	32.0	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_1947	POR	4.5	454224	4789891	1642	G_46	5096	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_2000	POR	4.5	455800	4791522	1790	G_49	3669	29.0	29.2	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_2005	POR	4.5	455807	4791726	1651	G_49	3480	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2009	POR	4.5	455756	4792063	1403	G_49	3148	31.4	31.6	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_2014	POR	4.5	456013	4792045	1565	G_50	3271	30.3	30.5	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_2017	POR	4.5	455739	4792365	1144	G_50	2864	32.7	32.9	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_2021	POR	4.5	455647	4792690	840	G_50	2531	34.8	35.0	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2022	POR	4.5	455810	4792813	896	G_50	2497	34.0	34.2	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_2029	POR	4.5	455702	4793223	664	G_50	2091	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_2033	POR	4.5	455631	4793436	614	G_50	1875	36.8	37.0	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2034	POR	4.5	455618	4793828	803	G_50	1560	35.5	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_2037	POR	4.5	455626	4793788	781	G_50	1595	35.6	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_2038	POR	4.5	455628	4793766	769	G_50	1613	35.7	35.8	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2039	POR	4.5	455631	4793746	758	G_50	1630	35.7	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2044	POR	4.5	455576	4793695	683	G_50	1634	36.3	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_2046	POR	4.5	455582	4793651	662	G_50	1672	36.5	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_2047	POR	4.5	455583	4793589	629	G_50	1723	36.8	37.0	37.0	37.0	37.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_2053	POR	4.5	455299	4794758	623	G_75	770	37.6	37.8	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2054	POR	4.5	455538	4794770	843	G_75	999	35.5	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_2055	POR	4.5	455566	4794774	869	G_75	1025	35.3	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_2059	POR	4.5	455493	4794847	780	G_75	941	36.0	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_2061	POR	4.5	455547	4795139	826	G_75	1000	35.4	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_2072	POR	4.5	455414	4795568	879	G_75	1039	35.2	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_2075	POR	4.5	455456	4795732	1020	G_75	1172	34.3	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_2080	POR	4.5	455210	4795939	1042	G_75	1162	34.7	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2086	POR	4.5	455345	4796371	1278	G_35	1601	32.8	33.0	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2095	POR	4.5	454929	4796717	847	G_35	1780	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_2097	POR	4.5	455276	4796786	1201	G_35	1947	32.2	32.4	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_2104	POR	4.5	455276	4797249	1350	G_35	2383	30.8	31.0	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2108	POR	4.5	454897	4797509	1212	G_35	2556	31.7	31.9	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_2115	POR	4.5	455087	4797752	1520	G_35	2826	31.0	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_2118	POR	4.5	454045	4798011	981	G_65	3079	34.1	34.3	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_2120	POR	4.5	454401	4798169	909	G_65	3197	34.0	34.2	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_2121	POR	4.5	455028	4798430	1159	G_65	3486	32.0	32.1	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_2125	POR	4.5	454554	4798816	568	G_65	3840	37.1	37.3	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_2128	POR	4.5	454293	4800236	628	G_67	5267	36.6	36.8	36.9	36.9	36.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2129	POR	4.5	454384	4800243	687	G_67	5270	35.8	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2131	POR	4.5	454456	4800122	651	G_67	5147	36.2	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_2133	POR	4.5	455415	4800278	1568	G_67	5371	29.1	29.3	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_2136	POR	4.5	455650	4800444	1848	G_67	5576	27.6	27.8	27.8	27.8	27.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_2137	POR	4.5	455854	4800248	1975	G_67	5429	27.1	27.2	27.3	27.3	27.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_2216	POR	4.5	441306	4791258	715	G_79	13766	37.0	37.2	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_2219	POR	4.5	441421	4791275	610	G_79	13651	38.0	38.2	38.3	38.3	38.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_2226	POR	4.5	455854	4800293	1987	G_67	5472	27.0	27.2	27.2	27.2	27.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_2228	POR	4.5	450504	4799641	1513	G_15	6183	29.3	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_2241	POR	4.5	450209	4801760	1341	G_14	8060	32.8	33.0	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2242	POR	4.5	450081	4801634	1206	G_14	8025	33.5	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_2244	POR	4.5	450076	4801634	1201	G_14	8028	33.5	33.7	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_2248	POR	4.5	446502	4800968	1169	G_09	10043	30.5	30.7	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_2249	POR	4.5	446372	4800946	1232	G_09	10134	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2256	POR	4.5	451980	4804591	680	G_05	9956	36.6	36.8	36.9	36.9	36.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2269	POR	4.5	439152	4792170	1694	G_84	15662	30.5	30.7	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_2270	POR	4.5	439137	4792138	1659	G_84	15683	30.6	30.8	30.9	30.9	30.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2273	POR	4.5	442659	4789760	1228	G_53	12995	30.9	31.1	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_2279	POR	4.5	449234	4789179	1577	G_42	7873	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2284	POR	4.5	436332	4787693	1230	G_61	19630	32.6	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_2287	POR	4.5	436153	4787352	1590	G_61	19924	30.7	30.8	30.9	30.9	30.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2288	POR	4.5	435638	4787385	1974	G_61	20389	28.5	28.7	28.8	28.8	28.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_2290	POR	4.5	440027	4786491	1886	G_52	16829	29.0	29.1	29.1	29.1	29.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2291	POR	4.5	440052	4786523	1853	G_52	16791	29.0	29.1	29.1	29.1	29.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2292	POR	4.5	439927	4786538	1849	G_52	16892	29.2	29.3	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_2295	POR	4.5	439980	4786818	1565	G_52	16708	30.3	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_2305	POR	4.5	454802	4799768	849	G_67	4798	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_2334	POR	4.5	448073	4804904	716	G_10	11860	35.9	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_2336	POR	4.5	447835	4804251	935	G_11	11457	36.7	36.9	37.0	37.0	37.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_2343	POR	4.5	449583	4792102	848	G_41	5748	35.8	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_2350	POR	4.5	452069	4803433	929	G_06	8817	33.6	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2352	POR	4.5	449581	4807202	1702	G_02	13202	28.7	29.2	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_2354	POR	4.5	449450	4807236	1805	G_02	13283	28.4	29.0	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_2356	POR	4.5	449669	4806476	1098	G_02	12498	32.4	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_2357	POR	4.5	449883	4803948	881	G_72	10119	37.4	37.6	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_2358	POR	4.5	449878	4804018	857	G_72	10183	37.5	37.7	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_2361	POR	4.5	450291	4802770	1189	G_12	8887	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_2370	POR	4.5	451423	4794638	1003	G_71	3156	34.7	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_2371	POR	4.5	451311	4795103	696	G_71	3252	35.9	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_2372	POR	4.5	451284	4795146	691	G_71	3281	36.0	36.2	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_2379	POR	4.5	444593	4798034	1948	G_80	10427	27.4	27.6	27.6	27.6	27.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_2380	POR	4.5	444605	4798053	1960	G_80	10421	27.3	27.4	27.5	27.5	27.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_2381	POR	4.5	446807	4796605	1072	G_23	7923	35.0	35.2	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_2386	POR	4.5	447145	4794884	804	G_66	7416	37.8	38.0	38.1	38.1	38.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3089	POR	4.5	455603	4793978	904	G_50	1443	35.2	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3090	POR	4.5	455605	4794009	929	G_50	1423	35.1	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3091	POR	4.5	455649	4794129	1052	G_50	1379	34.7	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3092	POR	4.5	455623	4794150	1055	G_50	1345	34.8	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3093	POR	4.5	455602	4794148	1042	G_50	1330	34.9	35.1	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3094	POR	4.5	455619	4794199	1094	G_50	1313	34.8	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3095	POR	4.5	455604	4794191	1079	G_50	1305	34.9	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3096	POR	4.5	455692	4794202	1137	G_50	1370	34.4	34.5	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3097	POR	4.5	455664	4794204	1122	G_50	1346	34.5	34.7	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3098	POR	4.5	455710	4794219	1161	G_50	1376	34.3	34.4	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3099	POR	4.5	455731	4794167	1132	G_50	1422	34.2	34.3	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3100	POR	4.5	455717	4794172	1127	G_50	1408	34.3	34.4	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3101	POR	4.5	455704	4794166	1114	G_50	1401	34.3	34.5	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3102	POR	4.5	455688	4794163	1103	G_50	1389	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3103	POR	4.5	455741	4794173	1142	G_50	1427	34.2	34.3	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3104	POR	4.5	455821	4794182	1200	G_50	1489	33.6	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3105	POR	4.5	455810	4794181	1192	G_50	1480	33.7	33.8	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3107	POR	4.5	455656	4794157	1079	G_50	1367	34.6	34.8	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3108	POR	4.5	455781	4794179	1172	G_50	1457	33.9	34.0	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3109	POR	4.5	455902	4794296	1339	G_50	1503	33.2	33.3	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3110	POR	4.5	455901	4794234	1292	G_50	1532	33.2	33.3	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3111	POR	4.5	455919	4794176	1262	G_50	1576	33.1	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3112	POR	4.5	455881	4794176	1235	G_50	1543	33.3	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3113	POR	4.5	455840	4794187	1216	G_50	1503	33.5	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3114	POR	4.5	455860	4794229	1261	G_50	1498	33.4	33.5	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3115	POR	4.5	455868	4794262	1291	G_50	1489	33.3	33.5	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3116	POR	4.5	455945	4794303	1373	G_50	1539	32.9	33.1	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3117	POR	4.5	455921	4794235	1306	G_50	1549	33.0	33.2	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3118	POR	4.5	455969	4794245	1346	G_50	1586	32.8	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3119	POR	4.5	455842	4794299	1304	G_50	1449	33.5	33.6	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3120	POR	4.5	455989	4794303	1402	G_50	1579	32.7	32.9	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3121	POR	4.5	456017	4794302	1420	G_50	1604	32.6	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3122	POR	4.5	455987	4794249	1361	G_50	1601	32.7	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3123	POR	4.5	456126	4794259	1468	G_50	1721	31.9	32.0	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3124	POR	4.5	456101	4794276	1461	G_50	1692	32.0	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3125	POR	4.5	456101	4794295	1475	G_50	1684	32.0	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3126	POR	4.5	456046	4794258	1409	G_50	1649	32.5	32.6	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3127	POR	4.5	456026	4794252	1391	G_50	1634	32.5	32.7	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3128	POR	4.5	456214	4794269	1541	G_50	1798	31.5	31.6	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3129	POR	4.5	456195	4794265	1524	G_50	1782	31.5	31.7	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_3130	POR	4.5	456180	4794305	1539	G_50	1752	31.6	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3131	POR	4.5	456268	4794284	1592	G_50	1842	31.2	31.3	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3132	POR	4.5	456288	4794288	1610	G_50	1859	31.1	31.2	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3133	POR	4.5	456347	4794305	1667	G_50	1908	30.8	30.9	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3134	POR	4.5	456385	4794300	1693	G_50	1945	30.6	30.8	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3135	POR	4.5	456414	4794316	1726	G_50	1967	30.5	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3136	POR	4.5	456447	4794321	1756	G_50	1996	30.4	30.5	30.6	30.6	30.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3137	POR	4.5	454779	4794100	738	G_76	902	38.4	38.5	38.6	38.6	38.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3138	POR	4.5	454824	4794109	782	G_76	906	38.2	38.4	38.4	38.4	38.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3139	POR	4.5	455101	4794285	818	G_75	877	37.3	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3141	POR	4.5	455522	4794571	907	G_75	1043	35.4	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3142	POR	4.5	455526	4794480	958	G_75	1085	35.4	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3143	POR	4.5	455476	4794507	901	G_75	1028	35.7	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3144	POR	4.5	455482	4794484	919	G_75	1044	35.7	35.8	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3145	POR	4.5	455479	4794456	933	G_75	1055	35.6	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3146	POR	4.5	455533	4794458	976	G_75	1101	35.3	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3147	POR	4.5	455477	4794552	877	G_75	1009	35.7	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3148	POR	4.5	455487	4794425	958	G_75	1077	35.6	35.7	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3149	POR	4.5	455494	4794374	996	G_75	1110	35.5	35.6	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3150	POR	4.5	455491	4794395	980	G_75	1096	35.5	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3151	POR	4.5	455539	4794385	1024	G_75	1143	35.2	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3152	POR	4.5	455534	4794406	1007	G_75	1128	35.3	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3153	POR	4.5	455535	4794434	991	G_75	1115	35.3	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3154	POR	4.5	455545	4794364	1042	G_75	1159	35.2	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3155	POR	4.5	455583	4794191	1068	G_50	1289	35.0	35.2	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3156	POR	4.5	455490	4794134	973	G_50	1254	35.6	35.7	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3157	POR	4.5	455683	4794268	1186	G_50	1327	34.4	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3158	POR	4.5	449815	4789162	1713	G_68	7505	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3159	POR	4.5	449884	4789179	1668	G_68	7448	29.4	29.7	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3160	POR	4.5	449907	4789192	1646	G_68	7424	29.5	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3161	POR	4.5	449936	4789198	1629	G_68	7401	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3162	POR	4.5	449945	4789199	1625	G_68	7394	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3163	POR	4.5	449964	4789194	1622	G_68	7386	29.5	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3164	POR	4.5	449978	4789194	1617	G_68	7378	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3165	POR	4.5	449994	4789196	1609	G_68	7366	29.7	29.9	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3166	POR	4.5	450015	4789204	1594	G_68	7347	29.8	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3167	POR	4.5	450026	4789067	1720	G_68	7448	29.0	29.2	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3168	POR	4.5	449994	4789070	1727	G_68	7465	28.9	29.1	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3169	POR	4.5	449939	4789340	1499	G_68	7288	30.6	30.8	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3170	POR	4.5	449937	4789307	1529	G_68	7315	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3171	POR	4.5	449935	4789234	1597	G_68	7373	29.8	30.0	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3172	POR	4.5	449947	4789250	1577	G_68	7353	29.9	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3173	POR	4.5	450001	4789263	1544	G_68	7309	30.2	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3174	POR	4.5	449976	4789237	1578	G_68	7345	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3175	POR	4.5	450072	4789198	1581	G_68	7316	30.1	30.3	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3176	POR	4.5	450085	4789293	1487	G_68	7234	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3177	POR	4.5	450128	4789199	1563	G_68	7281	29.9	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3178	POR	4.5	450151	4789204	1552	G_68	7264	29.8	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3179	POR	4.5	450172	4789205	1545	G_68	7250	29.8	30.0	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3180	POR	4.5	450217	4789210	1529	G_68	7219	29.7	29.9	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3181	POR	4.5	450352	4789317	1397	G_68	7052	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3182	POR	4.5	450300	4789179	1542	G_68	7194	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3183	POR	4.5	450347	4789147	1566	G_68	7192	29.4	29.6	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3184	POR	4.5	450351	4789086	1626	G_68	7240	29.0	29.2	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3185	POR	4.5	450371	4789090	1619	G_68	7225	29.0	29.3	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3186	POR	4.5	450275	4789164	1561	G_68	7221	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3187	POR	4.5	450441	4789331	1372	G_68	6988	30.3	30.5	30.6	30.6	30.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3188	POR	4.5	449791	4789250	1646	G_68	7452	30.1	30.3	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3189	POR	4.5	450041	4789398	1404	G_68	7179	30.8	31.0	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3190	POR	4.5	450096	4789138	1631	G_68	7349	29.7	29.9	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3191	POR	4.5	450077	4789161	1614	G_68	7343	29.8	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3192	POR	4.5	450082	4789113	1659	G_68	7378	29.6	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3193	POR	4.5	450025	4789530	1290	G_68	7087	31.3	31.5	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3194	POR	4.5	450046	4789503	1306	G_68	7095	31.1	31.3	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3195	POR	4.5	450033	4789468	1343	G_68	7130	30.9	31.1	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3196	POR	4.5	450039	4789433	1373	G_68	7153	30.8	31.0	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_3197	POR	4.5	445097	4792748	1127	G_17	9723	35.4	35.6	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3198	POR	4.5	445141	4792744	1171	G_17	9681	35.4	35.6	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3199	POR	4.5	445142	4792671	1153	G_36	9697	35.4	35.6	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3200	POR	4.5	445188	4792677	1114	G_36	9651	35.5	35.7	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3201	POR	4.5	445030	4792631	1059	G_17	9815	35.3	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3202	POR	4.5	445200	4792750	1136	G_36	9622	35.5	35.7	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3204	POR	4.5	445255	4792750	1088	G_36	9568	35.6	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3206	POR	4.5	445289	4792709	1039	G_36	9545	35.6	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3207	POR	4.5	445364	4792769	1006	G_36	9458	35.8	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3208	POR	4.5	445339	4792766	1025	G_36	9483	35.7	35.9	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3210	POR	4.5	445322	4792900	1118	G_36	9469	35.6	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3211	POR	4.5	445422	4792786	969	G_36	9398	36.0	36.2	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3212	POR	4.5	445435	4792731	926	G_36	9398	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3213	POR	4.5	445477	4792730	891	G_36	9357	36.2	36.4	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3214	POR	4.5	445365	4792715	976	G_36	9470	35.8	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3215	POR	4.5	445374	4792676	948	G_36	9470	35.9	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3216	POR	4.5	445339	4792715	998	G_36	9495	35.7	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3217	POR	4.5	445313	4792632	982	G_36	9540	35.8	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3218	POR	4.5	445313	4792539	945	G_36	9564	35.8	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3219	POR	4.5	445315	4792456	917	G_36	9583	35.9	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3220	POR	4.5	445400	4792376	815	G_36	9523	36.4	36.6	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3221	POR	4.5	445343	4792333	863	G_36	9589	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3222	POR	4.5	445337	4792366	874	G_36	9586	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3224	POR	4.5	445481	4792795	928	G_36	9338	36.1	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3225	POR	4.5	445508	4792811	918	G_36	9308	36.2	36.4	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3226	POR	4.5	445549	4792817	892	G_36	9267	36.3	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3227	POR	4.5	445526	4792736	856	G_36	9308	36.4	36.6	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3228	POR	4.5	445560	4792731	827	G_36	9277	36.6	36.8	36.9	36.9	36.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3229	POR	4.5	445577	4792709	799	G_36	9265	36.8	37.0	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3230	POR	4.5	445621	4792718	772	G_36	9221	37.0	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3231	POR	4.5	445609	4792751	803	G_36	9224	36.6	36.8	36.9	36.9	36.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3232	POR	4.5	448639	4799574	1054	G_15	7498	31.4	31.6	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3233	POR	4.5	448557	4799687	1015	G_15	7632	31.8	32.0	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3234	POR	4.5	449025	4799467	1003	G_15	7129	31.6	31.8	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3235	POR	4.5	449043	4799535	933	G_15	7158	32.2	32.4	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3236	POR	4.5	455843	4794250	1266	G_50	1473	33.5	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3237	POR	4.5	455540	4794090	960	G_50	1320	35.3	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3238	POR	4.5	450029	4789551	1269	G_68	7069	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3239	POR	4.5	450021	4789162	1632	G_68	7376	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3240	POR	4.5	445391	4792855	1036	G_36	9412	35.8	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3241	POR	4.5	445379	4792833	1032	G_36	9429	35.8	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3242	POR	4.5	455527	4794545	924	G_75	1058	35.4	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3243	POR	4.5	455541	4794511	953	G_75	1085	35.3	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3244	POR	4.5	455594	4794294	1124	G_75	1238	34.9	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3245	POR	4.5	455601	4794352	1093	G_75	1213	34.9	35.0	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3246	POR	4.5	448035	4799413	1579	G_15	7892	28.7	28.9	28.9	28.9	28.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3247	POR	4.5	448034	4799422	1574	G_15	7898	28.6	28.8	28.9	28.9	28.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3248	POR	4.5	448058	4799408	1565	G_15	7870	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3249	POR	4.5	448080	4799415	1544	G_15	7856	28.8	29.0	29.1	29.1	29.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3250	POR	4.5	448113	4799446	1499	G_15	7846	29.2	29.4	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3251	POR	4.5	448167	4799424	1475	G_15	7789	29.2	29.4	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3252	POR	4.5	448190	4799465	1430	G_15	7794	29.3	29.5	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3253	POR	4.5	448210	4799468	1413	G_15	7779	29.3	29.5	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3254	POR	4.5	448171	4799462	1445	G_15	7808	29.2	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3255	POR	4.5	448154	4799463	1457	G_15	7822	29.3	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3256	POR	4.5	448219	4799367	1479	G_15	7714	29.0	29.2	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3257	POR	4.5	448240	4799475	1387	G_15	7759	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3258	POR	4.5	448258	4799416	1416	G_15	7710	29.3	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3259	POR	4.5	448235	4799414	1434	G_15	7728	29.3	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3260	POR	4.5	448288	4799421	1392	G_15	7688	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3261	POR	4.5	448262	4799374	1445	G_15	7683	29.1	29.3	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3262	POR	4.5	448242	4799371	1460	G_15	7697	29.0	29.3	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3263	POR	4.5	448214	4799432	1435	G_15	7755	29.4	29.6	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3264	POR	4.5	448310	4799428	1372	G_15	7674	29.5	29.7	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3265	POR	4.5	448335	4799436	1350	G_15	7659	29.5	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3266	POR	4.5	448370	4799394	1359	G_15	7606	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_3267	POR	4.5	448353	4799393	1371	G_15	7619	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3268	POR	4.5	448338	4799387	1385	G_15	7628	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3269	POR	4.5	448313	4799385	1403	G_15	7647	29.3	29.6	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3270	POR	4.5	448374	4799436	1324	G_15	7627	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3271	POR	4.5	448406	4799440	1301	G_15	7604	29.7	29.9	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3272	POR	4.5	448423	4799444	1287	G_15	7592	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3273	POR	4.5	448398	4799465	1287	G_15	7625	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3274	POR	4.5	448415	4799392	1333	G_15	7568	29.7	29.9	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3275	POR	4.5	448429	4799402	1317	G_15	7563	29.7	29.9	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3276	POR	4.5	448455	4799442	1269	G_15	7565	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3277	POR	4.5	448490	4799453	1239	G_15	7543	30.2	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3278	POR	4.5	448459	4799408	1294	G_15	7542	29.8	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3279	POR	4.5	448469	4799410	1286	G_15	7535	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3280	POR	4.5	448506	4799376	1293	G_15	7485	29.9	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3281	POR	4.5	448505	4799354	1312	G_15	7473	29.9	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3282	POR	4.5	448443	4799348	1352	G_15	7520	29.7	29.9	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3283	POR	4.5	448421	4799355	1359	G_15	7542	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3284	POR	4.5	448425	4799303	1399	G_15	7508	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3285	POR	4.5	448450	4799298	1389	G_15	7485	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3286	POR	4.5	448468	4799306	1372	G_15	7475	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3287	POR	4.5	448512	4799295	1358	G_15	7433	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3288	POR	4.5	448432	4799260	1431	G_15	7478	29.1	29.3	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3289	POR	4.5	448517	4799249	1395	G_15	7402	29.0	29.2	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3290	POR	4.5	448519	4799273	1373	G_15	7414	29.3	29.6	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3291	POR	4.5	448565	4799259	1362	G_15	7369	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3292	POR	4.5	448555	4799277	1351	G_15	7387	29.7	29.9	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3293	POR	4.5	448551	4799297	1336	G_15	7402	29.9	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3294	POR	4.5	448555	4799314	1319	G_15	7409	29.9	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3295	POR	4.5	448544	4799349	1295	G_15	7438	30.0	30.2	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3296	POR	4.5	448538	4799381	1271	G_15	7462	30.1	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3297	POR	4.5	448579	4799355	1272	G_15	7414	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3298	POR	4.5	448597	4799359	1259	G_15	7402	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3299	POR	4.5	448588	4799321	1297	G_15	7386	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3300	POR	4.5	448627	4799329	1271	G_15	7360	29.9	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3301	POR	4.5	448615	4799379	1233	G_15	7399	30.0	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3302	POR	4.5	448626	4799362	1242	G_15	7380	29.9	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3303	POR	4.5	448598	4799375	1245	G_15	7410	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3304	POR	4.5	448633	4799307	1288	G_15	7342	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3305	POR	4.5	448659	4799329	1256	G_15	7334	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3306	POR	4.5	448657	4799364	1226	G_15	7356	30.0	30.2	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3307	POR	4.5	448687	4799370	1207	G_15	7336	30.1	30.3	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3308	POR	4.5	448664	4799432	1163	G_15	7391	30.6	30.8	30.9	30.9	30.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3309	POR	4.5	448645	4799427	1176	G_15	7404	30.5	30.7	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3310	POR	4.5	448616	4799419	1198	G_15	7422	30.2	30.4	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3311	POR	4.5	448601	4799420	1205	G_15	7435	30.2	30.4	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3312	POR	4.5	448573	4799422	1218	G_15	7458	30.1	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3313	POR	4.5	448557	4799423	1226	G_15	7472	30.2	30.4	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3314	POR	4.5	448532	4799415	1246	G_15	7487	30.1	30.3	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3315	POR	4.5	448417	4799499	1249	G_15	7629	30.0	30.2	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3316	POR	4.5	448443	4799502	1230	G_15	7610	30.1	30.3	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3317	POR	4.5	448457	4799479	1239	G_15	7585	30.1	30.3	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3318	POR	4.5	448486	4799486	1215	G_15	7566	30.3	30.5	30.6	30.6	30.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3319	POR	4.5	448478	4799509	1202	G_15	7586	30.3	30.5	30.6	30.6	30.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3320	POR	4.5	448475	4799543	1178	G_15	7609	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3321	POR	4.5	448470	4799562	1166	G_15	7625	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3322	POR	4.5	448476	4799577	1151	G_15	7629	30.6	30.8	30.9	30.9	30.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3323	POR	4.5	448431	4799542	1207	G_15	7644	30.2	30.4	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3324	POR	4.5	448466	4799604	1137	G_15	7653	30.7	31.0	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3325	POR	4.5	448462	4799631	1120	G_15	7673	30.9	31.1	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3326	POR	4.5	448462	4799663	1097	G_15	7692	31.1	31.3	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3327	POR	4.5	448451	4799654	1111	G_15	7695	31.0	31.2	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3328	POR	4.5	448518	4799619	1092	G_15	7621	31.3	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3329	POR	4.5	448519	4799599	1106	G_15	7608	31.1	31.3	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3330	POR	4.5	448521	4799576	1123	G_15	7592	30.9	31.1	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3331	POR	4.5	448542	4799560	1122	G_15	7566	30.8	31.1	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3332	POR	4.5	448546	4799610	1081	G_15	7593	31.4	31.5	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_3333	POR	4.5	448537	4799640	1063	G_15	7619	31.4	31.6	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3335	POR	4.5	448586	4799644	1029	G_15	7582	31.7	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3337	POR	4.5	448585	4799626	1044	G_15	7572	31.6	31.8	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3338	POR	4.5	448584	4799608	1059	G_15	7562	31.5	31.7	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3339	POR	4.5	448588	4799593	1068	G_15	7550	31.4	31.6	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3340	POR	4.5	448588	4799571	1086	G_15	7536	31.1	31.4	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3342	POR	4.5	448621	4799618	1029	G_15	7539	31.7	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3343	POR	4.5	448615	4799650	1007	G_15	7563	31.8	32.0	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3344	POR	4.5	448620	4799599	1045	G_15	7528	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3345	POR	4.5	448604	4799518	1120	G_15	7491	30.9	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3346	POR	4.5	448602	4799496	1140	G_15	7479	30.7	30.9	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3347	POR	4.5	448565	4799516	1144	G_15	7521	30.7	30.9	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3349	POR	4.5	448661	4799500	1105	G_15	7435	31.0	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3350	POR	4.5	448691	4799512	1080	G_15	7419	31.2	31.4	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3351	POR	4.5	448635	4799501	1118	G_15	7456	30.9	31.1	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3352	POR	4.5	448520	4799537	1154	G_15	7570	30.7	30.9	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3353	POR	4.5	448522	4799511	1174	G_15	7552	30.6	30.9	30.9	30.9	30.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3354	POR	4.5	448528	4799466	1206	G_15	7521	30.5	30.7	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3355	POR	4.5	448553	4799459	1198	G_15	7496	30.3	30.5	30.6	30.6	30.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3356	POR	4.5	448563	4799457	1194	G_15	7487	30.3	30.6	30.6	30.6	30.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3357	POR	4.5	448574	4799462	1184	G_15	7481	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3358	POR	4.5	448548	4799485	1179	G_15	7516	30.5	30.7	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3359	POR	4.5	448603	4799477	1155	G_15	7467	30.6	30.8	30.9	30.9	30.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3360	POR	4.5	448701	4799486	1098	G_15	7395	31.1	31.3	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3361	POR	4.5	448728	4799439	1127	G_15	7345	31.0	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3362	POR	4.5	448713	4799441	1132	G_15	7358	31.0	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3363	POR	4.5	448695	4799428	1152	G_15	7364	30.7	30.9	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3364	POR	4.5	448750	4799438	1118	G_15	7327	31.0	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3365	POR	4.5	448799	4799444	1093	G_15	7292	31.0	31.2	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3366	POR	4.5	448794	4799494	1049	G_15	7326	31.4	31.6	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3367	POR	4.5	448773	4799494	1058	G_15	7343	31.3	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3368	POR	4.5	448758	4799487	1071	G_15	7350	31.2	31.4	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3369	POR	4.5	448740	4799481	1084	G_15	7361	31.2	31.4	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3370	POR	4.5	448743	4799521	1047	G_15	7383	31.4	31.6	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3371	POR	4.5	448793	4799526	1020	G_15	7347	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3372	POR	4.5	448816	4799496	1038	G_15	7310	31.4	31.6	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3373	POR	4.5	448821	4799453	1076	G_15	7280	31.1	31.3	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3374	POR	4.5	448840	4799451	1071	G_15	7263	31.1	31.3	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3375	POR	4.5	448833	4799495	1033	G_15	7296	31.4	31.6	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3376	POR	4.5	448853	4799503	1018	G_15	7285	31.4	31.6	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3377	POR	4.5	448816	4799528	1009	G_15	7330	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3378	POR	4.5	448866	4799532	986	G_15	7293	31.6	31.8	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3379	POR	4.5	448873	4799502	1012	G_15	7269	31.4	31.7	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3380	POR	4.5	448876	4799454	1056	G_15	7237	31.1	31.4	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3381	POR	4.5	448908	4799459	1041	G_15	7215	31.2	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3382	POR	4.5	448954	4799431	1055	G_15	7162	31.1	31.3	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3383	POR	4.5	448933	4799460	1032	G_15	7196	31.2	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3384	POR	4.5	448916	4799519	981	G_15	7246	31.6	31.8	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3385	POR	4.5	448983	4799528	953	G_15	7200	31.9	32.1	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3386	POR	4.5	449003	4799461	1014	G_15	7142	31.4	31.7	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3387	POR	4.5	449010	4799531	944	G_15	7181	32.0	32.2	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3388	POR	4.5	449067	4799468	995	G_15	7097	31.8	32.0	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3389	POR	4.5	449090	4799539	921	G_15	7124	32.3	32.5	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3390	POR	4.5	449121	4799545	911	G_15	7104	32.4	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3391	POR	4.5	449164	4799556	896	G_15	7079	32.5	32.7	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3392	POR	4.5	448886	4799400	1104	G_15	7196	30.8	31.0	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3393	POR	4.5	448817	4799352	1172	G_15	7221	30.3	30.5	30.6	30.6	30.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3394	POR	4.5	448789	4799351	1183	G_15	7243	30.3	30.5	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3395	POR	4.5	448767	4799342	1199	G_15	7255	30.2	30.4	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3396	POR	4.5	448752	4799378	1172	G_15	7289	30.4	30.7	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3397	POR	4.5	448807	4799405	1126	G_15	7261	30.7	30.9	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3398	POR	4.5	448786	4799383	1154	G_15	7265	30.4	30.7	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3399	POR	4.5	448687	4799325	1247	G_15	7309	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3400	POR	4.5	448714	4799331	1231	G_15	7291	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3401	POR	4.5	448741	4799337	1214	G_15	7273	30.1	30.3	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3402	POR	4.5	448734	4799377	1180	G_15	7302	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_3403	POR	4.5	448702	4799378	1193	G_15	7329	30.2	30.5	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3406	POR	4.5	448304	4799325	1455	G_15	7620	29.1	29.3	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3407	POR	4.5	448319	4799287	1475	G_15	7586	29.1	29.3	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3408	POR	4.5	448317	4799262	1496	G_15	7574	29.0	29.2	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3409	POR	4.5	448347	4799290	1455	G_15	7565	29.1	29.3	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3410	POR	4.5	448364	4799292	1444	G_15	7552	29.0	29.2	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3411	POR	4.5	448390	4799295	1426	G_15	7532	29.2	29.4	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3412	POR	4.5	448396	4799256	1454	G_15	7505	29.1	29.3	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3413	POR	4.5	448300	4799370	1423	G_15	7649	29.2	29.4	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3414	POR	4.5	448389	4799330	1398	G_15	7553	29.3	29.6	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3415	POR	4.5	448376	4799352	1389	G_15	7577	29.4	29.6	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3416	POR	4.5	448398	4799233	1472	G_15	7490	28.9	29.1	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3417	POR	4.5	448378	4799193	1516	G_15	7484	28.7	28.9	28.9	28.9	28.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3418	POR	4.5	448408	4799199	1495	G_15	7463	28.8	29.0	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3419	POR	4.5	448346	4799193	1534	G_15	7511	28.6	28.8	28.9	28.9	28.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3420	POR	4.5	448324	4799189	1550	G_15	7527	28.6	28.8	28.8	28.8	28.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3421	POR	4.5	448321	4799234	1516	G_15	7554	29.0	29.2	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3422	POR	4.5	448356	4799236	1494	G_15	7527	29.0	29.2	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3423	POR	4.5	448272	4799230	1549	G_15	7593	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3424	POR	4.5	448272	4799280	1510	G_15	7621	28.9	29.1	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3425	POR	4.5	448284	4799255	1522	G_15	7597	29.0	29.2	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3426	POR	4.5	448157	4799348	1535	G_15	7754	28.8	29.0	29.1	29.1	29.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3427	POR	4.5	448144	4799351	1542	G_15	7767	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3428	POR	4.5	448186	4799351	1513	G_15	7732	28.9	29.1	29.1	29.1	29.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3429	POR	4.5	448209	4799312	1526	G_15	7691	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3430	POR	4.5	448223	4799313	1516	G_15	7680	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3431	POR	4.5	448237	4799348	1481	G_15	7688	29.0	29.2	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3432	POR	4.5	448102	4799523	1457	G_15	7899	29.3	29.5	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3433	POR	4.5	448107	4799482	1480	G_15	7871	29.2	29.4	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3434	POR	4.5	448092	4799470	1499	G_15	7877	29.1	29.4	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3435	POR	4.5	448231	4799518	1363	G_15	7791	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3436	POR	4.5	448200	4799524	1382	G_15	7820	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3437	POR	4.5	448257	4799440	1400	G_15	7725	29.5	29.7	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3438	POR	4.5	448284	4799449	1375	G_15	7708	29.5	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3439	POR	4.5	448282	4799483	1351	G_15	7729	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3440	POR	4.5	448269	4799532	1326	G_15	7768	29.7	29.9	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3441	POR	4.5	448292	4799538	1305	G_15	7753	29.7	30.0	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3442	POR	4.5	448307	4799551	1286	G_15	7749	29.8	30.0	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3443	POR	4.5	448313	4799524	1300	G_15	7728	29.7	29.9	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3444	POR	4.5	448351	4799544	1260	G_15	7709	29.8	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3445	POR	4.5	448531	4799680	1037	G_15	7648	31.7	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3446	POR	4.5	448503	4799672	1062	G_15	7665	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3447	POR	4.5	448514	4799708	1028	G_15	7679	31.7	31.9	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3448	POR	4.5	448491	4799726	1032	G_15	7708	31.8	32.0	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3449	POR	4.5	448502	4799767	995	G_15	7724	31.9	32.1	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3450	POR	4.5	448598	4799678	995	G_15	7594	31.9	32.1	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3451	POR	4.5	448468	4799873	953	G_15	7817	32.2	32.4	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3452	POR	4.5	448495	4799859	940	G_15	7787	32.4	32.6	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3453	POR	4.5	448499	4799783	987	G_15	7737	32.0	32.2	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3454	POR	4.5	448391	4799807	1054	G_15	7836	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3455	POR	4.5	448428	4799818	1018	G_15	7814	31.7	31.9	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3456	POR	4.5	448443	4799705	1081	G_15	7733	31.3	31.5	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3457	POR	4.5	448440	4799731	1065	G_15	7751	31.4	31.6	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3458	POR	4.5	448518	4799746	998	G_15	7699	32.0	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3459	POR	4.5	448642	4799656	986	G_15	7546	31.9	32.1	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3460	POR	4.5	448657	4799655	978	G_15	7533	32.0	32.2	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3461	POR	4.5	448676	4799658	964	G_15	7520	32.1	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3463	POR	4.5	448692	4799563	1035	G_15	7449	31.6	31.8	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3465	POR	4.5	448838	4799561	970	G_15	7333	31.7	31.9	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3466	POR	4.5	448581	4799217	1392	G_15	7331	28.9	29.1	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3467	POR	4.5	448602	4799272	1333	G_15	7346	29.5	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3468	POR	4.5	448660	4799297	1284	G_15	7314	29.8	30.0	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3469	POR	4.5	448636	4799270	1319	G_15	7318	29.3	29.6	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3470	POR	4.5	448630	4799216	1370	G_15	7291	28.6	28.8	28.9	28.9	28.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3471	POR	4.5	448584	4799077	1516	G_15	7249	28.4	28.6	28.7	28.7	28.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3472	POR	4.5	448606	4799097	1488	G_15	7242	28.4	28.6	28.7	28.7	28.7	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_3473	POR	4.5	448586	4799103	1491	G_15	7262	28.4	28.6	28.7	28.7	28.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3474	POR	4.5	448589	4799036	1551	G_15	7222	28.3	28.5	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3475	POR	4.5	448597	4799010	1571	G_15	7200	28.2	28.4	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3476	POR	4.5	448601	4798994	1584	G_15	7188	28.2	28.4	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3477	POR	4.5	448605	4798974	1601	G_15	7174	28.3	28.5	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3478	POR	4.5	448611	4798949	1622	G_15	7155	28.3	28.5	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3479	POR	4.5	448547	4798979	1620	G_15	7225	28.2	28.4	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3480	POR	4.5	448538	4799014	1592	G_15	7251	28.2	28.4	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3481	POR	4.5	448564	4798835	1745	G_15	7131	28.4	28.6	28.7	28.7	28.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3482	POR	4.5	448616	4798928	1640	G_15	7139	28.3	28.5	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3483	POR	4.5	448628	4798938	1626	G_15	7134	28.3	28.5	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3484	POR	4.5	448523	4799214	1422	G_15	7377	28.7	28.9	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3485	POR	4.5	448518	4799184	1451	G_15	7364	28.5	28.7	28.8	28.8	28.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3486	POR	4.5	448464	4799220	1447	G_15	7429	28.9	29.1	29.1	29.1	29.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3487	POR	4.5	448522	4799230	1409	G_15	7387	28.9	29.1	29.1	29.1	29.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3488	POR	4.5	448489	4799270	1391	G_15	7437	29.2	29.4	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3489	POR	4.5	448491	4799250	1407	G_15	7424	29.1	29.3	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3490	POR	4.5	448592	4799715	971	G_15	7622	32.1	32.3	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3491	POR	4.5	454562	4794106	563	G_76	870	39.3	39.4	39.5	39.5	39.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3492	POR	4.5	454740	4794130	720	G_76	864	38.5	38.6	38.7	38.7	38.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3494	POR	4.5	454862	4794127	824	G_76	900	38.1	38.2	38.3	38.3	38.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3495	POR	4.5	455058	4794141	870	G_50	971	37.4	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3496	POR	4.5	455000	4794141	871	G_50	943	37.6	37.7	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3497	POR	4.5	454998	4794192	864	G_75	897	37.6	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3498	POR	4.5	455239	4794156	907	G_50	1064	36.6	36.8	36.9	36.9	36.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3499	POR	4.5	455283	4794158	920	G_50	1091	36.5	36.6	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3500	POR	4.5	455307	4794177	945	G_50	1093	36.4	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3501	POR	4.5	455313	4794161	931	G_50	1109	36.3	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3502	POR	4.5	455320	4794099	874	G_50	1160	36.4	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3503	POR	4.5	455301	4794089	859	G_50	1155	36.5	36.6	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3504	POR	4.5	455275	4794080	842	G_50	1145	36.6	36.8	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3505	POR	4.5	455338	4794112	892	G_50	1162	36.3	36.4	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3506	POR	4.5	455366	4794121	910	G_50	1174	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3507	POR	4.5	455356	4794165	948	G_50	1135	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3508	POR	4.5	455320	4794212	982	G_50	1077	36.3	36.5	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_POR_3509	POR	4.5	455278	4794184	944	G_50	1068	36.5	36.6	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3510	POR	4.5	455426	4794130	942	G_50	1210	35.8	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3511	POR	4.5	455475	4794134	966	G_50	1243	35.6	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3512	POR	4.5	455374	4794334	936	G_75	1036	36.1	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3513	POR	4.5	455392	4794326	954	G_75	1055	36.0	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3514	POR	4.5	455397	4794298	978	G_75	1076	36.0	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3515	POR	4.5	455403	4794252	1016	G_75	1110	35.9	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3516	POR	4.5	455394	4794219	1012	G_50	1125	35.9	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_POR_3517	POR	4.5	455417	4794173	978	G_50	1173	35.8	36.0	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_POR_3518	POR	4.5	455463	4794173	996	G_50	1207	35.6	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_3519	POR	4.5	455443	4794200	1013	G_50	1175	35.7	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_3520	POR	4.5	455439	4794248	1043	G_75	1140	35.7	35.9	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3521	POR	4.5	455434	4794289	1010	G_75	1111	35.8	35.9	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3522	POR	4.5	455425	4794324	979	G_75	1082	35.8	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3523	POR	4.5	455438	4794348	971	G_75	1079	35.8	35.9	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0	C
G_POR_3524	POR	4.5	455502	4794138	982	G_50	1260	35.5	35.6	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3525	POR	4.5	455509	4794297	1058	G_75	1166	35.4	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3526	POR	4.5	455507	4794276	1071	G_75	1177	35.4	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3527	POR	4.5	455513	4794262	1085	G_75	1190	35.4	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3528	POR	4.5	455515	4794247	1085	G_50	1200	35.4	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3529	POR	4.5	455485	4794233	1060	G_50	1186	35.5	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3530	POR	4.5	455509	4794195	1036	G_50	1228	35.4	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3531	POR	4.5	455562	4794186	1053	G_50	1275	35.2	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3532	POR	4.5	455562	4794224	1087	G_50	1252	35.1	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3533	POR	4.5	455555	4794234	1092	G_50	1240	35.1	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3534	POR	4.5	455562	4794271	1115	G_75	1224	35.1	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3535	POR	4.5	455559	4794286	1103	G_75	1213	35.1	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3536	POR	4.5	455558	4794306	1089	G_75	1201	35.1	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3537	POR	4.5	455546	4794323	1069	G_75	1182	35.2	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3538	POR	4.5	455545	4794338	1058	G_75	1173	35.2	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3539	POR	4.5	455505	4794330	1033	G_75	1144	35.4	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_POR_3540	POR	4.5	455496	4794352	1012	G_75	1124	35.4	35.6	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3541	POR	4.5	455545	4794039	919	G_50	1359	35.4	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3542	POR	4.5	455587	4794054	955	G_50	1379	35.1	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3543	POR	4.5	455584	4794034	937	G_50	1390	35.2	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3544	POR	4.5	455532	4794108	971	G_50	1302	35.4	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3545	POR	4.5	455530	4794142	999	G_50	1278	35.3	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3546	POR	4.5	455569	4794133	1011	G_50	1314	35.1	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_3547	POR	4.5	455576	4794108	994	G_50	1335	35.1	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3548	POR	4.5	455578	4794094	983	G_50	1346	35.1	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_3549	POR	4.5	455542	4794078	950	G_50	1330	35.3	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3550	POR	4.5	455542	4794057	933	G_50	1344	35.4	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_POR_3551	POR	4.5	455547	4794011	897	G_50	1379	35.4	35.6	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3552	POR	4.5	455547	4793984	875	G_50	1398	35.5	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_POR_3553	POR	4.5	455548	4793960	856	G_50	1416	35.5	35.7	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_9993	POR	4.5	456159	4794276	1504	G_50	1744	31.7	31.8	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_9994	POR	4.5	455569	4794190	1060	G_50	1278	35.1	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_9995	POR	4.5	455558	4794189	1054	G_50	1270	35.2	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_POR_9996	POR	4.5	455477	4794182	1011	G_50	1212	35.6	35.7	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_POR_9997	POR	4.5	455584	4794069	966	G_50	1367	35.1	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_POR_9998	POR	4.5	445277	4792814	1104	G_36	9533	35.6	35.8	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_POR_9999	POR	4.5	450031	4789121	1667	G_68	7402	29.3	29.5	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_PR_0247	PR	4.5	446217	4802093	613	G_09	10967	35.7	35.9	36.0	36.0	36.0	-	-	-	-	-	-
G_PR_0347	PR	4.5	447126	4796046	518	G_22	7512	39.1	39.3	39.4	39.4	39.4	-	-	-	-	-	-
G_PR_0354	PR	4.5	447050	4795874	504	G_22	7564	39.2	39.4	39.5	39.5	39.5	-	-	-	-	-	-
G_PR_0482	PR	4.5	445658	4791230	543	G_38	9659	38.9	39.2	39.2	39.2	39.2	-	-	-	-	-	-
G_PR_0504	PR	4.5	445476	4792102	727	G_36	9529	37.2	37.4	37.4	37.4	37.4	-	-	-	-	-	-
G_PR_0505	PR	4.5	445370	4792094	833	G_36	9632	36.4	36.6	36.7	36.7	36.7	-	-	-	-	-	-
G_PR_0549	PR	4.5	444903	4795827	646	G_19	9695	38.1	38.3	38.4	38.4	38.4	-	-	-	-	-	-
G_PR_0759	PR	4.5	439153	4788974	774	G_56	16535	37.9	38.0	38.1	38.1	38.1	-	-	-	-	-	-
G_PR_0771	PR	4.5	439692	4787986	604	G_52	16430	38.1	38.1	38.0	38.0	38.0	-	-	-	-	-	-
G_PR_0797	PR	4.5	439548	4789871	461	G_55	15857	40.7	40.9	40.9	40.9	40.9	-	-	-	-	-	-
G_PR_0880	PR	4.5	441343	4791958	503	G_83	13558	39.2	39.4	39.4	39.4	39.4	-	-	-	-	-	-
G_PR_0888	PR	4.5	441465	4791444	488	G_79	13564	39.4	39.6	39.6	39.6	39.6	-	-	-	-	-	-
G_PR_0891	PR	4.5	441507	4790753	639	G_53	13720	37.0	37.2	37.2	37.2	37.2	-	-	-	-	-	-
G_PR_1087	PR	4.5	448088	4793098	621	G_39	6740	36.9	37.1	37.2	37.2	37.2	-	-	-	-	-	-
G_PR_1200	PR	4.5	447755	4804428	887	G_07	11648	36.2	36.5	36.6	36.6	36.6	-	-	-	-	-	-
G_PR_1201	PR	4.5	448122	4804561	601	G_10	11547	37.6	37.8	37.9	37.9	37.9	-	-	-	-	-	-
G_PR_1202	PR	4.5	448105	4804620	617	G_10	11606	37.3	37.5	37.6	37.6	37.6	-	-	-	-	-	-
G_PR_1212	PR	4.5	447994	4803552	586	G_11	10802	38.3	38.5	38.6	38.6	38.6	-	-	-	-	-	-
G_PR_1220	PR	4.5	448162	4803315	539	G_11	10511	38.6	38.9	38.9	38.9	38.9	-	-	-	-	-	-
G_PR_1230	PR	4.5	448252	4802066	681	G_13	9491	37.6	37.8	37.9	37.9	37.9	-	-	-	-	-	-
G_PR_1359	PR	4.5	449445	4793859	775	G_81	5236	35.2	35.4	35.4	35.4	35.4	-	-	-	-	-	-
G_PR_1360	PR	4.5	449459	4793863	760	G_81	5222	35.3	35.5	35.5	35.5	35.5	-	-	-	-	-	-
G_PR_1365	PR	4.5	448825	4793293	939	G_39	5978	34.6	34.8	34.8	34.8	34.8	-	-	-	-	-	-
G_PR_1389	PR	4.5	449404	4791861	569	G_41	6024	37.7	38.0	38.0	38.0	38.0	-	-	-	-	-	-
G_PR_1394	PR	4.5	449644	4791574	750	G_41	5979	36.9	37.2	37.2	37.2	37.2	-	-	-	-	-	-
G_PR_1398	PR	4.5	449718	4791624	823	G_41	5890	36.7	36.9	37.0	37.0	37.0	-	-	-	-	-	-
G_PR_1401	PR	4.5	449867	4791093	813	G_68	6092	37.2	37.4	37.4	37.4	37.4	-	-	-	-	-	-
G_PR_1410	PR	4.5	449873	4790670	704	G_68	6365	37.0	37.2	37.3	37.3	37.3	-	-	-	-	-	-
G_PR_1412	PR	4.5	449975	4790684	602	G_68	6281	37.6	37.8	37.9	37.9	37.9	-	-	-	-	-	-
G_PR_1483	PR	4.5	451591	4792148	753	G_70	4101	37.7	37.9	37.9	37.9	37.9	-	-	-	-	-	-
G_PR_1524	PR	4.5	451250	4795453	604	G_71	3345	36.8	37.0	37.1	37.1	37.1	-	-	-	-	-	-
G_PR_1525	PR	4.5	451223	4795488	627	G_71	3377	36.5	36.7	36.8	36.8	36.8	-	-	-	-	-	-
G_PR_1544	PR	4.5	451132	4797733	1219	G_31	4400	32.3	32.5	32.6	32.6	32.6	-	-	-	-	-	-
G_PR_1606	PR	4.5	450209	4803972	593	G_72	9994	38.7	38.9	39.0	39.0	39.0	-	-	-	-	-	-
G_PR_1618	PR	4.5	449940	4804807	607	G_04	10863	38.7	38.9	39	39	39	-	-	-	-	-	-
G_PR_1627	PR	4.5	449897	4805604	648	G_02	11607	37.6	37.9	37.9	37.9	37.9	-	-	-	-	-	-
G_PR_1742	PR	4.5	451265	4805937	614	G_03	11446	37.9	38.1	38.2	38.2	38.2	-	-	-	-	-	-
G_PR_1743	PR	4.5	451257	4805829	511	G_03	11345	39.1	39.4	39.4	39.4	39.4	-	-	-	-	-	-
G_PR_1748	PR	4.5	451478	4805493	447	G_03	10960	39.8	40.1	40.1	40.1	40.1	-	-	-	-	-	-
G_PR_1752	PR	4.5	451756	4804847	511	G_05	10262	38.9	39.1	39.2	39.2	39.2	-	-	-	-	-	-
G_PR_1758	PR	4.5	451913	4804213	734	G_05	9609	36.8	37	37.1	37.1	37.1	-	-	-	-	-	-
G_PR_1810	PR	4.5	452797	4799872	431	G_34	5204	39.6	39.9	39.9	39.9	39.9	-	-	-	-	-	-
G_PR_1818	PR	4.5	453469	4800150	588	G_73	5288	39.5	39.7	39.7	39.7	39.7	-	-	-	-	-	-
G_PR_1825	PR	4.5	453507	4800005	538	G_67	5139	40.1	40.3	40.4	40.4	40.4	-	-	-	-	-	-
G_PR_1848	PR	4.5	452856	4797283	435	G_32	2869	40.1	40.3	40.4	40.4	40.4	-	-	-	-	-	-

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_PR_1876	PR	4.5	453384	4795194	580	G_74	1197	38.1	38.3	38.3	38.3	38.3	-	-	-	-	-	-
G_PR_1898	PR	4.5	453707	4793848	444	G_76	1414	39.9	40.1	40.2	40.2	40.2	-	-	-	-	-	-
G_PR_1904	PR	4.5	453574	4793256	740	G_76	1983	38.4	38.6	38.7	38.7	38.7	-	-	-	-	-	-
G_PR_2028	PR	4.5	455615	4793122	594	G_50	2132	37	37.2	37.3	37.3	37.3	-	-	-	-	-	-
G_PR_2071	PR	4.5	455292	4795533	764	G_75	919	36.3	36.4	36.5	36.5	36.5	-	-	-	-	-	-
G_PR_2225	PR	4.5	445640	4791758	658	G_37	9483	38.7	38.9	39	39	39	-	-	-	-	-	-
G_PR_2362	PR	4.5	449977	4803374	737	G_12	9568	36.9	37.1	37.2	37.2	37.2	-	-	-	-	-	-
G_PR_3140	PR	4.5	455458	4794571	851	G_75	984	35.9	36.1	36.1	36.1	36.1	-	-	-	-	-	-
G_PR_3223	PR	4.5	445302	4792386	913	G_36	9614	35.9	36.1	36.2	36.2	36.2	-	-	-	-	-	-
G_PR_3462	PR	4.5	448710	4799656	947	G_15	7493	32.2	32.4	32.5	32.5	32.5	-	-	-	-	-	-
G_PR_3464	PR	4.5	448741	4799625	957	G_15	7449	32.1	32.3	32.4	32.4	32.4	-	-	-	-	-	-
G_VPO_2392	VPO	4.5	450236	4789282	1455	G_68	7150	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2395	VPO	4.5	449858	4789235	1628	G_68	7421	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2396	VPO	4.5	449587	4789251	1601	G_42	7584	29.8	30	30	30	30	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2398	VPO	4.5	448686	4789131	1635	G_42	8287	29	29.2	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2399	VPO	4.5	448425	4789090	1741	G_42	8502	28.7	29	29	29	29	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2401	VPO	4.5	447410	4788770	1988	G_78	9468	27.8	28	28	28	28	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2403	VPO	4.5	447575	4788963	1841	G_78	9217	28.6	28.7	28.8	28.8	28.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2404	VPO	4.5	447107	4788893	1830	G_78	9621	28.5	28.7	28.7	28.7	28.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2405	VPO	4.5	446524	4788802	1984	G_78	10134	27.6	27.8	27.8	27.8	27.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2412	VPO	4.5	441787	4788961	1734	G_52	14119	30.8	30.9	30.9	30.9	30.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2413	VPO	4.5	440712	4787971	686	G_52	15520	36.1	36.1	36	36	36	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2421	VPO	4.5	437122	4787431	854	G_62	19001	35.9	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2422	VPO	4.5	436905	4787494	988	G_62	19176	35	35.2	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2423	VPO	4.5	436604	4787754	986	G_61	19355	34.5	34.7	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2424	VPO	4.5	436477	4787726	1098	G_61	19483	33.6	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2425	VPO	4.5	436520	4787936	934	G_61	19366	34.6	34.8	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2426	VPO	4.5	437084	4787575	794	G_62	18979	36.6	36.8	36.9	36.9	36.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2427	VPO	4.5	436628	4788178	723	G_61	19178	36.4	36.6	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2428	VPO	4.5	436831	4788946	672	G_61	18727	38.4	38.6	38.7	38.7	38.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2429	VPO	4.5	436867	4789121	638	G_60	18637	38.2	38.4	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2430	VPO	4.5	436800	4789342	759	G_60	18633	36.8	37	37	37	37	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2431	VPO	4.5	437052	4789605	714	G_60	18314	37.5	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2432	VPO	4.5	436916	4789636	828	G_60	18435	36.3	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2433	VPO	4.5	436817	4789801	1016	G_60	18483	35	35.2	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2434	VPO	4.5	436993	4790022	1097	G_60	18253	35.2	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2435	VPO	4.5	436905	4789846	994	G_60	18386	35.4	35.6	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2436	VPO	4.5	438851	4789724	889	G_57	16564	38.1	38.3	38.4	38.4	38.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2441	VPO	4.5	438956	4790782	562	G_84	16159	38.5	38.7	38.8	38.8	38.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2442	VPO	4.5	439022	4791413	980	G_84	15942	34.3	34.5	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2443	VPO	4.5	439163	4791115	887	G_84	15874	35.8	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2445	VPO	4.5	439254	4792030	1620	G_84	15588	30.9	31.1	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2500	VPO	4.5	442919	4794545	1581	G_16	11650	30	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2540	VPO	4.5	451691	4806697	1481	G_03	12068	30.5	30.7	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2541	VPO	4.5	451648	4806914	1598	G_02	12289	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2542	VPO	4.5	451634	4807347	1921	G_02	12713	27.2	27.4	27.5	27.5	27.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2545	VPO	4.5	452321	4806049	1444	G_03	11298	30.7	30.9	31	31	31	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2546	VPO	4.5	452205	4806042	1340	G_03	11314	31.1	31.3	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2547	VPO	4.5	451802	4805986	977	G_03	11351	33.8	34	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2548	VPO	4.5	451917	4805301	868	G_03	10659	35.7	36	36	36	36	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2550	VPO	4.5	451938	4805181	852	G_05	10537	35.9	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2556	VPO	4.5	452105	4803964	923	G_06	9318	34.6	34.8	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2557	VPO	4.5	452381	4802067	1616	G_73	7419	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2558	VPO	4.5	452191	4803373	1065	G_06	8725	32.3	32.5	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2559	VPO	4.5	452214	4803272	1127	G_06	8622	31.9	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2560	VPO	4.5	452292	4802676	1544	G_06	8028	29.7	29.9	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2561	VPO	4.5	452395	4801940	1500	G_73	7293	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2562	VPO	4.5	452473	4801361	998	G_73	6718	32.3	32.5	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2563	VPO	4.5	452514	4801149	831	G_73	6504	33.4	33.6	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2565	VPO	4.5	452883	4798693	908	G_34	4079	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2566	VPO	4.5	454850	4798479	981	G_65	3515	33.1	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2567	VPO	4.5	454801	4798889	794	G_65	3921	34.7	34.9	35	35	35	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2569	VPO	4.5	452996	4797885	663	G_31	3304	37.1	37.3	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2570	VPO	4.5	454895	4798136	1228	G_65	3178	31.9	32.1	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2571	VPO	4.5	455137	4796548	1050	G_35	1675	33.4	33.6	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2572	VPO	4.5	455169	4796333	1114	G_35	1487	33.7	33.9	34	34	34	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_VPO_2573	VPO	4.5	453320	4795823	660	G_74	1503	37.9	38.1	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2574	VPO	4.5	455250	4795718	875	G_75	1013	35.5	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2577	VPO	4.5	453502	4794785	798	G_74	1076	37	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2580	VPO	4.5	454684	4794092	653	G_76	892	38.7	38.9	39	39	39	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2581	VPO	4.5	454907	4794125	863	G_76	918	37.9	38.1	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2586	VPO	4.5	455404	4794370	931	G_75	1038	36	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2587	VPO	4.5	455393	4794173	969	G_50	1156	35.9	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2603	VPO	4.5	453773	4792539	866	G_49	2561	36.7	36.9	37	37	37	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2604	VPO	4.5	453810	4792360	911	G_49	2721	36.3	36.4	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2605	VPO	4.5	453907	4791743	881	G_77	3298	35.2	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2607	VPO	4.5	453831	4791066	667	G_77	3977	35.9	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2609	VPO	4.5	453768	4791520	647	G_77	3545	36.5	36.7	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2610	VPO	4.5	453739	4791724	737	G_77	3354	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2611	VPO	4.5	452687	4791611	624	G_77	3851	37.8	38	38	38	38	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2612	VPO	4.5	451833	4791502	1045	G_69	4417	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2615	VPO	4.5	451847	4791670	1072	G_69	4277	36.3	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2616	VPO	4.5	452687	4791769	729	G_77	3714	37.5	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2617	VPO	4.5	451721	4792343	745	G_47	3872	38	38.2	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2619	VPO	4.5	453425	4794103	801	G_76	1432	37.1	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2620	VPO	4.5	452021	4793756	650	G_82	2818	37.6	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2621	VPO	4.5	453421	4794207	857	G_76	1375	36.8	37	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2622	VPO	4.5	453396	4794327	948	G_76	1333	36.5	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2623	VPO	4.5	453361	4794456	1059	G_76	1308	36.3	36.5	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2624	VPO	4.5	453236	4795134	738	G_74	1334	36.7	36.9	37	37	37	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2625	VPO	4.5	453153	4795821	807	G_74	1642	37.3	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2626	VPO	4.5	451263	4795364	612	G_71	3321	36.7	36.9	37	37	37	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2627	VPO	4.5	451333	4794906	822	G_71	3229	35.2	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2628	VPO	4.5	451209	4795697	655	G_71	3429	36.3	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2630	VPO	4.5	451132	4796335	1064	G_71	3689	34.1	34.3	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2631	VPO	4.5	451070	4796663	1323	G_33	3877	33.3	33.4	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2632	VPO	4.5	450932	4797600	1441	G_31	4478	31.2	31.4	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2635	VPO	4.5	452250	4799781	883	G_34	5332	34.2	34.4	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2637	VPO	4.5	450324	4801702	1451	G_14	7950	32.3	32.5	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2638	VPO	4.5	451863	4801996	1878	G_73	7521	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2639	VPO	4.5	450341	4801885	1473	G_13	8096	32.6	32.8	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2640	VPO	4.5	450278	4802451	1358	G_12	8615	33.5	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2641	VPO	4.5	450141	4802963	971	G_12	9129	35.3	35.5	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2642	VPO	4.5	450245	4802655	1209	G_12	8809	34.2	34.4	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2643	VPO	4.5	452076	4803349	969	G_06	8734	33.3	33.5	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2644	VPO	4.5	452225	4802364	1738	G_06	7749	28.9	29.1	29.1	29.1	29.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2647	VPO	4.5	451822	4805104	715	G_05	10492	37.2	37.4	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2648	VPO	4.5	451817	4805188	771	G_05	10575	36.9	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2650	VPO	4.5	449778	4805861	746	G_02	11890	36	36.2	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2651	VPO	4.5	451491	4807140	1669	G_02	12546	28	28.2	28.3	28.3	28.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2657	VPO	4.5	449599	4806177	1002	G_02	12251	33.5	33.8	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2658	VPO	4.5	449630	4805824	891	G_02	11916	35	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2659	VPO	4.5	447767	4805340	1207	G_10	12393	32.3	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2660	VPO	4.5	448632	4805613	1015	G_10	12178	32.2	32.5	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2661	VPO	4.5	448704	4805649	1047	G_10	12175	31.7	31.9	32	32	32	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2662	VPO	4.5	447805	4805247	1121	G_10	12294	33.1	33.4	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2663	VPO	4.5	449791	4804663	795	G_04	10798	37.6	37.8	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2664	VPO	4.5	449849	4804415	824	G_72	10550	37.7	37.9	38	38	38	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2665	VPO	4.5	448061	4802988	850	G_11	10317	36.8	37	37	37	37	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2666	VPO	4.5	448157	4802750	912	G_13	10072	36.6	36.8	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2667	VPO	4.5	448170	4802576	815	G_13	9930	36.7	36.9	37	37	37	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2669	VPO	4.5	450021	4801727	1151	G_14	8136	33.7	34	34	34	34	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2670	VPO	4.5	448403	4800983	796	G_14	8603	35.5	35.7	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2674	VPO	4.5	449954	4799743	1015	G_15	6630	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2675	VPO	4.5	451784	4799946	1376	G_34	5694	31.4	31.6	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2676	VPO	4.5	450328	4799736	1313	G_15	6370	30.3	30.5	30.6	30.6	30.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2677	VPO	4.5	449209	4799556	894	G_15	7044	32.5	32.7	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2679	VPO	4.5	449101	4799452	1006	G_15	7060	31.7	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2681	VPO	4.5	448266	4800796	1020	G_15	8573	33.9	34.1	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2683	VPO	4.5	448161	4801353	764	G_14	9035	35.6	35.8	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2684	VPO	4.5	447655	4801316	1131	G_09	9375	33.3	33.5	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2685	VPO	4.5	447364	4801388	882	G_09	9639	33.8	34	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_VPO_2686	VPO	4.5	448336	4800142	942	G_15	8090	32.6	32.8	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2687	VPO	4.5	448319	4799793	1120	G_15	7885	31	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2689	VPO	4.5	448388	4799719	1112	G_15	7785	31.1	31.3	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2690	VPO	4.5	448283	4799707	1201	G_15	7861	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2691	VPO	4.5	448163	4799689	1307	G_15	7947	30	30.2	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2692	VPO	4.5	448028	4799663	1433	G_15	8041	29.5	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2693	VPO	4.5	448118	4799602	1395	G_15	7932	29.5	29.7	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2695	VPO	4.5	448393	4799542	1232	G_15	7674	30.1	30.3	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2697	VPO	4.5	448093	4799320	1600	G_15	7792	28.4	28.6	28.7	28.7	28.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2699	VPO	4.5	448141	4799308	1575	G_15	7745	28.6	28.8	28.9	28.9	28.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2700	VPO	4.5	448128	4799229	1642	G_15	7712	28.3	28.5	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2701	VPO	4.5	448496	4799068	1563	G_15	7316	28.4	28.6	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2702	VPO	4.5	448486	4799145	1500	G_15	7368	28.3	28.5	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2703	VPO	4.5	448624	4798883	1679	G_15	7107	28.3	28.5	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2704	VPO	4.5	448650	4798826	1723	G_15	7054	28.3	28.5	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2705	VPO	4.5	448650	4798793	1754	G_15	7036	28.6	28.8	28.8	28.8	28.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2706	VPO	4.5	448870	4799364	1143	G_15	7186	30.4	30.7	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2710	VPO	4.5	448362	4799482	1298	G_15	7664	29.7	30	30	30	30	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2711	VPO	4.5	448216	4799238	1578	G_15	7644	28.6	28.8	28.8	28.8	28.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2712	VPO	4.5	448346	4799332	1423	G_15	7590	29.2	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2714	VPO	4.5	448690	4799254	1311	G_15	7264	29.1	29.3	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2715	VPO	4.5	448749	4799558	1012	G_15	7401	31.7	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2722	VPO	4.5	448744	4798529	1981	G_15	6816	28.3	28.5	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2723	VPO	4.5	448677	4798715	1820	G_15	6972	28.4	28.6	28.7	28.7	28.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2724	VPO	4.5	450803	4797318	1650	G_31	4428	31	31.2	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2726	VPO	4.5	450951	4796559	1352	G_71	3942	32.9	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2728	VPO	4.5	449158	4795671	1471	G_23	5447	32	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2730	VPO	4.5	449309	4795060	1258	G_81	5253	32.3	32.5	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2734	VPO	4.5	451195	4794881	932	G_71	3367	34.7	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2735	VPO	4.5	451229	4794705	1044	G_71	3343	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2736	VPO	4.5	449374	4794188	794	G_81	5246	34.9	35.2	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2737	VPO	4.5	449197	4794348	992	G_81	5400	33.8	34	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2738	VPO	4.5	451489	4793121	753	G_82	3588	37.1	37.3	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2739	VPO	4.5	451509	4792874	781	G_82	3706	37.5	37.7	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2740	VPO	4.5	449577	4792805	1379	G_41	5436	34	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2741	VPO	4.5	449614	4792596	1224	G_41	5489	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2742	VPO	4.5	449708	4791946	881	G_41	5721	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2745	VPO	4.5	451687	4791494	899	G_69	4515	36.5	36.7	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2746	VPO	4.5	451741	4791072	1046	G_69	4816	35.6	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2747	VPO	4.5	449937	4790551	656	G_68	6400	37	37.2	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2748	VPO	4.5	449954	4790401	689	G_68	6492	36.4	36.6	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2749	VPO	4.5	451850	4790478	849	G_46	5251	34.9	35.1	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2751	VPO	4.5	447779	4789844	1155	G_78	8505	32.6	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2753	VPO	4.5	447900	4790428	921	G_78	8065	35	35.2	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2754	VPO	4.5	447924	4790347	972	G_78	8091	34.7	34.9	35	35	35	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2755	VPO	4.5	447937	4790235	1032	G_78	8146	34.2	34.4	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2756	VPO	4.5	449372	4793200	1231	G_81	5484	33.7	33.9	34	34	34	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2757	VPO	4.5	449397	4792937	1423	G_41	5552	33.7	33.9	34	34	34	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2761	VPO	4.5	447604	4791982	636	G_64	7574	37.7	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2763	VPO	4.5	447589	4792077	653	G_64	7550	37.5	37.7	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2768	VPO	4.5	449232	4794036	941	G_81	5411	34.3	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2770	VPO	4.5	449090	4795145	1473	G_81	5474	32.2	32.4	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2771	VPO	4.5	449064	4795268	1578	G_81	5505	32.5	32.7	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2772	VPO	4.5	447181	4794729	809	G_66	7384	37.5	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2773	VPO	4.5	447272	4794151	838	G_39	7335	37.3	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2774	VPO	4.5	448993	4795421	1466	G_23	5586	32.6	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2775	VPO	4.5	448956	4795634	1313	G_23	5643	32.7	32.9	33	33	33	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2776	VPO	4.5	448910	4796099	1092	G_23	5761	32.9	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2777	VPO	4.5	448814	4796861	1106	G_23	6048	31.7	31.9	32	32	32	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2778	VPO	4.5	448761	4797264	1309	G_23	6235	30	30.2	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2780	VPO	4.5	446976	4796403	870	G_23	7718	36.3	36.5	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2781	VPO	4.5	448735	4797659	1600	G_23	6414	29	29.3	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2790	VPO	4.5	447587	4799402	1945	G_15	8260	28	28.2	28.2	28.2	28.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2791	VPO	4.5	446169	4801841	706	G_09	10842	34.3	34.5	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2792	VPO	4.5	446102	4802709	956	G_09	11461	33.3	33.5	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2793	VPO	4.5	447891	4803358	745	G_11	10712	37.5	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_VPO_2794	VPO	4.5	448013	4802577	960	G_13	10033	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2797	VPO	4.5	447849	4803711	720	G_11	11016	37.6	37.8	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2798	VPO	4.5	445795	4804722	1126	G_07	13109	30.8	31.1	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2806	VPO	4.5	447550	4805795	1566	G_07	12892	30.5	31	31	31	31	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2811	VPO	4.5	445017	4805017	1957	G_07	13853	25.9	26.5	26.5	26.5	26.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2812	VPO	4.5	445603	4804655	1294	G_07	13188	29.7	30	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2813	VPO	4.5	445682	4804077	1226	G_07	12715	30.9	31.2	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2815	VPO	4.5	445828	4803092	1285	G_08	11922	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2819	VPO	4.5	445989	4802260	858	G_09	11249	33.1	33.3	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2841	VPO	4.5	446536	4798024	1993	G_80	8584	29	29.2	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2844	VPO	4.5	445682	4797044	749	G_80	9117	35.2	35.4	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2845	VPO	4.5	444817	4796944	936	G_80	9941	33.4	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2846	VPO	4.5	444726	4797460	1388	G_80	10144	30	30.2	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2847	VPO	4.5	444688	4797597	1523	G_80	10215	29.3	29.5	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2848	VPO	4.5	444622	4796977	1108	G_80	10138	32.2	32.4	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2849	VPO	4.5	444592	4797164	1250	G_80	10206	31.2	31.4	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2850	VPO	4.5	444530	4797580	1600	G_80	10363	28.8	29	29	29	29	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2851	VPO	4.5	444522	4797772	1760	G_80	10421	28.3	28.5	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2857	VPO	4.5	446701	4797019	1333	G_23	8121	33.2	33.4	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2858	VPO	4.5	444676	4796748	940	G_80	10043	33.7	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2859	VPO	4.5	444380	4796698	1193	G_80	10326	32.1	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2861	VPO	4.5	446814	4796332	941	G_22	7865	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2862	VPO	4.5	446926	4795546	629	G_22	7656	38.7	39	39	39	39	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2870	VPO	4.5	444900	4794847	863	G_20	9662	37.1	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2871	VPO	4.5	444376	4794785	838	G_16	10187	35.5	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2873	VPO	4.5	444871	4795276	810	G_20	9695	37.3	37.5	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2874	VPO	4.5	444821	4795587	762	G_19	9759	37.2	37.4	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2877	VPO	4.5	447192	4793737	679	G_86	7472	38.3	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2879	VPO	4.5	446247	4792930	614	G_86	8562	39	39.2	39.3	39.3	39.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2880	VPO	4.5	445300	4793244	1038	G_21	9421	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2887	VPO	4.5	445038	4792776	1071	G_17	9774	35.4	35.6	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2888	VPO	4.5	445096	4792647	1124	G_17	9747	35.4	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2892	VPO	4.5	445391	4792618	906	G_36	9468	36.1	36.3	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2894	VPO	4.5	445749	4792714	679	G_36	9097	37.5	37.7	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2895	VPO	4.5	445406	4792710	939	G_36	9431	36	36.2	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2898	VPO	4.5	445212	4792335	993	G_36	9715	35.6	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2903	VPO	4.5	444701	4790638	1521	G_38	10772	31.5	31.7	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2904	VPO	4.5	443528	4791308	1437	G_17	11627	32.4	32.6	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2905	VPO	4.5	443503	4791507	1259	G_17	11589	32.8	33	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2908	VPO	4.5	447675	4790500	685	G_78	8213	36.3	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2909	VPO	4.5	445677	4789766	1367	G_38	10299	31.3	31.5	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2910	VPO	4.5	443618	4789697	1891	G_53	12150	28.5	28.7	28.7	28.7	28.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2911	VPO	4.5	441685	4789831	1133	G_53	13866	32.8	33	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2912	VPO	4.5	441656	4789981	1011	G_53	13838	33.6	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2914	VPO	4.5	442954	4790393	948	G_53	12479	32.8	33	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2916	VPO	4.5	441865	4788189	1719	G_52	14396	29.1	29.2	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2917	VPO	4.5	441868	4788169	1724	G_52	14403	29.1	29.2	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2918	VPO	4.5	442118	4788111	1979	G_52	14211	28.2	28.3	28.3	28.3	28.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2919	VPO	4.5	443390	4791133	1282	G_53	11813	32.4	32.6	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2921	VPO	4.5	443291	4791736	1160	G_17	11726	33.6	33.8	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2923	VPO	4.5	441502	4791004	647	G_53	13649	37.7	37.9	38	38	38	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2926	VPO	4.5	440936	4793674	1776	G_83	13687	27.9	28.1	28.2	28.2	28.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2928	VPO	4.5	441119	4792468	773	G_83	13674	34.8	35	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2929	VPO	4.5	441153	4792285	680	G_83	13675	36	36.2	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2931	VPO	4.5	441315	4790996	829	G_53	13831	36.3	36.5	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2932	VPO	4.5	441235	4792654	781	G_83	13527	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2934	VPO	4.5	445492	4805667	1881	G_07	14020	25.9	26.7	26.7	26.7	26.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2937	VPO	4.5	450657	4799803	1570	G_15	6208	29.8	30	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2938	VPO	4.5	446113	4802214	728	G_09	11125	34.4	34.6	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2941	VPO	4.5	454021	4789879	1461	G_46	5125	29.9	30.1	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2947	VPO	4.5	455120	4796643	1032	G_35	1759	33.3	33.5	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2948	VPO	4.5	454876	4798358	1070	G_65	3397	32.5	32.7	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2949	VPO	4.5	451542	4797688	829	G_31	4058	34.9	35	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2950	VPO	4.5	451374	4793821	1100	G_82	3390	35	35.2	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2951	VPO	4.5	450539	4799506	1617	G_15	6058	29.3	29.5	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2952	VPO	4.5	441637	4787953	1539	G_52	14709	30	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_VPO_2953	VPO	4.5	441542	4787934	1454	G_52	14801	30.3	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2956	VPO	4.5	449997	4789981	921	G_68	6766	34	34.2	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2957	VPO	4.5	453892	4798017	983	G_65	3114	34.4	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2958	VPO	4.5	448696	4799216	1343	G_15	7237	28.6	28.8	28.9	28.9	28.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2959	VPO	4.5	451792	4806090	1039	G_03	11454	33.3	33.5	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2963	VPO	4.5	451445	4794253	1283	G_81	3199	34.5	34.7	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_2966	VPO	4.5	455190	4796108	1186	G_75	1295	34.3	34.4	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3008	VPO	4.5	453149	4795962	878	G_74	1722	37.4	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3009	VPO	4.5	450855	4798145	1496	G_31	4876	30.5	30.7	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3010	VPO	4.5	451808	4799796	1319	G_34	5551	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3011	VPO	4.5	450831	4789373	1347	G_68	6731	30.3	30.5	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3019	VPO	4.5	449913	4789238	1602	G_68	7384	29.9	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3022	VPO	4.5	451509	4792982	751	G_82	3645	37.4	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3023	VPO	4.5	449300	4789175	1592	G_42	7831	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3025	VPO	4.5	447720	4790250	838	G_78	8314	34.9	35.1	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3036	VPO	4.5	445331	4792814	1059	G_36	9480	35.7	35.9	36	36	36	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3051	VPO	4.5	446180	4796960	930	G_80	8613	34.5	34.7	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3067	VPO	4.5	441275	4788022	1173	G_52	14996	32	32	32	32	32	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3068	VPO	4.5	438962	4789583	1001	G_58	16505	37.8	38	38.1	38.1	38.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3080	VPO	4.5	447537	4806178	1913	G_07	13222	28.8	29.7	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3081	VPO	4.5	446661	4805364	1001	G_07	13051	31.6	32	32	32	32	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3082	VPO	4.5	445662	4804277	1212	G_07	12873	30.7	31	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_3085	VPO	4.5	446184	4800680	1551	G_09	10135	28.3	28.5	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9950	VPO	4.5	455376	4800410	1586	G_67	5495	28.7	28.9	29	29	29	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9951	VPO	4.5	448472	4799891	938	G_15	7826	32.3	32.5	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9952	VPO	4.5	448594	4799548	1102	G_15	7517	31	31.2	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9953	VPO	4.5	448284	4799479	1353	G_15	7725	29.6	29.8	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9954	VPO	4.5	448494	4799409	1273	G_15	7514	30	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9955	VPO	4.5	448270	4799317	1483	G_15	7644	28.9	29.1	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9956	VPO	4.5	448392	4799274	1441	G_15	7518	29.1	29.4	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9957	VPO	4.5	455291	4798335	1436	G_65	3438	30.5	30.7	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9958	VPO	4.5	455041	4798106	1357	G_65	3167	31.3	31.5	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9959	VPO	4.5	455062	4797959	1472	G_65	3025	31.1	31.3	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9960	VPO	4.5	455133	4797505	1378	G_35	2593	30.9	31.1	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9961	VPO	4.5	455200	4796931	1158	G_35	2057	32.3	32.5	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9963	VPO	4.5	455923	4794348	1365	G_75	1499	33.1	33.2	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9964	VPO	4.5	455983	4794190	1317	G_50	1624	32.8	32.9	33	33	33	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9965	VPO	4.5	455963	4794187	1301	G_50	1609	32.9	33	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9966	VPO	4.5	455945	4794187	1287	G_50	1593	32.9	33.1	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9967	VPO	4.5	455756	4792991	769	G_50	2317	35.1	35.3	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9968	VPO	4.5	445396	4792564	878	G_36	9477	36.1	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9969	VPO	4.5	455862	4792360	1227	G_50	2922	32	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9970	VPO	4.5	437259	4791797	1627	G_84	17591	30.1	30.3	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9971	VPO	4.5	437203	4791677	1587	G_84	17669	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9972	VPO	4.5	437307	4791604	1460	G_84	17580	31	31.2	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9973	VPO	4.5	437393	4791572	1375	G_84	17502	31.5	31.6	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9974	VPO	4.5	437023	4791278	1517	G_57	17924	31.2	31.4	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9975	VPO	4.5	436807	4791095	1572	G_57	18173	30.9	31.1	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9976	VPO	4.5	437177	4790495	980	G_57	17952	34.9	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9977	VPO	4.5	437246	4790441	900	G_57	17899	35.5	35.7	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9978	VPO	4.5	436174	4789835	1542	G_60	19092	31.5	31.7	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9979	VPO	4.5	436264	4789731	1412	G_60	19034	32.2	32.4	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9980	VPO	4.5	453525	4789609	1215	G_46	5466	30.5	30.7	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9981	VPO	4.5	450166	4789279	1475	G_68	7195	30.4	30.6	30.7	30.7	30.7	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9982	VPO	4.5	450763	4789266	1442	G_68	6857	29.7	30	30	30	30	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9983	VPO	4.5	441025	4787847	1016	G_52	15298	33	33	33	33	33	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9984	VPO	4.5	439674	4787679	845	G_52	16579	35.6	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9985	VPO	4.5	436158	4787592	1429	G_61	19829	31.4	31.6	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9986	VPO	4.5	436010	4787342	1702	G_61	20060	30	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9987	VPO	4.5	437748	4787012	770	G_63	18603	35.8	36	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9988	VPO	4.5	437844	4786986	736	G_63	18528	35.9	36.1	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9989	VPO	4.5	439882	4786816	1581	G_52	16794	30.4	30.5	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9990	VPO	4.5	440003	4786702	1678	G_52	16744	29.7	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9991	VPO	4.5	437513	4785975	1788	G_63	19278	28.2	28.4	28.5	28.5	28.5	40.0	43.0	45.0	49.0	51.0	C
G_VPO_9992	VPO	4.5	437600	4785949	1780	G_63	19214	28.3	28.6	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0	C
G_VPR_2414	VPR	4.5	440232	4787905	474	G_52	15978	39.3	39.3	39.2	39.2	39.2	-	-	-	-	-	-

Point of Reception ID	Class	Height (m)	UTM Coordinates		Distance to Nearest Turbine (m)	Nearest Turbine ID	Distance to Transformer Substation (m)	Calculated Noise Level at Selected Wind Speeds (dBA)					Noise Level Limit (dBA)					Compliant or Non-compliant*
			X (m)	Y (m)				6	7	8	9	10	6	7	8	9	10	
G_VPR_2416	VPR	4.5	438675	4788087	651	G_63	17315	38.8	39	39.1	39.1	39.1	-	-	-	-	-	-
G_VPR_2420	VPR	4.5	438798	4789310	833	G_58	16750	38.1	38.3	38.3	38.3	38.3	-	-	-	-	-	-
G_VPR_2437	VPR	4.5	439057	4790109	804	G_54	16250	38.4	38.6	38.6	38.6	38.6	-	-	-	-	-	-
G_VPR_2438	VPR	4.5	438903	4790183	677	G_84	16375	38.9	39.1	39.1	39.1	39.1	-	-	-	-	-	-
G_VPR_2439	VPR	4.5	439106	4790344	692	G_54	16134	38.6	38.8	38.9	38.9	38.9	-	-	-	-	-	-
G_VPR_2440	VPR	4.5	438938	4790565	534	G_84	16234	39.2	39.4	39.5	39.5	39.5	-	-	-	-	-	-
G_VPR_2564	VPR	4.5	454065	4800249	553	G_67	5297	37.9	38.1	38.1	38.1	38.1	-	-	-	-	-	-
G_VPR_2568	VPR	4.5	454778	4799081	769	G_65	4111	35.2	35.4	35.5	35.5	35.5	-	-	-	-	-	-
G_VPR_2575	VPR	4.5	453290	4796624	799	G_35	2081	37.8	38	38.1	38.1	38.1	-	-	-	-	-	-
G_VPR_2576	VPR	4.5	455253	4795134	536	G_75	710	38.5	38.7	38.7	38.7	38.7	-	-	-	-	-	-
G_VPR_2582	VPR	4.5	454955	4794129	862	G_50	934	37.7	37.9	38	38	38	-	-	-	-	-	-
G_VPR_2598	VPR	4.5	455503	4793828	724	G_50	1485	36.3	36.5	36.6	36.6	36.6	-	-	-	-	-	-
G_VPR_2601	VPR	4.5	453725	4792943	867	G_49	2198	37.7	37.9	38	38	38	-	-	-	-	-	-
G_VPR_2608	VPR	4.5	453806	4791216	620	G_77	3835	36.5	36.7	36.7	36.7	36.7	-	-	-	-	-	-
G_VPR_2613	VPR	4.5	451971	4790619	738	G_46	5068	35.8	36	36.1	36.1	36.1	-	-	-	-	-	-
G_VPR_2614	VPR	4.5	452009	4790468	691	G_46	5180	35.8	36	36.1	36.1	36.1	-	-	-	-	-	-
G_VPR_2618	VPR	4.5	451707	4792467	728	G_47	3800	38.1	38.4	38.4	38.4	38.4	-	-	-	-	-	-
G_VPR_2634	VPR	4.5	452807	4798013	479	G_31	3507	38.8	39	39.1	39.1	39.1	-	-	-	-	-	-
G_VPR_2645	VPR	4.5	451989	4803944	805	G_06	9330	35.7	35.9	36	36	36	-	-	-	-	-	-
G_VPR_2646	VPR	4.5	449959	4804424	715	G_72	10510	38.4	38.6	38.7	38.7	38.7	-	-	-	-	-	-
G_VPR_2649	VPR	4.5	449861	4805296	738	G_04	11340	37.8	38	38.1	38.1	38.1	-	-	-	-	-	-
G_VPR_2672	VPR	4.5	448477	4800353	755	G_15	8120	34.4	34.6	34.7	34.7	34.7	-	-	-	-	-	-
G_VPR_2673	VPR	4.5	448494	4800147	792	G_15	7972	34	34.2	34.2	34.2	34.2	-	-	-	-	-	-
G_VPR_2744	VPR	4.5	449887	4790942	733	G_68	6174	37.2	37.5	37.5	37.5	37.5	-	-	-	-	-	-
G_VPR_2752	VPR	4.5	449605	4791116	722	G_42	6282	37.5	37.7	37.7	37.7	37.7	-	-	-	-	-	-
G_VPR_2759	VPR	4.5	447756	4791074	810	G_78	7844	36.6	36.8	36.9	36.9	36.9	-	-	-	-	-	-
G_VPR_2762	VPR	4.5	447469	4791984	508	G_64	7697	39	39.2	39.2	39.2	39.2	-	-	-	-	-	-
G_VPR_2764	VPR	4.5	447536	4792370	775	G_64	7493	36.8	37	37.1	37.1	37.1	-	-	-	-	-	-
G_VPR_2766	VPR	4.5	449316	4793619	998	G_81	5417	34.2	34.4	34.5	34.5	34.5	-	-	-	-	-	-
G_VPR_2767	VPR	4.5	447579	4793554	434	G_39	7125	39.7	39.9	39.9	39.9	39.9	-	-	-	-	-	-
G_VPR_2795	VPR	4.5	448045	4802358	874	G_13	9847	36.1	36.3	36.4	36.4	36.4	-	-	-	-	-	-
G_VPR_2796	VPR	4.5	447883	4803520	701	G_11	10844	37.7	37.9	38	38	38	-	-	-	-	-	-
G_VPR_2863	VPR	4.5	446968	4795176	783	G_22	7596	38.7	38.9	39	39	39	-	-	-	-	-	-
G_VPR_2864	VPR	4.5	447005	4794947	696	G_66	7556	38.6	38.8	38.9	38.9	38.9	-	-	-	-	-	-
G_VPR_2865	VPR	4.5	447038	4794743	669	G_66	7526	38.4	38.6	38.7	38.7	38.7	-	-	-	-	-	-
G_VPR_2866	VPR	4.5	447076	4794527	711	G_66	7498	38	38.2	38.3	38.3	38.3	-	-	-	-	-	-
G_VPR_2867	VPR	4.5	445146	4794872	636	G_20	9415	38.6	38.9	38.9	38.9	38.9	-	-	-	-	-	-
G_VPR_2868	VPR	4.5	445018	4795341	672	G_20	9550	38.6	38.8	38.9	38.9	38.9	-	-	-	-	-	-
G_VPR_2878	VPR	4.5	447213	4793546	643	G_86	7486	38.3	38.5	38.6	38.6	38.6	-	-	-	-	-	-
G_VPR_2881	VPR	4.5	445181	4794137	666	G_21	9417	38.4	38.6	38.7	38.7	38.7	-	-	-	-	-	-
G_VPR_2885	VPR	4.5	443361	4792560	622	G_17	11457	36.3	36.5	36.6	36.6	36.6	-	-	-	-	-	-
G_VPR_2886	VPR	4.5	444414	4792693	442	G_17	10400	39.1	39.3	39.4	39.4	39.4	-	-	-	-	-	-
G_VPR_2897	VPR	4.5	446572	4790890	433	G_38	8973	41.8	42	42.1	42.1	42.1	-	-	-	-	-	-
G_VPR_2902	VPR	4.5	445437	4791470	846	G_38	9774	36.8	37	37.1	37.1	37.1	-	-	-	-	-	-
G_VPR_2906	VPR	4.5	443374	4792373	670	G_17	11486	35.8	36	36.1	36.1	36.1	-	-	-	-	-	-
G_VPR_2907	VPR	4.5	447627	4790892	624	G_78	8047	37.5	37.7	37.8	37.8	37.8	-	-	-	-	-	-
G_VPR_2913	VPR	4.5	441635	4790205	833	G_53	13778	34.7	34.9	35	35	35	-	-	-	-	-	-
G_VPR_2915	VPR	4.5	441539	4790651	635	G_53	13721	36.8	37	37.1	37.1	37.1	-	-	-	-	-	-
G_VPR_2922	VPR	4.5	443187	4792335	855	G_17	11676	34.6	34.9	34.9	34.9	34.9	-	-	-	-	-	-
G_VPR_2930	VPR	4.5	441419	4790176	998	G_53	13991	34.2	34.4	34.4	34.4	34.4	-	-	-	-	-	-
G_VPR_2945	VPR	4.5	444970	4794218	647	G_16	9621	38.1	38.3	38.4	38.4	38.4	-	-	-	-	-	-
G_VPR_2955	VPR	4.5	447776	4790935	779	G_78	7897	36.5	36.7	36.8	36.8	36.8	-	-	-	-	-	-
G_VPR_3007	VPR	4.5	451623	4792852	685	G_82	3625	38.1	38.3	38.4	38.4	38.4	-	-	-	-	-	-
G_VPR_3069	VPR	4.5	441504	4790133	971	G_53	13926	34.1	34.3	34.4	34.4	34.4	-	-	-	-	-	-
G_VPR_3084	VPR	4.5	448237	4801796	661	G_14	9301	37.4	37.6	37.6	37.6	37.6	-	-	-	-	-	-
G_VPR_9962	VPR	4.5	455460	4794635	822	G_75	961	36	36.2	36.2	36.2	36.2	-	-	-	-	-	-

Notes:
POR – Non-participating Point of Reception
VPO – Non-participating Vacant Lot Point of Reception
PR – Participating Point of Reception
VPR – Participating Vacant Lot Point of Reception
C – Compliant
NC – Not Compliant

* *The noise impact calculation was limited to source – point of reception distances of 5Km, in such cases the table entries were represented as dashes. Participating receptors are not subject to the MOE noise limits and in these cases the noise limit entries are represented as dashes as well. In either of the above cases assessment of compliance is not required and therefore this entry is also represented as a dash.*

9. References

The following references were used in the preparation of this report:

PIBS 4709e, *Noise Guidelines for Wind Farms – Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities*, Ontario Ministry of the Environment, Queens Printer for Ontario, October 2008.

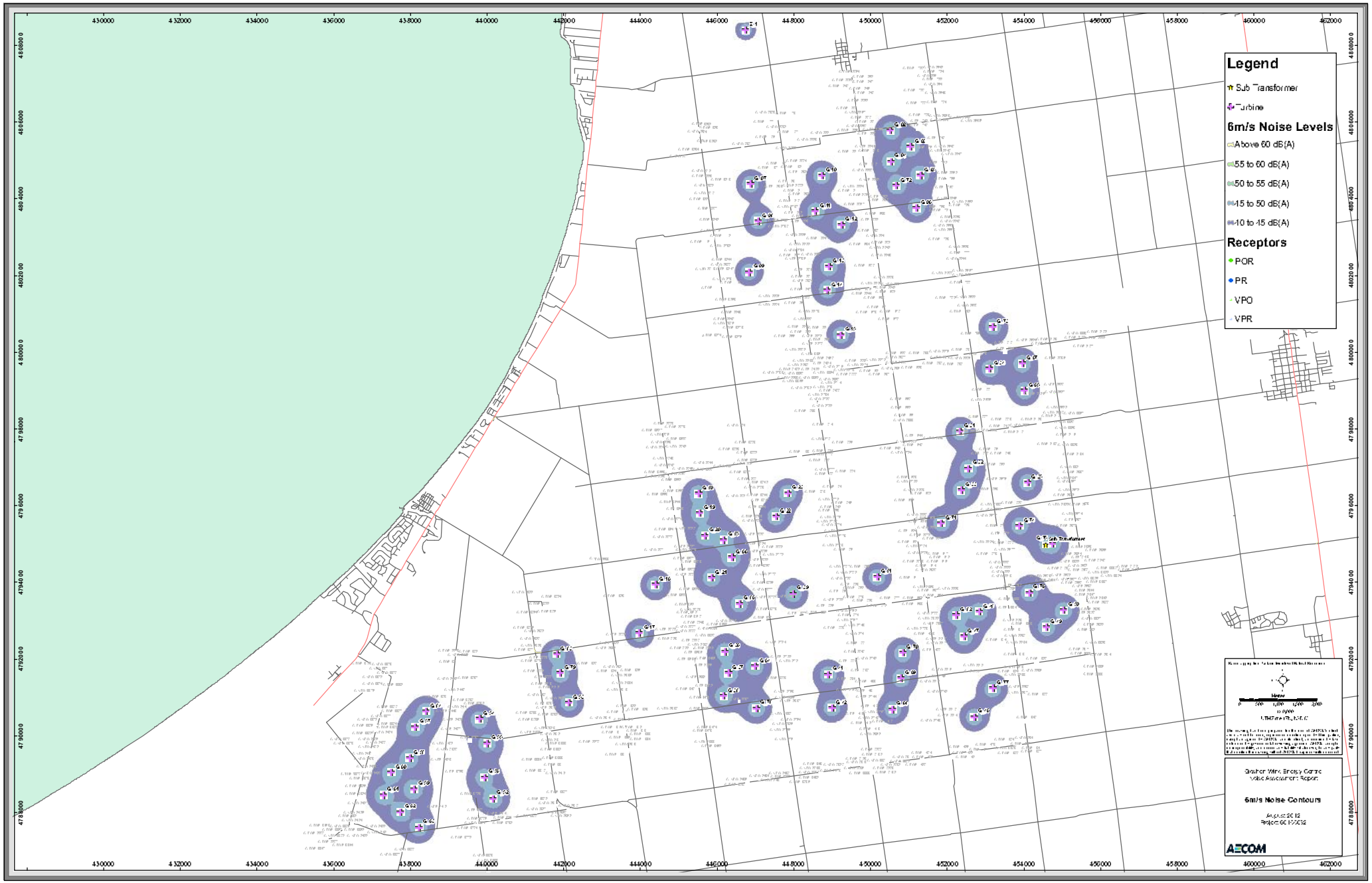
IEC 61400-11, *Wind turbine generator systems – Part 11: Acoustic noise measurement techniques*, International Electrotechnical Commission, 2006.

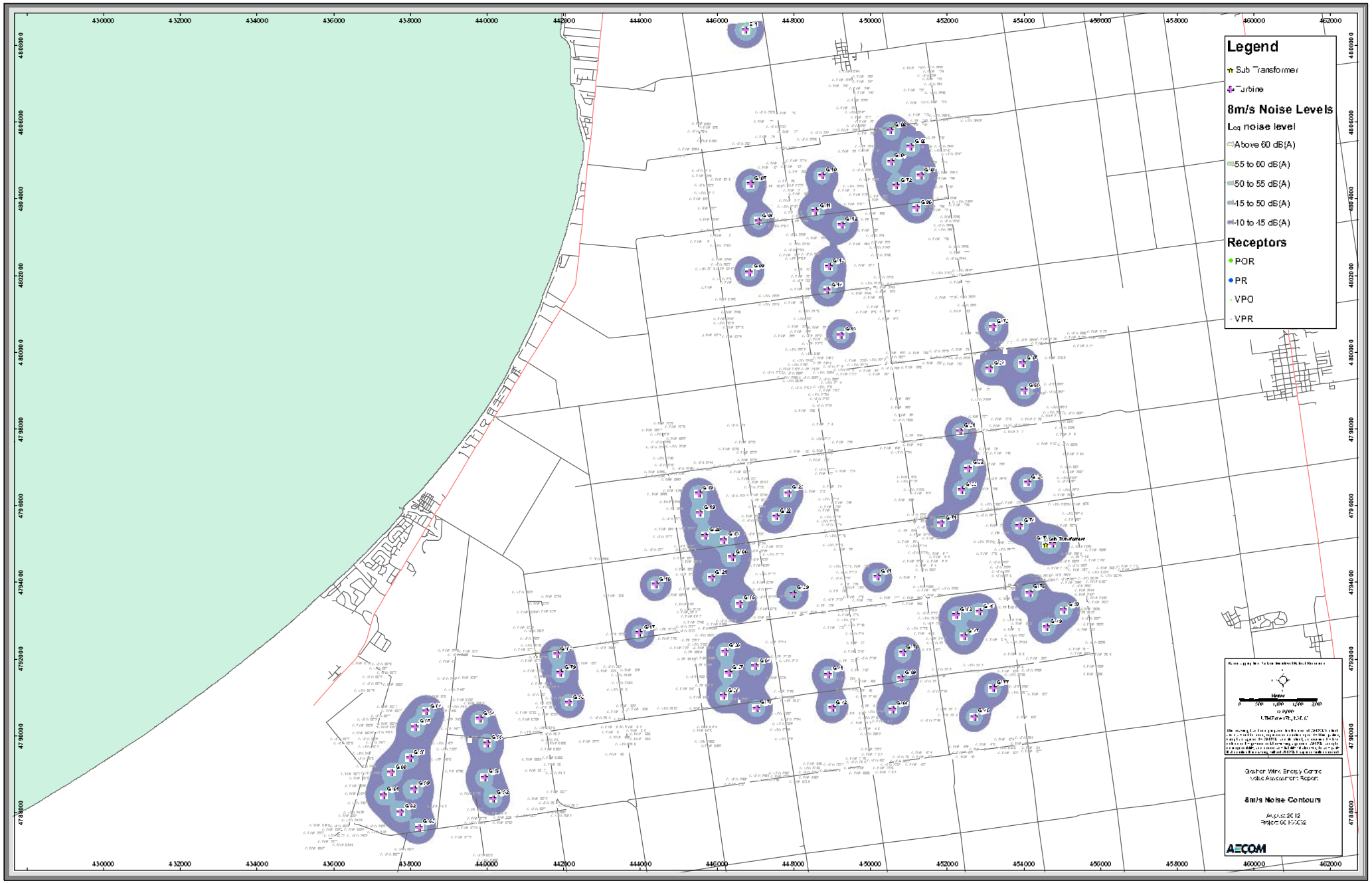
ANSI C57.12.90 (IEEE C57.12.90-1993), *IEEE Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers and IEEE Guide for Short-Circuit Testing of Distribution and Power Transformers*, Institute of Electrical and Electronics Engineers, Inc., 1993.

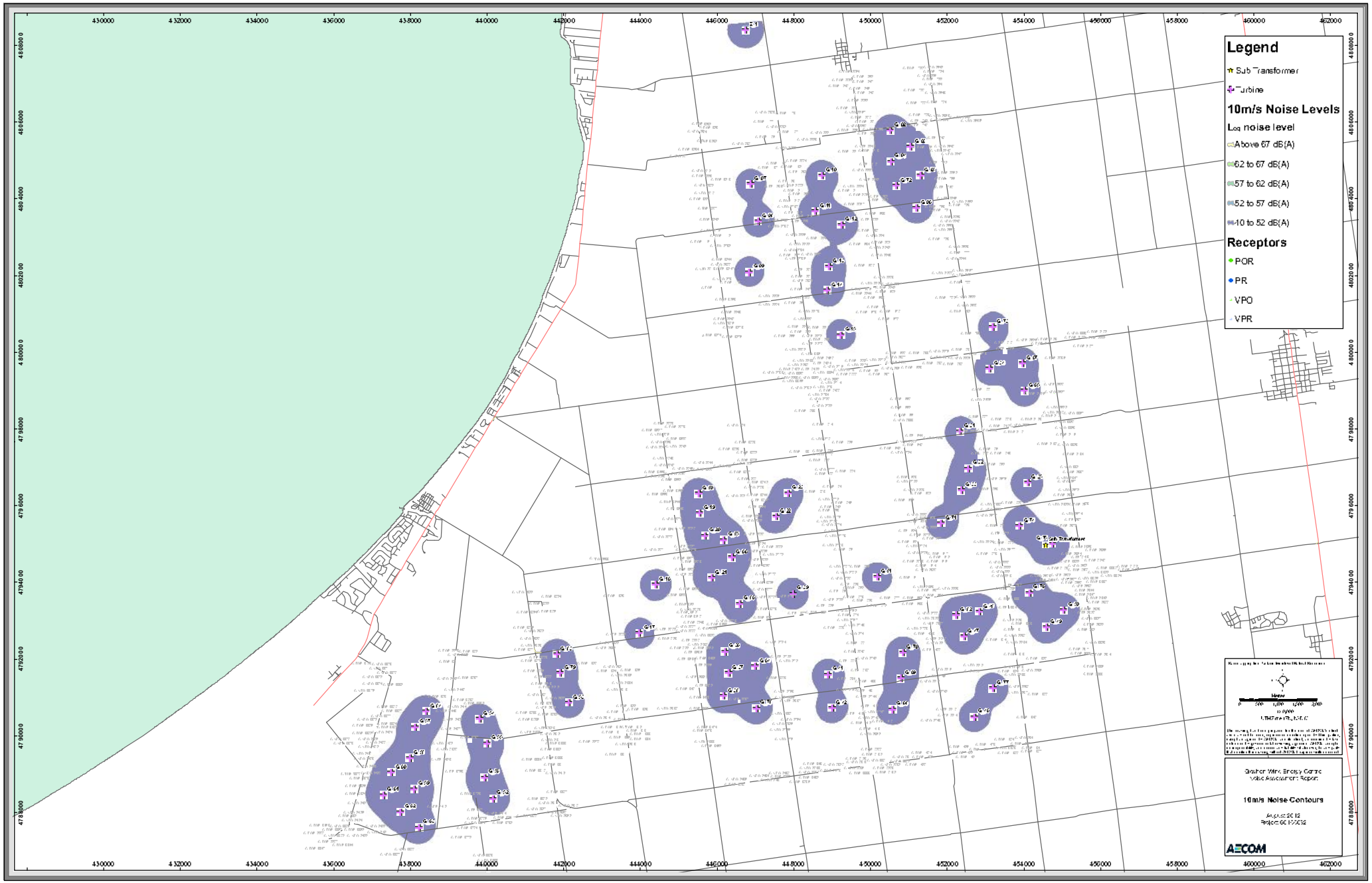
Appendix A: Site Plan


Legend
Wind Energy Centre Study Area
Transmission Line Study Area
Municipal Division
Parcel Boundary
120 m Area of Investigation
Setback Distances
550 m Roadfield Buffer
400 m Property Boundary Buffer
500 m Noise Receptor Buffer
500 m Subscriber Footprint Buffer
750 m Petroleum Resource Buffer
2 km Boundary from Project Location
Other Features
Petroleum Well
Waterbody
Wetland
Woodlot
Receptors
Participating Receptor
Non-participating Receptor
Vacant Lot Participating Receptor
Vacant Lot Non-participating Receptor
Project Location
GE Turbine
Permanent Meteorological Tower
Access Road
Collector Line
Transmission Line
Substation Area
Electrical Switch Station
Transformer Substation
Temporary Laydown Area
Natural Features
Watercourse
Waterbody
Wetland Area
Woodlot
Roads
Expressway (High-way)
Major Road
Local Road
Metres
0 250 500 1,000 1,500 2,000
UTM Zone 17N, NAD 83
Goderich Wind Energy Centre
Project Location and Socio-Economic Features
September 2012
Project 60155032
AECOM
Figure 2-3

Appendix B: Noise Contour Maps


Legend
Sub Transformer
Turbine
6m/s Noise Levels
Above 60 dB(A)
55 to 60 dB(A)
50 to 55 dB(A)
45 to 50 dB(A)
40 to 45 dB(A)
Receptors
POR
PR
VPO
VPR
Glyndwr Wind Energy Centre
Noise Assessment Report
6m/s Noise Contours
AECOM


Legend
Sub Transformer
Turbine
8m/s Noise Levels
Leq noise level
Above 60 dB(A)
55 to 60 dB(A)
50 to 55 dB(A)
45 to 50 dB(A)
40 to 45 dB(A)
Receptors
POR
PR
VPO
VPR
Glyndwr Wind Energy Centre
Noise Assessment Report
8m/s Noise Contours
AECOM


Legend
Sub Transformer
Turbine
10m/s Noise Levels
Leq noise level
Above 67 dB(A)
62 to 67 dB(A)
57 to 62 dB(A)
52 to 57 dB(A)
40 to 52 dB(A)
Receptors
POR
PR
VPO
VPR
Sub Transformer
Glanford Wind Energy Centre
Noise Assessment Report
10m/s Noise Contours
AECOM

Appendix C: Sample Calculations

Appendix D: Equipment Noise Emission Data

Technical Description of the 1.56-100 Wind Turbine and Major Components

The wind turbine is a three bladed, upwind, horizontal-axis wind turbine with a rotor diameter of 100 m. The turbine rotor and nacelle are mounted on top of a tubular tower giving a rotor hub height of 80m. The machine employs active yaw control (designed to steer the machine with respect to the wind direction), active blade pitch control (designed to regulate turbine rotor speed), and a generator/power electronic converter system.

The wind turbine features a distributed drive train design wherein the major drive train components including main shaft bearings, gearbox, generator, yaw drives, and control panel are attached to a bedplate (see Figure 1).

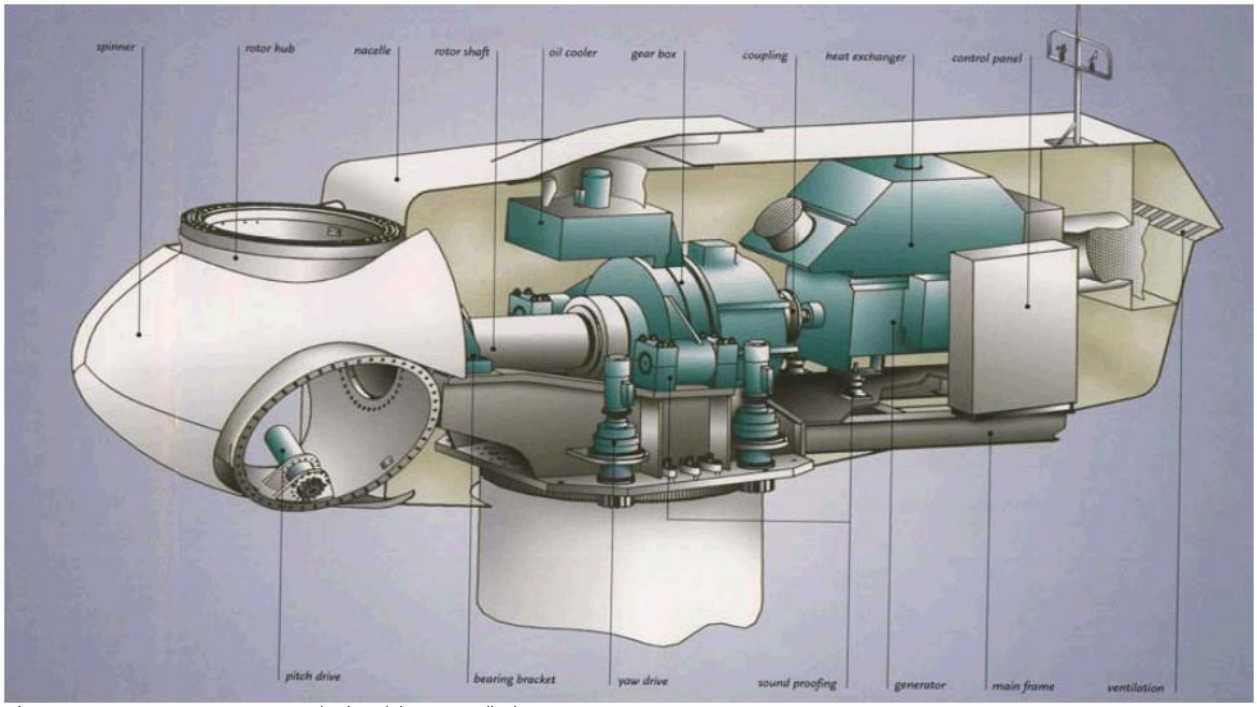


Figure 1: GE Energy 1.56-100 wind turbine nacelle layout

Rotor

The rotor diameter is 100 m, resulting in a swept area of 7,854 m, and is designed to operate between 9.75 and 16.18 revolutions per minute (rpm). Rotor speed is regulated by a combination of blade pitch angle adjustment and generator/converter torque control. The rotor spins in a clock-wise direction under normal operating conditions when viewed from an upwind location.

Full blade pitch angle range is approximately 90°, with the 0°-position being with the airfoil chord line flat to the prevailing wind. The blades being pitched to a full feather pitch angle of approximately 90° accomplishes aerodynamic braking of the rotor; whereby the blades "spill" the wind thus limiting rotor speed.

Blades

There are three rotor blades used on each wind turbine. The airfoils transition along the blade span with the thicker airfoils being located in-board towards the blade root (hub) and gradually tapering to thinner cross sections out towards the blade tip.

Blade Pitch Control System

The rotor utilizes three (one for each blade) independent electric pitch motors and controllers to provide adjustment of the blade pitch angle during operation. Blade pitch angle is adjusted by an electric drive that is mounted inside the rotor hub and is coupled to a ring gear mounted to the inner race of the blade pitch bearing (see Figure 1).

GE's active-pitch controller enables the wind turbine rotor to regulate speed, when above rated wind speed, by allowing the blade to "spill" excess aerodynamic lift. Energy from wind gusts below rated wind speed is captured by allowing the rotor to speed up, transforming this gust energy into kinetic which may then be extracted from the rotor.

Three independent back-up units are provided to power each individual blade pitch system to feather the blades and shut down the machine in the event of a grid line outage or other fault. By having all three blades outfitted with independent pitch systems, redundancy of individual blade aerodynamic braking capability is provided.

Hub

The hub is used to connect the three rotor blades to the turbine main shaft. The hub also houses the three electric blade pitch systems and is mounted directly to the main shaft. Access to the inside of the hub is provided through a hatch.

Gearbox

The gearbox in the wind turbine is designed to transmit power between the low-rpm turbine rotor and high-rpm electric generator. The gearbox is a multi-stage planetary/helical gear design. The gearbox is mounted to the machine bedplate. The gearing is designed to transfer torsional power from the wind turbine rotor to the electric generator. A parking brake is mounted on the high-speed shaft of the gearbox.

Bearings

The blade pitch bearing is designed to allow the blade to pitch about a span-wise pitch axis. The inner race of the blade pitch bearing is outfitted with a blade drive gear that enables the blade to be driven in pitch by an electric gear-driven motor/controller.

The main shaft bearing is a roller bearing mounted in a pillow-block housing arrangement. The bearings used inside the gearbox are of the cylindrical, spherical and tapered roller type. These bearings are designed to provide bearing and alignment of the internal gearing shafts and accommodate radial and axial loads.

Brake System

The electrically actuated individual blade pitch systems act as the main braking system for the wind turbine. Braking under normal operating conditions is accomplished by feathering the blades out of the wind. Any single feathered rotor blade is designed to slow the rotor, and each rotor blade has its own back-up to provide power to the electric drive in the event of a grid line loss.

The turbine is also equipped with a mechanical brake located at the output (high-speed) shaft of the gearbox. This brake is only applied as an auxiliary brake to the main aerodynamic brake and to prevent rotation of the machinery as required by certain service activities.

Generator

The generator is a doubly-fed induction type. The generator meets protection class requirements of the International Standard IP 54 (totally enclosed). The generator is mounted to the bedplate and the mounting is designed so as to reduce vibration and noise transfer to the bedplate.

Flexible Coupling

Designed to protect the drive train from excessive torque loads, a flexible coupling is provided between the generator and gearbox output shaft this is equipped with a torque-limiting device sized to keep the maximum allowable torque below the maximum design limit of the drive train.

Yaw System

A roller bearing attached between the nacelle and tower facilitates yaw motion. Planetary yaw drives (with brakes that engage when the drive is disabled) mesh with the outside gear of the yaw bearing and steer the machine to track the wind in yaw. The automatic yaw brakes engage in order to prevent the yaw drives from seeing peak loads from any turbulent wind.

The controller activates the yaw drives to align the nacelle to the average wind direction based on the wind vane sensor mounted on top of the nacelle.

A cable twist sensor provides a record of nacelle yaw position and cable twisting. After the sensor detects excessive rotation in one direction, the controller automatically brings the rotor to a complete stop, untwists the cable by counter yawing of the nacelle, and restarts the wind turbine.

Tower

The wind turbine is mounted on top of a tubular tower. The tubular tower is manufactured in sections from steel plate. Access to the turbine is through a lockable steel door at the base of the tower. Service platforms are provided. Access to the nacelle is provided by a ladder and a fall arresting safety system is included. Interior lights are installed at critical points from the base of the tower to the tower top.

Nacelle

The nacelle houses the main components of the wind turbine generator. Access from the tower into the nacelle is through the bottom of the nacelle. The nacelle is ventilated. It is illuminated with electric light. A hatch at the front end of the nacelle provides access to the blades and hub. The rotor can be secured in place with a rotor lock.

Anemometer, Wind Vane and Lightning Rod

An anemometer, wind vane and lightning rod are mounted on top of the nacelle housing. Access to these sensors is accomplished through a hatch in the nacelle roof.

Lightning Protection

The rotor blades are equipped with a lightning receptors mounted in the blade. The turbine is grounded and shielded to protect against lightning, however, lightning is an unpredictable force of nature, and it is possible that a lightning strike could damage various components notwithstanding the lightning protection deployed in the machine.

Wind Turbine Control System

The wind turbine machine can be controlled automatically or manually from either an interface located inside the nacelle or from a control box at the bottom of the tower. Control signals can also be sent from a remote computer via a Supervisory Control and Data Acquisition System (SCADA), with local lockout capability provided at the turbine controller.
Service switches at the tower top prevent service personnel at the bottom of the tower from operating certain systems of the turbine while service personnel are in the nacelle. To override any machine operation, Emergency-stop buttons located in the tower base and in the nacelle can be activated to stop the turbine in the event of an emergency.

Power Converter

The wind turbine uses a power converter system that consists of a converter on the rotor side, a DC intermediate circuit, and a power inverter on the grid side.

The converter system consists of a power module and the associated electrical equipment. Variable output frequency of the converter allows operation of the generator.

Technical Data for the 1.56-100

Rotor

Diameter	100 m
Number of blades	3
Swept area	7,854 m²
Rotor speed range	9.75 to 16.18 rpm
Rotational direction	Clockwise looking downwind
Maximum tip speed	84.7 m/s
Orientation	Upwind
Speed regulation	Pitch control
Aerodynamic brakes	Full feathering

Pitch System

Principle	Independent blade pitch control
Actuation	Individual electric drive

Yaw System

Yaw rate	0.5 degree/s

1.56-100 Calculated Octave Band Spectra – Canada Specific

Table 1 below provides simulated, A-weighted octave band spectra as a function of standardized wind speed at 10 m height, and expressed as apparent sound power levels. The uncertainties for octave sound power levels are generally higher than for total sound power levels. Guidance is given in IEC 61400-11, Annex D.

1.56-100 Octave Band Spectra									
Standard WS at 10m [m/s]		5	5.5	6	6.5	7	8	9	10-Cutout
Hub Height WS at 100m [m/s]		7.2	7.9	8.6	9.3	10	11.5	12.9	14-Cutout
Frequency [Hz]	32	71.2	74.2	76.5	78.8	80.9	81.5	81.5	81.5
	63	80.9	83.9	86.2	88.4	90.5	91.2	91.2	91.2
	125	85.4	88.2	90.1	92.1	94.2	94.8	94.9	94.8
	250	89.1	91.6	91.9	92.5	93.9	94.2	94.2	94.2
	500	90.4	93.3	94.6	95.4	95.7	94.6	94.5	94.5
	1000	88.1	91.4	95.2	98.2	99.6	99.1	98.9	98.8
	2000	85.8	87.7	91.3	94.8	97.2	98	98.1	98.2
	4000	81.4	82.8	84.6	86.5	88.4	88.8	89.2	89.5
	8000	65.9	66.5	68	69.6	71.1	71.2	70.7	70.5
	16000	26.8	24.7	25.9	28.2	30.5	31.8	31.1	31.2
Lwa [dBA]		95.5	98.3	100.4	102.5	104	104	104	104

Table 1: Octave Spectra for 1.56-100 - hub height wind speeds were calculated based on equation (7) from IEC standard 61400-11:2002, using a representative roughness height of 0.05 m

1.56-100 Normal Operation Calculated Tonal Audibility – Canada Specific

The nominal acoustic performances for 1.56-100, 60 Hz version equipped with 100 m rotor diameter (GE 48.7 type blade) operating in normal operation (NO), specified at reference ground measuring distance Ro measurement point #1 per both IEC 61400-11 and GE's "Machine noise performance test" reference guidelines:

- Tonal audibility $\Delta L_{a,k} \leq 2$ **dB**.

1.56-100 Testing Uncertainty and Product Variation per IEC/TS 61400-14 Standard

Per IEC/TS 61400-14, L_{WAd} is the maximum apparent sound power level resulting from ***n*** measurements performed according to IEC 61400-11 standard for 95 % confidence level: $L_{WAd} = \overline{L_{WA}} + K$, where $\overline{L_{WA}}$ is the mean apparent sound power level from ***n*** IEC 61400-11 testing reports and $\mathbf{K = 1{,}645 \cdot \sigma T}$.

The testing standard deviation values σ_T, σ_R and σ_P for measured apparent sound power level are described by IEC/TS 61400-14 where σ_T is the total standard deviation, σ_P is the standard deviation for product variation and σ_R is the standard deviation for test reproducibility.

Assuming $\sigma_R < 0.8$ dB and $\sigma_P < 0.8$ dB typical values, leads to calculated **K < 2 dB** for 95 % confidence level.

IEC 61400-11 and IEC/TS 61400-14 Terminology

- $L_{WA,k}$ is wind turbine apparent sound power level (referenced to 1^{12} W) measured with A-weighting as function of reference wind speed v_{10m}. Derived from multiple measurement reports per IEC 61400-11, it is considered as a mean value.
- σ_P is the product variation i.e. the 1.56-100 unit-to-unit product variation; typically < 0.8 dB
- σ_R is the overall measurement testing reproducibility as defined per IEC 61400-11; typically < 0.8 dB with adequate measurement conditions and sufficient amount of data samples
- σ_T is the total standard deviation combining both σ_P and σ_R

- $K = 1{,}645 \cdot \sigma_T$ is defined by IEC/TS 61400-14 for 95 % confidence level
- R_o is the ground measuring distance from the wind turbine tower axis per IEC 61400-11
- $\Delta L_{a,k}$ is the tonal audibility according to IEC 61400-11, described as potentially audible narrow band sound

Technical Description of the 1.6-100 Wind Turbine with Low-Noise Trailing Edges (LNTE's) and Major Components

The wind turbine is a three bladed, upwind, horizontal-axis wind turbine with a rotor diameter of 100 m. The turbine rotor and nacelle are mounted on top of a tubular tower giving a rotor hub height of 80m. The machine employs active yaw control (designed to steer the machine with respect to the wind direction), active blade pitch control (designed to regulate turbine rotor speed), and a generator/power electronic converter system.

The wind turbine features a distributed drive train design wherein the major drive train components including main shaft bearings, gearbox, generator, yaw drives, and control panel are attached to a bedplate (see Figure 1).

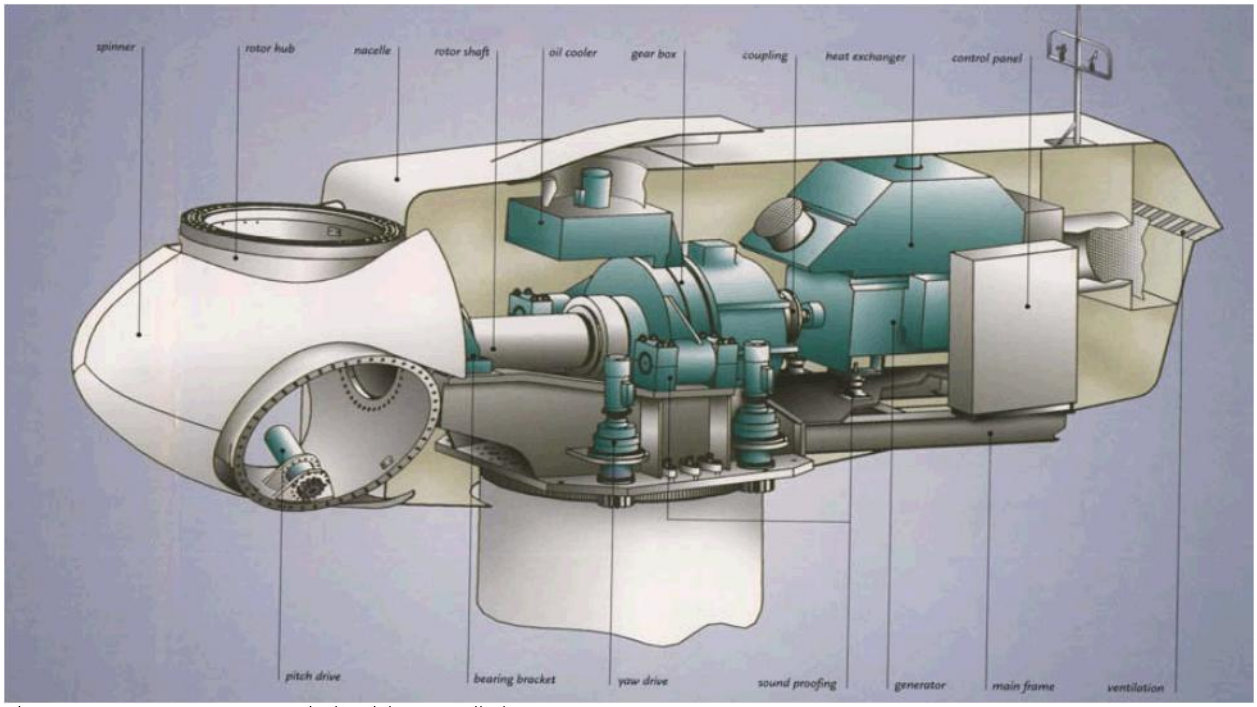


Figure 1: GE Energy 1.6-100 wind turbine nacelle layout

Rotor

The rotor diameter is 100 m, resulting in a swept area of 7,854 m, and is designed to operate between 9.75 and 15.33 revolutions per minute (rpm). Rotor speed is regulated by a combination of blade pitch angle adjustment and generator/converter torque control. The rotor spins in a clock-wise direction under normal operating conditions when viewed from an upwind location.

Full blade pitch angle range is approximately 90°, with the 0°-position being with the airfoil chord line flat to the prevailing wind. The blades being pitched to a full feather pitch angle of approximately 90° accomplishes aerodynamic braking of the rotor; whereby the blades "spill" the wind thus limiting rotor speed.

Blades

There are three rotor blades used on each wind turbine. The airfoils transition along the blade span with the thicker airfoils being located in-board towards the blade root (hub) and gradually tapering to thinner cross sections out towards the blade tip.

Blade Pitch Control System

The rotor utilizes three (one for each blade) independent electric pitch motors and controllers to provide adjustment of the blade pitch angle during operation. Blade pitch angle is adjusted by an electric drive that is mounted inside the rotor hub and is coupled to a ring gear mounted to the inner race of the blade pitch bearing (see Figure 1).

GE's active-pitch controller enables the wind turbine rotor to regulate speed, when above rated wind speed, by allowing the blade to "spill" excess aerodynamic lift. Energy from wind gusts below rated wind speed is captured by allowing the rotor to speed up, transforming this gust energy into kinetic which may then be extracted from the rotor.

Three independent back-up units are provided to power each individual blade pitch system to feather the blades and shut down the machine in the event of a grid line outage or other fault. By having all three blades outfitted with independent pitch systems, redundancy of individual blade aerodynamic braking capability is provided.

Hub

The hub is used to connect the three rotor blades to the turbine main shaft. The hub also houses the three electric blade pitch systems and is mounted directly to the main shaft. Access to the inside of the hub is provided through a hatch.

Gearbox

The gearbox in the wind turbine is designed to transmit power between the low-rpm turbine rotor and high-rpm electric generator. The gearbox is a multi-stage planetary/helical gear design. The gearbox is mounted to the machine bedplate. The gearing is designed to transfer torsional power from the wind turbine rotor to the electric generator. A parking brake is mounted on the high-speed shaft of the gearbox.

Bearings

The blade pitch bearing is designed to allow the blade to pitch about a span-wise pitch axis. The inner race of the blade pitch bearing is outfitted with a blade drive gear that enables the blade to be driven in pitch by an electric gear-driven motor/controller.

The main shaft bearing is a roller bearing mounted in a pillow-block housing arrangement. The bearings used inside the gearbox are of the cylindrical, spherical and tapered roller type. These bearings are designed to provide bearing and alignment of the internal gearing shafts and accommodate radial and axial loads.

Brake System

The electrically actuated individual blade pitch systems act as the main braking system for the wind turbine. Braking under normal operating conditions is accomplished by feathering the blades out of the wind. Any single feathered rotor blade is designed to slow the rotor, and each rotor blade has its own back-up to provide power to the electric drive in the event of a grid line loss.

The turbine is also equipped with a mechanical brake located at the output (high-speed) shaft of the gearbox. This brake is only applied as an auxiliary brake to the main aerodynamic brake and to prevent rotation of the machinery as required by certain service activities.

Generator

The generator is a doubly-fed induction type. The generator meets protection class requirements of the International Standard IP 54 (totally enclosed). The generator is mounted to the bedplate and the mounting is designed so as to reduce vibration and noise transfer to the bedplate.

Flexible Coupling

Designed to protect the drive train from excessive torque loads, a flexible coupling is provided between the generator and gearbox output shaft this is equipped with a torque-limiting device sized to keep the maximum allowable torque below the maximum design limit of the drive train.

Yaw System

A roller bearing attached between the nacelle and tower facilitates yaw motion. Planetary yaw drives (with brakes that engage when the drive is disabled) mesh with the outside gear of the yaw bearing and steer the machine to track the wind in yaw. The automatic yaw brakes engage in order to prevent the yaw drives from seeing peak loads from any turbulent wind.

The controller activates the yaw drives to align the nacelle to the average wind direction based on the wind vane sensor mounted on top of the nacelle.

A cable twist sensor provides a record of nacelle yaw position and cable twisting. After the sensor detects excessive rotation in one direction, the controller automatically brings the rotor to a complete stop, untwists the cable by counter yawing of the nacelle, and restarts the wind turbine.

Tower

The wind turbine is mounted on top of a tubular tower. The tubular tower is manufactured in sections from steel plate. Access to the turbine is through a lockable steel door at the base of the tower. Service platforms are provided. Access to the nacelle is provided by a ladder and a fall arresting safety system is included. Interior lights are installed at critical points from the base of the tower to the tower top.

Nacelle

The nacelle houses the main components of the wind turbine generator. Access from the tower into the nacelle is through the bottom of the nacelle. The nacelle is ventilated. It is illuminated with electric light. A hatch at the front end of the nacelle provides access to the blades and hub. The rotor can be secured in place with a rotor lock.

Anemometer, Wind Vane and Lightning Rod

An anemometer, wind vane and lightning rod are mounted on top of the nacelle housing. Access to these sensors is accomplished through a hatch in the nacelle roof.

Lightning Protection

The rotor blades are equipped with a lightning receptors mounted in the blade. The turbine is grounded and shielded to protect against lightning, however, lightning is an unpredictable force of nature, and it is possible that a lightning strike could damage various components notwithstanding the lightning protection deployed in the machine.

Wind Turbine Control System

The wind turbine machine can be controlled automatically or manually from either an interface located inside the nacelle or from a control box at the bottom of the tower. Control signals can also be sent from a remote computer via a Supervisory Control and Data Acquisition System (SCADA), with local lockout capability provided at the turbine controller.
Service switches at the tower top prevent service personnel at the bottom of the tower from operating certain systems of the turbine while service personnel are in the nacelle. To override any machine operation, Emergency-stop buttons located in the tower base and in the nacelle can be activated to stop the turbine in the event of an emergency.

Power Converter

The wind turbine uses a power converter system that consists of a converter on the rotor side, a DC intermediate circuit, and a power inverter on the grid side.

The converter system consists of a power module and the associated electrical equipment. Variable output frequency of the converter allows operation of the generator.

Technical Data for the 1.6-100 with LNTE

Rotor

Diameter	100 m
Number of blades	3
Swept area	7,854 m²
Rotor speed range	9.75 to 15.33 rpm
Rotational direction	Clockwise looking downwind
Maximum tip speed	80.3 m/s
Orientation	Upwind
Speed regulation	Pitch control
Aerodynamic brakes	Full feathering

Pitch System

Principle	Independent blade pitch control
Actuation	Individual electric drive

Yaw System

Yaw rate	0.5 degree/s

1.6-100 with LNTE Calculated 1/3rd Octave Band Apparent Sound Power Level LWA,k

Table 1 provides reference values per IEC 61400-11, based on the total apparent sound power level (A-weighted) defined in the general product acoustic specification for this turbine type. The uncertainties for octave sound power levels are generally higher than for total sound power levels. Guidance is given in IEC 61400-11, Annex D. The third octave-band spectra are for information only.

1.6-100 LNTE with 80 m HH - Normal Operation 1/3rd Octave Band Spectra									
Standard WS at 10m [m/s]		5.0	5.5	6.0	6.5	7.0	8.0	9.0	10-Cutout
Hub Height WS at 80 m [m/s]		7.0	7.7	8.4	9.1	9.7	11.1	12.5	14-Cutout
Frequency [Hz]	25	61.8	63.9	65.7	67.5	69.2	69.8	69.9	69.8
	32	66.2	68.3	70.1	71.9	73.7	74.2	74.3	74.2
	40	70.2	72.3	74.2	75.9	77.7	78.2	78.3	78.2
	50	73.4	75.5	77.4	79.2	80.9	81.4	81.5	81.4
	63	76.3	78.4	80.4	82.2	84.0	84.4	84.5	84.4
	80	78.6	80.8	82.8	84.7	86.6	87.0	87.0	86.9
	100	80.5	82.7	84.7	86.6	88.4	88.8	88.8	88.7
	125	81.7	83.9	85.9	87.6	89.2	89.6	89.7	89.6
	160	82.8	85.1	87.2	88.4	89.7	90.2	90.3	90.2
	200	84.0	86.3	88.5	89.2	90.1	90.4	90.5	90.5
	250	85.0	87.4	89.7	89.9	90.3	90.4	90.5	90.5
	315	85.6	88.2	90.5	90.5	90.4	90.2	90.3	90.4
	400	85.4	88.1	90.6	90.7	90.8	90.4	90.5	90.7
	500	85.1	87.8	90.5	91.2	91.6	91.3	91.4	91.7
	630	84.0	86.7	89.4	90.9	92.2	92.0	92.1	92.5
	800	82.3	84.8	87.3	89.7	91.9	92.0	92.1	92.5
	1000	81.7	83.8	85.9	88.8	91.6	92.1	92.2	92.5
	1250	82.4	84.3	86.1	88.7	91.4	92.2	92.4	92.4
	1600	82.8	84.8	86.5	88.5	90.7	91.4	91.4	90.9
	2000	83.3	85.4	87.3	88.8	90.3	90.4	90.0	89.4
	2500	83.4	85.6	87.6	88.7	89.7	89.1	88.5	87.9
	3150	81.8	84.2	86.4	86.8	87.3	86.7	86.2	85.3
	4000	77.7	80.6	83.0	82.8	82.9	83.0	82.0	81.4
	5000	72.0	75.1	77.5	77.0	77.3	77.6	76.2	76.0
	6300	63.3	66.5	69.5	69.0	69.4	69.7	68.5	68.4
	8000	51.0	53.9	56.9	57.1	57.9	58.3	57.3	57.0
	10000	36.5	39.1	42.0	42.7	43.9	43.9	43.8	44.1
	12500	18.9	21.5	24.1	25.3	26.5	26.0	26.9	28.8
	16000	-6.1	-3.3	-0.8	0.3	1.2	1.2	3.4	6.4
	20000	-34.1	-30.5	-27.4	-26.9	-26.6	-25.2	-22.4	-18.9
Total apparent sound power level $L_{WA,k}$ [dB]		95.8	98.2	100.5	101.6	102.8	103.0	103.0	103.0

Table 1: Calculated Apparent Third Octave Band Sound Power Level (A-weighted), 1.6-100 LNTE with 80 m hub height as function of Wind Speed v_{10m}

Tonal Audibility

At the reference measuring point R_o, a ground distance from the turbine tower vertical centerline equal to hub height plus half the rotor diameter (reference IEC 61400-11), the 1.6-100 turbine has an expected value for tonal audibility of $\Delta L_{a,k} < 2$ dB, irrespective of wind speed, hub height, and grid frequency.

Uncertainty Levels

The apparent sound power levels given above are calculated mean levels. If a wind turbine noise performance test is carried out, it needs to be done in accordance with the regulations of the international standard IEC 61400-11, ed. 2.1: 2006. Uncertainty levels associated with measurements are described in IEC/TS 61400-14.

Per IEC/TS 61400-14, L_{WAd} is the maximum apparent sound power level resulting from ***n*** measurements performed according to IEC 61400-11 standard for 95 % confidence level: $L_{WAd} = \overline{L_{WA}} + K$, where $\overline{L_{WA}}$ is the mean apparent sound power level from ***n*** IEC 61400-11 testing reports and $\mathbf{K = 1.645 \cdot \sigma_T}$.

The testing standard deviation values σ_T, σ_R and σ_P for measured apparent sound power level are described by IEC/TS 61400-14 where σ_T is the total standard deviation, σ_P is the standard deviation for product variation and σ_R is the standard deviation for test reproducibility.

Assuming $\sigma_R < 0.8$ dB and $\sigma_P < 0.8$ dB typical values, leads to calculated **K < 2 dB** for 95 % confidence level.

IEC 61400-11 and IEC/TS 61400-14 Terminology

- $L_{WA,k}$ is wind turbine apparent sound power level (referenced to 1^{-12} W) measured with A-weighting as function of reference wind speed v_{10m}. Derived from multiple measurement reports per IEC 61400-11, it is considered as a mean value.
- σ_P is the product variation i.e. the 1.6-100 with LNTE unit-to-unit product variation; typically < 0.8 dB
- σ_R is the overall measurement testing reproducibility as defined per IEC 61400-11; typically < 0.8 dB with adequate measurement conditions and sufficient amount of data samples
- σ_T is the total standard deviation combining both σ_P and σ_R
- $\mathbf{K = 1.645 \cdot \sigma_T}$ is defined by IEC/TS 61400-14 for 95 % confidence level
- R_o is the ground measuring distance from the wind turbine tower vertical axis per IEC 61400-11
- $\Delta L_{a,k}$ is the tonal audibility according to IEC 61400-11, described as potentially audible narrow band sound

Extract I of test report

Master Information „Noise“, according to “Wind turbine generator systems - Part 11: Acoustic noise measurement techniques.”

IEC 61400-11 ED. 2 from 2002 (published by: Central Office of the IEC, Geneva, Switzerland)

Extract of test report WICO 439SEC04/07 regarding noise emission of wind turbine (WT) type ENERCON E-48 (Mode I), hub height 75.6 m

General			Technical specifications (manufacturer)	
Manufacturer:	ENERCON GmbH Dreekamp 5 D-26605 AURICH		Rated power (generator):	800 kW
			Rotor diameter:	48,0 m
			Hub height above ground:	75,6 m
Serial number:	48087		Kon. Stahlrohr	Tubular steel tower
WT-location:	WP Holtriem	RW 25.95.228 HW 59.42.988	Pitch	pitch/stall/active-stall

Complementations of rotor (manufacturer)		Complementations of gear and generator (manufacturer)	
Manufacturer of rotor blades	ENERCON GmbH	Manufacturer of gear:	No
Type of blades:	E48/1	Type of gear:	No
Pitch angle:	variabel	Manufacturer of generator:	ENERCON GmbH
Number of blades	3	Type of generator:	E-48
Rated speed(s)/speed range:	16 – 29,5 rpm (Mode I)	Rated speed(s):	16 – 29,5 rpm (Mode I)

Report power curve: calculated power curve, date: 31.08.2004

	Reference		Noise emission parameter	Remarks
	Standardized wind speed at 10 m above ground	Electric power		
Sound power level L_{WA}	*5 ms^{-1}*	*182 kW*	*94.0* dB(A)*	*(1)*
	6 ms^{-1}	315 kW	97.8 dB(A)	
	7 ms^{-1}	499 kW	100.3 dB(A)	
	8 ms^{-1}	671 kW	101.4 dB(A)	
	8.9 ms^{-1}	*760 kW*	*101.9 dB(A)*	*(2)*
	9 ms^{-1}	765 kW	102.0 dB(A)	
	9.6 ms^{-1}	*794 kW*	*102.1 dB(A)*	*(3)*
	10 ms^{-1}	800 kW	101.9 dB(A)	(4)
Tonal components ΔL_a (near proximity)	*5 ms^{-1}*	*182 kW*	No tone	*(1)*
	6 ms^{-1}	315 kW	No tone	
	7 ms^{-1}	499 kW	No tone	
	8 ms^{-1}	671 kW	No tone	
	8.9 ms^{-1}	*760 kW*	No tone	*(2)*
	9 ms^{-1}	765 kW	*No tone*	
	9.6 ms^{-1}	*794 kW*	No tone	*(3)*
	10 ms^{-1}	800 kW	*No tone*	(4)

One third octave sound power level at reference point v_{10} = 5 m/s [dB(A)]												
Frequency	50	63	80	100	125	160	200	250	315	400	500	630
L_{WA}	67.6	71.2	72.9	74.5	78.0	77.0	79.3	84.2	85.6	84.6	84.2	84.4
L_{WA}	75.8			81.5			88.5			89.2		
Frequency	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
L_{WA}	82.6	82.0	81.4	79.2	78.5	76.6	75.2	74.8	73.1	72.4	70.9	67.4
L_{WA}	86.8			83.0			79.2			75.5		

One third octave sound power level at reference point v_{10} = 6 m/s [dB(A)]												
Frequency	50	63	80	100	125	160	200	250	315	400	500	630
L_{WA}	71.7	74.2	76.9	77.6	78.8	79.7	80.6	86.1	87.8	87.4	87.4	89.0
L_{WA}	79.5			83.6			90.5			92.8		
Frequency	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
L_{WA}	88.3	88.1	86.9	84.0	82.4	80.9	79.4	79.0	78.1	77.3	74.9	72.9
L_{WA}	92.6			87.4			83.6			80.2		

One third octave sound power level at reference point v_{10} = 7 m/s [dB(A)]												
Frequency	50	63	80	100	125	160	200	250	315	400	500	630
L_{WA}	72.7	76.1	79.3	80.5	80.9	82.9	84.3	89.2	91.2	90.7	90.5	91.5
L_{WA}		81.6			86.3			93.8			95.7	
Frequency	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
L_{WA}	90.2	89.7	87.9	85.5	84.1	82.6	81.7	81.6	80.7	80.2	79.2	76.3
L_{WA}		94.1			89.0			86.1			83.6	

One third octave sound power level at reference point v_{10} = 8 m/s [dB(A)]												
Frequency	50	63	80	100	125	160	200	250	315	400	500	630
L_{WA}	70.1	74.3	77.3	79.0	81.7	82.3	84.4	90.5	92.7	92.0	91.9	92.9
L_{WA}		79.6			86.0			95.1			97.1	
Frequency	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
L_{WA}	91.7	90.9	89.1	86.0	83.9	82.1	80.9	81.6	80.6	79.7	79.2	77.3
L_{WA}		95.5			89.1			85.8			83.6	

One third octave sound power level at reference point v_{10} = 9 m/s [dB(A)]												
Frequency	50	63	80	100	125	160	200	250	315	400	500	630
L_{WA}	71.8	74.5	77.1	79.4	82.6	84.2	86.6	91.5	93.5	92.6	92.3	93.1
L_{WA}		79.8			87.3			96.1			97.5	
Frequency	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
L_{WA}	91.4	90.5	88.7	86.2	85.0	84.3	83.9	84.4	83.9	83.7	82.5	80.1
L_{WA}		95.1			90.0			88.8			87.1	

One third octave sound power level at reference point v_{10} = 9.6 m/s [dB(A)]												
Frequency	50	63	80	100	125	160	200	250	315	400	500	630
L_{WA}	69.9	73.9	75.9	77.4	80.2	80.7	83.4	88.3	91.0	90.8	91.5	93.4
L_{WA}		78.6			84.4			93.3			96.8	
Frequency	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
L_{WA}	93.2	93.6	92.6	89.9	87.4	85.0	83.2	83.3	82.0	81.1	79.9	77.8
L_{WA}		97.9			92.7			87.6			84.6	

(1) Because of the signal to noise ratio laying in between 3 dB to 6 dB the sound pressure level was corrected with 1.3 dB.
(2) Sound power level at 95% of the rated power.
(3) Wind speed at the maximum sound pressure level minute measured.
(4) One value was measured in the wind bin of 10 ms^{-1}.

This extract of test report is valid only in connection with the enclosed „Manufacturer's certificate" from 2004-08-31.

This declaration does not replace above-mentioned report.

measured by: WIND-consult GmbH
Reuterstraße 9
D-18211 Bargeshagen

- pdf - document was signed electronically -

date: 2006-01-24

Dipl.-Ing. A. Petersen

Dipl.-Ing. W. Wilke

Appendix E: Glossary of Terms

A-Weighting Network	A frequency weighting network intended to approximate the relative response of the healthy human ear to sounds of different frequencies. Overall sound levels calculated or measured using the A-weighting network are indicated by dBA rather than dB.
Audible	Can be heard with the healthy human ear. The audibility of a noise emission source can vary with ambient noise and distance from the source. When close to a noise source the characteristics of that source are easily distinguishable. If at a practical distance that noise source is masked by other louder sources or is simply quieter than the ambient noise levels then that source is considered to not be audible at the referenced location. This can at times be used as justification for neglecting the noise impact of a specific noise source.
Frequency	Typically the rate in Hertz (Hz) - previously denoted cycles per second, at which an event is repeated. *Normal human hearing extends over a range of frequencies from about 15 Hz to about 15 kHz.*
L_{EQ} - *"Equivalent sound level"*	The value of a constant sound pressure level which would result in the same total sound energy as would the measured time-varying sound pressure level if the constant sound pressure level persisted over an equal time duration.
Noise Emissions	The sound energy radiating away from a noise source.
Noise Exposures	The sound pressure generated at a receptor.
Noise Impact	The contribution of a specific sound emission source or group of sound emission sources to the resultant SPL or L_{EQ} as measured or predicted at a nearby noise sensitive receptor.
Octave Band	A band of frequencies where the upper limiting frequency (u.l.f.) is twice the lower limiting frequency (l.l.f.). *Octave bands are identified by their centre-frequencies. The octave bands standardized for acoustic measurements include those centered at 31.5, 63, 125, 250, 500, 1000, 2000, 4000, & 8000 Hz.*
1/N Octave Band	A band of frequencies integrally divided from an Octave Band. The u.l.f. equals $2^{1/N}$ times the l.l.f. *The most commonly used frequency band is the 1/3 octave band.*
Point of Reception *or* *Noise Sensitive Receptor*	Locations were excessive noise may disrupt the lives or activities of occupants/residents or in general were excessive noise would interfere with the intended use of the location under consideration.
Sound Pressure	The instantaneous difference between the actual pressure and the average barometric pressure at a given location.
Sound Pressure Level (SPL)	A measurement of instantaneous sound pressure and equal to 20 times the logarithm (base 10) of the ratio of the instantaneous sound pressure of a sound divided by the reference sound pressure of 20 µPa (0 dB). Reported and measured in decibels (dB or dBA).
Sound Quality or Characteristic	A descriptive qualifier which describes a sounds variation with either time or frequency. Specific qualifiers are described briefly below.

Cyclic Variation	A sound which has an audible cyclic variation in sound level such as beating or other amplitude modulation.
Tonal	A sound which has a pronounced audible tonal quality such as a whine, screech, buzz, or hum. A majority of the acoustic energy is present in a relatively narrow frequency band. A tonal penalty of 5 dB can be applied to any noise source where the manufacturer data or calculated sound power levels indicated a tonal quality to the sound as per ISO 1996-2:2006(E) – Annex D. This standard states that for a discrete tone to be identified, the time-averaged sound pressure level in the one-third octave band of interest is required to exceed the time-average sound pressure levels of both adjacent one-third octave bands by a defined level difference: • 15 dB in the low frequency bands (25 to 125 Hz) • 8 dB in the middle frequency bands (160 to 400 Hz) • 5 dB in the high frequency bands (500 to 10000 Hz) Although this standard assesses tonality based upon the 1/3 octave band spectrum, the 1/1 octave band spectrum can also be assessed on this basis. Typically sound power level predictions and manufacturer sound data only provide 1/1 octave band values. Typically tonal penalties for sources which were measured are only applied if a tone was observed as audible.
Quasi-Steady Impulsive	A sequence of impulsive sounds emitted from the same source, having a time interval of less than one half second (1/2-sec) between successive impulsive sounds.
Steady	A sound does not vary significantly with time and therefore the measured Sound Pressure Level does not vary significantly with time.
Impulsive	A single pressure pulse or a single burst of pressure pulses, as defined by IEC l79A, First supplement to IEC 1 79, Sections 3.1 and 3.2.

Appendix E: Glossary of Terms

A-Weighting Network	A frequency weighting network intended to approximate the relative response of the healthy human ear to sounds of different frequencies. Overall sound levels calculated or measured using the A-weighting network are indicated by dBA rather than dB.
Acoustically Shielded	A noise emission source from which the sound path to the noise sensitive receptor is blocked by a solid object of sufficient size and mass to consider the noise impact of that source negligible.
Acoustics, Noise and Vibration (ANV)	A unified field of study. Each sub-field is described in a specific context briefly below.
Acoustics	The study of problems where sound is desirable and the quality of the sound is the focus of attention. Examples include conference halls, theatres, classrooms and recording studios.
Noise	The study of problems where sound is undesirable and the reduction of sound is the focus of attention. Examples include noise emissions from industrial facilities and transportation corridors.
Vibration	The study of problems where excessive vibration is undesirable and the reduction of vibration amplitudes or vibration transmission is the focus of attention. Examples include vibration impact of equipment on building structures and the vibration impact of transportation corridors on the occupants of residential dwellings.
Audible	Can be heard with the healthy human ear. The audibility of a noise emission source can vary with ambient noise and distance from the source. When close to a noise source the characteristics of that source are easily distinguishable. If at a practical distance that noise source is masked by other louder sources or is simply quieter than the ambient noise levels then that source is considered to not be audible at the referenced location. This can at times be used as justification for neglecting the noise impact of a specific noise source.
Frequency	Typically the rate in Hertz (Hz) - previously denoted cycles per second, at which an event is repeated. *Normal human hearing extends over a range of frequencies from about 15 Hz to about 15 kHz.*
Grade/Height References	AG – Above Grade, AR – Above Roof, BG – Below Grade, Grade – Ground level
L_{EQ} - *"Equivalent sound level"*	The value of a constant sound pressure level which would result in the same total sound energy as would the measured time-varying sound pressure level if the constant sound pressure level persisted over an equal time duration.
L_N - *"N^{th} Exceedance level"* *where N = 0 to 100*	Is the Sound Pressure Level which is exceeded N percent of the time. For a given data sample the N^{th} exeedance value is equal to the $(100\text{-}N)^{th}$ percentile of the data sample.
Noise Emissions	The sound energy radiating away from a noise source.
Noise Exposures	The sound pressure generated at a receptor.
Noise Impact	The contribution of a specific sound emission source or group of sound emission sources to the resultant SPL or L_{EQ} as measured or predicted at a nearby noise sensitive receptor.

Non-Negligible Noise Source *or equivalently* *Significant Noise Source*	A noise emission source which is determined to have a significant influence on the resultant noise exposures at a noise sensitive receptor. This is typically determined from a combination of site observations, measurements and available sound pressure or power data. Acoustical shielding effects or distance attenuation are often used as justification for excluding sources from this category.
Octave Band	A band of frequencies where the upper limiting frequency (u.l.f.) is twice the lower limiting frequency (l.l.f.). *Octave bands are identified by their centre-frequencies. The octave bands standardized for acoustic measurements include those centered at 31.5, 63, 125, 250, 500, 1000, 2000, 4000, & 8000 Hz.*
1/N Octave Band	A band of frequencies integrally divided from an Octave Band. The u.l.f. equals $2^{1/N}$ times the l.l.f. *The most commonly used frequency band is the 1/3 octave band.*
Peak Particle Velocity (PPV)	The maximum instantaneous velocity experienced by the particles of a medium when set into transient vibratory motion.
Point of Reception *or* *Noise Sensitive Receptor*	Locations were excessive noise may disrupt the lives or activities of occupants/residents or in general were excessive noise would interfere with the intended use of the location under consideration.
Sound Pressure	The instantaneous difference between the actual pressure and the average barometric pressure at a given location.
Sound Pressure Level (SPL)	A measurement of instantaneous sound pressure and equal to 20 times the logarithm (base 10) of the ratio of the instantaneous sound pressure of a sound divided by the reference sound pressure of 20 µPa (0 dB). Reported and measured in decibels (dB or dBA).
Sound Quality or Characteristic	A descriptive qualifier which describes a sounds variation with either time or frequency. Specific qualifiers are described briefly below.
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Quasi-Steady Impulsive	A sequence of impulsive sounds emitted from the same source, having a time interval of less than one half second (1/2-sec) between successive impulsive sounds.
Steady	A sound does not vary significantly with time and therefore the measured Sound Pressure Level does not vary significantly with time.
Impulsive	A single pressure pulse or a single burst of pressure pulses, as defined by IEC l79A, First supplement to IEC 1 79, Sections 3.1 and 3.2.
Transmission Loss (TL)	The measure of the airborne sound reduction provided by a partition. *Expressed in decibels (dB) it is a measure of ratio of the acoustic energy striking the partition relative to the energy which is transmitted through it.*
Root Mean Square (RMS) Vibration Velocity	Vibration velocity value obtained when the instantaneous velocity is exponentially averaged in a RMS network with a time constant of one second.
Vibration Sensitive Receptor	Locations were excessive vibration may disrupt the lives or activities of occupants/residents or in general were excessive vibration would interfere with the intended use of the location under consideration.

Appendix B

Site Plan

Table 1. UTM Coordinates of Proposed Goshen Wind Energy Centre Turbines

Turbine Number	Easting	Northing
2	450520	4805782
3	451051	4805361
4	450524	4804972
5	451300	4804616
6	451203	4803770
7	446869	4804385
8	447071	4803417
9	446830	4802090
10	448722	4804602
11	448568	4803670
12	449241	4803328
13	448911	4802237
14	448875	4801624
15	449226	4800450
16	444383	4793947
17	443972	4792675
19	445549	4795811
20	445679	4795219
21	445847	4794126
22	447530	4795721
23	447843	4796331
31	452335	4797930
32	452553	4796971
33	452366	4796399
34	453108	4799573
35	454089	4796605
36	446196	4792203
37	446287	4791638
38	446167	4791042
39	447984	4793710
41	448895	4791606
42	448990	4790737
46	452699	4790500
47	452425	4792588
48	452825	4793244
49	454586	4792838
50	455040	4793271
52	440156	4788373
53	442135	4790871
54	439792	4790436
55	440005	4789811
56	439925	4788922
57	438121	4790232
58	437973	4789428
59	438098	4788616
60	437501	4789050
61	437294	4788459
62	437743	4788017
63	438227	4787615
64	446988	4791822
65	454014	4798992
66	446376	4794650
67	453955	4799707
68	450577	4790696
69	450788	4791504
70	450838	4792170
71	451847	4795547
72	450670	4804345

Turbine Number	Easting	Northing
73	453192	4800669
74	453886	4795484
75	454731	4795014
76	454137	4793736
77	453186	4791237
78	447027	4790721
79	441914	4791634
80	445510	4796315
81	450167	4794140
82	452242	4793145
83	441815	4792131
84	438410	4790647
85	446173	4795111
86	446578	4793447

Note: All co-ordinates are provided in NAD 83 Zone 17.

Table 2. UTM Coordinates of Existing Turbine in the Municipality of Bluewater

Turbine Name	Easting	Northing
Zurich Wind Farm	446741	4808399

Note: All co-ordinates are provided in NAD 83 Zone 17.

Table 3. UTM Coordinates of Receptors within Two Kilometres of Project Location

Receptor ID Number	Receptor Type	Easting	Northing
GSH1000	Non-Participating	4789591	443611
GSH1001	Non-Participating	4789604	443655
GSH1002	Non-Participating	4789780	443808
GSH1003	Non-Participating	4789828	443806
GSH1004	Non-Participating	4789815	443765
GSH1005	Non-Participating	4789873	443625
GSH1006	Non-Participating	4789901	443593
GSH1007	Non-Participating	4789883	443578
GSH1008	Non-Participating	4790095	443690
GSH1009	Non-Participating	4790126	443678
GSH1010	Non-Participating	4790175	443583
GSH1011	Non-Participating	4790177	443570
GSH1012	Non-Participating	4790146	443566
GSH1013	Non-Participating	4790311	443507
GSH1014	Non-Participating	4790297	443543
GSH1015	Non-Participating	4790322	443546
GSH1016	Non-Participating	4790344	443562
GSH1017	Non-Participating	4790531	443458
GSH1018	Non-Participating	4790561	443460
GSH1019	Non-Participating	4790618	443622
GSH1020	Non-Participating	4790648	443618
GSH1021	Non-Participating	4790630	443685
GSH1022	Non-Participating	4790691	443626
GSH1023	Non-Participating	4790733	443644
GSH1024	Non-Participating	4791787	443423
GSH1025	Non-Participating	4791737	443429
GSH1026	Non-Participating	4791729	443447
GSH1027	Non-Participating	4791780	443447
GSH1028	Non-Participating	4791796	442477
GSH1029	Non-Participating	4793567	443303
GSH1087	Participating	4793098	448088
GSH1088	Participating	4793059	448067
GSH1089	Participating	4793007	448078
GSH1090	Participating	4792964	448084
GSH1091	Non-Participating	4793089	448264
GSH1092	Non-Participating	4793131	448333
GSH1093	Non-Participating	4793130	448397
GSH1094	Non-Participating	4793127	448377
GSH1095	Non-Participating	4793090	448368
GSH1096	Non-Participating	4793089	448385
GSH1097	Non-Participating	4793076	448397
GSH1098	Non-Participating	4797345	448082
GSH1099	Non-Participating	4797318	448106
GSH1100	Non-Participating	4797329	448145
GSH1106	Non-Participating	4801750	445928
GSH1107	Non-Participating	4801785	445981
GSH1108	Non-Participating	4801767	445980
GSH1109	Non-Participating	4801793	446025
GSH1110	Non-Participating	4801759	446055
GSH1111	Non-Participating	4801788	446149
GSH1112	Non-Participating	4801767	446168
GSH1113	Non-Participating	4801793	446207
GSH1114	Non-Participating	4802971	445825
GSH1115	Non-Participating	4802981	445863
GSH1116	Non-Participating	4802942	446097
GSH1117	Non-Participating	4802982	446112
GSH1118	Non-Participating	4802976	446156
GSH1119	Non-Participating	4802957	446188
GSH1175	Non-Participating	4806060	447471
GSH1176	Non-Participating	4806100	447502

Receptor ID Number	Receptor Type	Easting	Northing
GSH1177	Non-Participating	4806107	447524
GSH1178	Non-Participating	4806067	447523
GSH1179	Non-Participating	4806137	447791
GSH118	Non-Participating	4791820	436991
GSH1180	Non-Participating	4806078	447817
GSH1181	Non-Participating	4806115	447841
GSH1182	Non-Participating	4805685	447538
GSH1183	Non-Participating	4805657	447570
GSH1184	Non-Participating	4805658	447595
GSH1185	Non-Participating	4805699	447574
GSH1186	Non-Participating	4805710	447863
GSH1187	Non-Participating	4805649	447853
GSH1188	Non-Participating	4805660	447906
GSH1189	Non-Participating	4804827	447561
GSH119	Non-Participating	4791795	437009
GSH1190	Non-Participating	4804867	447593
GSH1191	Non-Participating	4804827	447590
GSH1192	Non-Participating	4804828	447601
GSH1193	Non-Participating	4804821	447636
GSH1194	Non-Participating	4804831	447651
GSH1195	Non-Participating	4804804	447674
GSH1196	Non-Participating	4804870	447631
GSH1197	Non-Participating	4804908	447639
GSH1198	Non-Participating	4804842	447657
GSH1199	Participating	4804485	447751
GSH120	Non-Participating	4791797	437031
GSH1200	Participating	4804428	447755
GSH1201	Participating	4804561	448122
GSH1202	Participating	4804620	448105
GSH1203	Participating	4804607	448134
GSH1204	Participating	4804575	448140
GSH1205	Non-Participating	4804293	447800
GSH1206	Non-Participating	4804186	447788
GSH1207	Non-Participating	4804188	447823
GSH1208	Non-Participating	4804135	447826
GSH1209	Non-Participating	4804104	448077
GSH1210	Non-Participating	4804105	448007
GSH1211	Non-Participating	4804128	447991
GSH1212	Participating	4803552	447994
GSH1213	Participating	4803610	447985
GSH1214	Participating	4803594	448001
GSH1215	Non-Participating	4803622	447911
GSH1216	Non-Participating	4803603	447877
GSH1217	Non-Participating	4803830	447888
GSH1218	Non-Participating	4803865	447891
GSH1219	Participating	4803319	448224
GSH1220	Participating	4803315	448162
GSH1221	Non-Participating	4802795	447949
GSH1222	Non-Participating	4802771	447941
GSH1223	Non-Participating	4802763	447984
GSH1224	Non-Participating	4802884	448327
GSH1225	Non-Participating	4802907	448377
GSH1226	Non-Participating	4802481	448235
GSH1227	Non-Participating	4802484	448206
GSH1228	Participating	4802116	448252
GSH1229	Participating	4802101	448291
GSH1230	Participating	4802066	448252
GSH1231	Non-Participating	4801884	448207
GSH1232	Non-Participating	4801870	448226
GSH1233	Participating	4801778	448440
GSH1234	Participating	4801751	448443
GSH1235	Participating	4801752	448417

Receptor ID Number	Receptor Type	Easting	Northing
GSH1236	Participating	4801681	448440
GSH1237	Participating	4801663	448421
GSH1238	Participating	4801637	448419
GSH1239	Non-Participating	4801561	448154
GSH1240	Non-Participating	4801558	448138
GSH1241	Non-Participating	4801513	448131
GSH1242	Non-Participating	4801514	448142
GSH1243	Non-Participating	4801509	448153
GSH1244	Non-Participating	4801506	448164
GSH1245	Non-Participating	4801530	448174
GSH1246	Non-Participating	4801519	448188
GSH1247	Non-Participating	4801555	448188
GSH1248	Non-Participating	4801557	448172
GSH1249	Non-Participating	4801565	448184
GSH1250	Participating	4801492	448283
GSH1251	Non-Participating	4801383	448338
GSH1252	Non-Participating	4801358	448367
GSH1253	Non-Participating	4801321	448378
GSH1254	Non-Participating	4800584	448148
GSH1255	Non-Participating	4800513	448070
GSH1256	Non-Participating	4800434	448185
GSH1257	Non-Participating	4800415	448165
GSH1258	Non-Participating	4800389	448324
GSH1259	Non-Participating	4800382	448356
GSH1260	Non-Participating	4800491	448511
GSH1261	Non-Participating	4800563	448491
GSH1262	Non-Participating	4800833	448425
GSH1263	Non-Participating	4800813	448457
GSH1264	Non-Participating	4800769	448421
GSH1265	Non-Participating	4799274	447708
GSH1266	Non-Participating	4799238	447708
GSH1267	Non-Participating	4799213	447755
GSH1268	Non-Participating	4799163	447763
GSH1269	Non-Participating	4799222	447789
GSH1270	Non-Participating	4799267	447782
GSH1271	Non-Participating	4799267	447833
GSH1272	Non-Participating	4799283	447893
GSH1273	Non-Participating	4799240	447899
GSH1274	Non-Participating	4799209	447842
GSH1275	Non-Participating	4799271	447935
GSH1276	Non-Participating	4799182	447909
GSH1277	Non-Participating	4799027	447881
GSH1278	Non-Participating	4798984	447888
GSH1286	Non-Participating	4799376	447824
GSH1287	Non-Participating	4799311	447977
GSH1288	Non-Participating	4799664	449573
GSH1289	Non-Participating	4799683	449768
GSH1290	Non-Participating	4799695	449766
GSH1291	Non-Participating	4799708	449756
GSH1292	Non-Participating	4799718	449740
GSH1293	Non-Participating	4799701	449714
GSH1294	Non-Participating	4799744	449689
GSH1295	Non-Participating	4799371	449938
GSH1296	Non-Participating	4799446	449928
GSH1297	Non-Participating	4799463	449917
GSH1298	Non-Participating	4799440	449867
GSH1299	Non-Participating	4798584	448536
GSH1300	Non-Participating	4798579	448601
GSH1301	Non-Participating	4798634	448689
GSH1302	Non-Participating	4799674	449245
GSH1303	Non-Participating	4799633	449247
GSH1304	Non-Participating	4799657	449281

Receptor ID Number	Receptor Type	Easting	Northing
GSH1305	Non-Participating	4799573	449264
GSH1306	Non-Participating	4799411	449264
GSH1307	Non-Participating	4799384	449281
GSH1308	Non-Participating	4799389	449310
GSH1309	Non-Participating	4799442	449298
GSH1310	Non-Participating	4799500	449393
GSH1314	Non-Participating	4798028	448765
GSH1315	Non-Participating	4798031	448781
GSH1316	Non-Participating	4798016	448808
GSH1317	Non-Participating	4798044	448819
GSH1318	Non-Participating	4797540	448993
GSH1319	Non-Participating	4797549	449008
GSH1320	Non-Participating	4797609	449011
GSH1321	Non-Participating	4797553	449030
GSH1322	Non-Participating	4797576	449054
GSH1323	Non-Participating	4797546	449061
GSH1324	Non-Participating	4797535	449065
GSH1325	Non-Participating	4797555	449046
GSH1326	Non-Participating	4797559	449076
GSH1327	Non-Participating	4797205	448962
GSH1328	Non-Participating	4797281	448977
GSH1330	Non-Participating	4796719	448829
GSH1331	Non-Participating	4796745	448858
GSH1332	Non-Participating	4796880	449059
GSH1333	Non-Participating	4796848	449091
GSH1334	Non-Participating	4796816	449086
GSH1335	Non-Participating	4796816	449122
GSH1336	Non-Participating	4796815	449135
GSH1337	Non-Participating	4796875	449240
GSH1338	Non-Participating	4796508	448841
GSH1339	Non-Participating	4796453	448865
GSH1340	Non-Participating	4796436	448838
GSH1341	Non-Participating	4796399	449025
GSH1342	Non-Participating	4796381	449075
GSH1343	Non-Participating	4796418	449094
GSH1344	Non-Participating	4795994	448913
GSH1345	Non-Participating	4796032	448934
GSH1346	Non-Participating	4795875	448959
GSH1347	Non-Participating	4795861	448932
GSH1348	Non-Participating	4795856	448916
GSH1349	Non-Participating	4795794	448875
GSH1350	Non-Participating	4795779	448914
GSH1351	Non-Participating	4794762	449319
GSH1352	Non-Participating	4794761	449380
GSH1353	Non-Participating	4794319	449166
GSH1354	Non-Participating	4794305	449196
GSH1355	Non-Participating	4794316	449450
GSH1356	Non-Participating	4793939	449244
GSH1357	Non-Participating	4793914	449223
GSH1358	Non-Participating	4793897	449225
GSH1359	Participating	4793859	449445
GSH1360	Participating	4793863	449459
GSH1361	Participating	4793906	449489
GSH1362	Participating	4793909	449503
GSH1363	Participating	4793909	449533
GSH1364	Participating	4793369	448815
GSH1365	Participating	4793293	448825
GSH1366	Non-Participating	4793550	449513
GSH1367	Non-Participating	4793520	449485
GSH1368	Non-Participating	4793493	449496
GSH1369	Non-Participating	4793473	449479
GSH1370	Non-Participating	4793526	449433

Receptor ID Number	Receptor Type	Easting	Northing
GSH1371	Non-Participating	4793226	449520
GSH1372	Non-Participating	4793246	449593
GSH1373	Non-Participating	4793198	449573
GSH1374	Non-Participating	4793049	449423
GSH1375	Non-Participating	4793023	449419
GSH1376	Non-Participating	4793490	450461
GSH1377	Non-Participating	4793501	450502
GSH1378	Non-Participating	4792716	449228
GSH1379	Non-Participating	4792691	449285
GSH1380	Non-Participating	4792729	449303
GSH1381	Non-Participating	4792329	449632
GSH1382	Non-Participating	4792345	449660
GSH1383	Non-Participating	4792298	449646
GSH1384	Non-Participating	4792281	449680
GSH1385	Non-Participating	4792097	449520
GSH1386	Non-Participating	4792120	449536
GSH1387	Participating	4791839	449335
GSH1388	Participating	4791819	449356
GSH1389	Participating	4791861	449404
GSH1390	Non-Participating	4791959	449759
GSH1391	Non-Participating	4791974	449773
GSH1392	Participating	4791556	449606
GSH1393	Participating	4791562	449623
GSH1394	Participating	4791574	449644
GSH1395	Participating	4791513	449624
GSH1396	Participating	4791557	449733
GSH1397	Participating	4791592	449766
GSH1398	Participating	4791624	449718
GSH1399	Participating	4791555	449805
GSH1400	Non-Participating	4791323	449776
GSH1401	Participating	4791093	449867
GSH1402	Participating	4791109	449917
GSH1403	Participating	4790672	449727
GSH1404	Participating	4790623	449727
GSH1405	Participating	4790609	449739
GSH1406	Non-Participating	4790609	449899
GSH1407	Non-Participating	4790604	449915
GSH1408	Participating	4790662	449910
GSH1409	Participating	4790662	449895
GSH1410	Participating	4790670	449873
GSH1411	Participating	4790687	449942
GSH1412	Participating	4790684	449975
GSH1413	Non-Participating	4790633	449947
GSH1414	Non-Participating	4790274	449694
GSH1415	Non-Participating	4790275	449722
GSH1416	Non-Participating	4790256	449764
GSH1417	Non-Participating	4790289	450065
GSH1418	Non-Participating	4790292	450000
GSH1419	Non-Participating	4790099	449979
GSH1420	Non-Participating	4789198	449292
GSH1421	Non-Participating	4789153	449317
GSH1422	Non-Participating	4789170	449348
GSH1423	Non-Participating	4789064	449299
GSH1424	Non-Participating	4789465	450681
GSH1425	Non-Participating	4789411	450669
GSH1426	Non-Participating	4789450	450710
GSH1427	Non-Participating	4789376	450683
GSH1428	Non-Participating	4789245	450862
GSH1429	Non-Participating	4789197	450855
GSH1430	Non-Participating	4789560	451320
GSH1431	Non-Participating	4789538	451297
GSH1432	Non-Participating	4789527	451318

Receptor ID Number	Receptor Type	Easting	Northing
GSH1433	Non-Participating	4789531	451353
GSH1434	Non-Participating	4789474	451325
GSH1435	Non-Participating	4789362	451343
GSH1436	Non-Participating	4789296	451338
GSH1437	Non-Participating	4789318	451357
GSH1438	Non-Participating	4789292	451371
GSH1439	Non-Participating	4789313	451387
GSH1440	Non-Participating	4789493	451545
GSH1441	Non-Participating	4789543	451565
GSH1442	Non-Participating	4789540	451532
GSH1443	Non-Participating	4789577	451521
GSH1444	Non-Participating	4789570	451555
GSH1461	Non-Participating	4789465	452178
GSH1462	Non-Participating	4789605	452339
GSH1463	Non-Participating	4789653	452344
GSH1464	Non-Participating	4789652	452386
GSH1465	Non-Participating	4789627	452556
GSH1466	Non-Participating	4789647	452700
GSH1467	Non-Participating	4789688	452689
GSH1468	Non-Participating	4789731	452664
GSH1469	Non-Participating	4789751	452695
GSH1470	Non-Participating	4789726	452719
GSH1471	Non-Participating	4789565	452824
GSH1472	Non-Participating	4789522	452815
GSH1473	Non-Participating	4789492	452796
GSH1474	Non-Participating	4789505	452867
GSH1475	Non-Participating	4789945	453305
GSH1476	Non-Participating	4789861	453291
GSH1477	Non-Participating	4789855	453231
GSH1478	Non-Participating	4789800	453306
GSH1479	Non-Participating	4789759	453316
GSH1480	Participating	4792181	451458
GSH1481	Participating	4792180	451480
GSH1482	Participating	4792195	451536
GSH1483	Participating	4792148	451591
GSH1484	Participating	4792153	451548
GSH1485	Non-Participating	4792376	451270
GSH1486	Non-Participating	4792451	451265
GSH1487	Non-Participating	4792556	451278
GSH1488	Non-Participating	4792553	451354
GSH1489	Non-Participating	4792571	451390
GSH1490	Non-Participating	4792980	451508
GSH1491	Non-Participating	4793025	451490
GSH1492	Non-Participating	4793057	451488
GSH1493	Non-Participating	4793090	451480
GSH1494	Non-Participating	4793154	451473
GSH1495	Participating	4793022	451617
GSH1496	Non-Participating	4793432	451347
GSH1497	Non-Participating	4793406	451390
GSH1498	Non-Participating	4793444	451387
GSH1499	Non-Participating	4793504	451362
GSH1500	Non-Participating	4793534	451396
GSH1501	Non-Participating	4793529	451608
GSH1502	Non-Participating	4793551	451646
GSH1503	Non-Participating	4793510	451668
GSH1504	Non-Participating	4793578	451614
GSH1505	Non-Participating	4793832	451493
GSH1506	Non-Participating	4793696	451405
GSH1507	Non-Participating	4793697	451673
GSH1508	Non-Participating	4793677	451407
GSH1509	Non-Participating	4794206	451255
GSH1510	Non-Participating	4794177	451248

Receptor ID Number	Receptor Type	Easting	Northing
GSH1511	Non-Participating	4794212	451313
GSH1512	Non-Participating	4794318	451440
GSH1513	Non-Participating	4794545	451110
GSH1514	Non-Participating	4794533	451128
GSH1515	Non-Participating	4794636	451423
GSH1516	Non-Participating	4794619	451488
GSH1517	Non-Participating	4794653	451513
GSH1518	Non-Participating	4794971	451063
GSH1519	Non-Participating	4794971	451133
GSH1520	Non-Participating	4795002	451139
GSH1521	Non-Participating	4795140	451281
GSH1522	Non-Participating	4795309	451117
GSH1523	Non-Participating	4795331	451143
GSH1524	Participating	4795453	451250
GSH1525	Participating	4795488	451223
GSH1526	Participating	4795495	451247
GSH1527	Participating	4795490	451272
GSH1528	Participating	4795473	451292
GSH1529	Non-Participating	4795707	451073
GSH1530	Non-Participating	4795721	451124
GSH1531	Non-Participating	4796241	450954
GSH1532	Non-Participating	4796251	451001
GSH1533	Non-Participating	4796211	450989
GSH1534	Non-Participating	4796186	450991
GSH1535	Non-Participating	4796239	451187
GSH1536	Non-Participating	4796263	451209
GSH1537	Non-Participating	4796272	451253
GSH1538	Non-Participating	4796674	450926
GSH1539	Non-Participating	4796645	450942
GSH1540	Non-Participating	4797603	450770
GSH1541	Non-Participating	4797604	450792
GSH1542	Non-Participating	4797565	450824
GSH1543	Non-Participating	4797512	450784
GSH1544	Participating	4797733	451132
GSH1545	Participating	4797770	451140
GSH1546	Participating	4797754	451183
GSH1547	Non-Participating	4798233	450670
GSH1548	Non-Participating	4798219	450696
GSH1549	Non-Participating	4798262	450716
GSH1550	Non-Participating	4798244	450736
GSH1551	Non-Participating	4798279	450884
GSH1552	Non-Participating	4798284	450909
GSH1553	Non-Participating	4798246	450935
GSH1554	Non-Participating	4798271	450972
GSH1555	Non-Participating	4798442	450807
GSH1556	Non-Participating	4798464	450788
GSH1557	Non-Participating	4798723	450799
GSH1558	Non-Participating	4798700	450782
GSH1559	Non-Participating	4798689	450804
GSH1560	Non-Participating	4798920	451171
GSH1561	Non-Participating	4799607	450288
GSH1562	Non-Participating	4799714	450472
GSH1563	Non-Participating	4799604	450531
GSH1564	Non-Participating	4799583	450520
GSH1565	Non-Participating	4799745	450501
GSH1566	Non-Participating	4799948	450651
GSH1567	Non-Participating	4799922	450665
GSH1568	Non-Participating	4799892	450653
GSH1569	Non-Participating	4799522	450826
GSH1570	Non-Participating	4799496	450855
GSH1571	Non-Participating	4799474	450801
GSH1572	Non-Participating	4800722	450253

Receptor ID Number	Receptor Type	Easting	Northing
GSH1573	Non-Participating	4800782	450466
GSH1574	Non-Participating	4800822	450471
GSH1575	Non-Participating	4801109	450121
GSH1576	Non-Participating	4801125	450147
GSH1577	Non-Participating	4801162	450167
GSH1578	Non-Participating	4801119	450196
GSH1579	Non-Participating	4801132	450205
GSH1580	Non-Participating	4801172	450233
GSH1581	Non-Participating	4801079	450182
GSH1582	Non-Participating	4801078	450168
GSH1583	Non-Participating	4801637	449944
GSH1584	Non-Participating	4801592	450063
GSH1585	Non-Participating	4801625	450058
GSH1586	Non-Participating	4801635	450077
GSH1587	Non-Participating	4802321	450158
GSH1588	Non-Participating	4802369	450148
GSH1589	Non-Participating	4802340	450073
GSH1590	Non-Participating	4801516	450399
GSH1591	Non-Participating	4801516	450463
GSH1592	Non-Participating	4801525	450501
GSH1593	Non-Participating	4802746	449945
GSH1594	Non-Participating	4802721	450011
GSH1595	Non-Participating	4802774	450215
GSH1596	Non-Participating	4802750	450260
GSH1597	Non-Participating	4802797	450257
GSH1598	Non-Participating	4803090	449937
GSH1599	Non-Participating	4803517	450121
GSH1600	Non-Participating	4803981	449818
GSH1601	Non-Participating	4803971	449844
GSH1602	Non-Participating	4803978	449854
GSH1603	Non-Participating	4804003	449884
GSH1604	Non-Participating	4803942	449874
GSH1605	Participating	4803990	450244
GSH1606	Participating	4803972	450209
GSH1607	Participating	4803953	450214
GSH1608	Non-Participating	4804277	449658
GSH1609	Non-Participating	4804292	449674
GSH1610	Non-Participating	4804279	449690
GSH1611	Non-Participating	4804304	449731
GSH1612	Non-Participating	4804366	449851
GSH1613	Non-Participating	4804362	449874
GSH1614	Non-Participating	4804762	449710
GSH1615	Non-Participating	4804750	449808
GSH1616	Participating	4804699	449922
GSH1617	Participating	4804757	449931
GSH1618	Participating	4804807	449940
GSH1619	Non-Participating	4805168	449763
GSH1620	Non-Participating	4805228	449737
GSH1621	Non-Participating	4805331	449729
GSH1622	Non-Participating	4805732	449655
GSH1623	Non-Participating	4805712	449629
GSH1624	Non-Participating	4805693	449639
GSH1625	Non-Participating	4805687	449678
GSH1626	Non-Participating	4805693	449665
GSH1627	Participating	4805604	449897
GSH1628	Participating	4805584	449888
GSH1629	Participating	4805565	449911
GSH1630	Non-Participating	4805946	449489
GSH1631	Non-Participating	4805994	449559
GSH1632	Non-Participating	4805990	449537
GSH1633	Non-Participating	4806022	449749
GSH1634	Non-Participating	4806026	449731

Receptor ID Number	Receptor Type	Easting	Northing
GSH1635	Non-Participating	4806028	449714
GSH1636	Non-Participating	4806007	449760
GSH1637	Non-Participating	4806398	449676
GSH1638	Non-Participating	4806454	449687
GSH1639	Non-Participating	4806419	449719
GSH1640	Non-Participating	4806363	449706
GSH1641	Non-Participating	4806369	449728
GSH1642	Non-Participating	4806413	449891
GSH1643	Non-Participating	4806699	449511
GSH1644	Non-Participating	4806740	449497
GSH1645	Non-Participating	4806779	449713
GSH1646	Non-Participating	4806951	449499
GSH1647	Non-Participating	4806956	449577
GSH1648	Non-Participating	4807038	449480
GSH1649	Non-Participating	4807057	449461
GSH1650	Non-Participating	4807079	449472
GSH1651	Non-Participating	4807118	449390
GSH1652	Non-Participating	4807103	449623
GSH1653	Non-Participating	4807060	449648
GSH1654	Non-Participating	4807119	449641
GSH1721	Non-Participating	4807366	451243
GSH1722	Non-Participating	4807339	451215
GSH1723	Non-Participating	4807323	451261
GSH1724	Non-Participating	4807219	451638
GSH1725	Non-Participating	4807026	451646
GSH1726	Non-Participating	4807028	451610
GSH1727	Non-Participating	4806972	451625
GSH1728	Non-Participating	4806938	451440
GSH1729	Non-Participating	4806957	451380
GSH1730	Non-Participating	4806936	451348
GSH1731	Non-Participating	4806968	451349
GSH1732	Non-Participating	4806634	451463
GSH1733	Non-Participating	4806598	451495
GSH1734	Non-Participating	4806428	451719
GSH1735	Non-Participating	4806382	451726
GSH1736	Non-Participating	4806160	451525
GSH1737	Non-Participating	4806151	451487
GSH1738	Non-Participating	4806125	451501
GSH1739	Non-Participating	4806093	451505
GSH1740	Non-Participating	4806112	451536
GSH1741	Non-Participating	4806185	451513
GSH1742	Participating	4805937	451265
GSH1743	Participating	4805829	451257
GSH1744	Participating	4805778	451224
GSH1745	Participating	4805704	451240
GSH1746	Participating	4805489	451427
GSH1747	Participating	4805530	451449
GSH1748	Participating	4805493	451478
GSH1749	Participating	4805462	451473
GSH1750	Non-Participating	4805298	451664
GSH1751	Non-Participating	4805313	451686
GSH1752	Participating	4804847	451756
GSH1753	Participating	4804820	451761
GSH1754	Participating	4804847	451778
GSH1755	Non-Participating	4804437	451933
GSH1756	Participating	4804268	451919
GSH1757	Participating	4804246	451894
GSH1758	Participating	4804213	451913
GSH1759	Non-Participating	4803780	451987
GSH1760	Non-Participating	4803776	452000
GSH1761	Non-Participating	4803792	452107
GSH1762	Non-Participating	4803804	452152

Receptor ID Number	Receptor Type	Easting	Northing
GSH1763	Non-Participating	4803836	452137
GSH1764	Non-Participating	4803455	452018
GSH1765	Non-Participating	4803470	452057
GSH1766	Non-Participating	4803127	452079
GSH1767	Non-Participating	4803089	452062
GSH1768	Non-Participating	4803070	452067
GSH1769	Non-Participating	4803053	452086
GSH1770	Non-Participating	4803040	452074
GSH1771	Non-Participating	4802690	451969
GSH1772	Non-Participating	4802725	451995
GSH1773	Non-Participating	4802752	451990
GSH1774	Non-Participating	4802505	452063
GSH1775	Non-Participating	4802516	452089
GSH1776	Non-Participating	4802506	452128
GSH1777	Non-Participating	4802512	452313
GSH1778	Non-Participating	4802018	452272
GSH1779	Non-Participating	4802059	452283
GSH1780	Non-Participating	4801761	452230
GSH1781	Non-Participating	4801773	452238
GSH1782	Non-Participating	4801738	452262
GSH1783	Non-Participating	4801730	452328
GSH1784	Non-Participating	4801713	452310
GSH1785	Non-Participating	4801509	452466
GSH1786	Non-Participating	4801322	452232
GSH1787	Non-Participating	4801338	452202
GSH1788	Non-Participating	4801342	452185
GSH1789	Non-Participating	4801333	452152
GSH1790	Non-Participating	4801328	452132
GSH1791	Non-Participating	4800956	452261
GSH1792	Non-Participating	4800984	452325
GSH1793	Non-Participating	4800940	452337
GSH1794	Non-Participating	4800455	452627
GSH1795	Non-Participating	4800407	452605
GSH1796	Non-Participating	4800418	452631
GSH1797	Non-Participating	4799947	451481
GSH1798	Non-Participating	4799913	451512
GSH1799	Non-Participating	4799883	451515
GSH1800	Non-Participating	4799880	451496
GSH1801	Non-Participating	4799987	451918
GSH1802	Non-Participating	4799945	451890
GSH1803	Non-Participating	4799802	451915
GSH1804	Non-Participating	4799786	451927
GSH1805	Non-Participating	4799708	451900
GSH1806	Non-Participating	4800017	452341
GSH1807	Non-Participating	4799975	452364
GSH1808	Non-Participating	4799790	452449
GSH1809	Non-Participating	4799757	452465
GSH1810	Participating	4799872	452797
GSH1811	Participating	4799824	452817
GSH1812	Participating	4800195	453441
GSH1813	Participating	4800193	453482
GSH1814	Participating	4800173	453480
GSH1815	Participating	4800151	453489
GSH1816	Participating	4800152	453502
GSH1817	Participating	4800134	453507
GSH1818	Participating	4800150	453469
GSH1819	Participating	4800123	453453
GSH1820	Participating	4800129	453422
GSH1821	Participating	4800166	453423
GSH1822	Participating	4800004	453397
GSH1823	Participating	4799962	453402
GSH1824	Participating	4799977	453475

Receptor ID Number	Receptor Type	Easting	Northing
GSH1825	Participating	4800005	453507
GSH1826	Non-Participating	4798758	452634
GSH1827	Non-Participating	4798782	452652
GSH1828	Non-Participating	4798762	452704
GSH1829	Non-Participating	4798819	452715
GSH1830	Non-Participating	4798768	452751
GSH1831	Non-Participating	4798934	452900
GSH1832	Non-Participating	4798943	452966
GSH1833	Non-Participating	4798324	452780
GSH1834	Non-Participating	4798256	452743
GSH1835	Non-Participating	4798283	452790
GSH1836	Non-Participating	4798294	452799
GSH1837	Non-Participating	4798234	452804
GSH1838	Non-Participating	4798251	452789
GSH1839	Non-Participating	4798162	453407
GSH1840	Non-Participating	4798195	453409
GSH1841	Non-Participating	4798185	453473
GSH1842	Non-Participating	4797977	453619
GSH1843	Non-Participating	4797983	453664
GSH1844	Participating	4797956	452786
GSH1845	Non-Participating	4797983	452978
GSH1846	Non-Participating	4798007	452971
GSH1847	Participating	4797280	452826
GSH1848	Participating	4797283	452856
GSH1849	Non-Participating	4797320	453086
GSH1850	Non-Participating	4797363	453089
GSH1851	Non-Participating	4797378	453105
GSH1852	Non-Participating	4797340	453147
GSH1853	Non-Participating	4797323	453139
GSH1854	Non-Participating	4797291	453118
GSH1855	Non-Participating	4797290	453173
GSH1856	Non-Participating	4796987	453171
GSH1857	Non-Participating	4796957	453218
GSH1858	Non-Participating	4797005	453257
GSH1859	Non-Participating	4796520	453365
GSH1860	Non-Participating	4796519	453431
GSH1861	Non-Participating	4796119	453092
GSH1862	Non-Participating	4796057	453080
GSH1863	Non-Participating	4796051	452978
GSH1864	Non-Participating	4796109	453147
GSH1865	Non-Participating	4795965	453366
GSH1866	Non-Participating	4796010	453392
GSH1867	Non-Participating	4796026	453416
GSH1868	Non-Participating	4795994	453418
GSH1869	Non-Participating	4795498	453254
GSH1870	Non-Participating	4795455	453260
GSH1871	Non-Participating	4795396	453272
GSH1872	Non-Participating	4795415	453246
GSH1873	Participating	4795228	453410
GSH1874	Participating	4795213	453457
GSH1875	Participating	4795191	453443
GSH1876	Participating	4795194	453384
GSH1877	Non-Participating	4794842	453277
GSH1878	Non-Participating	4794861	453305
GSH1879	Non-Participating	4794838	453350
GSH1880	Non-Participating	4794903	453432
GSH1881	Non-Participating	4794935	453471
GSH1882	Non-Participating	4794957	453517
GSH1883	Non-Participating	4794949	453421
GSH1884	Non-Participating	4794481	453528
GSH1885	Non-Participating	4794484	453552
GSH1886	Non-Participating	4794485	453604

Receptor ID Number	Receptor Type	Easting	Northing
GSH1887	Non-Participating	4794361	453623
GSH1888	Non-Participating	4794375	453555
GSH1889	Non-Participating	4794332	453560
GSH1890	Non-Participating	4794302	453581
GSH1891	Non-Participating	4794358	453494
GSH1892	Non-Participating	4793728	453476
GSH1893	Non-Participating	4793687	453481
GSH1894	Non-Participating	4793677	453516
GSH1895	Non-Participating	4793740	453511
GSH1896	Participating	4793798	453744
GSH1897	Participating	4793801	453712
GSH1898	Participating	4793848	453707
GSH1899	Non-Participating	4793499	453652
GSH1900	Non-Participating	4793474	453620
GSH1901	Non-Participating	4793459	453667
GSH1902	Participating	4793249	453485
GSH1903	Participating	4793256	453534
GSH1904	Participating	4793256	453574
GSH1905	Participating	4793195	453498
GSH1906	Participating	4793201	453515
GSH1907	Participating	4793195	453556
GSH1908	Participating	4793134	453525
GSH1909	Non-Participating	4792937	453630
GSH1910	Non-Participating	4792877	453603
GSH1911	Non-Participating	4792690	453737
GSH1912	Non-Participating	4792423	453467
GSH1913	Non-Participating	4792382	453503
GSH1914	Non-Participating	4792409	453550
GSH1915	Non-Participating	4792053	453712
GSH1916	Non-Participating	4792045	453695
GSH1917	Non-Participating	4792024	453690
GSH1918	Non-Participating	4792008	453715
GSH1919	Non-Participating	4792041	453747
GSH1920	Non-Participating	4792026	454332
GSH1921	Non-Participating	4792034	454292
GSH1922	Non-Participating	4791977	454300
GSH1923	Non-Participating	4791934	454327
GSH1924	Non-Participating	4791640	453908
GSH1925	Non-Participating	4791599	453958
GSH1926	Non-Participating	4791632	453991
GSH1927	Non-Participating	4791250	454075
GSH1928	Non-Participating	4791284	454097
GSH1929	Non-Participating	4791272	454030
GSH1930	Non-Participating	4791040	454150
GSH1931	Non-Participating	4791029	454185
GSH1932	Non-Participating	4790995	454200
GSH1933	Non-Participating	4791000	454141
GSH1934	Non-Participating	4789819	453781
GSH1935	Non-Participating	4789826	453808
GSH1936	Non-Participating	4789706	453847
GSH1937	Non-Participating	4789655	453881
GSH1938	Non-Participating	4789661	453904
GSH1939	Non-Participating	4789692	453916
GSH1940	Non-Participating	4789648	453926
GSH1941	Non-Participating	4789720	453894
GSH1942	Non-Participating	4789712	453876
GSH1943	Non-Participating	4790392	454068
GSH1944	Non-Participating	4790376	454092
GSH1945	Non-Participating	4790372	454109
GSH1946	Non-Participating	4790402	454141
GSH1947	Non-Participating	4789891	454224
GSH1948	Non-Participating	4789912	454237

Receptor ID Number	Receptor Type	Easting	Northing
GSH1949	Non-Participating	4789942	454284
GSH1950	Non-Participating	4789942	454331
GSH1951	Non-Participating	4789915	454309
GSH200	Non-Participating	4805812	445477
GSH2000	Non-Participating	4791522	455800
GSH2004	Non-Participating	4791718	455751
GSH2005	Non-Participating	4791726	455807
GSH2006	Non-Participating	4792069	455636
GSH2007	Non-Participating	4792050	455640
GSH2008	Non-Participating	4792051	455698
GSH2009	Non-Participating	4792063	455756
GSH201	Non-Participating	4805823	445500
GSH2010	Non-Participating	4791996	455742
GSH2011	Non-Participating	4791974	455776
GSH2012	Non-Participating	4791967	456019
GSH2013	Non-Participating	4791982	456050
GSH2014	Non-Participating	4792045	456013
GSH2015	Non-Participating	4792400	455690
GSH2016	Non-Participating	4792342	455665
GSH2017	Non-Participating	4792365	455739
GSH2018	Non-Participating	4792318	455710
GSH2019	Non-Participating	4792676	455583
GSH202	Non-Participating	4805856	445601
GSH2020	Non-Participating	4792718	455605
GSH2021	Non-Participating	4792690	455647
GSH2022	Non-Participating	4792813	455810
GSH2023	Non-Participating	4792787	455844
GSH2024	Non-Participating	4792780	455876
GSH2025	Non-Participating	4792809	455776
GSH2026	Participating	4793152	455581
GSH2027	Participating	4793135	455553
GSH2028	Participating	4793122	455615
GSH2029	Non-Participating	4793223	455702
GSH203	Non-Participating	4805850	445629
GSH2030	Non-Participating	4793221	455747
GSH2031	Non-Participating	4793353	455614
GSH2032	Non-Participating	4793377	455625
GSH2033	Non-Participating	4793436	455631
GSH2034	Non-Participating	4793828	455618
GSH2035	Non-Participating	4793823	455654
GSH2036	Non-Participating	4793794	455655
GSH2037	Non-Participating	4793788	455626
GSH2038	Non-Participating	4793766	455628
GSH2039	Non-Participating	4793746	455631
GSH204	Non-Participating	4805372	445566
GSH2040	Non-Participating	4793750	455653
GSH2041	Non-Participating	4793725	455558
GSH2042	Non-Participating	4793712	455535
GSH2043	Non-Participating	4793688	455557
GSH2044	Non-Participating	4793695	455576
GSH2045	Non-Participating	4793625	455548
GSH2046	Non-Participating	4793651	455582
GSH2047	Non-Participating	4793589	455583
GSH2048	Non-Participating	4793534	455748
GSH2049	Non-Participating	4793566	455775
GSH205	Non-Participating	4805338	445555
GSH2050	Non-Participating	4793564	455731
GSH2051	Non-Participating	4793739	455528
GSH2052	Non-Participating	4793673	455521
GSH2053	Non-Participating	4794758	455299
GSH2054	Non-Participating	4794770	455538
GSH2055	Non-Participating	4794774	455566

Receptor ID Number	Receptor Type	Easting	Northing
GSH2056	Non-Participating	4794794	455585
GSH2057	Non-Participating	4794780	455664
GSH2058	Non-Participating	4794761	455569
GSH2059	Non-Participating	4794847	455493
GSH206	Non-Participating	4805399	445738
GSH2060	Non-Participating	4794893	455536
GSH2061	Non-Participating	4795139	455547
GSH2062	Non-Participating	4795177	455556
GSH2063	Non-Participating	4795215	455531
GSH2069	Participating	4795523	455223
GSH207	Non-Participating	4805415	445805
GSH2070	Participating	4795546	455252
GSH2071	Participating	4795533	455292
GSH2072	Non-Participating	4795568	455414
GSH2073	Non-Participating	4795522	455468
GSH2074	Non-Participating	4795511	455450
GSH2075	Non-Participating	4795732	455456
GSH2076	Non-Participating	4795749	455480
GSH2077	Non-Participating	4795778	455482
GSH2078	Non-Participating	4795734	455510
GSH2079	Non-Participating	4795800	455492
GSH208	Non-Participating	4805396	445832
GSH2080	Non-Participating	4795939	455210
GSH2081	Non-Participating	4795901	455178
GSH2082	Non-Participating	4795899	455214
GSH2083	Non-Participating	4795896	455234
GSH2084	Non-Participating	4796111	455035
GSH2085	Non-Participating	4796029	455073
GSH2086	Non-Participating	4796371	455345
GSH2087	Non-Participating	4796410	455382
GSH2088	Non-Participating	4796375	455421
GSH209	Non-Participating	4805404	445870
GSH2095	Non-Participating	4796717	454929
GSH2096	Non-Participating	4796704	454907
GSH2097	Non-Participating	4796786	455276
GSH2098	Non-Participating	4796831	455299
GSH2099	Non-Participating	4796815	455320
GSH210	Non-Participating	4805361	445832
GSH2100	Non-Participating	4796789	455350
GSH2101	Non-Participating	4797133	455008
GSH2102	Non-Participating	4797139	455039
GSH2103	Non-Participating	4797145	454958
GSH2104	Non-Participating	4797249	455276
GSH2105	Non-Participating	4797313	455291
GSH2106	Non-Participating	4797472	454834
GSH2107	Non-Participating	4797483	454861
GSH2108	Non-Participating	4797509	454897
GSH2109	Non-Participating	4797535	454906
GSH2110	Non-Participating	4797527	454843
GSH2111	Non-Participating	4797549	454778
GSH2112	Non-Participating	4797716	455095
GSH2113	Non-Participating	4797757	455128
GSH2114	Non-Participating	4797794	455090
GSH2115	Non-Participating	4797752	455087
GSH2116	Non-Participating	4798015	453965
GSH2117	Non-Participating	4798022	454023
GSH2118	Non-Participating	4798011	454045
GSH2119	Non-Participating	4798172	454350
GSH2120	Non-Participating	4798169	454401
GSH2121	Non-Participating	4798430	455028
GSH2122	Non-Participating	4798480	455062
GSH2123	Non-Participating	4798867	454513

Receptor ID Number	Receptor Type	Easting	Northing
GSH2124	Non-Participating	4798827	454529
GSH2125	Non-Participating	4798816	454554
GSH2126	Non-Participating	4800297	454274
GSH2127	Non-Participating	4800250	454284
GSH2128	Non-Participating	4800236	454293
GSH2129	Non-Participating	4800243	454384
GSH2130	Non-Participating	4800254	454387
GSH2131	Non-Participating	4800122	454456
GSH2132	Non-Participating	4800100	454468
GSH2133	Non-Participating	4800278	455415
GSH2134	Non-Participating	4800477	455638
GSH2135	Non-Participating	4800480	455668
GSH2136	Non-Participating	4800444	455650
GSH2137	Non-Participating	4800248	455854
GSH214	Non-Participating	4805020	445000
GSH215	Non-Participating	4805014	445022
GSH216	Non-Participating	4804541	445901
GSH217	Non-Participating	4804490	445847
GSH218	Non-Participating	4804531	445828
GSH219	Non-Participating	4804521	445798
GSH220	Non-Participating	4804500	445613
GSH221	Non-Participating	4804501	445572
GSH2216	Non-Participating	4791258	441306
GSH2217	Non-Participating	4791275	441441
GSH2218	Non-Participating	4791281	441461
GSH2219	Non-Participating	4791275	441421
GSH222	Non-Participating	4804291	445671
GSH2220	Participating	4791733	445750
GSH2221	Participating	4791713	445753
GSH2222	Participating	4791697	445755
GSH2223	Participating	4791749	445784
GSH2224	Participating	4791749	445754
GSH2225	Participating	4791758	445640
GSH2226	Non-Participating	4800293	455854
GSH2227	Non-Participating	4800259	454394
GSH2228	Non-Participating	4799641	450504
GSH2229	Non-Participating	4799596	450491
GSH223	Non-Participating	4804260	445676
GSH2230	Non-Participating	4799490	449351
GSH2236	Non-Participating	4796692	444159
GSH2237	Non-Participating	4796941	446154
GSH2238	Non-Participating	4796971	446156
GSH2239	Non-Participating	4796983	446175
GSH224	Non-Participating	4804239	445697
GSH2240	Non-Participating	4797962	453621
GSH2241	Non-Participating	4801760	450209
GSH2242	Non-Participating	4801634	450081
GSH2243	Non-Participating	4801625	450055
GSH2244	Non-Participating	4801634	450076
GSH2245	Non-Participating	4801592	450067
GSH2246	Non-Participating	4801636	449945
GSH2247	Non-Participating	4800960	446464
GSH2248	Non-Participating	4800968	446502
GSH2249	Non-Participating	4800946	446372
GSH225	Non-Participating	4804229	445714
GSH2250	Non-Participating	4800946	446416
GSH2255	Non-Participating	4804534	452015
GSH2256	Non-Participating	4804591	451980
GSH2257	Non-Participating	4804617	451967
GSH226	Non-Participating	4804193	445721
GSH2269	Non-Participating	4792170	439152
GSH227	Non-Participating	4804092	445861

Receptor ID Number	Receptor Type	Easting	Northing
GSH2270	Non-Participating	4792138	439137
GSH2273	Non-Participating	4789760	442659
GSH2274	Non-Participating	4791299	449803
GSH2275	Non-Participating	4791680	455724
GSH2279	Non-Participating	4789179	449234
GSH228	Non-Participating	4804115	445866
GSH2280	Non-Participating	4791469	437426
GSH2281	Non-Participating	4790648	437209
GSH2282	Non-Participating	4790195	437065
GSH2283	Non-Participating	4789037	436707
GSH2284	Non-Participating	4787693	436332
GSH2285	Non-Participating	4787426	436167
GSH2286	Non-Participating	4787376	436135
GSH2287	Non-Participating	4787352	436153
GSH2288	Non-Participating	4787385	435638
GSH2289	Non-Participating	4787145	435895
GSH229	Non-Participating	4804095	445881
GSH2290	Non-Participating	4786491	440027
GSH2291	Non-Participating	4786523	440052
GSH2292	Non-Participating	4786538	439927
GSH2293	Non-Participating	4786510	439880
GSH2294	Non-Participating	4786478	439852
GSH2295	Non-Participating	4786818	439980
GSH2296	Non-Participating	4786844	440018
GSH2302	Non-Participating	4798406	455070
GSH2303	Non-Participating	4799714	454798
GSH2304	Non-Participating	4799727	454765
GSH2305	Non-Participating	4799768	454802
GSH2306	Non-Participating	4804512	445570
GSH2307	Non-Participating	4803665	445684
GSH2323	Non-Participating	4794518	445115
GSH2324	Non-Participating	4793322	445170
GSH2334	Non-Participating	4804904	448073
GSH2335	Non-Participating	4804940	448073
GSH2336	Non-Participating	4804251	447835
GSH2337	Non-Participating	4804242	447838
GSH2338	Non-Participating	4804184	447752
GSH2339	Non-Participating	4800570	448089
GSH2340	Non-Participating	4798605	448568
GSH2341	Non-Participating	4794840	449179
GSH2342	Non-Participating	4794359	449460
GSH2343	Non-Participating	4792102	449583
GSH2344	Non-Participating	4792795	455909
GSH2345	Non-Participating	4793776	455651
GSH2346	Participating	4793448	453637
GSH2347	Non-Participating	4795412	453270
GSH2348	Non-Participating	4795421	453261
GSH2349	Non-Participating	4802656	451989
GSH2350	Non-Participating	4803433	452069
GSH2352	Non-Participating	4807202	449581
GSH2353	Non-Participating	4807186	449593
GSH2354	Non-Participating	4807236	449450
GSH2355	Non-Participating	4806769	449492
GSH2356	Non-Participating	4806476	449669
GSH2357	Non-Participating	4803948	449883
GSH2358	Non-Participating	4804018	449878
GSH2359	Non-Participating	4799511	450888
GSH236	Non-Participating	4803661	445723
GSH2360	Non-Participating	4801557	450444
GSH2361	Non-Participating	4802770	450291
GSH2362	Participating	4803374	449977
GSH2363	Non-Participating	4797594	450858

Receptor ID Number	Receptor Type	Easting	Northing
GSH2364	Non-Participating	4797518	450787
GSH2365	Non-Participating	4793067	451477
GSH2366	Non-Participating	4792959	451486
GSH2367	Non-Participating	4794608	451399
GSH2368	Non-Participating	4794622	451483
GSH2369	Non-Participating	4794657	451510
GSH237	Non-Participating	4803670	445756
GSH2370	Non-Participating	4794638	451423
GSH2371	Non-Participating	4795103	451311
GSH2372	Non-Participating	4795146	451284
GSH2373	Non-Participating	4798141	451005
GSH2374	Non-Participating	4799404	447817
GSH2379	Non-Participating	4798034	444593
GSH238	Non-Participating	4803669	445785
GSH2380	Non-Participating	4798053	444605
GSH2381	Non-Participating	4796605	446807
GSH2382	Non-Participating	4796596	446757
GSH2383	Non-Participating	4796107	446852
GSH2384	Non-Participating	4790142	447095
GSH2385	Non-Participating	4793830	447323
GSH2386	Non-Participating	4794884	447145
GSH2387	Non-Participating	4794912	447144
GSH2388	Non-Participating	4794911	447127
GSH239	Non-Participating	4803318	445742
GSH2391	Vacant Lot Non-Participating	4789350	450432
GSH2392	Vacant Lot Non-Participating	4789282	450236
GSH2393	Vacant Lot Non-Participating	4789307	450089
GSH2394	Vacant Lot Non-Participating	4789394	450046
GSH2395	Vacant Lot Non-Participating	4789235	449858
GSH2396	Vacant Lot Non-Participating	4789251	449587
GSH2398	Vacant Lot Non-Participating	4789131	448686
GSH2399	Vacant Lot Non-Participating	4789090	448425
GSH240	Non-Participating	4803339	445758
GSH2401	Vacant Lot Non-Participating	4788770	447410
GSH2403	Vacant Lot Non-Participating	4788963	447575
GSH2404	Vacant Lot Non-Participating	4788893	447107
GSH2405	Vacant Lot Non-Participating	4788802	446524
GSH241	Non-Participating	4803374	445766
GSH2412	Vacant Lot Non-Participating	4788961	441787
GSH2413	Vacant Lot Non-Participating	4787971	440712
GSH2414	Vacant Lot Participating	4787905	440232
GSH2416	Vacant Lot Participating	4788087	438675
GSH242	Non-Participating	4803380	445800
GSH2420	Vacant Lot Participating	4789310	438798
GSH2421	Vacant Lot Non-Participating	4787431	437122
GSH2422	Vacant Lot Non-Participating	4787494	436905
GSH2423	Vacant Lot Non-Participating	4787754	436604
GSH2424	Vacant Lot Non-Participating	4787726	436477
GSH2425	Vacant Lot Non-Participating	4787936	436520
GSH2426	Vacant Lot Non-Participating	4787575	437084
GSH2427	Vacant Lot Non-Participating	4788178	436628
GSH2428	Vacant Lot Non-Participating	4788946	436831
GSH2429	Vacant Lot Non-Participating	4789121	436867
GSH243	Non-Participating	4802403	445976
GSH2430	Vacant Lot Non-Participating	4789342	436800
GSH2431	Vacant Lot Non-Participating	4789605	437052
GSH2432	Vacant Lot Non-Participating	4789636	436916
GSH2433	Vacant Lot Non-Participating	4789801	436817
GSH2434	Vacant Lot Non-Participating	4790022	436993
GSH2435	Vacant Lot Non-Participating	4789846	436905
GSH2436	Vacant Lot Non-Participating	4789724	438851
GSH2437	Vacant Lot Participating	4790109	439057

Receptor ID Number	Receptor Type	Easting	Northing
GSH2438	Vacant Lot Participating	4790183	438903
GSH2439	Vacant Lot Participating	4790344	439106
GSH244	Non-Participating	4802319	446129
GSH2440	Vacant Lot Participating	4790565	438938
GSH2441	Vacant Lot Non-Participating	4790782	438956
GSH2442	Vacant Lot Non-Participating	4791413	439022
GSH2443	Vacant Lot Non-Participating	4791115	439163
GSH2445	Vacant Lot Non-Participating	4792030	439254
GSH245	Non-Participating	4802283	446147
GSH246	Participating	4802137	446192
GSH247	Participating	4802093	446217
GSH248	Participating	4802101	446257
GSH249	Non-Participating	4801337	446222
GSH250	Non-Participating	4801292	446226
GSH2500	Vacant Lot Non-Participating	4794545	442919
GSH251	Non-Participating	4801309	446247
GSH252	Non-Participating	4801309	446267
GSH253	Non-Participating	4801307	446309
GSH254	Non-Participating	4801331	446308
GSH2540	Vacant Lot Non-Participating	4806697	451691
GSH2541	Vacant Lot Non-Participating	4806914	451648
GSH2542	Vacant Lot Non-Participating	4807347	451634
GSH2545	Vacant Lot Non-Participating	4806049	452321
GSH2546	Vacant Lot Non-Participating	4806042	452205
GSH2547	Vacant Lot Non-Participating	4805986	451802
GSH2548	Vacant Lot Non-Participating	4805301	451917
GSH255	Non-Participating	4801340	446269
GSH2550	Vacant Lot Non-Participating	4805181	451938
GSH2556	Vacant Lot Non-Participating	4803964	452105
GSH2557	Vacant Lot Non-Participating	4802067	452381
GSH2558	Vacant Lot Non-Participating	4803373	452191
GSH2559	Vacant Lot Non-Participating	4803272	452214
GSH256	Non-Participating	4800903	446007
GSH2560	Vacant Lot Non-Participating	4802676	452292
GSH2561	Vacant Lot Non-Participating	4801940	452395
GSH2562	Vacant Lot Non-Participating	4801361	452473
GSH2563	Vacant Lot Non-Participating	4801149	452514
GSH2564	Vacant Lot Participating	4800249	454065
GSH2565	Vacant Lot Non-Participating	4798693	452883
GSH2566	Vacant Lot Non-Participating	4798479	454850
GSH2567	Vacant Lot Non-Participating	4798889	454801
GSH2568	Vacant Lot Participating	4799081	454778
GSH2569	Vacant Lot Non-Participating	4797885	452996
GSH257	Non-Participating	4800885	446024
GSH2570	Vacant Lot Non-Participating	4798136	454895
GSH2571	Vacant Lot Non-Participating	4796548	455137
GSH2572	Vacant Lot Non-Participating	4796333	455169
GSH2573	Vacant Lot Non-Participating	4795823	453320
GSH2574	Vacant Lot Non-Participating	4795718	455250
GSH2575	Vacant Lot Participating	4796624	453290
GSH2576	Vacant Lot Participating	4795134	455253
GSH2577	Vacant Lot Non-Participating	4794785	453502
GSH2579	Vacant Lot Non-Participating	4794079	454588
GSH258	Non-Participating	4800862	446014
GSH2580	Vacant Lot Non-Participating	4794092	454684
GSH2581	Vacant Lot Non-Participating	4794125	454907
GSH2582	Vacant Lot Participating	4794129	454955
GSH2583	Vacant Lot Non-Participating	4794217	454986
GSH2584	Vacant Lot Non-Participating	4794136	455065
GSH2585	Vacant Lot Non-Participating	4794313	455345
GSH2586	Vacant Lot Non-Participating	4794370	455404
GSH2587	Vacant Lot Non-Participating	4794173	455393

Receptor ID Number	Receptor Type	Easting	Northing
GSH2588	Vacant Lot Non-Participating	4794295	455388
GSH2589	Vacant Lot Non-Participating	4794219	455400
GSH259	Non-Participating	4800875	446061
GSH2590	Vacant Lot Non-Participating	4794179	455413
GSH2592	Vacant Lot Non-Participating	4793954	455546
GSH2593	Vacant Lot Non-Participating	4794074	455529
GSH2594	Vacant Lot Non-Participating	4794092	455535
GSH2595	Vacant Lot Non-Participating	4794109	455533
GSH2596	Vacant Lot Non-Participating	4794120	455536
GSH2597	Vacant Lot Non-Participating	4794193	455304
GSH2598	Vacant Lot Participating	4793828	455503
GSH260	Non-Participating	4800948	446375
GSH2601	Vacant Lot Participating	4792943	453725
GSH2603	Vacant Lot Non-Participating	4792539	453773
GSH2604	Vacant Lot Non-Participating	4792360	453810
GSH2605	Vacant Lot Non-Participating	4791743	453907
GSH2607	Vacant Lot Non-Participating	4791066	453831
GSH2608	Vacant Lot Participating	4791216	453806
GSH2609	Vacant Lot Non-Participating	4791520	453768
GSH261	Non-Participating	4800955	446413
GSH2610	Vacant Lot Non-Participating	4791724	453739
GSH2611	Vacant Lot Non-Participating	4791611	452687
GSH2612	Vacant Lot Non-Participating	4791502	451833
GSH2613	Vacant Lot Participating	4790619	451971
GSH2614	Vacant Lot Participating	4790468	452009
GSH2615	Vacant Lot Non-Participating	4791670	451847
GSH2616	Vacant Lot Non-Participating	4791769	452687
GSH2617	Vacant Lot Non-Participating	4792343	451721
GSH2618	Vacant Lot Participating	4792467	451707
GSH2619	Vacant Lot Non-Participating	4794103	453425
GSH262	Non-Participating	4800992	446413
GSH2620	Vacant Lot Non-Participating	4793756	452021
GSH2621	Vacant Lot Non-Participating	4794207	453421
GSH2622	Vacant Lot Non-Participating	4794327	453396
GSH2623	Vacant Lot Non-Participating	4794456	453361
GSH2624	Vacant Lot Non-Participating	4795134	453236
GSH2625	Vacant Lot Non-Participating	4795821	453153
GSH2626	Vacant Lot Non-Participating	4795364	451263
GSH2627	Vacant Lot Non-Participating	4794906	451333
GSH2628	Vacant Lot Non-Participating	4795697	451209
GSH263	Non-Participating	4800649	446135
GSH2630	Vacant Lot Non-Participating	4796335	451132
GSH2631	Vacant Lot Non-Participating	4796663	451070
GSH2632	Vacant Lot Non-Participating	4797600	450932
GSH2634	Vacant Lot Participating	4798013	452807
GSH2635	Vacant Lot Non-Participating	4799781	452250
GSH2637	Vacant Lot Non-Participating	4801702	450324
GSH2638	Vacant Lot Non-Participating	4801996	451863
GSH2639	Vacant Lot Non-Participating	4801885	450341
GSH264	Non-Participating	4800620	446106
GSH2640	Vacant Lot Non-Participating	4802451	450278
GSH2641	Vacant Lot Non-Participating	4802963	450141
GSH2642	Vacant Lot Non-Participating	4802655	450245
GSH2643	Vacant Lot Non-Participating	4803349	452076
GSH2644	Vacant Lot Non-Participating	4802364	452225
GSH2645	Vacant Lot Participating	4803944	451989
GSH2646	Vacant Lot Participating	4804424	449959
GSH2647	Vacant Lot Non-Participating	4805104	451822
GSH2648	Vacant Lot Non-Participating	4805188	451817
GSH2649	Vacant Lot Participating	4805296	449861
GSH265	Non-Participating	4800590	446123
GSH2650	Vacant Lot Non-Participating	4805861	449778

Receptor ID Number	Receptor Type	Easting	Northing
GSH2651	Vacant Lot Non-Participating	4807140	451491
GSH2657	Vacant Lot Non-Participating	4806177	449599
GSH2658	Vacant Lot Non-Participating	4805824	449630
GSH2659	Vacant Lot Non-Participating	4805340	447767
GSH266	Non-Participating	4800604	446148
GSH2660	Vacant Lot Non-Participating	4805613	448632
GSH2661	Vacant Lot Non-Participating	4805649	448704
GSH2662	Vacant Lot Non-Participating	4805247	447805
GSH2663	Vacant Lot Non-Participating	4804663	449791
GSH2664	Vacant Lot Non-Participating	4804415	449849
GSH2665	Vacant Lot Non-Participating	4802988	448061
GSH2666	Vacant Lot Non-Participating	4802750	448157
GSH2667	Vacant Lot Non-Participating	4802576	448170
GSH2669	Vacant Lot Non-Participating	4801727	450021
GSH267	Non-Participating	4800652	446397
GSH2670	Vacant Lot Non-Participating	4800983	448403
GSH2672	Vacant Lot Participating	4800353	448477
GSH2673	Vacant Lot Participating	4800147	448494
GSH2674	Vacant Lot Non-Participating	4799743	449954
GSH2675	Vacant Lot Non-Participating	4799946	451784
GSH2676	Vacant Lot Non-Participating	4799736	450328
GSH2677	Vacant Lot Non-Participating	4799556	449209
GSH2678	Vacant Lot Non-Participating	4799535	449143
GSH2679	Vacant Lot Non-Participating	4799452	449101
GSH268	Non-Participating	4800629	446391
GSH2681	Vacant Lot Non-Participating	4800796	448266
GSH2683	Vacant Lot Non-Participating	4801353	448161
GSH2684	Vacant Lot Non-Participating	4801316	447655
GSH2685	Vacant Lot Non-Participating	4801388	447364
GSH2686	Vacant Lot Non-Participating	4800142	448336
GSH2687	Vacant Lot Non-Participating	4799793	448319
GSH2689	Vacant Lot Non-Participating	4799719	448388
GSH269	Non-Participating	4800609	446395
GSH2690	Vacant Lot Non-Participating	4799707	448283
GSH2691	Vacant Lot Non-Participating	4799689	448163
GSH2692	Vacant Lot Non-Participating	4799663	448028
GSH2693	Vacant Lot Non-Participating	4799602	448118
GSH2694	Vacant Lot Non-Participating	4799557	448349
GSH2695	Vacant Lot Non-Participating	4799542	448393
GSH2696	Vacant Lot Non-Participating	4799518	448151
GSH2697	Vacant Lot Non-Participating	4799320	448093
GSH2698	Vacant Lot Non-Participating	4799345	448140
GSH2699	Vacant Lot Non-Participating	4799308	448141
GSH270	Non-Participating	4800560	446423
GSH2700	Vacant Lot Non-Participating	4799229	448128
GSH2701	Vacant Lot Non-Participating	4799068	448496
GSH2702	Vacant Lot Non-Participating	4799145	448486
GSH2703	Vacant Lot Non-Participating	4798883	448624
GSH2704	Vacant Lot Non-Participating	4798826	448650
GSH2705	Vacant Lot Non-Participating	4798793	448650
GSH2706	Vacant Lot Non-Participating	4799364	448870
GSH2707	Vacant Lot Non-Participating	4799444	448967
GSH2708	Vacant Lot Non-Participating	4799444	449006
GSH2709	Vacant Lot Non-Participating	4799460	449026
GSH271	Non-Participating	4800365	446073
GSH2710	Vacant Lot Non-Participating	4799482	448362
GSH2711	Vacant Lot Non-Participating	4799238	448216
GSH2712	Vacant Lot Non-Participating	4799332	448346
GSH2713	Vacant Lot Non-Participating	4799327	448325
GSH2714	Vacant Lot Non-Participating	4799254	448690
GSH2715	Vacant Lot Non-Participating	4799558	448749
GSH2716	Vacant Lot Non-Participating	4799529	449047

Receptor ID Number	Receptor Type	Easting	Northing
GSH2717	Vacant Lot Non-Participating	4799563	448638
GSH2718	Vacant Lot Non-Participating	4799685	448560
GSH2719	Vacant Lot Non-Participating	4798890	448532
GSH272	Non-Participating	4800322	446073
GSH2722	Vacant Lot Non-Participating	4798529	448744
GSH2723	Vacant Lot Non-Participating	4798715	448677
GSH2724	Vacant Lot Non-Participating	4797318	450803
GSH2726	Vacant Lot Non-Participating	4796559	450951
GSH2728	Vacant Lot Non-Participating	4795671	449158
GSH273	Non-Participating	4800363	446115
GSH2730	Vacant Lot Non-Participating	4795060	449309
GSH2734	Vacant Lot Non-Participating	4794881	451195
GSH2735	Vacant Lot Non-Participating	4794705	451229
GSH2736	Vacant Lot Non-Participating	4794188	449374
GSH2737	Vacant Lot Non-Participating	4794348	449197
GSH2738	Vacant Lot Non-Participating	4793121	451489
GSH2739	Vacant Lot Non-Participating	4792874	451509
GSH274	Non-Participating	4800361	446152
GSH2740	Vacant Lot Non-Participating	4792805	449577
GSH2741	Vacant Lot Non-Participating	4792596	449614
GSH2742	Vacant Lot Non-Participating	4791946	449708
GSH2744	Vacant Lot Participating	4790942	449887
GSH2745	Vacant Lot Non-Participating	4791494	451687
GSH2746	Vacant Lot Non-Participating	4791072	451741
GSH2747	Vacant Lot Non-Participating	4790551	449937
GSH2748	Vacant Lot Non-Participating	4790401	449954
GSH2749	Vacant Lot Non-Participating	4790478	451850
GSH275	Non-Participating	4800302	446400
GSH2751	Vacant Lot Non-Participating	4789844	447779
GSH2752	Vacant Lot Participating	4791116	449605
GSH2753	Vacant Lot Non-Participating	4790428	447900
GSH2754	Vacant Lot Non-Participating	4790347	447924
GSH2755	Vacant Lot Non-Participating	4790235	447937
GSH2756	Vacant Lot Non-Participating	4793200	449372
GSH2757	Vacant Lot Non-Participating	4792937	449397
GSH2759	Vacant Lot Participating	4791074	447756
GSH276	Non-Participating	4800274	446442
GSH2761	Vacant Lot Non-Participating	4791982	447604
GSH2762	Vacant Lot Participating	4791984	447469
GSH2763	Vacant Lot Non-Participating	4792077	447589
GSH2764	Vacant Lot Participating	4792370	447536
GSH2766	Vacant Lot Participating	4793619	449316
GSH2767	Vacant Lot Participating	4793554	447579
GSH2768	Vacant Lot Non-Participating	4794036	449232
GSH277	Non-Participating	4800297	446455
GSH2770	Vacant Lot Non-Participating	4795145	449090
GSH2771	Vacant Lot Non-Participating	4795268	449064
GSH2772	Vacant Lot Non-Participating	4794729	447181
GSH2773	Vacant Lot Non-Participating	4794151	447272
GSH2774	Vacant Lot Non-Participating	4795421	448993
GSH2775	Vacant Lot Non-Participating	4795634	448956
GSH2776	Vacant Lot Non-Participating	4796099	448910
GSH2777	Vacant Lot Non-Participating	4796861	448814
GSH2778	Vacant Lot Non-Participating	4797264	448761
GSH278	Non-Participating	4800296	446484
GSH2780	Vacant Lot Non-Participating	4796403	446976
GSH2781	Vacant Lot Non-Participating	4797659	448735
GSH279	Non-Participating	4800262	446473
GSH2790	Vacant Lot Non-Participating	4799402	447587
GSH2791	Vacant Lot Non-Participating	4801841	446169
GSH2792	Vacant Lot Non-Participating	4802709	446102
GSH2793	Vacant Lot Non-Participating	4803358	447891

Receptor ID Number	Receptor Type	Easting	Northing
GSH2794	Vacant Lot Non-Participating	4802577	448013
GSH2795	Vacant Lot Participating	4802358	448045
GSH2796	Vacant Lot Participating	4803520	447883
GSH2797	Vacant Lot Non-Participating	4803711	447849
GSH2798	Vacant Lot Non-Participating	4804722	445795
GSH280	Non-Participating	4800235	446509
GSH2806	Vacant Lot Non-Participating	4805795	447550
GSH281	Non-Participating	4800194	446515
GSH2811	Vacant Lot Non-Participating	4805017	445017
GSH2812	Vacant Lot Non-Participating	4804655	445603
GSH2813	Vacant Lot Non-Participating	4804077	445682
GSH2815	Vacant Lot Non-Participating	4803092	445828
GSH2819	Vacant Lot Non-Participating	4802260	445989
GSH2841	Vacant Lot Non-Participating	4798024	446536
GSH2844	Vacant Lot Non-Participating	4797044	445682
GSH2845	Vacant Lot Non-Participating	4796944	444817
GSH2846	Vacant Lot Non-Participating	4797460	444726
GSH2847	Vacant Lot Non-Participating	4797597	444688
GSH2848	Vacant Lot Non-Participating	4796977	444622
GSH2849	Vacant Lot Non-Participating	4797164	444592
GSH2850	Vacant Lot Non-Participating	4797580	444530
GSH2851	Vacant Lot Non-Participating	4797772	444522
GSH2857	Vacant Lot Non-Participating	4797019	446701
GSH2858	Vacant Lot Non-Participating	4796748	444676
GSH2859	Vacant Lot Non-Participating	4796698	444380
GSH2861	Vacant Lot Non-Participating	4796332	446814
GSH2862	Vacant Lot Non-Participating	4795546	446926
GSH2863	Vacant Lot Participating	4795176	446968
GSH2864	Vacant Lot Participating	4794947	447005
GSH2865	Vacant Lot Participating	4794743	447038
GSH2866	Vacant Lot Participating	4794527	447076
GSH2867	Vacant Lot Participating	4794872	445146
GSH2868	Vacant Lot Participating	4795341	445018
GSH2870	Vacant Lot Non-Participating	4794847	444900
GSH2871	Vacant Lot Non-Participating	4794785	444376
GSH2873	Vacant Lot Non-Participating	4795276	444871
GSH2874	Vacant Lot Non-Participating	4795587	444821
GSH2877	Vacant Lot Non-Participating	4793737	447192
GSH2878	Vacant Lot Participating	4793546	447213
GSH2879	Vacant Lot Non-Participating	4792930	446247
GSH2880	Vacant Lot Non-Participating	4793244	445300
GSH2881	Vacant Lot Participating	4794137	445181
GSH2885	Vacant Lot Participating	4792560	443361
GSH2886	Vacant Lot Participating	4792693	444414
GSH2887	Vacant Lot Non-Participating	4792776	445038
GSH2888	Vacant Lot Non-Participating	4792647	445096
GSH2889	Vacant Lot Non-Participating	4792655	445225
GSH2890	Vacant Lot Participating	4792472	445416
GSH2891	Vacant Lot Non-Participating	4792572	445416
GSH2892	Vacant Lot Non-Participating	4792618	445391
GSH2893	Vacant Lot Non-Participating	4792664	445374
GSH2894	Vacant Lot Non-Participating	4792714	445749
GSH2895	Vacant Lot Non-Participating	4792710	445406
GSH2896	Vacant Lot Non-Participating	4792824	445378
GSH2897	Vacant Lot Participating	4790890	446572
GSH2898	Vacant Lot Non-Participating	4792335	445212
GSH2902	Vacant Lot Participating	4791470	445437
GSH2903	Vacant Lot Non-Participating	4790638	444701
GSH2904	Vacant Lot Non-Participating	4791308	443528
GSH2905	Vacant Lot Non-Participating	4791507	443503
GSH2906	Vacant Lot Participating	4792373	443374
GSH2907	Vacant Lot Participating	4790892	447627

Receptor ID Number	Receptor Type	Easting	Northing
GSH2908	Vacant Lot Non-Participating	4790500	447675
GSH2909	Vacant Lot Non-Participating	4789766	445677
GSH2910	Vacant Lot Non-Participating	4789697	443618
GSH2911	Vacant Lot Non-Participating	4789831	441685
GSH2912	Vacant Lot Non-Participating	4789981	441656
GSH2913	Vacant Lot Participating	4790205	441635
GSH2914	Vacant Lot Non-Participating	4790393	442954
GSH2915	Vacant Lot Participating	4790651	441539
GSH2916	Vacant Lot Non-Participating	4788189	441865
GSH2917	Vacant Lot Non-Participating	4788169	441868
GSH2918	Vacant Lot Non-Participating	4788111	442118
GSH2919	Vacant Lot Non-Participating	4791133	443390
GSH2921	Vacant Lot Non-Participating	4791736	443291
GSH2922	Vacant Lot Participating	4792335	443187
GSH2923	Vacant Lot Non-Participating	4791004	441502
GSH2926	Vacant Lot Non-Participating	4793674	440936
GSH2928	Vacant Lot Non-Participating	4792468	441119
GSH2929	Vacant Lot Non-Participating	4792285	441153
GSH2930	Vacant Lot Participating	4790176	441419
GSH2931	Vacant Lot Non-Participating	4790996	441315
GSH2932	Vacant Lot Non-Participating	4792654	441235
GSH2934	Vacant Lot Non-Participating	4805667	445492
GSH2937	Vacant Lot Non-Participating	4799803	450657
GSH2938	Vacant Lot Non-Participating	4802214	446113
GSH2941	Vacant Lot Non-Participating	4789879	454021
GSH2945	Vacant Lot Participating	4794218	444970
GSH2947	Vacant Lot Non-Participating	4796643	455120
GSH2948	Vacant Lot Non-Participating	4798358	454876
GSH2949	Vacant Lot Non-Participating	4797688	451542
GSH2950	Vacant Lot Non-Participating	4793821	451374
GSH2951	Vacant Lot Non-Participating	4799506	450539
GSH2952	Vacant Lot Non-Participating	4787953	441637
GSH2953	Vacant Lot Non-Participating	4787934	441542
GSH2955	Vacant Lot Participating	4790935	447776
GSH2956	Vacant Lot Non-Participating	4789981	449997
GSH2957	Vacant Lot Non-Participating	4798017	453892
GSH2958	Vacant Lot Non-Participating	4799216	448696
GSH2959	Vacant Lot Non-Participating	4806090	451792
GSH2963	Vacant Lot Non-Participating	4794253	451445
GSH2966	Vacant Lot Non-Participating	4796108	455190
GSH2967	Vacant Lot Non-Participating	4794098	454736
GSH2968	Vacant Lot Non-Participating	4794104	454781
GSH2969	Vacant Lot Non-Participating	4794104	454824
GSH2970	Vacant Lot Non-Participating	4794114	454871
GSH2971	Vacant Lot Non-Participating	4794130	455001
GSH2972	Vacant Lot Non-Participating	4794143	455133
GSH2973	Vacant Lot Non-Participating	4794154	455234
GSH2974	Vacant Lot Non-Participating	4794157	455276
GSH2975	Vacant Lot Non-Participating	4794165	455313
GSH2976	Vacant Lot Non-Participating	4794223	455345
GSH2977	Vacant Lot Non-Participating	4794543	455467
GSH2978	Vacant Lot Non-Participating	4794421	455487
GSH2979	Vacant Lot Non-Participating	4794392	455492
GSH2980	Vacant Lot Non-Participating	4794365	455498
GSH2981	Vacant Lot Non-Participating	4794349	455500
GSH2982	Vacant Lot Non-Participating	4794323	455504
GSH2983	Vacant Lot Non-Participating	4794299	455505
GSH2984	Vacant Lot Non-Participating	4794277	455509
GSH2985	Vacant Lot Non-Participating	4794261	455512
GSH2986	Vacant Lot Non-Participating	4794241	455513
GSH2987	Vacant Lot Non-Participating	4794183	455525
GSH2988	Vacant Lot Non-Participating	4794176	455480

Receptor ID Number	Receptor Type	Easting	Northing
GSH2989	Vacant Lot Non-Participating	4794175	455463
GSH2990	Vacant Lot Non-Participating	4794172	455446
GSH2991	Vacant Lot Non-Participating	4794245	455433
GSH2992	Vacant Lot Non-Participating	4794269	455432
GSH2993	Vacant Lot Non-Participating	4794304	455427
GSH2994	Vacant Lot Non-Participating	4794133	455505
GSH2995	Vacant Lot Non-Participating	4794060	455543
GSH2996	Vacant Lot Non-Participating	4794037	455547
GSH2997	Vacant Lot Non-Participating	4794014	455551
GSH2998	Vacant Lot Non-Participating	4793986	455555
GSH2999	Vacant Lot Non-Participating	4794134	455490
GSH3000	Vacant Lot Non-Participating	4794133	455470
GSH3001	Vacant Lot Non-Participating	4794126	455420
GSH3002	Vacant Lot Non-Participating	4794122	455380
GSH3003	Vacant Lot Non-Participating	4794118	455351
GSH3004	Vacant Lot Non-Participating	4794106	455321
GSH3005	Vacant Lot Non-Participating	4794101	455297
GSH3006	Vacant Lot Non-Participating	4794096	455272
GSH3007	Vacant Lot Participating	4792852	451623
GSH3008	Vacant Lot Non-Participating	4795962	453149
GSH3009	Vacant Lot Non-Participating	4798145	450855
GSH3010	Vacant Lot Non-Participating	4799796	451808
GSH3011	Vacant Lot Non-Participating	4789373	450831
GSH3012	Vacant Lot Non-Participating	4789310	450148
GSH3013	Vacant Lot Non-Participating	4789434	450047
GSH3014	Vacant Lot Non-Participating	4789470	450039
GSH3015	Vacant Lot Non-Participating	4789521	450032
GSH3016	Vacant Lot Non-Participating	4789254	450006
GSH3017	Vacant Lot Non-Participating	4789249	449974
GSH3018	Vacant Lot Non-Participating	4789242	449942
GSH3019	Vacant Lot Non-Participating	4789238	449913
GSH3020	Vacant Lot Non-Participating	4789295	450003
GSH3021	Vacant Lot Non-Participating	4789222	449794
GSH3022	Vacant Lot Non-Participating	4792982	451509
GSH3023	Vacant Lot Non-Participating	4789175	449300
GSH3025	Vacant Lot Non-Participating	4790250	447720
GSH3026	Vacant Lot Non-Participating	4792695	445619
GSH3027	Vacant Lot Non-Participating	4792725	445540
GSH3028	Vacant Lot Non-Participating	4792721	445482
GSH3029	Vacant Lot Non-Participating	4792721	445435
GSH3030	Vacant Lot Non-Participating	4792800	445559
GSH3031	Vacant Lot Non-Participating	4792796	445514
GSH3032	Vacant Lot Non-Participating	4792790	445483
GSH3033	Vacant Lot Non-Participating	4792783	445444
GSH3034	Vacant Lot Non-Participating	4792771	445381
GSH3035	Vacant Lot Non-Participating	4792759	445339
GSH3036	Vacant Lot Non-Participating	4792814	445331
GSH3037	Vacant Lot Non-Participating	4792810	445279
GSH3038	Vacant Lot Non-Participating	4792752	445291
GSH3039	Vacant Lot Non-Participating	4792738	445187
GSH3040	Vacant Lot Non-Participating	4792735	445103
GSH3041	Vacant Lot Non-Participating	4792656	445033
GSH3042	Vacant Lot Non-Participating	4792673	445141
GSH3043	Vacant Lot Non-Participating	4792699	445298
GSH3044	Vacant Lot Non-Participating	4792625	445309
GSH3045	Vacant Lot Non-Participating	4792536	445321
GSH3046	Vacant Lot Non-Participating	4792459	445333
GSH3047	Vacant Lot Non-Participating	4792354	445350
GSH3048	Vacant Lot Non-Participating	4792327	445353
GSH3049	Vacant Lot Non-Participating	4792383	445401
GSH3050	Vacant Lot Non-Participating	4792881	445326
GSH3051	Vacant Lot Non-Participating	4796960	446180

Receptor ID Number	Receptor Type	Easting	Northing
GSH3067	Vacant Lot Non-Participating	4788022	441275
GSH3068	Vacant Lot Non-Participating	4789583	438962
GSH3069	Vacant Lot Participating	4790133	441504
GSH3080	Vacant Lot Non-Participating	4806178	447537
GSH3081	Vacant Lot Non-Participating	4805364	446661
GSH3082	Vacant Lot Non-Participating	4804277	445662
GSH3084	Vacant Lot Participating	4801796	448237
GSH3085	Vacant Lot Non-Participating	4800680	446184
GSH3087	Vacant Lot Non-Participating	4799428	448035
GSH326	Non-Participating	4797589	446560
GSH327	Non-Participating	4797569	446565
GSH328	Non-Participating	4797603	446594
GSH329	Non-Participating	4797579	446629
GSH330	Non-Participating	4797565	446745
GSH331	Non-Participating	4797613	446740
GSH332	Non-Participating	4797288	446791
GSH333	Non-Participating	4797357	446849
GSH334	Non-Participating	4797357	446815
GSH335	Non-Participating	4797100	446801
GSH336	Non-Participating	4797002	446925
GSH337	Non-Participating	4796983	446917
GSH338	Non-Participating	4796957	446947
GSH339	Non-Participating	4796894	446928
GSH340	Non-Participating	4796927	446924
GSH341	Non-Participating	4796612	446730
GSH342	Non-Participating	4796597	446758
GSH343	Non-Participating	4796152	446797
GSH344	Non-Participating	4796191	446860
GSH345	Participating	4796071	447175
GSH346	Participating	4796114	447211
GSH347	Participating	4796046	447126
GSH348	Non-Participating	4795693	446890
GSH349	Non-Participating	4795666	446887
GSH350	Non-Participating	4795634	446911
GSH351	Participating	4795831	447041
GSH352	Participating	4795818	447056
GSH353	Participating	4795841	447052
GSH354	Participating	4795874	447050
GSH355	Participating	4794713	445808
GSH356	Non-Participating	4794335	447079
GSH357	Non-Participating	4794327	447104
GSH358	Non-Participating	4794355	447121
GSH359	Participating	4794180	447126
GSH360	Participating	4794164	447156
GSH361	Non-Participating	4793914	447132
GSH362	Non-Participating	4793917	447174
GSH363	Non-Participating	4793881	447156
GSH364	Non-Participating	4793848	447199
GSH365	Non-Participating	4793902	447206
GSH366	Non-Participating	4793656	447368
GSH367	Non-Participating	4793197	447210
GSH368	Non-Participating	4793185	447237
GSH369	Non-Participating	4793216	447245
GSH370	Non-Participating	4793224	447294
GSH371	Non-Participating	4792987	447223
GSH372	Non-Participating	4792956	447240
GSH373	Non-Participating	4792902	447221
GSH374	Non-Participating	4792889	447251
GSH375	Non-Participating	4792490	447260
GSH376	Non-Participating	4792507	447327
GSH377	Non-Participating	4791437	447478
GSH378	Non-Participating	4791405	447482

Receptor ID Number	Receptor Type	Easting	Northing
GSH379	Non-Participating	4791418	447523
GSH380	Non-Participating	4791410	447548
GSH381	Non-Participating	4791381	447539
GSH382	Non-Participating	4791043	447606
GSH383	Non-Participating	4791028	447565
GSH384	Non-Participating	4791040	447573
GSH385	Non-Participating	4790558	447885
GSH386	Non-Participating	4790538	447930
GSH387	Non-Participating	4788974	447384
GSH388	Non-Participating	4788916	447354
GSH389	Non-Participating	4788935	447411
GSH39	Non-Participating	4787095	435873
GSH393	Non-Participating	4788826	446788
GSH394	Non-Participating	4788864	446801
GSH395	Non-Participating	4788902	448464
GSH396	Non-Participating	4788870	448456
GSH397	Non-Participating	4788869	448504
GSH398	Non-Participating	4788840	448500
GSH399	Non-Participating	4789252	448784
GSH40	Non-Participating	4787124	435859
GSH400	Non-Participating	4789207	448781
GSH401	Non-Participating	4789182	448821
GSH402	Non-Participating	4789013	448706
GSH403	Non-Participating	4788967	448740
GSH404	Non-Participating	4788983	448781
GSH41	Non-Participating	4787135	435875
GSH42	Non-Participating	4787164	435880
GSH43	Non-Participating	4787195	435890
GSH44	Non-Participating	4787234	435919
GSH45	Non-Participating	4787183	435811
GSH456	Non-Participating	4789646	445858
GSH457	Non-Participating	4789675	445868
GSH458	Non-Participating	4789690	445866
GSH459	Non-Participating	4789721	445873
GSH46	Non-Participating	4787168	435811
GSH460	Non-Participating	4789714	445914
GSH461	Non-Participating	4789730	445910
GSH462	Non-Participating	4789747	445907
GSH463	Non-Participating	4789762	445905
GSH464	Non-Participating	4789994	445492
GSH465	Non-Participating	4790013	445539
GSH466	Non-Participating	4790030	445513
GSH467	Non-Participating	4790064	445535
GSH468	Non-Participating	4790111	445531
GSH469	Non-Participating	4790061	445600
GSH47	Non-Participating	4787163	435823
GSH470	Non-Participating	4790039	445625
GSH471	Non-Participating	4790092	445775
GSH472	Non-Participating	4790110	445766
GSH473	Non-Participating	4790126	445791
GSH474	Non-Participating	4790142	445741
GSH475	Non-Participating	4790613	445532
GSH476	Non-Participating	4790654	445515
GSH477	Non-Participating	4790924	445489
GSH478	Non-Participating	4790901	445473
GSH479	Non-Participating	4790920	445542
GSH48	Non-Participating	4787258	435924
GSH480	Non-Participating	4791300	445424
GSH481	Non-Participating	4791311	445500
GSH482	Participating	4791230	445658
GSH483	Participating	4791234	445682
GSH484	Participating	4791214	445705

Receptor ID Number	Receptor Type	Easting	Northing
GSH485	Participating	4791244	445737
GSH486	Participating	4791269	445711
GSH487	Participating	4791261	445681
GSH488	Participating	4791278	445727
GSH489	Participating	4791705	444912
GSH49	Non-Participating	4787291	435954
GSH490	Participating	4791728	444952
GSH491	Participating	4791677	444970
GSH492	Participating	4791633	444890
GSH493	Participating	4791653	444879
GSH494	Participating	4791672	444877
GSH495	Non-Participating	4791940	445487
GSH496	Non-Participating	4791981	445490
GSH497	Participating	4792062	445495
GSH498	Participating	4792068	445515
GSH499	Participating	4792077	445626
GSH50	Non-Participating	4787584	435804
GSH500	Participating	4792106	445533
GSH501	Participating	4792130	445541
GSH502	Participating	4792133	445576
GSH503	Participating	4792116	445561
GSH504	Participating	4792102	445476
GSH505	Participating	4792094	445370
GSH506	Participating	4792052	445336
GSH507	Non-Participating	4792202	445354
GSH508	Non-Participating	4792198	445321
GSH509	Non-Participating	4792822	445698
GSH51	Non-Participating	4787456	435974
GSH510	Non-Participating	4792839	445700
GSH511	Participating	4792910	445205
GSH512	Non-Participating	4793124	445216
GSH513	Non-Participating	4793008	445320
GSH514	Non-Participating	4793002	445379
GSH515	Non-Participating	4793006	445395
GSH516	Non-Participating	4793028	445384
GSH517	Non-Participating	4793044	445349
GSH518	Non-Participating	4792994	445368
GSH519	Non-Participating	4793319	445141
GSH52	Non-Participating	4787481	435980
GSH520	Non-Participating	4793365	445122
GSH521	Non-Participating	4793358	445162
GSH522	Non-Participating	4793796	445102
GSH523	Non-Participating	4793778	445244
GSH524	Non-Participating	4793737	445268
GSH525	Non-Participating	4793784	445273
GSH526	Non-Participating	4793771	445293
GSH527	Non-Participating	4793770	445338
GSH528	Non-Participating	4793800	445334
GSH529	Non-Participating	4793802	445320
GSH53	Non-Participating	4787656	436078
GSH530	Participating	4794499	444368
GSH531	Participating	4794564	444408
GSH532	Participating	4794579	444404
GSH533	Non-Participating	4794251	445158
GSH534	Non-Participating	4794254	445190
GSH535	Non-Participating	4794286	445204
GSH536	Non-Participating	4794553	445186
GSH537	Non-Participating	4794547	445127
GSH538	Non-Participating	4794483	445005
GSH539	Non-Participating	4794507	445006
GSH54	Non-Participating	4787567	436116
GSH540	Non-Participating	4794535	444958

Receptor ID Number	Receptor Type	Easting	Northing
GSH541	Non-Participating	4795496	444946
GSH542	Non-Participating	4795508	444994
GSH543	Non-Participating	4796000	444739
GSH544	Non-Participating	4796014	444765
GSH545	Non-Participating	4795961	444759
GSH546	Non-Participating	4795964	444778
GSH547	Non-Participating	4795919	444727
GSH548	Non-Participating	4795990	444807
GSH549	Participating	4795827	444903
GSH55	Non-Participating	4787603	436195
GSH550	Non-Participating	4796385	444751
GSH551	Non-Participating	4796357	444766
GSH552	Non-Participating	4796278	444898
GSH553	Non-Participating	4796297	444852
GSH554	Non-Participating	4796293	444828
GSH555	Non-Participating	4796276	444873
GSH556	Non-Participating	4796584	444800
GSH557	Non-Participating	4796571	444835
GSH558	Non-Participating	4796611	444866
GSH559	Non-Participating	4796896	444673
GSH56	Non-Participating	4787609	436220
GSH560	Non-Participating	4796876	445376
GSH561	Non-Participating	4796853	445397
GSH562	Non-Participating	4796829	445369
GSH563	Non-Participating	4796844	445345
GSH564	Non-Participating	4797953	444506
GSH565	Non-Participating	4798017	444600
GSH566	Non-Participating	4798011	444612
GSH567	Non-Participating	4798053	444605
GSH568	Non-Participating	4797735	444626
GSH569	Non-Participating	4797740	444645
GSH57	Non-Participating	4787656	436266
GSH570	Non-Participating	4797729	444646
GSH58	Non-Participating	4787695	436295
GSH59	Non-Participating	4787732	436325
GSH60	Non-Participating	4787803	436364
GSH61	Non-Participating	4787821	436378
GSH62	Non-Participating	4788419	436507
GSH63	Non-Participating	4788439	436535
GSH64	Non-Participating	4788408	436562
GSH65	Non-Participating	4788596	436572
GSH66	Non-Participating	4788657	436562
GSH67	Non-Participating	4788628	436544
GSH68	Non-Participating	4788801	436556
GSH69	Non-Participating	4788805	436632
GSH70	Non-Participating	4788807	436664
GSH71	Non-Participating	4789108	436718
GSH72	Non-Participating	4789147	436705
GSH73	Non-Participating	4789096	436756
GSH74	Non-Participating	4789537	436812
GSH75	Non-Participating	4789559	436813
GSH757	Participating	4789026	439156
GSH758	Participating	4789001	439200
GSH759	Participating	4788974	439153
GSH76	Non-Participating	4789585	436839
GSH760	Participating	4789008	439120
GSH761	Non-Participating	4789407	439208
GSH762	Non-Participating	4789459	439271
GSH763	Non-Participating	4789483	439279
GSH764	Non-Participating	4789459	439295
GSH765	Non-Participating	4789435	439291
GSH766	Non-Participating	4788410	439465

Receptor ID Number	Receptor Type	Easting	Northing
GSH767	Non-Participating	4788382	439476
GSH768	Non-Participating	4788418	439509
GSH769	Non-Participating	4788402	439554
GSH77	Non-Participating	4789554	436868
GSH770	Participating	4788041	439643
GSH771	Participating	4787986	439692
GSH772	Non-Participating	4787271	439315
GSH773	Non-Participating	4787218	439334
GSH774	Non-Participating	4787195	439276
GSH775	Non-Participating	4787160	439287
GSH776	Non-Participating	4787163	439316
GSH777	Non-Participating	4787170	439343
GSH778	Non-Participating	4787178	439366
GSH779	Non-Participating	4787815	439671
GSH78	Non-Participating	4789928	436577
GSH780	Non-Participating	4787796	439659
GSH781	Non-Participating	4787816	439704
GSH782	Non-Participating	4787786	439723
GSH783	Non-Participating	4787670	439608
GSH784	Non-Participating	4787697	439779
GSH785	Non-Participating	4787833	440033
GSH786	Non-Participating	4787698	440000
GSH787	Non-Participating	4787705	439942
GSH788	Non-Participating	4787694	440040
GSH789	Non-Participating	4787779	440354
GSH79	Non-Participating	4790044	436959
GSH790	Non-Participating	4787741	440376
GSH791	Non-Participating	4787786	440415
GSH792	Non-Participating	4787826	440700
GSH793	Non-Participating	4787775	440679
GSH794	Non-Participating	4787759	440716
GSH795	Participating	4789798	439537
GSH796	Participating	4789835	439575
GSH797	Participating	4789871	439548
GSH798	Non-Participating	4791090	438943
GSH799	Non-Participating	4791126	438975
GSH80	Non-Participating	4790112	436999
GSH800	Non-Participating	4791090	439001
GSH801	Non-Participating	4791109	439036
GSH802	Non-Participating	4790837	439353
GSH803	Non-Participating	4790850	439378
GSH804	Non-Participating	4791397	439554
GSH805	Non-Participating	4791361	439505
GSH806	Non-Participating	4791320	439535
GSH807	Non-Participating	4791426	439500
GSH808	Non-Participating	4791893	438967
GSH809	Non-Participating	4791876	438955
GSH81	Non-Participating	4790052	437009
GSH810	Non-Participating	4791840	438972
GSH811	Non-Participating	4791841	439014
GSH812	Non-Participating	4791814	438964
GSH813	Non-Participating	4792096	439060
GSH814	Non-Participating	4792133	439071
GSH815	Non-Participating	4792132	439093
GSH816	Non-Participating	4792102	439097
GSH817	Non-Participating	4792080	439117
GSH818	Non-Participating	4792138	439134
GSH819	Non-Participating	4792137	439114
GSH82	Non-Participating	4790173	437059
GSH820	Non-Participating	4792161	439527
GSH821	Non-Participating	4792115	439541
GSH83	Non-Participating	4790318	437095

Receptor ID Number	Receptor Type	Easting	Northing
GSH84	Non-Participating	4790351	437088
GSH847	Non-Participating	4793512	441191
GSH848	Non-Participating	4793475	441190
GSH849	Non-Participating	4793459	441359
GSH85	Non-Participating	4790357	437079
GSH850	Non-Participating	4793449	441458
GSH851	Non-Participating	4793142	441384
GSH852	Non-Participating	4793170	441399
GSH853	Non-Participating	4793128	441415
GSH854	Non-Participating	4793130	441042
GSH855	Non-Participating	4793221	441428
GSH856	Non-Participating	4792981	441415
GSH857	Non-Participating	4793091	441604
GSH858	Non-Participating	4793181	441603
GSH859	Non-Participating	4793306	441677
GSH86	Non-Participating	4790593	437199
GSH860	Non-Participating	4793652	441647
GSH861	Non-Participating	4793585	441655
GSH862	Non-Participating	4793563	441673
GSH863	Non-Participating	4793559	441693
GSH864	Non-Participating	4793548	441678
GSH865	Non-Participating	4792734	440955
GSH866	Non-Participating	4792751	440984
GSH867	Non-Participating	4792785	441470
GSH868	Non-Participating	4792764	441447
GSH869	Non-Participating	4792687	441446
GSH87	Non-Participating	4790664	437216
GSH870	Non-Participating	4792623	441241
GSH871	Non-Participating	4792345	441292
GSH872	Non-Participating	4792361	441314
GSH873	Non-Participating	4792357	441388
GSH874	Non-Participating	4792035	441208
GSH875	Non-Participating	4792060	441184
GSH876	Non-Participating	4791847	441114
GSH877	Non-Participating	4791813	441077
GSH878	Non-Participating	4791860	441144
GSH879	Non-Participating	4791860	441161
GSH88	Non-Participating	4790656	437402
GSH880	Participating	4791958	441343
GSH881	Participating	4791969	441388
GSH882	Participating	4791978	441417
GSH883	Non-Participating	4791605	441158
GSH884	Non-Participating	4791567	441172
GSH885	Non-Participating	4791607	441225
GSH886	Participating	4791469	441552
GSH887	Participating	4791417	441480
GSH888	Participating	4791444	441465
GSH889	Non-Participating	4790698	441229
GSH89	Non-Participating	4790674	437194
GSH890	Non-Participating	4790705	441332
GSH891	Participating	4790753	441507
GSH892	Participating	4790763	441535
GSH893	Participating	4790753	441566
GSH894	Non-Participating	4790553	441430
GSH895	Non-Participating	4790518	441394
GSH896	Non-Participating	4790457	441587
GSH897	Non-Participating	4790476	441620
GSH898	Non-Participating	4790069	441597
GSH899	Non-Participating	4790066	441634
GSH90	Non-Participating	4790999	437275
GSH900	Non-Participating	4789804	441483
GSH901	Non-Participating	4789783	441408

Receptor ID Number	Receptor Type	Easting	Northing
GSH902	Non-Participating	4789427	441401
GSH903	Non-Participating	4789474	441416
GSH904	Non-Participating	4789473	441473
GSH905	Non-Participating	4789437	441447
GSH906	Non-Participating	4789566	441663
GSH907	Non-Participating	4789584	441686
GSH908	Non-Participating	4789588	441697
GSH909	Non-Participating	4789334	441705
GSH91	Non-Participating	4791206	437481
GSH910	Non-Participating	4789333	441734
GSH911	Non-Participating	4789162	441754
GSH912	Non-Participating	4789191	441784
GSH913	Non-Participating	4789163	441806
GSH914	Non-Participating	4789183	441824
GSH915	Non-Participating	4789017	441259
GSH916	Non-Participating	4788971	441265
GSH917	Non-Participating	4789013	441301
GSH918	Non-Participating	4788992	441334
GSH919	Non-Participating	4788976	441887
GSH92	Non-Participating	4791235	437475
GSH920	Non-Participating	4788983	441861
GSH921	Non-Participating	4788028	441030
GSH922	Non-Participating	4787987	441043
GSH923	Non-Participating	4787856	441069
GSH924	Non-Participating	4787995	441106
GSH925	Non-Participating	4787604	441082
GSH926	Non-Participating	4787653	441086
GSH927	Non-Participating	4787681	441078
GSH935	Non-Participating	4788464	441577
GSH936	Non-Participating	4788459	441612
GSH937	Non-Participating	4788441	441825
GSH938	Non-Participating	4788418	441849
GSH939	Non-Participating	4788393	441848

Note: All co-ordinates are provided in NAD 83 Zone 17

Appendix C

Parcel Boundary Setback Reduction Analysis

NextEra Energy Canada, ULC

GOSHEN WIND ENERGY CENTRE - PARCEL BOUNDARY SETBACK REDUCTION ANALYSIS

JUSTIFICATION REPORT

AUGUST 2012

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1. INTRODUCTION

1.1 Purpose

The purpose of this report is to provide an assessment of proposed wind turbine locations within the Goshen Wind Energy Centre that do not meet the required setback of "turbine height minus blades" from the base of the wind turbine to the boundary of parcels of land on which the turbine is located.

IBI Group was retained by NextEra Energy Canada, ULC to undertake an analysis of Sixteen (16) turbines within the Goshen Wind Energy Centre. The analysis will look at what impacts the reduced setback may have on nearby business, infrastructure, properties or land use activities, and will describe any required preventative measures to be used to address any adverse impacts.

From an agricultural planning perspective, it is generally considered advantageous to farmers to have turbines located as close as possible to lot lines (or fence lines located between fields), in order to cause the least amount of disruption to farming practices, in particular field crop planting and harvesting. This coincides with traditional locations for farm access roads along fence lines, which in turn are preferred locations for new or improved turbine access roads.

1.2 Legislation

Ontario Regulation 359/09 outlines the regulations for the development and approval of renewable energy projects within the Province of Ontario. Section 53 of the regulation outlines setback requirements for Class 3, 4, and 5 wind facilities, with the Goshen Wind Energy Centre being a Class 4 wind facility. It states in subsection 53 (1) (b) that no person shall erect a Class 4 wind facility unless:

> ***the distance between the base of the wind turbine and all boundaries of the parcel of land on which the wind turbine is constructed, installed or expanded is equivalent to, at a minimum, the height of the wind turbine, excluding the length of any blades.***

And furthermore under subsection 53 (3), states that clause 53 (1) (b) does not apply if the distance from the base of the turbine to the property boundary is at least blade length plus 10 metres and:

> ***as part of an application for the issue of a renewable energy approval or a certificate of approval in respect of the construction, installation or expansion of the wind turbine, the person who is constructing, installing or expanding the wind turbine submits a written assessment,***

(i) demonstrating that the proposed location of the wind turbine will not result in adverse impacts on nearby business, infrastructure, properties or land use activities, and

(ii) describing any preventative measures that are required to be implemented to address the possibility of any adverse impacts mentioned in subclause (i).

This report is intended to fulfill the above requirements of subsection 53 (3) of Ontario Regulation 359/09.

1.3 Project Description

The proposed Goshen Wind Energy centre is located in south-western Ontario, in the Municipality of Bluewater and Municipality of South Huron, of Huron County, Ontario. More specifically, the area being studied for the wind farm components is located generally east of Klondyke Road, south of Rogerville Road, west of Parr Line and north of Mount Carmel Drive. Project components will be installed on privately-owned agricultural lots within this area. It is anticipated that the Project's collection system may be partially located on public Rights of Way.

The wind turbine technology proposed for the Project is the GE 1.6-100 Wind Turbine and the GE 1.56-100 Wind Turbine. With a total nameplate capacity of 102 MW, the Project is categorized as a Class 4 facility. Although NextEra is seeking a Renewable Energy Approval (REA) for up to 72 wind turbines, only 63 will be constructed for the Project. These turbines have a hub height of 80 metres, with a blade length of 50 metres. Based on this turbine model the absolute minimum setback from a property boundary would be 60 metres (blade length + 10 metres). However, in the event that the turbines are sited closer than 60 metres, an agreement is required which would allow for a setback less than 60 metres (blade length + 10 metres).

For this project there are Sixteen (16) turbines which require justification for the reduced property boundary setback.

TURBINE NO.	Host Land Parcel		Turbine Distance from Lot Line (metres)	Direction of Neighbouring Land Parcel from Turbine	Neighbouring Land Parcel		Notes
	Lot	Concession			Lot	Concession	
4	Pt Lot 13	12	76	north	Pt Lot 14	10	Assessment Conducted
8	Pt Lot 11	13	73.4	north	Lot 11 & 12, Pt Lot 11	14, 13	Assessment Conducted
17	Pt Lot 11	18	79.3	north	Pt 11	18	Assessment Conducted
21	15, Pt Lot 15	16	62.7	south	13	16	Assessment Conducted
35	17	8	73.2	east	18	7	Assessment Conducted
37	8	16	17.9	south	7 & W1/2 Lot 6	16	Assessment Conducted /Agreement will be in place as per Section 52(2) (b)
38	E1/2 Lot 6	16	64	west	7 & W1/2 Lot 6	16	Assessment Conducted
41	7	13	37.6	south	E1/2 Lot 6, 6	14, 13	Assessment Conducted /Agreement will be in place as per Section 52(2) (b)
46	3	10	64	south	Pt Lot18	S Boundary	Assessment Conducted
49	Pt Lot 8	8	78.8	south	Pt Lot 7	8	Assessment Conducted
53	N1/2 Lot 7	20	65.4	south	Pt 6	20	Assessment Conducted
56	Pt Lot 16	22	22.9	south	Pt Lot 16, Pt Lot 17 & Pt Lot 22	22, 22 & S Boundary	Assessment Conducted /Agreement will be in place as per Section 52(2) (b)
65	23 & Pt Lot 13	7, 7	75.7	south	Pt Lot 22	7	Assessment Conducted
69	6 & 7	11	53.7	west	6 & Pt Lot 7	12	Assessment Conducted /Agreement will be in place as per Section 52(2) (b)
71	Pt Lot 15	10	46.6	south	Pt Lot 14& Pt Lot 15	12	Assessment Conducted /Agreement will be in place as per Section 52(2) (b)
84	12	River Aux Sauble	70	north	S1/2 Lot 11	River Aux Sauble	Assessment Conducted

2. ANALYSIS

The methodology for this report was to identify turbines that were less than 80 metres from a lot line; undertake an analysis of the local surrounding land use characteristics; determine the potential impacts of the wind turbine on the surrounding land uses; and discuss what if any preventative measures should be employed to mitigate such impacts.

2.1 Turbine 4 – Part Lot 13, Con 10

2.1.1 DESCRIPTION

Turbine 4 is located 76.0 metres from the closest lot line (north side lot line) which is 4.0 metres less than required as the standard setback without undertaking any further analysis. The adjacent lands are almost entirely used for field crop purposes with no buildings, structures, or infrastructure located on the lands. A small tributary is located approximately 300 metres northwest of the turbine, while a small woodlot lot is located approximately 400 metres northeast of the turbine. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 4 Map in Appendix 1).

2.1.2 POTENTIAL IMPACTS

Impacts to the neighbouring parcel from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not changed by a reduction of 4.0 metres. There is no adverse impact on nearby properties or land use activities.

2.1.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include design certification of the wind turbine by professional engineers; regular maintenance and ongoing monitoring of the wind turbine by operations staff; and turbine shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.2 Turbine 8 – Pt Lot 11, Con 13

2.2.1 DESCRIPTION

Turbine 4 is located 73.4 metres from the closest lot line (north side lot line) which is 6.6 metres less than required as the standard setback without undertaking any further analysis. The adjacent lands are almost entirely used for field crop purposes with no buildings, structures, or infrastructure located on the lands. A small tributary is located approximately 300 metres northwest of the

turbine, while a small woodlot lot is located approximately 250 metres northeast of the turbine. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 8 Map in Appendix 1).

2.2.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 6.6 metres. There is no adverse impact on nearby properties or land use activities.

2.2.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.3 Turbine 17 –Part Lot 11, Con 18

2.3.1 DESCRIPTION

Turbine 17 is located 79.3 metres from the closest lot line (north side lot line) which is 0.7 metres less than required as the standard setback without undertaking any further analysis. The adjacent lands are characterized almost entirely as woodlot with a small area used for cultivating crops. Land use within the vicinity of the proposed turbine would be limited to the area used seasonally for cultivating crops (See Turbine 17 Map in Appendix 1).

2.3.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel to the north from the reduced setback may include damage to trees and/or crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 0.7 metres. There is no adverse impact on nearby properties or land use activities.

2.3.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring trees and crops, and reduce risk to human safety include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of

these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.4 Turbine 21 – Lot 14 & Pt Lot 15, Con 16

2.4.1 DESCRIPTION

Turbine 21 is located 62.7 metres from the closest lot line (south side lot line) which is 17.3 metres less than required as the standard setback without undertaking any further analysis. The adjacent lands are characterized almost entirely as cultivatable field with a small area woodlot located approximately 250 metres southeast of the turbine. A farm dwelling and farm related buildings are located approximately 600 metres southwest of the turbine. Land use within the vicinity of the proposed turbine would be limited to the area used seasonally for cultivating crops (See Turbine 21 Map in Appendix 1).

2.4.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel to the north from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 17.3 metres. There is no adverse impact on nearby properties or land use activities.

2.4.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops, and reduce risk to human safety include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.5 Turbine 35 – Lot 17, Con 8

2.5.1 DESCRIPTION

Turbine 35 is located 73.2 metres from the closest lot line (easterly rear lot line) which exceeds the absolute minimum requirement of blade length plus 10 metres (60 metres) and is only 6.8 metres less than required as the standard setback without undertaking any further analysis. The adjacent lands are characterized as almost entirely cultivable farm fields. A small woodlot is located approximately 100 metres from the turbine. The closest farm dwelling or building is located approximately 800 metres to the east. Land use within the vicinity of the proposed turbine would be limited to the area used seasonally for cultivating crops (See Turbine 35 Map in Appendix 1).

2.5.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to trees and/or crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 6.8 metres. There is no adverse impact on nearby properties or land use activities.

2.5.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring trees and crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.6 Turbine 37 – Lot 8, Con 16

2.6.1 DESCRIPTION

This turbine is located 17.9 metres from the closest lot line (southerly side lot line) which exceeds the absolute minimum requirement of blade length plus 10 metres (60 metres) and is 62.1 metres less than required as the standard setback without undertaking any further analysis. The adjacent lands are characterized as mostly cultivatable fields with a small woodlot located approximately 100 metres east of the turbine. In addition, the closest building is located over 700 metres to the southwest. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 37 Map in Appendix 1). Despite requiring an agreement for a reduced setback, further analysis is also required.

2.6.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops and/or trees as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 62.1 metres. There is no adverse impact on nearby properties or land use activities.

2.6.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.7 Turbine 38 – E 1/2 Lot 6, Con 16

2.7.1 DESCRIPTION

This turbine is located 64 metres from the closest lot line (westerly rear lot line) which is 16 metres less than required as the standard setback without undertaking any further analysis. The adjacent lands are characterized as mostly cultivatable fields with a small woodlot located approximately 350 metres east of the turbine. In addition, the closest building is located over 500 metres to the northwest. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 38 Map in Appendix 1).

2.7.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 16 metres. There is no adverse impact on nearby properties or land use activities.

2.7.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops and/or trees include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.8 Turbine 41 – Lot 7, Con 13

2.8.1 DESCRIPTION

This turbine is located 37.6 metres from the closest lot line (southerly side lot line) which is 42.4 metres less than required as the standard setback without undertaking any further analysis. The adjacent lands are characterized as mostly cultivatable fields with a small woodlot located approximately 450 metres west of the turbine. In addition, the closest building is located over 750 metres to the southeast. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 41 Map in Appendix 1). Despite requiring an agreement for a reduced setback, further analysis is also required.

2.8.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops and/or trees as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 42.4 metres. There is no adverse impact on nearby properties or land use activities.

2.8.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.9 Turbine 46 – Part Lot 3, Con 10

2.9.1 DESCRIPTION

This turbine is located 64 metres from the closest lot line (southerly side lot line) which is 16 metres less than required as the standard setback without undertaking any further analysis. The land is used for field crop purposes with buildings located greater than 700 metres south of the proposed turbine. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 46 Map in Appendix 1).

2.9.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 16 metres. There is no adverse impact on nearby properties or land use activities.

2.9.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.10 Turbine 49 – Part Lot 8, Con 8

2.10.1 DESCRIPTION

This turbine is located 78.8 metres from the closest lot line (southerly side lot line) which is 1.2 metres less than required as the standard setback without undertaking any further analysis. The land is used for field crop purposes with buildings located greater than 1000 metres west of the proposed turbine. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 49 Map in Appendix 1).

2.10.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 1.2 metres. There is no adverse impact on nearby properties or land use activities.

2.10.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.11 Turbine 53 – N ½ Lot 7, Con 20

2.11.1 DESCRIPTION

This turbine is located 65.4 metres from the closest lot line (southerly side lot line) which is 14.6 metres less than required as the standard setback without undertaking any further analysis. The land is used for field crop purposes with buildings located greater than 600 metres of the proposed turbine. A woodlot is located greater than 100 metres east of the proposed turbine. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 53 Map in Appendix 1).

2.11.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops and/or trees as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 14.6 metres. There is no adverse impact on nearby properties or land use activities.

2.11.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops and trees include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.12 Turbine 56 – Part Lot 16, Con 22

2.12.1 DESCRIPTION

This turbine is located 22.9 metres from the closest lot lines (southerly side lot lines) which is 57.1 metres less than required as the standard setback without undertaking any further analysis. The land is used for field crop purposes with buildings located greater than a kilometre south of the proposed turbine. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 56 Map in Appendix 1). Despite requiring an agreement for a reduced setback, further analysis is also required.

2.12.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 57.1 metres. There is no adverse impact on nearby properties or land use activities.

2.12.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.13 Turbine 65 – Lot 23, Con 7; Part Lot 22, Con 7

2.13.1 DESCRIPTION

This turbine is located 75.7 metres from the closest lot line (southerly side lot line) which is 4.3 metres less than required as the standard setback without undertaking any further analysis. The land is used for field crop purposes. Buildings are located greater than 500 metres southeast of the

proposed turbine. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 65 Map in Appendix 1).

2.13.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 4.3 metres. There is no adverse impact on nearby properties or land use activities.

2.13.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.14 Turbine 69 – Lot 6 & 7, Con 11

2.14.1 DESCRIPTION

Turbine 69 is located 53.7 metres from the closest lot line (westerly rear lot line) which is 26.3 metres less than required as the standard setback without undertaking any further analysis. The land is used for field crop purposes with buildings located greater than a kilometre west of the proposed turbine. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 69 Map in Appendix 1). Despite requiring an agreement for a reduced setback, further analysis is also required.

2.14.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 26.3 metres. There is no adverse impact on nearby properties or land use activities.

2.14.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather

instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.15 Turbine 71 – Part Lot 15, Con 10

2.15.1 DESCRIPTION

Turbine 71 is located 46.6 metres from the closest lot line (southerly side lot line) which is less than the minimum requirement of blade length plus 10 metres (60 metres) and is 33.3 metres less than required as the standard setback without undertaking any further analysis. The adjacent lands are used for field crop purposes with buildings and structures located to the southeast at an approximate distance of 700 metres. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 71 Map in Appendix 1). Despite requiring an agreement for a reduced setback, further analysis is also required.

2.15.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 33.3 metres. There is no adverse impact on nearby properties or land use activities.

2.15.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

2.16 Turbine 84 – Lot 12, Con River Aux Sauble

2.16.1 DESCRIPTION

This turbine is located 70 metres from the closest lot line (northerly side lot line) which is 10 metres less than required as the standard setback without undertaking any further analysis. The land is used for field crop purposes with buildings located greater than 700 metres north of the proposed turbine. Land use within the vicinity of the proposed turbine would be restricted to seasonal farming activities with otherwise minimal human activities (See Turbine 84 Map in Appendix 1).

2.16.2 POTENTIAL IMPACTS

Adverse impacts to the neighbouring parcel from the reduced setback may include damage to crops as a result of turbine failure. However, this impact is already present at an 80 metre setback and is not enhanced significantly by requesting a reduction of 10 metres. There is no adverse impact on nearby properties or land use activities.

2.16.3 PREVENTATIVE MEASURES

Preventative measures to address potential damage to neighbouring crops include certification of the wind turbine by professional engineers; ongoing regular maintenance and monitoring of the wind turbine by operations staff; and shutdown mechanisms and protocols in extreme weather instances to prevent damage to wind turbines. All of these measures are standard best practices and no additional preventative measures are required for the change in setback.

3. CONCLUSION

Based on the preceding analysis of the proposed sixteen (16) turbine locations considered for reduced setbacks from property boundaries, it is our opinion that there would be no adverse impacts as a result of the setback reductions, and that standard preventative measures implemented through best practices address any change in impacts that may be encountered.

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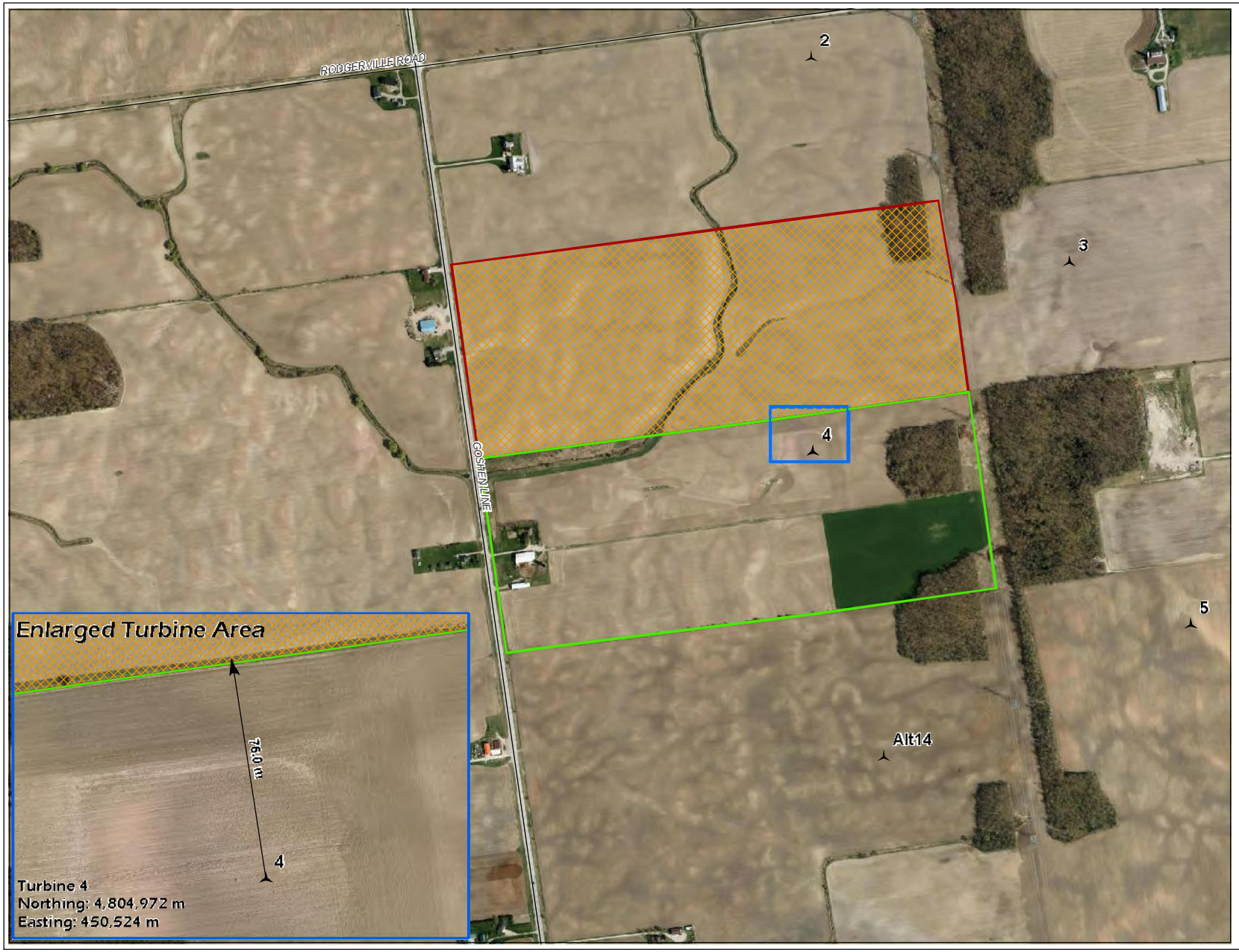
Appendix 1 – Individual Map Schedules



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre

Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Pt Lot 13, Con 10
- Neighbouring Land Parcel Pt Lot 14, Con 10,

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

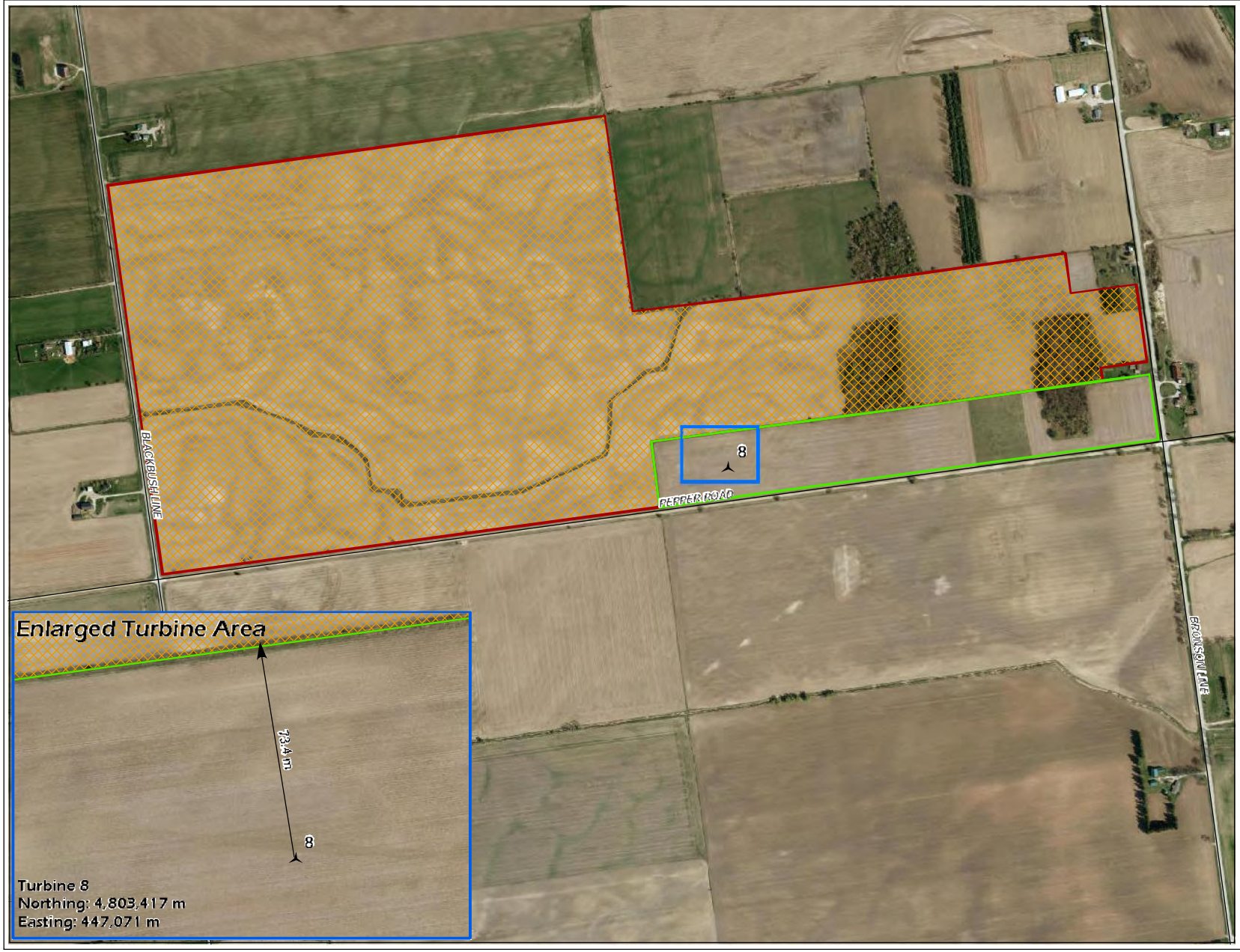
Turbine 4

0 100 200 400

Metres

1:7,500

NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre
Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

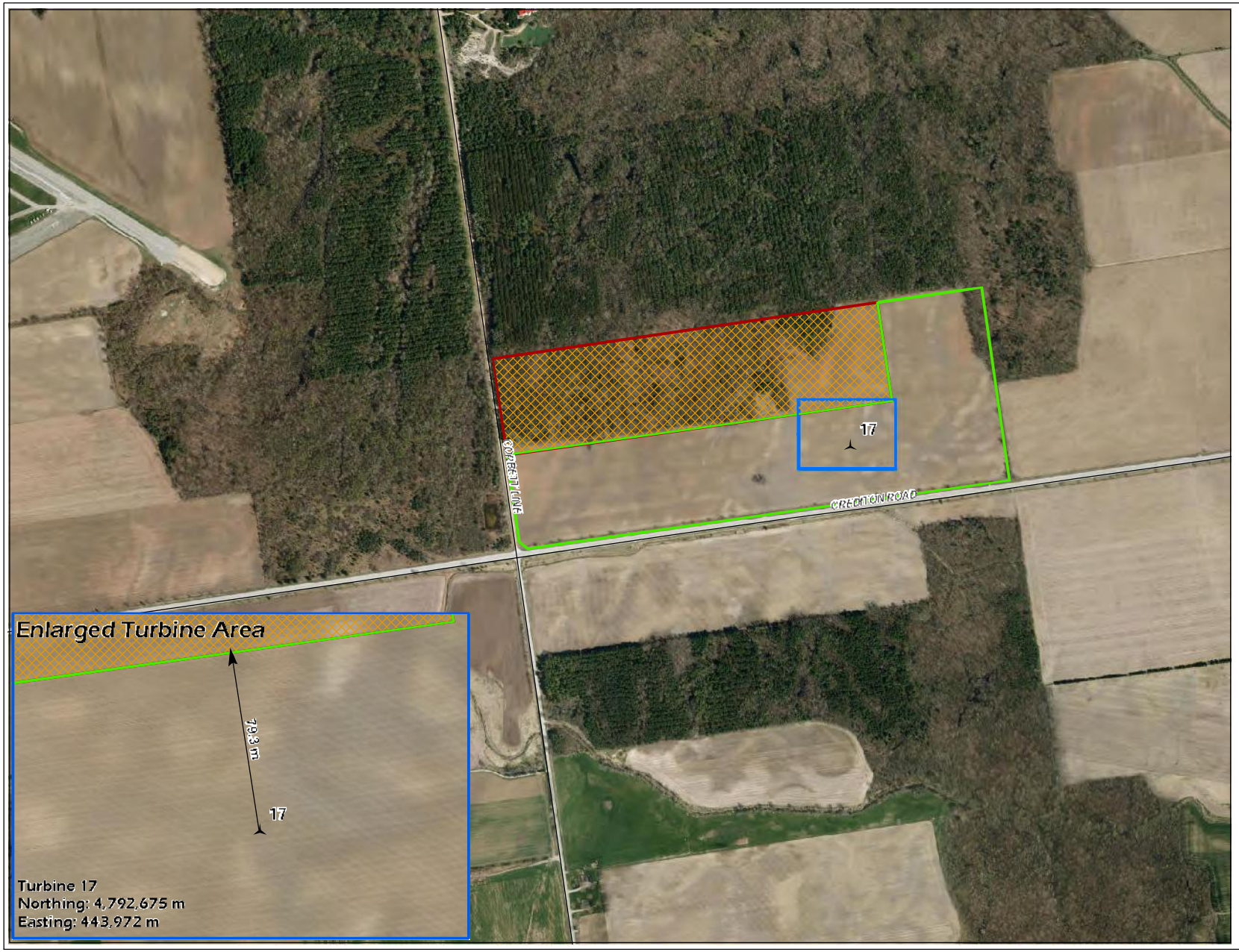
- Turbine Location
- Host Land Parcel Pt Lot 11, Con 13
- Neighbouring Land Parcel Lot 11 & 12, Con 14, Pt Lot 11, Con 13

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 8

0 100 200 400
Metres
1:7,500
NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre

Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Pt Lot 11, Con 18
- Neighbouring Land Parcel Pt Lot 11, Con 18

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 17

0 100 200 400

Metres

1:7,500

NAD 1983 UTM Zone 17N

NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre

Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Lot 14 & Pt Lot 15, Con 16
- Neighbouring Land Parcel Lot 13, Con 16

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

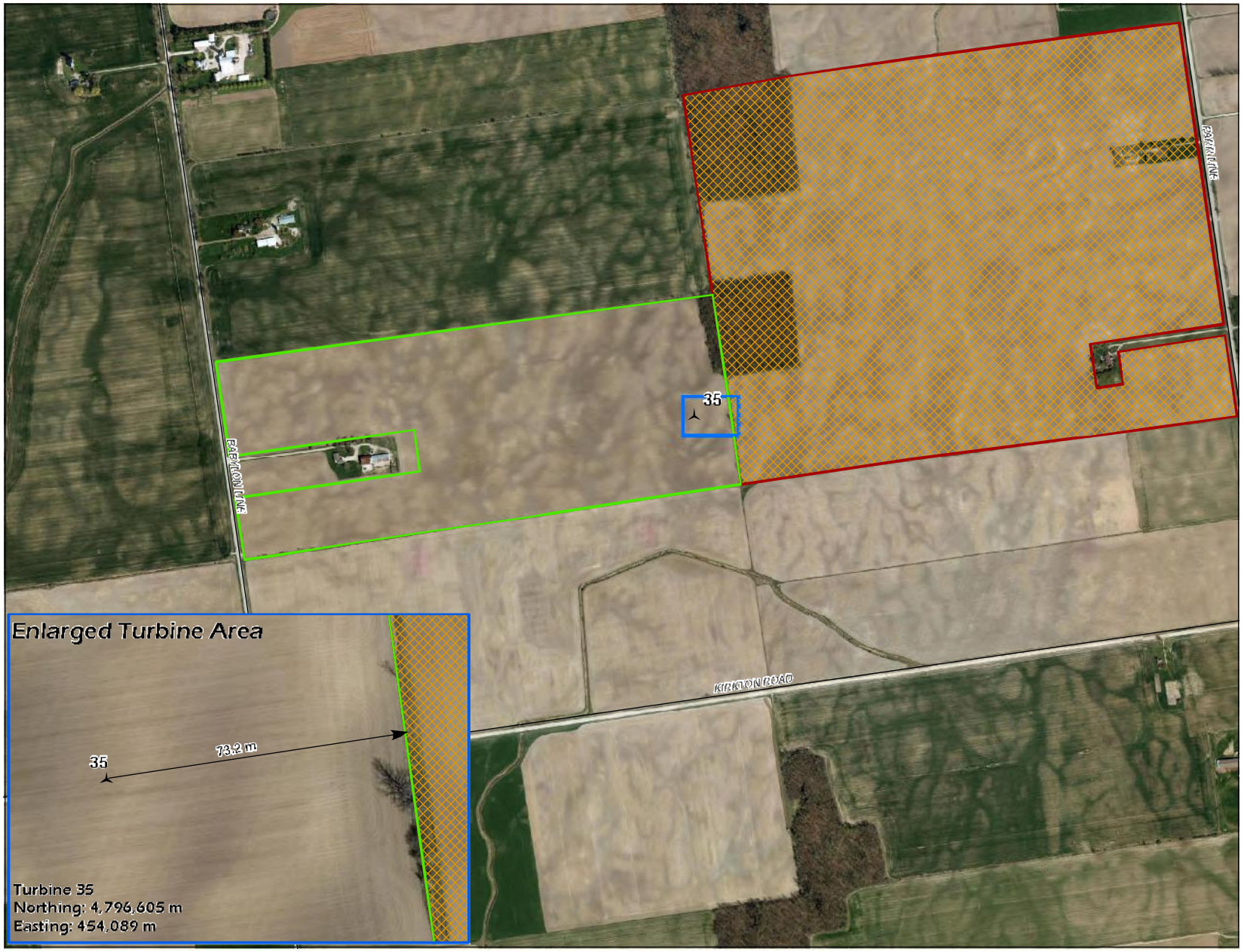
Turbine 21

0 100 200 400

Metres

1:7,500

NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre
Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Lot 17 , Con 8
- Neighbouring Land Parcel Lot 18, Con 7

Required Lotline Setback

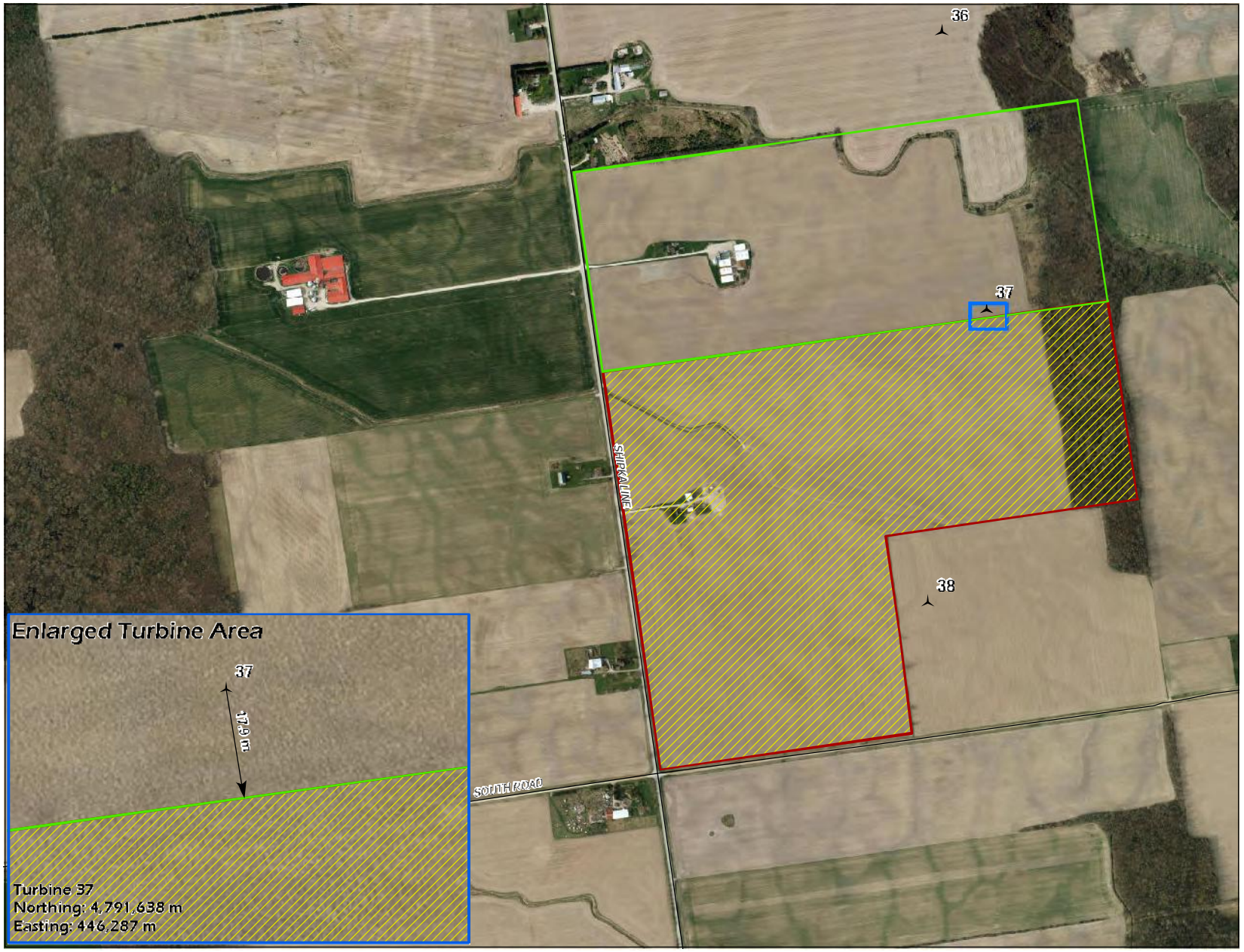
- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 35

0 100 200 400
Metres

1:7,500

NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre

Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Lot 8 , Con 16
- Neighbouring Land Parcel Lot 7 & W 1/2 of Lot 6, Con 16

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

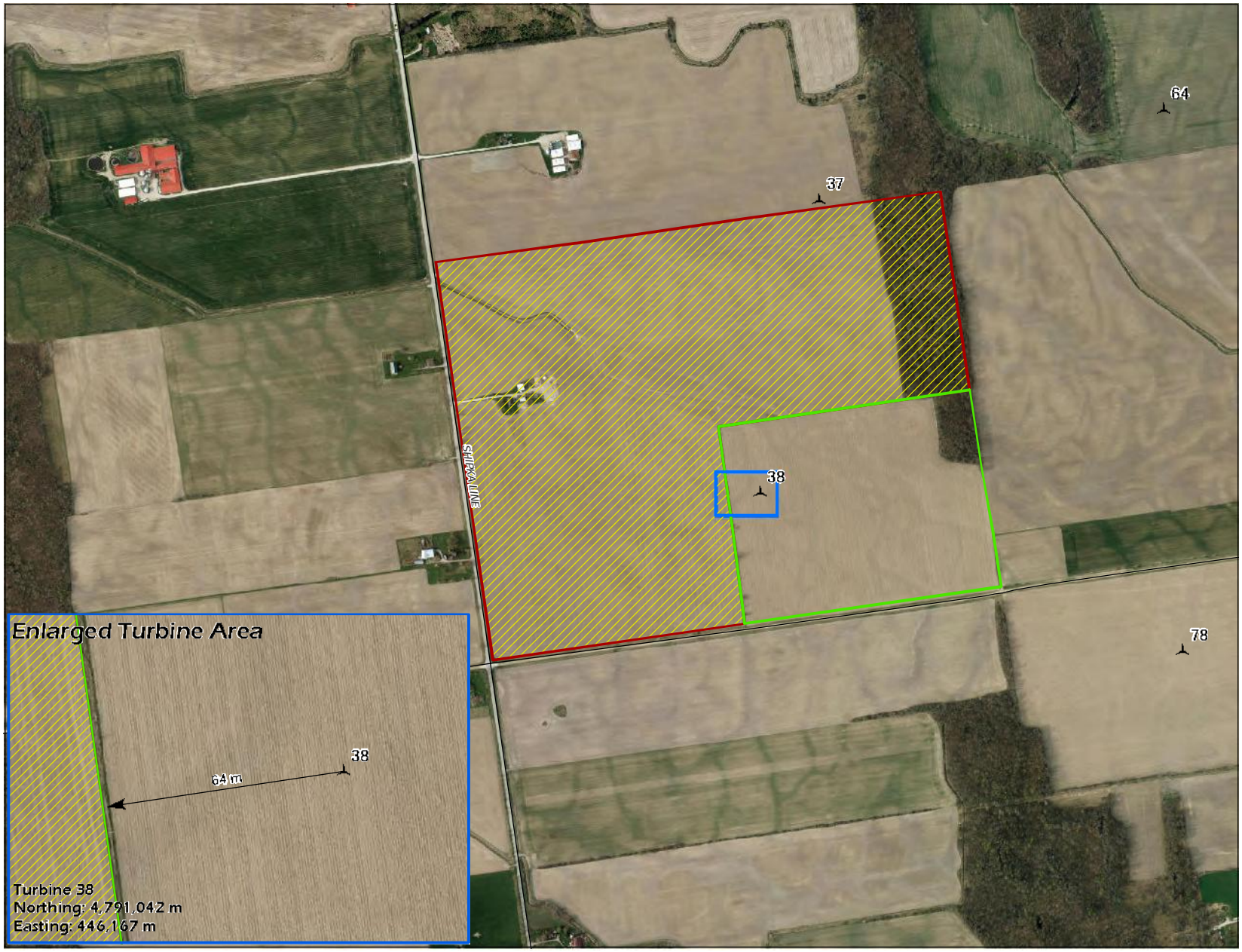
Turbine 37

0 100 200 400

Metres

1:7,500

NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre
Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel: E 1/2 Lot 6 , Con 16
- Neighbouring Land Parcel: Lot 7 & W 1/2 of Lot 6, Con 16

Required Lotline Setback

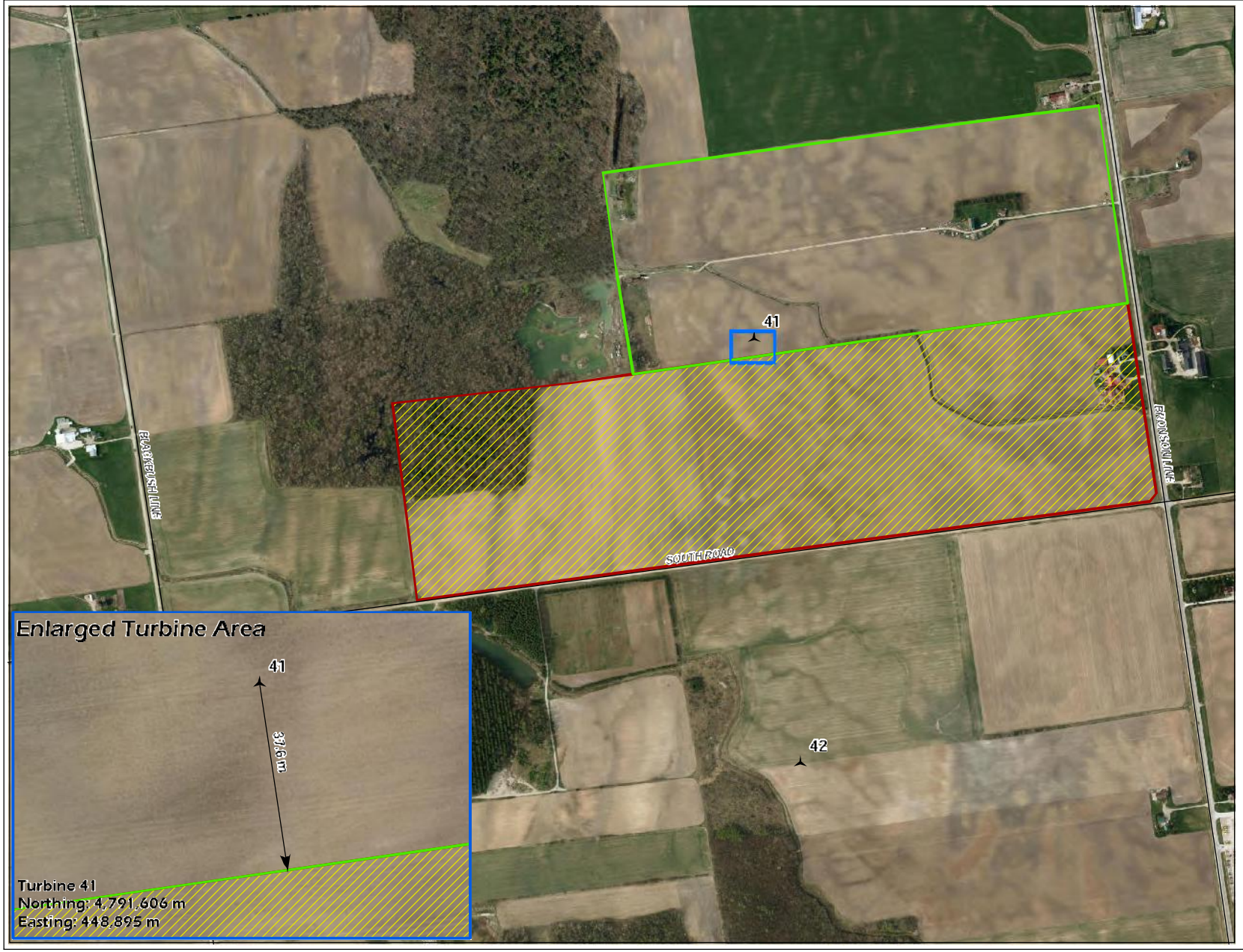
- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 38

0 100 200 400
Metres

1:7,500

NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre

Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Lot 7 , Con 13
- Neighbouring Land Parcel E 1/2 of Lot 6, Con 14; Lot 6, Con 13

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 41

0 100 200 400

Metres

1:7,500

NAD 1983 UTM Zone 17N

NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre
Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Pt Lot 3 , Con 10
- Neighbouring Land Parcel Pt Lot 18, Con S Boundary

Required Lotline Setback

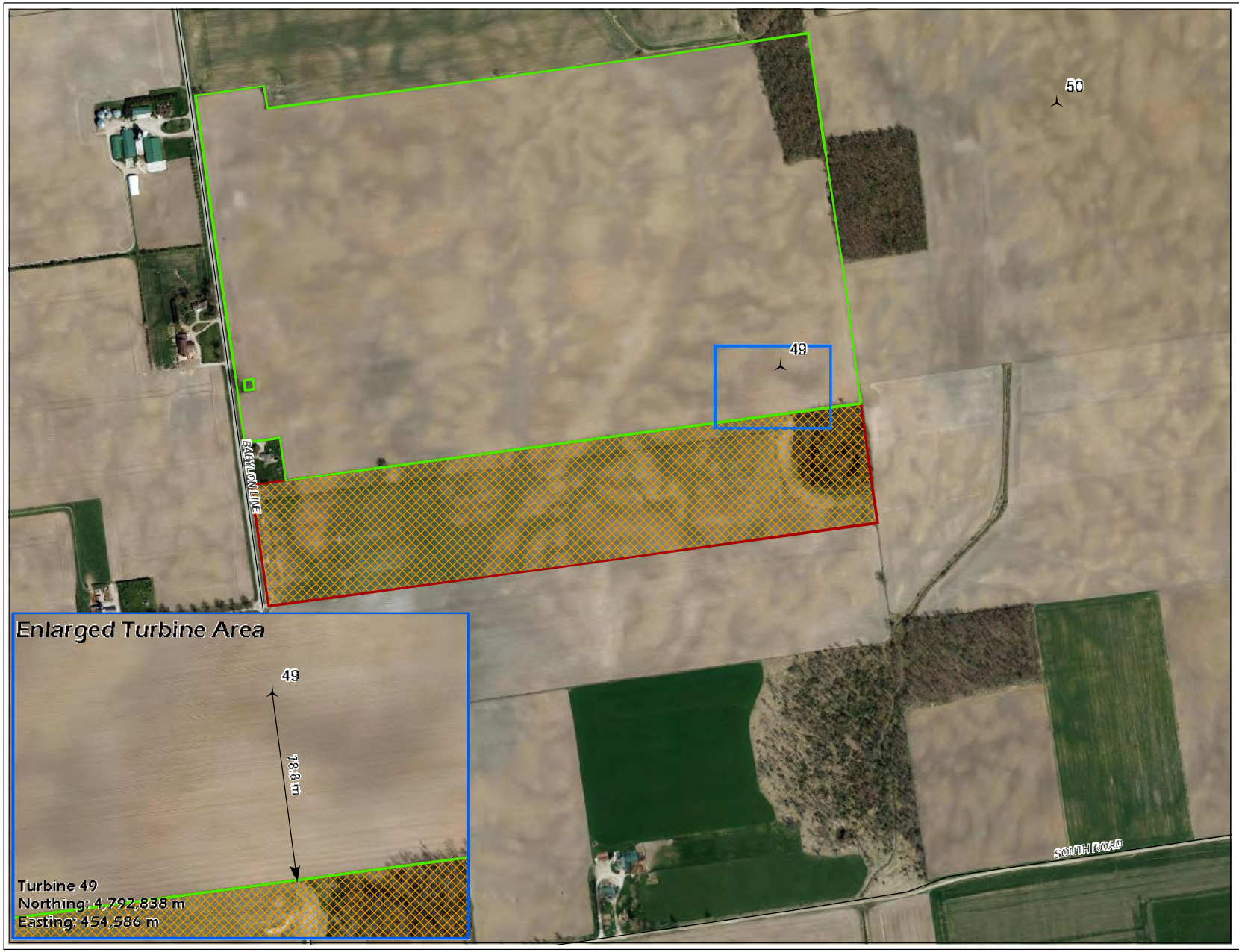
- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 46

0 100 200 400
Metres

1:7,500

NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre
Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

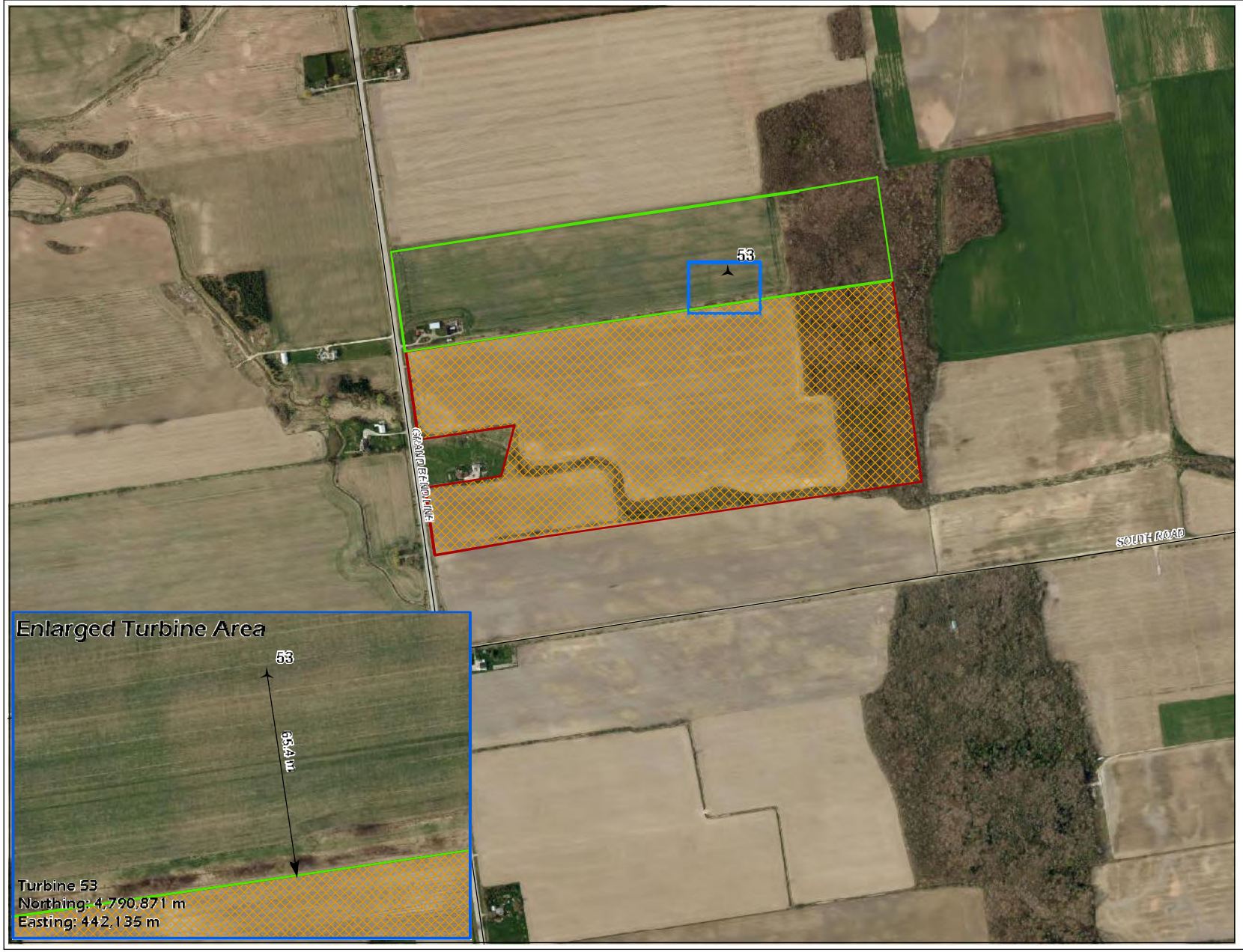
- Turbine Location
- Host Land Parcel Pt Lot 8 , Con 8
- Neighbouring Land Parcel Pt Lot 7, Con 8

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 49

0 80 160 320
Metres
1:6,000
NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre
Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

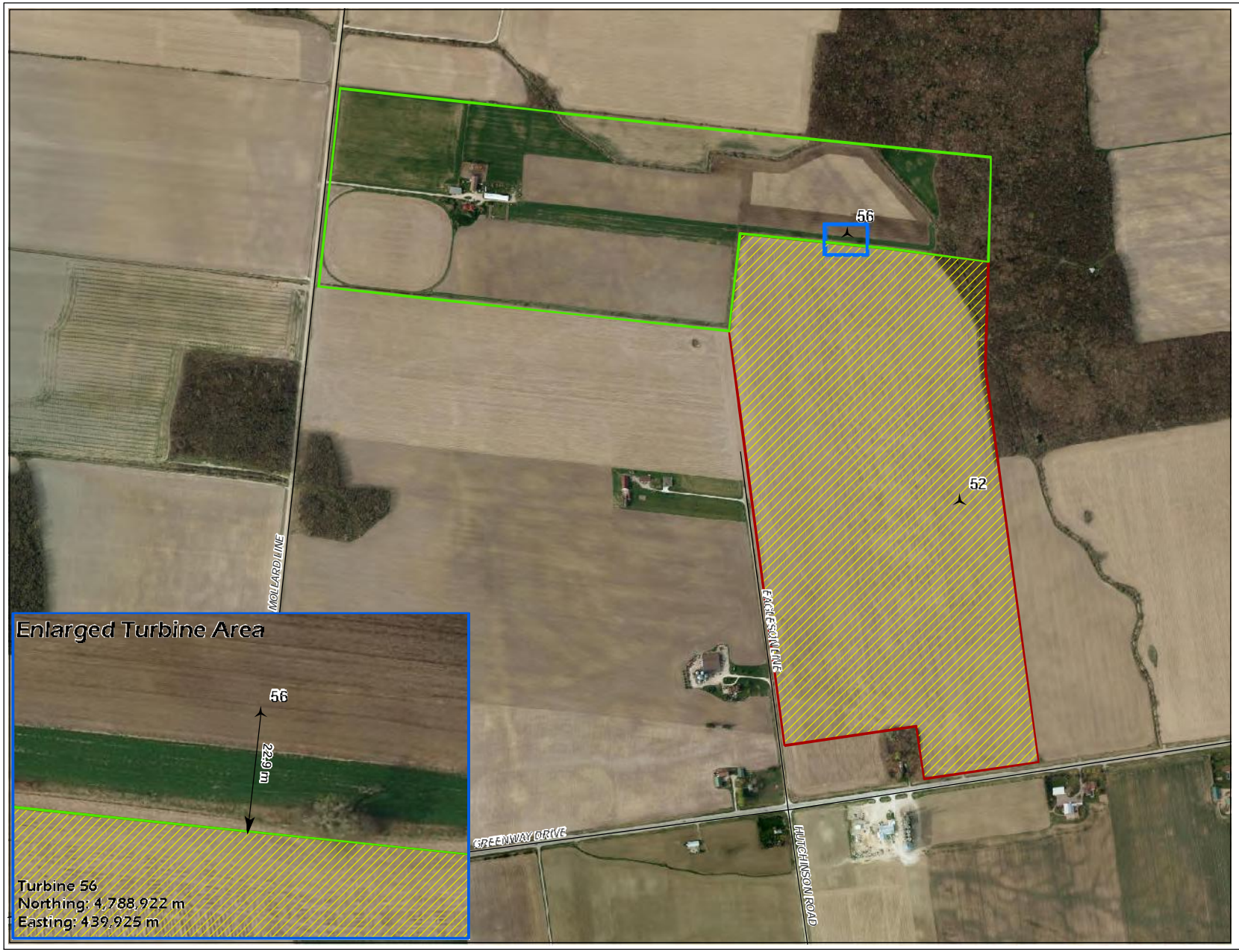
- Turbine Location
- Host Land Parcel N 1/2 Lot 7 , Con 20
- Neighbouring Land Parcel Pt Lot 6, Con 20

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 53

0 100 200 400
Metres
1:7,500
NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre

Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Pt Lot 16 , Con 22
- Neighbouring Land Parcel Pt Lot 16, Con 22; Pt Lot 17, Con 22; Pt Lot 43, Con S Bdry

Required Lotline Setback

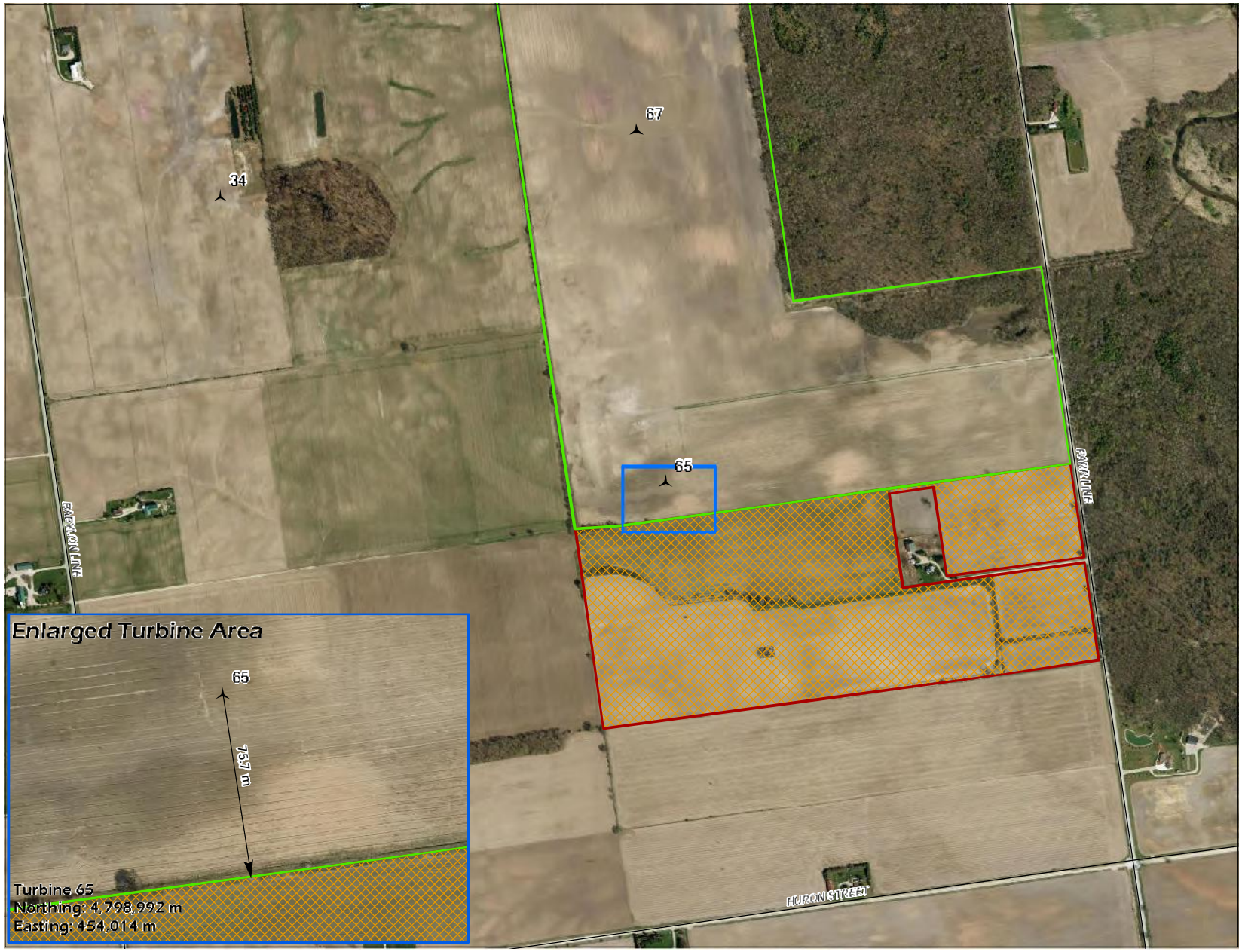
- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 56

0 100 200 400
Metres

1:7,500

NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre

Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Lot 23 , Con 7; Pt Lot 13, Con N Bdry
- Neighbouring Land Parcel Pt Lot 22, Con 7

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 65

0 100 200 400

Metres

1:7,500

NAD 1983 UTM Zone 17N

NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre
Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Lot 6 & 7 , Con 11
- Neighbouring Land Parcel Lot 6 & Pt Lot 7 , Con 12

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 69

0 100 200 400
Metres

1:7,500

NAD 1983 UTM Zone 17N

NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre

Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel Pt Lot 15, Con 10
- Neighbouring Land Parcel Pt Lot 14 & Pt Lot 15, Con 12

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

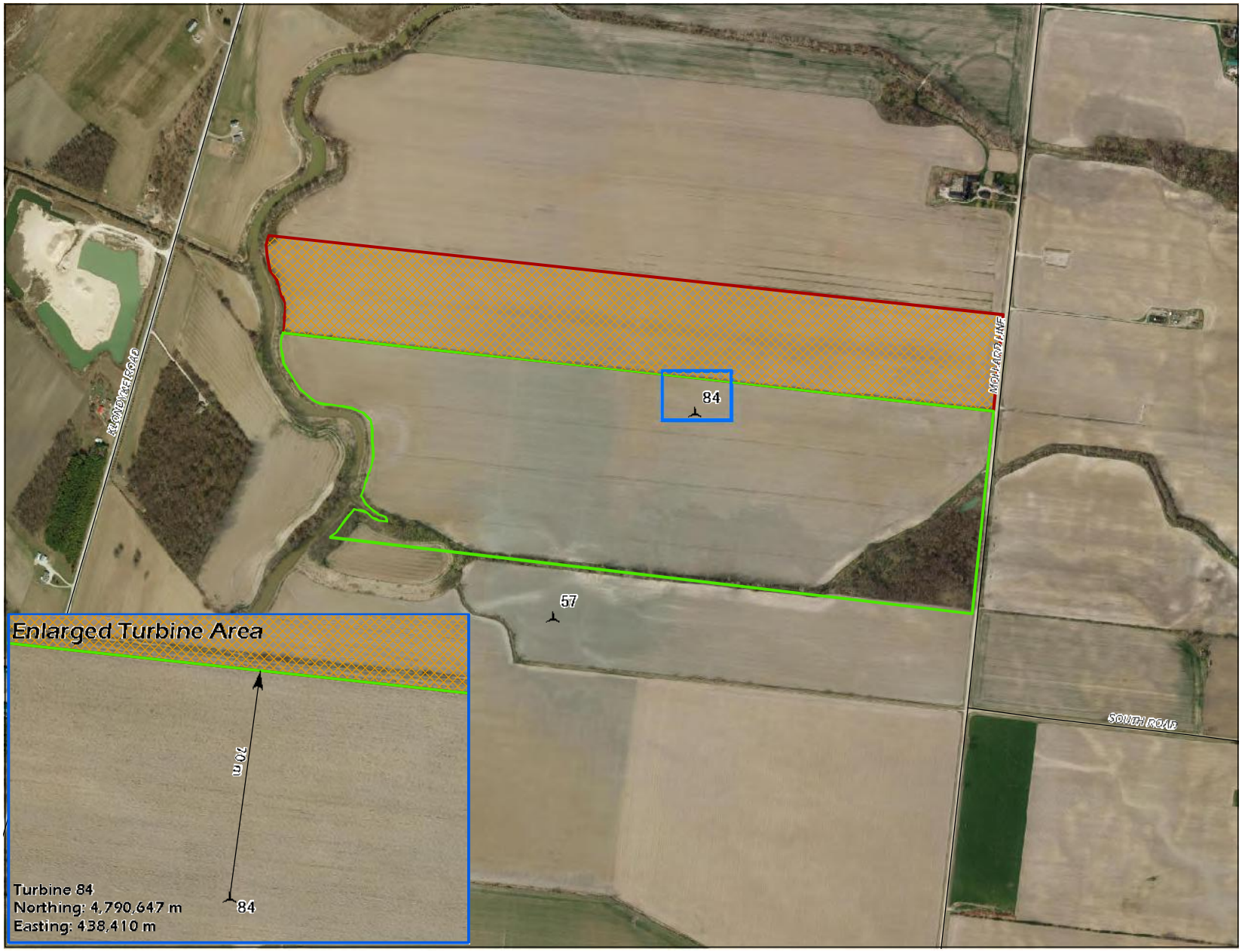
Turbine 71

0 100 200 400

Metres

1:7,500

NAD 1983 UTM Zone 17N



NEXTera ENERGY RESOURCES

Goshen
Wind Energy Centre
Huron County, Ontario

Parcel Boundary Setback Reduction Analysis

Legend

- Turbine Location
- Host Land Parcel
  Lot 12, Con River Aux Sauble
- Neighbouring Land Parcel
  S 1/2 Lot 11, Con River Aux Sauble

Required Lotline Setback

- Agreement Will Be in Place With Assessment - No Setback Required
- No Agreement - 60m Setback With Assessment

Turbine 84

0 100 200 400
Metres

1:7,500

NAD 1983 UTM Zone 17N